

Jira Service Management 5.4

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# Jira Service Management Data Center and Server 5.4 documentation

Put the power of Jira in the hands of your service management team.

#### Get started

New to Jira Service Management? Check out our guides for new administrators and users.

#### View guide Whats new

Time to upgrade? Get the lowdown on the latest and greatest in Jira Service Management 5.4.

View latest changes

### **Installing Jira Service Management**

Jira Service Management is built on the Jira platform and has everything your IT teams need for service request, incident, problem, and change management. It's part of the Jira family of applications (Jira Software, Jira Service Management, Jira Core) and can be used separately or in any combination, on the same instance.

If you're ready to install or upgrade Jira Service Management, then this guide has you covered. If you have Jira Service Management installed and would like to learn how to configure and use it, head to the Jira Service Management documentation.

#### 1.System requirements

Before you install Jira Service Management, you'll need to check if it supports your operating system, as well as a few other things.

#### Read

- Supported platforms
- Jira applications installation requirements

If everything looks good, it's time to decide which version and license is right for your organization. If you've already made a decision, jump toInstall Jira Service Management.



#### 2. Versions and licensing

If you plan on managing your own Jira Service Management instance (not hosted by Atlassian), you have the option of either a Server or Data Center license. Your license determines which features and infrastructure choices are available.

For organizations who need more time to prepare before upgrading to a new version, but still want critical bug fixes, an Enterprise release is a good choice.

Read

- Jira Service Management licensing and purchasing
- Jira Server and Data Center feature comparison
- Long Term Support releases

If you're clear on what you're getting and why, it's time to install Jira Service Management.

### 3. Install Jira Service Management

Here we'll talk you through how to install Jira Service Management to trial and put into production, as well as how to add additional Jira applications to your existing installation.

#### Install Jira Service Management to trial

- 1. Download the installer for your operating system athttps://www.atlassian.com/software/jira/service-desk/download.
- 2. Follow the steps at Evaluation installation. Jira Service Management comes with a handy embedded H2 database that you can use for evaluation purposes.
- 3. Once installed, readGetting started for service project adminsto learn what you can do with Jira Service Management.

If you'd like to move into production, consider starting afresh by following the Install Jira Service Management for production guides below.

#### Install Jira Service Management for production

- 1. Set up your database by following the guide that applies to you at Connecting Jira applications to a database.
- 2. Install with your operating systemby following the guide below that applies to you:
  - Installing Jira applications on Windows
  - Installing Jira applications on Linux
- 3. Once installed, follow the tutorial on Getting started for service project adminsto set up Jira Service Management for your support teams.

#### Install additional Atlassian products

If you have Jira Core or Jira Software installed, you can install Jira Service Management as an additional application, and vice versa.

Head to Administration (<sup>O</sup>) > Applications > Versions & licenses and follow the steps below:

- 1. Check which version of Jira Service Management is compatible with your existing installation at Jira Service Management version history.
- 2. Ensure you have Jira Administrator Global Permission.
- 3. Follow the steps at Installing additional applications and version updates.
- 4. Read the documentation for the product you've installed, to learn how to get started.

There are over 600 apps available from the Atlassian Marketplace that will help you supercharge your Jira Service Management. Read Managing apps to learn how to set these up.

# 

#### 4. Upgrade to a newer version

There are several ways to upgrade Jira Service Management. The method you choose will depend on the version of Jira Service Management you use, and the type of environment you use it in.

#### Steps to take

- 1. Decide which version to upgrade to by reading the release and upgrade notes.
- 2. Determine your upgrade path:

Version	Upgrade path
Earlier than 2.5.x	Upgrade to 3.0, then upgrade to the latest version.
3.0 to 3.16	Upgrade directly to the latest version.
4.0 or later	Upgrade directly to the latest version.

3. Choose your method from the below options and follow the steps on that page:

- Using the installer (the easiest way to upgrade your Jira instance)
- Upgrading manually(if you're moving to a different operating system or database software)
- Upgrading Jira Data Center (manual) with downtime
- Upgrading Jira Data Center with zero downtime



#### 5. Get the most out of Jira Service Management

Now you have Jira Service Management installed, there's plenty of resources to help you set it up, learn the features, and get your dream team using it.

#### Getting started

- · Getting started for service project admins
- Getting started for service project agents

#### Top tasks

- Configuring the Customer Portal
- Automating your service project
- Setting up SLAs

#### Best practice guides

- Set up a knowledge base for self-service
- Best practices for IT teams using Jira Service Management
- Best practices for software teams using Jira Service Management

### Jira applications overview

#### Jira Service Management licensing overview

The Jira family of applications (Jira Software, Jira Service Management, Jira Core) are built on the Jira platform and can be used in any combination on the same instance. Depending upon of your setup, users can be licensed to one, all, or any combination of these applications. Read on to understand how Jira Service Management licensing and roles affect what agents, customers, and other Jira application users can do.

If you're a Jira administrator, check out more information on Licensing and application access.

#### Application features and project types

Each application delivers a tailored experience for its users, and has an associated project type which in turn offers application specific features. Below is a list of the project types, and their associated application specific features.

Application	Project type	Application specific feature set
Jira Core	Business projects	<ul> <li>Available to all licensed users</li> </ul>
Jira Software	Software projects	<ul> <li>Integration with development tools</li> <li>Agile boards</li> <li>Release hub for software versions</li> </ul>
Jira Service Management	Service projects	<ul> <li>Service Level Agreements (SLAs)</li> <li>A customizable web portal for customers</li> <li>Permission schemes allowing customer access</li> </ul>

All users that can log in to a Jira instance will be able to see all the projects in that instance (pending permissions), but they will only be able to see the application-specific features when they have application access. For example, a Software project is able to display information from linked development tools, such asBitbucket and FishEye, as well as agile boards, but this information is only viewable by a Jira Softwareuser. A Jira Coreuser would be able to see the Software project, but would not be able to see the Software-specific features, like agile boards or the information from linked development tools. Likewise, a Jira Softwareuser would not be able to see any Jira Service Managementapplication-specific features on a service project, only a basic view of the project and its issues.

- (i)
  - Only a Jira administrator can create a project for an installed application. They do not need
    application access to create the project, but they do need application access if they'd like to view
    or use the project.
  - Anonymous users will have access equivalent toJira Coreusers. In other words, they can view
    issues and work in any type of project, but they won't see application-specific features, e.g. agile
    boards, which areJira Software-specific features. To know how to allow anonymous users access
    to projects, seeAllowing anonymous access to your instance.

A list of the applications, their user roles, and their project's application-specific features can be found below:

Jira	Jira	Jira Service
Core	Software	Management

			Jira-Core- user	Jira- Software- user	Jira- ServiceDesk- agent	Custom ers
Service	Project level	Create	8	8	<b>Ø</b>	$\otimes$
Projects		View	•	0	0	Ø
	Issue level	Create	8	8	0	Ø
		View	•	0	0	Ø
		Comm ent	•	0	•	•
		Transit ion	8	8	0	8
	SLA level	Create	8	8	0	8
		View	8	8	<b>Ø</b>	⊗
	Queue level	Create	8	8	<b>Ø</b>	⊗
		View	8	8	0	8
	Jira Service Management gadgets	View	8	8	•	8

### **Permissions overview**

This page describes the different types of permissions and access rights that can be set up in Jira applications.

#### What are permissions?

Permissions are settings within Jira applications that control what users within those applications can see and do. All Jira applications allow a variety of permissions: from whether users can create new projects to whether a user can see a specific type of comment on an issue. These permissions can differ between applications.

Permissions are different from application access, which is controlled by groups that have **Use** access for an application. For more information about setting application access, see<u>Managing user access</u> to JIRA applications.

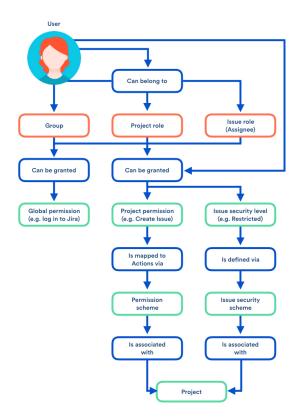
#### Types of permissions

There are three types of permissions in Jira applications, and they range from the high-level to granular:

- **Global permissions** These apply to applications as a whole, not individual projects (for example, whether users can see the other users in the application).
- **Project permissions** Organized into permission schemes, these apply to projects (e.g. who can see the project's issues, create, edit and assign them). While project admins can assign users to a project, they can't customize the permission schemes for a project. There are lots of project-level permissions you can set to control what users can do within a project.
- **Issue security permissions** Organized into security schemes, these allow the visibility of individual issues to be adjusted (within the bounds of the project's permissions). For example, issue security permissions can let you set up types of issues that can only be seen by project admins or users in specific groups.

#### How do permissions get assigned?

Permissions can be assigned to groups or to project roles/and or issue roles. This diagram illustrates how permissions are assigned to users:



#### Who can set permissions?

Permission	Can be set by	For more info, see
Global permission	A user with the Jira System administrator permission	Managing global permissions
	A user in a group with System Admin access	
Project permission	A user with the Jira System administrator permission	Managing project permissions
	A user in a group with Admin access	
Issue security permission	A user with the Jira System administrator permission	Configuring issue-level security
	A user in a group with Admin access	
	A project admin	

#### Jira Service Managementglobal and project permissions

Jira Service Managementprovides a standard permission scheme (Jira Service ManagementPermission scheme for *project*) that automatically gives yourservice deskusers the correct permissions for the project role they are in. For example, adding agents to your service desk will add users to the Service Desk Team role. This role gives them access to Jira Service Managementprojects to which they're assigned and also allows them to work on issues.

#### **Global permissions**

At installation time, Jira Service Managementcreates a global permission named **Jira Service Management agent access**. If agent based pricing is enabled for the instance, users who require access to agent views or functionality need to have this permission. The number of users who are granted this permission determines how many agent licenses are used on the system.

#### **Project permissions**

This table shows the permission configuration for a standard service desk projectpermission scheme:

Project Permissions	Users / Groups / Project roles	Explanation
Administer Projects	Project Role (Administ rators)	Permission to administer a project. This includes the ability to edit project role membership, project components, project versions and certain project details (Project Name, URL, Project Lead, Project Description).
Browse Projects	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to browse projects, use the Issue Navigator and view individual issues (except issues that have been restricted via issue security). <b>Many</b> <b>other permissions are dependent on this permission</b> , e.g. the 'Work On Issues' permission is only effective for users who also have the 'Browse Projects' permission.
View Development Tools	<ul> <li>Proje ct Role (Admi nistra tors)</li> </ul>	

3

View (Read- Only) Workflow	<ul> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to view the project's 'read-only' workflow when viewing an issue. This permission provides the 'View Workflow' link against the Status field of the 'View Issue' page.
Issue Permissions	Users / Groups / Project roles	Explanation
Create Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to create issues in the project. (Note that the Create Attachments permission is required in order to create attachments.) Includes the ability to create sub-tasks (if sub-tasks are enabled).

Edit Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to edit issues (excluding the 'Due Date' field see the Schedule Issues permission). Includes the ability to convert issues to sub-tasks and vice versa (if sub-tasks are enabled). Note that the Delete Issue permission is required in order to delete issues. The Edit Issue permission is usually given to any groups or project roles who have the Create Issue permission (perhaps the only exception to this is if you give <b>everyone</b> the ability to create issues it may not be appropriate to give everyone the ability to edit too). Note that all edits are recorded in the issue change history for audit purposes.
Transition Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to transition (change) the status of an issue.

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Schedule Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to schedule an issue that is, to edit the 'Due Date' of an issue. In older versions of Jira this also controlled the permission to view the 'Due Date' of an issue.
Move Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to move issues from one project to another, or from one workflow to another workflow within the same project. Note that a user can only move issues to a project for which they have Create Issue permission.

Assign Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to assign issues to users. Also allows autocompletion of users in the Assign Issue drop-down. (See also Assignable User permission below)
Assignable User	<ul> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to be assigned issues. (Note that this does not include the ability to assign issues; see Assign Issue permission).
Resolve Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to resolve and reopen issues. This also includes the ability to set the 'Fix For version' field for issues. Also see the Close Issues permission.

Close Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to close issues. (This permission is useful where, for example, developers resolve issues and testers close them). Also see the Resolve Issues permission.
Modify Reporter	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to modify the 'Reporter' of an issue. This allows a user to create issues 'on behalf of' someone else. This permission should generally only be granted to administrators.

Delete Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to delete issues. Think carefully about which groups or project roles you assign this permission to; usually it will only be given to administrators. Note that deleting an issue will delete all of its comments and attachments, even if the user does not have the Delete Comments or Delete Attachments permissions. However, the Delete Issues permission does not include the ability to delete individual comments or attachments.
Link Issues	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to link issues together. (Only relevant if Issue Linking is enabled).

Set Issue Security	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to set the security level on an issue to control who can access the issue. Only relevant if issue security has been enabled.
Voters & Watchers Permissions	Users / Groups / Project Roles	Explanation
View Voters and Watchers	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to view the voter list and watcher list of an issue. Also, see the Manage Watcher List permission.

Manage Watcher List	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to manage (i.e. view/add/remove users to/from) the watcher list of an issue.
Comments Permissions		Explanation
Add Comments	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to add comments to issues. Note that this does not include the ability to edit or delete comments.

Edit All Comments	<ul> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to edit any comments, regardless of who added them.
Edit Own Comments	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to edit comments that were added by the user.
Delete All Comments	<ul> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to delete any comments, regardless of who added them.

Delete Own Comments	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to delete comments that were added by the user.
Attachments Permissions	Users / Groups / Project Roles	Explanation
Create Attachments	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to attach files to an issue. (Only relevant if attachments are enabled). Note that this does not include the ability to delete attachments.

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Delete All Attachments	<ul> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to delete any attachments, regardless of who added them.
Delete Own Attachments	<ul> <li>Servi ce Desk Custo mer - Portal Acce ss</li> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to delete attachments that were added by the user.
Time Tracking Permissions	Users / Groups / Project Roles	Explanation
Work On Issues	<ul> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to log work against an issue, i.e. create a worklog entry. (Only relevant if Time Tracking is enabled).

Edit Own Worklogs	<ul> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to edit worklog entries that were added by the user. (Only relevant if Time Tracking is enabled). Also, see the Work On Issues permission.
Edit All Worklogs	<ul> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to edit any worklog entries, regardless of who added them. (Only relevant if Time Tracking is enabled). Also, see the Work On Issues permission.
Delete Own Worklogs	<ul> <li>Proje ct Role (Servi ce Desk Team)</li> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to delete worklog entries that were added by the user. (Only relevant if Time Tracking is enabled). Also, see the Work On Issues permission.
Delete All Worklogs	<ul> <li>Proje ct Role (Admi nistra tors)</li> </ul>	Permission to delete any worklog entries, regardless of who added them. (Only relevant if Time Tracking is enabled). Also, see the Work On Issues permission.

#### Using custom permission schemes

If you are a service desk administrator and you want to customize the standard permission scheme, make sure that the roles have the mandatory permissions. SeeCustomizing Jira Service Management permissions.

#### **Resolving permission scheme errors**

If you encounter any error messages related to your service desk's permission scheme, check outResolving Jira Service Management permission errors.

### **Getting started with Jira Service Management**

Learn about Jira Service Management's differentuser typesand roles, get a brief introduction to how your customers raise requests, and learn what those requests look like for agents. When you're ready, pick a tutorial and learnhow to make your service desk work better for your team and your customers.

#### User types and roles

*Licensed users*manage customer requests in your instance of Jira Service Management. These aremost likely yourproject administrators, service desk team members, employees and even contractors. They track and resolve your customers' requests, transition issues through workflows, and contribute to their team's service level agreements (SLAs).

*Unlicensed users*raise requests and interact with service desk agents*for free*. These are your customers. They submit requests via your service project's customer portal or email address, comment on requests, and read knowledge base articles. Customers do not require a license, so you can have an unlimited number of customers who can submit an unlimited number of requests, free of charge.

Most of the information in these documents focuses on two licensed roles: administrators and agents. The administrator sets up and configures service projects. The agent works in these projects.

#### Admins

Project administrators for your service project can:

- · Access all features in Jira Service Management
- Manage users and roles in service projects
- Set up customer portals, request types, queues, reports and SLAs
- Perform all tasks that agents can

#### Agents

Service project team members who work on customer requests can:

- View the customer portal, queues, reports and SLA metrics for a project
- Add, edit, and deletecustomer-facingand internal comments on issues
- Add customers to a project
- Read knowledge base content
- Manage organizations (if allowed at the application level)
- Create knowledge base content (with a Confluence license)

#### Customers

The people you serve through your service project can:

- Raise requests via the customer portal or email channel
- Track their requests in the customer portal
- Comment on their requests
- Read knowledge base articles
- Approve other customers' requests
- Share requests with other customers(if allowed by Customer permissions)

All this is free for your customers.

#### How a service project works (in 4 simple steps)

Here's how your customers and service project agents work together to resolve a request:

1. Your customer submits a request to your service agents through a portal or via email.
2. A service project agent sees the request in their Jira Service Management queue and looks into the issue.
3.Your customer and other participants use the portal or email todiscuss the request with your service project agent, who works in Jira Service Management.
4. Your agent completes the request and your customer is satisfied!

#### "Requests" vs. "issues"

Your customers submita*request*through the customer portal or by email. These requests become *issues* that youragents work on in their agent view.

How customers see their requests in the customer portal:

Help Center / Charlie Travel Sydney / CTS-13 The printer is not working WAITING FOR SUPPORT		
Comment on this request	Ø Share	
	Escalate	
	Resolve this	issue
Details 2 days ago 6:54 AM	Cancel requ	est
Description Cannot seem to be able to print on the level 9 printer. There is a red light b	blinking.	
	Shared with	
	Alana Grant Creator	
annot seen to be able to print on the level 3 printer. There is a red light b	- Shared	na Grant

How agents see those corresponding issues:

CTS-13 The printer is not work	ing					Return to que
Sedit Q Comment Ass	ign More 🗸	Respond to customer	In progress Workflow	✓ Admin ✓		< 🏦 Export 👻
<ul> <li>Details</li> </ul>					✓ SLAs	
Type: Serv Component/s: None	ice Request	Status: Resolution:	WAITING FOR	SUPP (View Workflow)	-1d 4h  🛙	Time to first response within 4h
Labels: None					-1d 📕	Time to resolution within 1d
> Description					✓ People	
<ul> <li>Attachments</li> </ul>					Assignee:	(2) Unassigned
	<u></u>	Drop files to attach, or bro				Assign to me
	جې	brop mes to attach, or bro	woc.		Reporter:	😱 Alana Grant
<ul> <li>Activity</li> </ul>					Request participants:	None
All Comments Work Log	History Act	tivity Transitions			Organizations:	None
There are no comments yet on	ble leeue				Votes:	0 Vote for this issue
There are no comments yet on	110 10000				Watchers:	0 Start watching this issue
					<ul> <li>Service Desk requ</li> </ul>	est
Click to add comment				le	Request type:	③ Get IT help
					Customer status:	Waiting for support
					Channel:	Unknown
					View customer requ	lest

#### Ready to get started?

Choose your Jira Service Management tutorial:

I am an admin

I am an agent

### Getting started for service project admins

Welcome to Jira Service Managementfor admins! In this tutorial, we'll introduce you to your workspace and walk you through the process of setting up a service project for your team of agents and a corresponding customer-facing site (which we call the customer portal).

We'll be focusing on basicJira Service Managementfeatures and tasks to help you get up and running quickly. By the end of this tutorial, you will have:

- Set up 1 service project
- Added 3 agents
- Prepared your customer portal to receive customer requests

Let's take a quick look atJira Service Management...

#### Audience:

- Service desk administrators
- Team managers

Time: 30 minutes

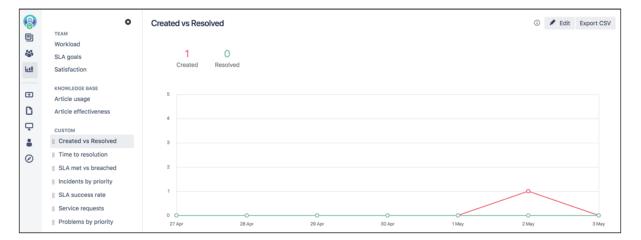
Queues	ן

As an admin, you will set up and configure queues for your agents. Your agents will then view and work on issues from the same tab:

Charlie Travel Franchis	QUEUES		All open						(j	Edit queue
Queues	All open	2	Time to resolution	т	Key	Status	Summary	Created	Ρ	Reporter
	Unassigned issues	2	-3d 🕔		CTF-1	WAITING FOR SUPPO	What am I looking at?	26/Apr/18	0	Karen
Customers	Assigned to me	0		-	075 0		Didentificate Didentificate	0004-0040		Bywater
LII Reports	ii → Waiting on me	0	1h 19m 🕔		CTF-2	WAITING FOR APPRO	3 day trip to Brisbane	02/May/18	Ŷ	Alana Grant
	Incidents	0	1-2 of 2							
<ul> <li>Raise a request</li> </ul>		0								
C Knowledge base	∥ └→ Critical	0								
Customer channels	Service requests	1								
Invite team	∥ → Due in 24h	0								
Ø Welcome guide	Change	0								
		0								
PROJECT SHORTCUTS	∥ → Emergency chan	0								
Add a link to useful information for your whole team to see.	Problem	o								
+ Add link	∥ → Completed last 3	0								
1 Para IIIN	Recently resolved	o								
	+ New queue									

Reports

Use the Reports tab to view your team's workload. You can also set up custom reports to track your team's progress in more detail:





Here, you will set up request types, brand your customer portal, link your service project to an email account, and manage users:

( <u>(</u> ) =	Project settings					
₩ 	Commany request types      Details     Re-index project     Delete project     Logins and Accounts     Logins and Accounts     Customer permissions     Portal settings     Email request     Servers and Infrastruc	Common Requ	Request name	Issue type	Description (Optional)	
•		Applications Servers and Infrastruc		Get IT help	Service Request	Get assistance for general IT problems and questions.
			<u> </u>	Report a system problem	Incident	Having trouble with a system?
				Set up VPN to the office Request a new	Service Request	Want to access work stuff from outside? Let us know.
	- Incident			account	Service Request	system.

#### Customer portal

This link lets you navigate the customer view of your service project:

ATLASSIAN		Add announcement Requests 💿 😨
	Help center Charlie Travel Sydney Welcome! You can raise a Charlie Travel Sydney request from the options prov	vided.
	What do you need help with?	Q
	Common Requests       Flight         Logins and Accounts       Testing approvals         Computers       Get IT help         Applications       Set up VPN to the office         Servers and Infrastructure       Set up VPN to the office         Want to access work stuff from on       Request a new account         Request a new account       Request a new account         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approvals         Want to access work stuff from on       Testing approve <t< th=""><th>butside? Let us know. tem.</th></t<>	butside? Let us know. tem.

Now that you're familiar with your service project workspace, you can set up your ownJira Service Managementsite and add your first project.

Let's go!

### Setting up your service project

- 1. Setting up your service project
- 2. Creating service project
  - request types
- Making queues for your service project teams
- 4. Adding service project agents
- 5. Customize your service project channels
- 6. Bring your service project to the next level
- Introduce customers to your service project
- 8. Explore a sample project

You'll need a working Jira Service Management instance to complete this tutorial, and we have installation instructions for both Windows and Linux operating systems.

- Windows installation instructions
- Linux installation instructions

If you have an existing Jira Service Management site, skip ahead to create a service project. If your administrator has set you up as a project admin for an existing project, jump to Step 2 to create your request types.

#### Create a project

Jira Service Managementcomes with default project templates that you can use to suit your team's needs. There are three templates you can choose from:

- The Basic Service Desktemplate is set up for internal business teams, like HR, finance, or small IT teams. The template comes with just a few recommended request forms and is easy to customize and expand with your needs.
- We recommend the**IT Service Desk**template for IT teams who maintain a more complex infrastructure. The template comes with ITIL-inspired workflows for change, incident, and problem management.
- If you help external customers and want to collect bug reports or take suggestions for new feature, we recommend the **Customer service**desk template. The template comes ready for your customers to request technical or billing help, and report issues.

For now, let's get you set up with a basic service project.

- If you're working with an existing Jira Service Managementinstance, select Projects> Create Project from the top navigation bar of your instance. If you've just installed and set up Jira Service Management, you'll have the option to Create a new project by selecting Create new project.
- 2. Select "Basic Service Desk" as the project type.
- 3. Name your project. In this example, we'll use the project name "Charlie Travel Franchises". The project key should be automatically populated, but you can change the key if you'd like. If you see options to link another application, leave these options unchecked.
- 4. Select Submit to create your project.

Nice work! You now have a service management site with one project. You will now learn to set up request types, which define the requests customers can submit to your team's service project.

### Creating service project request types

- 1. Setting up your service project
- 2. Creating service project request
- types 3. Making queues for your service project teams
- 4. Adding service project agents
- 5. Customize your service project channels
- 6. Bring your service project to the next level
- 7. Introduce customers to your service project
- 8. Explore a sample project

Request types let you define and organize incoming issues so your service project team can more efficiently help your customers. If you're moving from an existing help desk application, you can add your existing request categories during this step.

If you're setting up service project request types for the first time:

- Think about how your customer would write a request, for example 'Order a new monitor' over 'Submit a hardware request'.
- Break things down into smaller chunks, such as 'Get help with printers' or 'Get wi-fi access'.
- Avoid specialist terminology; think 'I need access' more than 'Deploy SSH key'.

By the end of this step, your project's request type page should look something like this:

Request types	General				Add existing request type
GROUPS	Icon	Request name	Issue type	Description (Optional)	Actions
Access     Hardware requests	-		🖸 I 💌		Create request type
<ul> <li>Hidden from portal 0</li> <li>+ Add group</li> </ul>		Order a monitor	Service Request with Approvals	Order a new monitor for your workstation	Edit fields Edit groups 1 ×
	(( <u>*</u> ))	Connect to wi-fi	Service Request	Get access to your office's wi-fi network	Edit fields Edit groups 3 x

#### (i) Requests vs. Issues

Remember that customers submit requests to your service project and your team picks up the corresponding issues to work on.

#### Create new request types

З.

Let's go ahead and add two new request types, so you can familiarize yourself with the request type configuration options.

- 1. In your new service project, selectProject settings>Request types.
- 2. In the new request type form at the top of the page, change the request type icon and enter the following details for a new "Connect to wi-fi" request type.

((•)) Connect to wi-fi 🗖 🔻	Get access to your office's wi-fi network	Create request type						
Select <b>Create request type</b> when you've finished entering your request type details. Create a second request type called "Order a monitor" with the following details:								
Order a monitor  Order a new monitor for your workstation  Create request type								

SelectCreate request typewhen finished.

Edit the fields your customers see

Now that you have requests in the customer portal, you can prompt your customers to give you the information you need to help them quickly. These simplified fields help customers understand what information they need to provide when submitting a request.

Let's add some fields to your request types, so you can collect some additional information.

1. For the "Connect to wi-fi" request type, selectEdit fields.

 UnderVisible fields, click the "Summary" display name and rename it to "What do you need?". Add some placeholder text to the Field helptogather useful details from your customers. For example:

Visi	ble fields					
	Display name	Required	Field help (Optional)	Actions		
	What do you need?	Yes	e.g. Wi-fi access for the Houston office.		Update	Cancel
	Issue field: Summary					

- Select**Update**when finished.
- 3. SelectAdd a field to add the "Priority" field to the request form and selectApply.
- 4. On the Workflow Statuses tab, you will see the default Jira workflow status names displayed on the left hand side. You can change how these statuses appear to customers by editing the Status name to show customer fields as shown:

Workflow status in JIRA view workflow	Status name to show customer
Resolved	Completed
Waiting for customer	Waiting for customer
Waiting for approval	Waiting for approval

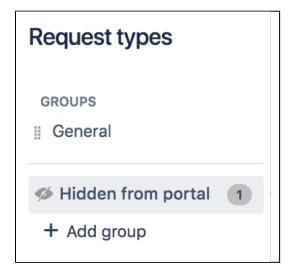
5. SelectView this request form to see how your changes appear in the customer portal.

Organize your requests with groups

A group is simply a categoryyou can assign to each request type. In the customer portal, your request types are organizedvertical tabsbased on your groups.

$\odot$	We think groups	are helpful if yo	ou have seven o	or more request types.
---------	-----------------	-------------------	-----------------	------------------------

Go to Project settings>Request types. You should see your groups in the sidebar:



Let's add a few groups to help your customersfind the request they need:

- 1. To add request groups, select+ Add group. Add two groups for your new request types, "Hardware requests" and "Access".
- When viewing your "Access" request group, selectAdd existing request typeand choose your "Connect to wi-fi" request type:

	Add existing request type
Q Search	
Available request types	
Order a monitor	
((•)) Connect to wi-fi	

- 3. Switch to your "Hardware requests" group in the sidebar.
- 4. SelectAdd existing request typeand choose your "Order a monitor" request type.
- 5. Open the customer portal link from your project sidebar to see your requests organized into groups.
- 6. To rearrange the order of how your groups appear in the customer portal, go back to your project settings and drag and drop the groups in the request typessidebar.

#### Create a request from the customer portal

- 1. Keep the customer portal preview open, so youcan create test requests from a customer's perspective.
- 2. Select the "Connect to wi-fi" request type.
- 3. Enter "Test wi-fi request" in the open field and select Medium priority.
- 4. ClickCreateto complete your request and view the open request in the customer portal.
- 5. Click**Close**to exit the customer view and return to your service desk project.

Excellent work! You now have four request types and a new issue in your project. Next, you will learn how to sort these issues into queues, which will allow you to manage your team's workload.

# Making queues for your service project teams

- 1. Setting up your service project
- 2. Creating service project request types
- Making queues for your service project teams
- 4. Adding service project agents
- 5. Customize your service project channels
- 6. Bring your service project to the next level
- Introduce customers to your service project
- 8. Explore a sample project

Your teams will spend the majority of their time working out of the queues you set up. Agents do not have the permissions to add new queues or configure existing ones; however, Jira Service Managementqueues allow you to automatically triage and prioritize issues for them. If you want your team to focus on requests that must be completed by next week, for example, you can set up a queue that only contains requests with a set due date in that week.

Your site comes with preconfigured queues (for example, "Unassigned issues"), but let's go ahead and create three new queues for your team:

- 1. From your service project sidebar, select **Queues** (I).
- 2. Select New queue and name your first new queue "Service requests".

3. Define the issues you want to appear in this queue by selecting the following drop-down menus: Type (select "Service Request"); Status (select "Waiting for support"), and Resolutions(select "Unresolved"):

New o	queu	Ie				
Name						
Service r	request	S				
Issues to s	how					
More 🗸	Serv	ice Request 🗸	<ul> <li>Waiting</li> </ul>	g for sup 🗸	Unresolve	ed 🗸
Columns						
More 🗸	Key ×	Summary ×	Created ×	Updated ×	Due Date ×	
Create	Cance	el				

- 4. Select the following column names that will display in this queue from the Moremenu: "Key", "Summary", "Created", "Updated", "Due Date".You can reorder the columns by dragging the name (for example, "Key") across the column field.
- 5. Select**Create**to add this queue to your team's workspace.
- 6. Create two new queues with the following two search queries: "Completed requests" for Service requests that have been successfully resolved.

New o	queu	е			
Name					
Complete	ed requ	ests			
Issues to s	how				
More 🗸	Servi	ice Request 🗸	Resolve	ed 🗸 🛛 Res	olution: All 🗸
Columns					
More 🗸	Key ×	Summary ×	Created ×	Updated ×	Due Date ×
Create	Cance	el			

"Due this week" for requests that must be completed in the next week

New queue	
Name	
Due this week	
Issues to show	
More • Type: All • Waiting for sup • Resolut	ion: All 🗸 Label: All 🗸
Due Date: All 😡	_
O Now overdue	
O More than minutes ᅌ overdue	Date ×
Due in next 1 weeks I or is I overdue	
○ Between 11-Jan-2012 iii and 30-Jan-2012 iii	
○ In range -3w 4d to 3w 4d 1	
Update Close	

7. Reorder your saved queues by clicking and dragging them to their new location.

You now have three new queues in your project! You will next learn how to add agents to your siteso you can get your teams up and running with Jira Service Management.

Next

# Adding service project agents

- 1. Setting up your service project
- 2. Creating service project request types
- Making queues for your service project teams
- 4. Adding service project agents
- 5. Customize your service project channels
- 6. Bring your service project to the next level
- 7. Introduce customers to your service project
- 8. Explore a sample project

There are two default project roles you can assign users to in Jira Service Management:

- Service Desk Customerswho create requests via email or the customer portal
- Service Desk Teamwho view and respond to these requests

As the user who created this project, you have been automatically added to the Administrators project role.

# Add your agents

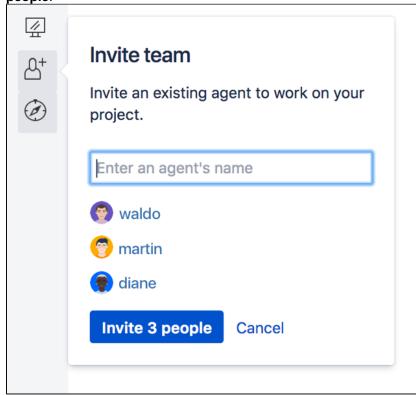
Project administrators can add agents with existing user accounts to their project. If you are aproject administrator, you will need to contact your siteadministrator to add user accounts for new agents. Make sure you're

signed in as an administrator for this step, you can invite three new

agents to your project - Diane, Martin, and Waldo:

1. In your project sidebar, select Invite team.

2. Enter the email addresses for your new agents and select **Invite 3 people**.



 The agents are added to the Service Desk Team role in Project settings > Users and roles.

#### Assign issues to agents

Your agents will generally work out of queues that have issues automatically triaged into them. Let's test out manually assigning issues in case you ever come across a customer request that you want a certain agent or team to handle.

- From theQueuestab, open one of your test requests by clicking the issue summary or issue key.
- 2. SelectAssign.
- 3. Enter Waldo in the **Assignee** field and select**Assign**. When Waldo signs into Jira Service Management, this issue appears in his queue.
- 4. Assign another test issue to Diane.

### Add your customers

You don't need to add customers to your service project during this tutorial, but let's check out where you would add them, so you're familiar with the steps:

- 1. From your project sidebar, selectCustomers.
- SelectAdd customers in the top right corner and enter one or more email addresses.
- 3. When you select **Invite**, the customers receive an email invitation with a link to your customer portal, where they can complete the signup process.

Public customer signup

You can have your customers sign up for their own accounts (without an individual email invite) by enabling p ublic signup.

You're almost done! You have now added 3 agents to your service project and reviewed the process of assigning issues to these agents. You can now customize your customer portal and share it with the rest of your team.

# Customize your service project channels

- 1. Setting up your service project
- 2. Creating service project request types
- Making queues for your service project teams
- 4. Adding service project agents
- 5. Customize your service project channels
- 6. Bring your service project to the next level
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Service project customers can send you requests in two ways:

- through an online portal
- to an email account you've linked to your service project.

Let's customize the portal and add an email account, so customers can get in touch.

# Customize the help center

Your service project comes with an online help center for your customers. From the help center, customers can browse all the service projects they have access to.

It will look something like this:

ATLASSIAN				Customize	Requests 😰 😨
	Welcome to the help	o cente	r		
	What do you need hel	p with?	Q	l	
	Hours of operation Mon-Fri: 09:00 to 17:00 Sat-Sun: 09:00 to 12:30				
	Popular Premier Support Req Charlie Travel Sydney Customer Operations Browse all	Recen	t IT help - Charlie Travel Melbourne Get general tech support, like help with the Wi-Fi or printing. Technical support - Charlie Travel Brisbane Need help installing, configuring, or toubleshooting? Select t Get IT help - Charlie Travel Sydney Get assistance for general IT problems and questions.		

Jira admins, project admins, and agents with permission can brand the help center in a number of ways. Here's how:

- 1. Go to Jira administration > Applications > Jira Service Management > Configuration.
- 2. Below Help center, click the link View and customize.
- 3. In the customize panel on the right hand side, do any the following:
  - Add a help center announcement
  - Add an announcement to the login screen
  - Give your help center a name
  - Add a logo
  - Add a banner image or banner background color
  - Change the color of some components
- 4. Choose Save changes to publish your announcement.

To learn more about the help center check out Using the help center.

### Customize the customer portal

Now that your help center looks inviting, you can customize the customer portal for each of your service desks. Add a name and logo to your customer portal so that people know they're sending requests to the right team. The banner, links, and button colors are all inherited from the help center.

It will look something like this:

ATLASSIAN			Add announcement Requests 30
	Help center Charlie Travel Sydney Welcomel You can raise a Charlie Travel Sydney request from the options provided.		
	What do you need help with?	Q	
	Logins and Accounts		
	Computers (?) Get assistance for general IT problems and questions. Applications O Set up VPN to the office		
	Servers and Infrastructure  Want to access work stuff from outside? Let us know.  Request a new account  Request a new account		
	Request a new account for a system.		

To customize your customer portal:

1. In your service project, go to **Project settings > Portal settings**.

- 2. Edit your customer portal name and intro text by typing in the fields.
- 3. Save any edits by clicking the tick icon in the field you're editing.
- 4. Add a customer portal logo by selecting **Use a custom logo**.
- 5. Select **Save logo**, once you've uploaded your image.

To learn more about the customer portal check out Configuring the customer portal.

### Link an email account

Customers can also create requests and communicate with your team by email. If you haven't already, create an email address that you'd like your team to be contacted on.

To link an email to your service desk project:

- 1. Go to Project settings > Email requests.
- Select Add email address and fill in the details. If you use 2-step-verification for Gmail, generate an a pplication-specific password when adding your email account details.

Enter email acco	unt details								
You can use an exi sent to this addres	-								s. Emails
Email serv	vice provider	M Gmail	👀 Yah	oo Oth	ner				
E	mail address					]			
	Password								
		Accounts with	2-factor au	uthenticati	on requi	re an ap	olication-	specific pas	ssword.

3. Once you've linked an email to your service project, we'll send a test email to your inbox and create a test request in your service project.

To learn more linking an email to your service project, check outReceiving requests by email.

If you use POP, make sure the email account you choose for this channel has an empty inbox so you do not lose any existing emails.

#### Tell customers about your service project

Now that your service project is ready to receive requests, share the project's email address (for example, hel pdesk@example.com) with your customers or give them a direct link to the customer portal.

You can give either, or both, of the following URLs to your customers, depending on your setup:

• URL to a customer portal give this URL to your customers if you've enabled public signup and want them to sign up for accounts on their own.

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• URL to the help center here they will see all the service projects they have access to. The URL is: htt p://<computer\_name\_or\_IP\_address>:<HTTP\_port\_number>/Jira/servicedesk /customer/portals

Here are other ways that some customers promote their service project:

- post a link on the intranet or other communication channels
- email their customers to tell them there's a new way to get help
- put posters up in communal areas around the office.

You've now finished setting up your service project! Continue to learn more advanced tips on tracking your team's progress and supporting your customers.

Next

# Bring your service project to the next level

- 1. Setting up your service project
- 2. Creating service project request
- types 3. Making queues for your service project teams
- 4. Adding service project agents
- 5. Customize your service project channels
- 6. Bring your service project to the next level
- Introduce customers to your service project
- 8. Explore a sample project

Now that you have your basic service project up and running, you can learn about the following advanced features:

- Serve your customers and your team better with SLAs
- Track your team's success with reports
- Solve requests faster with a knowledge base

# Serve your customers and your team better with SLAs

Service-level agreements (SLAs) help you communicate service agreements to your customers and keep track of your team's performance. An SLA consists of a time metric and a corresponding goal or target.

As the administrator, you can configure each SLA metric and goal using the Jira Service ManagementSLA designer. SLA information will appear in the internal issue and your agentscan also view SLA goals by going to **Reports** > **Workload** when they log in to your service desk project.

Let's have a quick look at where you can create a new SLA metric:

- 1. In your service project, select **Project settings > SLAs**.
- 2. Select Create SLAto create a new SLA metric for your service desk project.
- 3. For more information, check outSetting up service level agreements (SLAs).

# Track your team's success with reports

Jira Service Managementlets you display selected SLA metrics and goals in interactive reports. Reports can be used to help you visualize your team's performance so you can identify bottlenecks and optimize your team's workload. Your team of agents can then view the read-only versions of your reports to see how they are tracking towards their goals.

Let's now have a quick look at the **Reports** tab:

- 1. From your service project sidebar, select Reports to view the pre-configured reports in your project.
- 2. Select **+New Report** to create a new report, or simply edit one of the pre-configured reports.
- 3. For more information, check outSetting up service project reports.

#### Solve requests faster with a knowledge base

You can deflect common requests and solve issues faster by linking a Confluence knowledge base to your service project. When you link a knowledge base to your project, customers can search for solutions in the portal and help center before they raise a request:

printer	0
Solutions from the knowledge base	
Printer set up	

A knowledge base helps agents, too. When they work on issues, they can see related knowledge, search for solutions, and create new articles from issues:

Printer
Showing 1 result from your knowledge base
Printer set up 🔒
Learn how to set up a printer from scratch

Customers can use the articles to self-service problems, and agents can use them to solve requests faster. Everybody wins.

To learn more about linking a knowledge base to your service project, seeSet up a knowledge base for selfservice.

You're almost done! We'll now review the ways customers can contact your team and be informed of updates to their requests.

Next

# Introduce customers to your service project

- 1. Setting up your service project
- 2. Creating service project request
- types 3. Making queues for your service project teams
- 4. Adding service project agents
- 5. Customize your service project channels
- 6. Bring your service project to the next level
- Introduce customers to your service project
- 8. Explore a sample project

Now that you have set up your project in a way that serves both your agents and your customers, it's time to show your customers how to start using Jira Service Management.

# Create requests through the customer portal

- 1. Visit the customer portal.
- 2. Pick an option that matches what you need and fill in the details of the request.

ATLASSIAN		Add ann	ouncement Requests 💿 🥳
	Help center Charlie Travel Sydney Welcomet You can raise a Charlie Travel Sydney request from the options provided.		
	What do you need help with?	Q	
	Common Requests Flight Logins and Accounts		
	Computers  Get assistance for general IT problems and questions.  Get IT help Get assistance for general IT problems and questions.		
	Applications Servers and Infrastructure Servers		
	Request a new account Request a new account for a system.		
	Desktop/Laptop support If you are having computer problems, let us know here.		

## Create requests by email

Another way of creating requests is by sending emails to a linked service project. Ask your service team if they are set up to receive email in their service project. If they are, simply email them a request directly and keep the conversation going from your inbox.

#### Create requests in multiple service projects

To send the same request to multiple teams, you have the following options:

- If all of the teams you want to contact have linked their service project to an email account, you can easily create the request by sending one email message to all linked service project email accounts.
- If the teams you want to contact have not all linked their service project to an email account, you will
  need to create the request in each service project one by one, either through their customer portal or
  sending emails.

#### Track and comment on requests

Use the customer portal to see all requests you have created, read comments from agents as they are updated, and check the status of a request. You can add comments and attachments to requests on the customer portal as well.

Another way of tracking requests is through email notifications. You receive email notifications when agents respond to your requests and when the request has been resolved. To add comments to requests, you can simply reply to the email notifications and your reply will be added as a comment to the request.

#### Congrats! You've completed the Getting started for service project admins tutorial.

Want to learn more? Check out the home of Jira Service Managementdocumentation here.

# Explore a sample project

Jira Service Managementcomes with sample data to help you explore and learn how to use key features.

When you create a sample project, it gets populated with issues that new team members can use to learn about concepts like queues, SLAs, and generate reports like the one below without fear of affecting any real work.





If you are a Jira Service Managementadministrator, we suggest you create and explore a sample project to help you and any new team members explore how a service desk project works.

## Create a sample project

You need to be aJira Service Managementadministrator.

- 1. Go to Project>Create project.
- 2. In the Create project screen, click**Create** sample data.
- 3. In the Create project with sample data screen, select **IT Service Desk** and click **Next**
- 4. Enter a name for the sample project. *Tip:* If you are creating the project for a specific user, name the project 'Sample -[name user]'. This will make it easier to find and delete later.
- Create project with sample data

   Image: service besk

   Image: service management out of the box. Incidents, service management demo data to demonstrate the core features of JIRA.

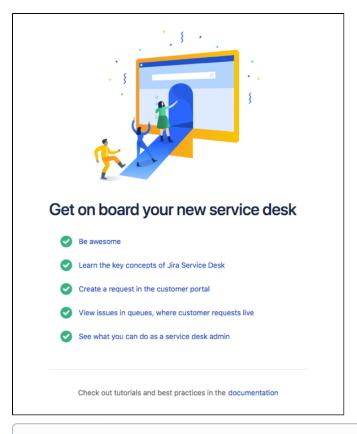
   Image: service management demo data to demonstrate the core features of JIRA.

5. ClickSubmit.

**Sample project access** Depending on how user access is set up in yourJira Service Management version, you may need to give new users access to the project as well.

## Learn about key features

Here are a list of tasks that we highly recommend you have a go at:



# • Explore the customer portal and see what your customers see

- Create a new request and assign it to yourself
- View the queue, edit an issue description, or add a label
- Comment on an issue
- Try out your email channel
- Play with reports

Finished playing with your sample project?

When a sample project has served its purpose, delete it from the project directory. You need to be a Jira Service Management administrator to do this.

# Getting started for service project agents

On this page, we introduce you to your workspace and walk you through the process of responding to your customers' requests.

#### On this page

- Navigate your workspace
- Work on customer issues
- View and create knowledge

## Navigate your workspace

Use the Jira Service Managementsidebar to navigate your workspace:

	Charlie Travel F	Franchis
0	Queues	
	省 Customers	•2
3	Reports	
	• Raise a request	• 4
5	L Knowledge base	
	Customer channels	• 6
•	Invite team	
	Ø Welcome guide	• * 8

- 1. Queues: view issues that customers have submitted to your service desk.
- 2. Customers: view your customers and requests, and invite new customers to the service project.
- 3. Reports: view reports about your team's SLA goals, knowledge base and workload.
- 4. Raise a request: raise a request on behalf of a customer.
- 5. Knowledge base: search your team's knowledge base or create an article.
- 6. Customer channels: view your service project's customer portal and email address.
- 7. Invite team: invite an existing agent to work on your project.

# Work on customer issues

When customers submit requests to your service project, the issues are grouped into queues on the **Queues** page.

Select an issue's **Summary** or **Key** to view more information about an issue, or start working on an issue. The issue view looks like this:

стs-13 The prin	iter is not	working									Return to queue
🖋 Edit	Q Comment	Assign	More 🛩	Respond to customer	In progress	Workflow ~	Admin 🖌			<	🖞 Export 🗸
✓ Details									✓ SLAs		
Type: Compone		Service R	equest	Status: Resolutio	n:	WAITING FOR SUP	(View Workf	low)	-1d 4h 👖	Time to first response within 4h 📾	
Labels:		None							-1d 📕	Time to resolution within 1d	
> Descript	ion								✓ People		
<ul> <li>Attachm</li> </ul>	ents								Assignee:	Onassigned	
			~						Assignee.	Assign to me	
			( <sub>1</sub> )	Drop files to attach, or b	rowse.				Reporter:	💮 Alana Grant	
<ul> <li>Activity</li> </ul>									Request participants:	None	
All C	omments Wo	ork Log Hi	story Act	ivity Transitions					Organizations:	None	
There are	no comments	vet on this is	sue.						Votes:	0 Vote for this issue	
		,							Watchers:	<ol> <li>Start watching this</li> </ol>	sissue
									<ul> <li>Service Desk requ</li> </ul>	uest	
Click	to add commer	nt						le	Request type:	⑦) Get IT help	
									Customer status:	Waiting for support	
									Channel:	Unknown	
									View customer req	uest	

From here, you can work with customers and your team to resolve requests. If your service project is linked to a knowledge base, you can also view, share, and create knowledge from the issue.

#### Comment on an issue

When you select**Respond to customer**, add an attachment, or comment on an issue, you can share your response with the customer, or comment internally.

- If you share with the customer, the customer is notified and can see the comment or attachment when they view the request in the customer portal.
- If you make an internal comment, the customer isn't notified and can't view the comment or attachment on the customer portal. People who are watching the issue are notified, and your team can see the comment when the view the issue in your service project.

#### React to a comment

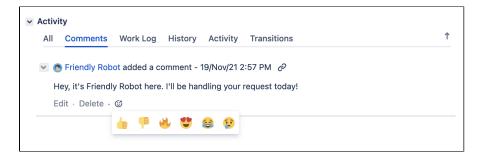
You need a Data Center license to use comment reactions.

#### Add a comment reaction

You can use comment reactions in the issue view instead of replying to a comment.

To add a reaction to a comment:

- 1. Go to your issues comment section.
- 2. Select the add emoji icon 😂.
- 3. Select the relevant reaction.



Enable or disable comment reactions

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Your customers can react to comments with emojis, too. As the customer portal comment reactions are disabled by default, you first need to allow their use.

To enable comment reactions:

- 1. Go to Project settings > Portal settings.
- 2. Go to the **Comment reactions** section.
- 3. Select Allow comment reactions on the customer portal for this project.

You can fully disable comment reactions via the global system settings.

#### Collaborate on an issue

You might want to share the issue with other customers who have a similar problem, or with other people on your team who can help you resolve the issue. Here are some ways you can involve other people in the issue:

- Select**Share** to email a link to the issue to other people on your team.
- Use @mentions (@username) to mention a team member in a comment.
- Add watchers to involve other users from your Jira site. Someone leaves an internal comment or transitions an issue.
- Add request participants to share the issue with other customers or organizations. Request participants receive the same notifications as the reporter.

#### View and create knowledge

If your service project has a linked knowledge base, you can use knowledge articles to solve issues faster:



For example, if you get a lot of requests about printing problems, you can write a step-by-step article that helps customers troubleshoot the problem themselves:

- When customers search for help from the customer portal, they can use articles to solve problems instead of raising requests.
- When you work on an issue, you can share the article with customers so they can try to troubleshoot on their own.

You can also write internal articles and reference them while you work on an issue. Articles that the reporter can't view are marked with a red padlock.

When you create a new article from an issue, you can choose a handy *how-to* or *troubleshooting* template to guide you. The issue summary and description become the article's title and body text.

Nice work! Want to learn more? Proceed toWorking on service projects to learn more about what a service project agent can do.

# Administering service projects

Welcome to the source of truth for Jira Service Management administrator knowledge and power.

This section is for Jira Service Management project administrators. You're in the right place if you're the one who adds agents and sets up your service project. If you're new to Jira Service Management, check outour g etting started guides.

## Get started

Here are some pages to get you started:

- Managing access to your service project
- Configuring the customer portal
- Receiving requests by email
- Setting up service project users
- Setting up queues for your team
- Automating your service project
- Managing service project notifications
- Setting up request types
- Setting up SLAs
- Setting up approvals
- Setting up service project reports
- Default service project configuration
- Using Jira applications with Confluence

# Managing access to your service project

Go to**Project settings>Customer permissions**to c hoose who can raise requests in your service desk and who your customers can share requests with.

### On this page:

- Choose who can raise requests
- Choose who customers can share requests with
- Choose whether customers can vote for requests
- Which settings are best for my team?
- Security advice: Choosing who can raise requests

### Choose who can raise requests

People need to be customers to raise requests in your service desk. You can let your team control who becomes a customer, or let customers create their own accounts in your service desk.

Who can raise requests	Description			
Customers who are added to the project	Your team adds customers to the project via the <b>Customers</b> page, or by raising requests on their behalf.			
Customers who have an account on this Jira site	People with accounts on your Jira site are automatically added to the <b>Customers</b> list and can raise requests.			
on this Jira site Anyone can email the service project or raise a request in the portal	<ul> <li>New customers can create their own accounts in your service desk via the customer portal.</li> <li>Raising an email request automatically creates an account for the sender.</li> <li>If you allow customers to share requests, then people they share with also become customers and can raise requests.</li> <li>A honeypot technique is enabled to help prevent spambots from creating accounts through the customer portal.</li> <li>If login-free portal has been enabled by your Jira administrator, and this option is selected, anyone will be able to access your portal and raise requests without logging in. Learn more about login-free portal</li> <li>If this option is disabled, then your Jira administrator has not turned on public signup for service desks on this Jira site. Learn more about enabling public signup</li> </ul>			
	account and raise requests. We strongly recommend that you use the <i>Custo</i> mers who have an account on this Jira site option instead, unless the requirement for a Jira account work for your use case. Read more in our security advice			

## Choose who customers can share requests with

You can allow customers to share requests with their organizations, anyone in the service desk, or people who aren't customers yet. The people customers share with become participants in the request. Request participants can comment on and share requests, and receive the same notifications from Jira Service Desk as the reporter.Learn more about request participants

The following table describes the ways customers can share requests:

Who customers can share with	Description					
Other customers in their organization	<ul> <li>Customers can share requests with their organization, or raise a private request.</li> <li>Customers can search their organization for people to share with:</li> <li>Share</li> <li>Share</li> <li>Type name, email address, or organization</li> <li>Alana Grant</li> <li>Share</li> <li>Cancel</li> <li>Cancel</li> <li>Customers who aren't in an organization can't share requests.</li> </ul>					
Any customer, by typing an email address	<ul> <li>Customers can share requests with other customers in their organization (like in the option above), and also:</li> <li>Share requests with anyone in the service project, if they know their email address</li> <li>If anyone can email the service project or raise a request in the portal, then customers can also share requests with people who arent customers yet. They can provide email addresses of these people and Jira will create accounts for them. Such unregistered email addresses can only be entered in the Share this requestfield but not a regular user picker field.</li> </ul>					
Any customer or organization, by searching in this project	<ul> <li>Customers can share their requests with anyone in the project. They can also search the service project for people to share with.</li> <li>If anyone can email the service project or raise a request in the portal, then customers can also share requests with people who arent customers yet. They can provide email addresses of these people and Jira will create accounts for them. Such unregistered email addresses can only be entered in the Share this requestfield but not a regular user picker field.</li> <li>If your service project uses user picker custom fields, such as the Approvers field above this petition are guite accounts.</li> </ul>					
by searching in	<ul> <li>If anyone can email the service project or raise a request in the portal, then can also share requests with people who arent customers yet. They can pro addresses of these people and Jira will create accounts for them. Such unr email addresses can only be entered in the Share this requestfield but not user picker field.</li> </ul>					

### Choose whether customers can vote for requests

You can allow customers to vote for requests directly in the customer portal. This lets them cast their votes for requests they'd like to see done without having user accounts on your Jira instance.

(i) To enable voting in the portal, you need to have global voting enabled for your Jira instance.

3

The following table describes different options for this setting:

Can customers vote in the portal?	Description
Yes, any customer with portal access can vote directly in the portal	Customers will see an extra option to vote when they view a request in the portal. They can the (*)>Help Center We need better coffee! (*) Comment on this request Activity Your request status changed to Resolved with r (*) Agent Just now Done!
No, customers can't vote directly in the portal	If the global voting is enabled, users with accounts on your Jira instance will still be able to vote your agents.

## Which settings are best for my team?

Not sure how to set up permissions for your team? Here are some suggestions for how to make customer permissions work for you:

If you're like this	Who can raise requests	Who customers can share with	Can customers vote?
You have a service project that handles contractors' leave requests. Only contractors can use the service project, and you don't want non-contractors to get confused about where to request leave.	Customers who are added to the project	Other customers in their organization	No, as contractors probably don't need to vote for their leave requests.
Your company has an IT service desk, and you want all employees to be able to create their own accounts and email requests.	Customers who have an account on this Jira site	Any customer or organization, by searching in this project	No, if your team is mostly handling requests for individual employees, such as "I need a new monitor". Yes, if your team is handling requests for general improvements. For example, employees could vote for what they'd like to be added to their office.
Your team provides software support for individuals. For example, if your company makes a free SAAS application that individuals use to manage finances, you can let your customers email bugs and questions to your service project email channel.	Anyone can email the service project or raise a request in the portal	Any customer, by typing an email address	Yes, it might be useful for individuals to vote for bugs or requests they'd like to see fixed first.

Security advice: Choosing who can raise requests

This is security advice regarding the option Who can raise requests.

When allowing**anyone to create and raise requests**, we strongly recommend that you use a separate domain for your incoming email account and configure this account to filter against automatic emails by blocking the addresses with a local-part, such as no-reply, support, servicedesk, and so on.

#### Reason

Configuring your Jira Service Management instance using an incoming email address with a domain at your company level can result in bad actors abusing the system to gain access to restricted services.

### Example

For example, assume that your domain ishttp://mycompany.com, and you have set up a customer portal with an incoming emailsupport@mycompany.com, allowing anyone to create and raise requests. Now, lets say a bad actor is trying to gain access toteamsinspace.comfor which your company already has an account (e.g.admin@mycompany.com).

If the bad actor creates a new ticket in your customer portal and addsno-reply@teamsinspace.comas a participant, they can now go toteamsinspace.comand open an account forsupport@mycompany.comand provide a team name including the ticket number. Sinceteamsinspace.comincludes the team name in their confirmation emails (and other websites might include other details), such an email will be sent to your incoming email address in Jira Service Management, and added as a comment to the ticket. By clicking on the confirmation email, the bad actor could open an account onteamsinspace.comon behalf of your company.

### Mitigating this issue

Using a separate domain or sub-domain dedicated for your customer portal will help prevent this as long as you make sure to not sign up to services using that domain. Whats more, adding filters against automatic emails (e.g. no-reply) at the incoming email account level will further help mitigate the issue because no-reply emails will be blocked.

# Configuring the customer portal

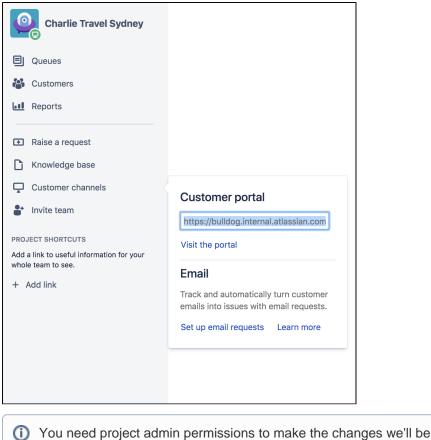
Every service project comes with an online portal that your customers use to interact with your service team.

If you link your project to a Confluence knowledge base space, customers can troubleshoot by searching for relevant articles.

To access your customer portal, select**Customer channels**in the project sidebar, then the link **Visit the portal**.

#### On this page:

- Brand your
   customer portal
- Set up request types
- Add transitions
- Manage access to your portal
- Choose whether you need search
- Enable comment reactions
- View all customer portals in your help center
  - Share the help center



recommending on this page.

### Brand your customer portal

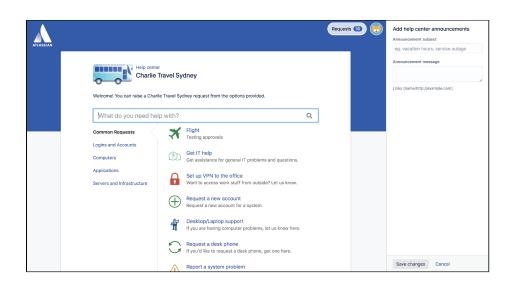
As a project admin, you can change the following components on the customer portal:

- name
- welcome message
- logo
- announcement.

The banner, links, and button colors are all inherited from the help center. Learn more at Using the help center.

To brand the customer portal:

- Go to Project settings > Portal settings and change the messaging and logo. Your logo will appear in notifications sent by your service project.
- Select the link View and change under the Announcement heading, to add important information (for example, working hours).



### Set up request types

You can customize the types of requests that customers raise from the portal. To create and manage request types, visit **Project settings** > **Request types**.

Request types	Common Requests					Add existing request type
GROUPS	Icon	Request name	Issue type	Description (Optional)	Actions	
Logins and Accounts Computers	-		T 💌	Į	Create requ	uest type
Applications     Servers and Infrastruc	?)	Get IT help	Service Request	Get assistance for general IT problems and questions.	Edit fields	Edit groups 2 ×
<ul> <li>Hidden from portal</li> <li>Add group</li> </ul>		Report a system problem	! Incident	Having trouble with a system?	Edit fields	Edit groups 3 ×

Jira Service Management includes several request types that address common IT help scenarios. The request types are organized into groups to help customers find what they need. For example, you can add a 'Common requests' group to help customers address issues like IT support.

To learn more about customizing request types, check out Setting up request types.

### Add transitions

You can show transitions on the customer portal so that customers can change the status of their request.

For example, say an agent shares a knowledge base article with a customer and the article solves their problem. The customer can mark their request as resolved, directly from the customer portal.

To add a transition to the portal:

- 1. In your service project, go to Project settings > Workflows.
- 2. Select the pencil icon select the workflow that has the transition you want to add to the portal.
- 3. SelectDiagram to open the diagram view.
- 4. Select the transition in the workflow, and check the box beside **Show transition on the customer portal**.

3



Customer transitions behave slightly differently than other workflow transitions:

- Screens don't display on the customer portal. When you add a transition to the portal, you can set a resolution for requests that customers transition.
- When an issue is transitioned from the portal, it bypasses any validators that are defined for the transition.

To learn more about workflows and transitions check out Advanced workflow configuration.

If it seems like the portal transition isn't working, check if there's an automation rule in conflict with the transition. To learn more about automation rules, check out Automating your service project.

#### Manage access to your portal

You can allow anyone to sign up for an account to your portal, or only allow customers youve added.

If a Jira administrator has configured the login-free portal setting across your Jira Service Management instance, this may mean anyone can access your portal and raise requests without logging in. To learn more about different access options, check outManaging access to your service project.

The customer portal integrates with Atlassian Crowd, Atlassian's single sign-on (SSO) framework. For information about integrating with third-party SSO providers check out Single sign-on integration with Jira and Confluence.

#### Choose whether you need search

If you dont have a Confluence knowledge base linked to your project, it might be a good idea to disable the search bar on your customer portal, just to not confuse your customers. This option is often used when you want to give your portals more simplicity and space.

To disable the portal search:

- 1. Open your project.
- 2. Go to Project settings > Portal settings.
- 3. In the Search section, disable the search bar.

#### Good to know

• Well only disable search for your specific portal, but well keep it on the help center.

You need a Data Center license to use the search bar.

### Enable comment reactions

Your customers can react to comments with emojis. As the customer portal comment reactions are disabled by default, you first need to allow their use.

To enable comment reactions:

- 1. Go to Project settings > Portal settings.
- 2. Go to the Comment reactions section.
- 3. Select Allow comment reactions on the customer portal for this project.

#### View all customer portals in your help center

The help center shows all of the customer portals in your Jira Service Management instance. From here, customers can raise requests in any of the portals they have access to. They can also view all the requests they've raised, via the **Request** button in the top-right corner of the screen.

#### Check out View requests in the help center to learn how this works.

ATLASSIAN						Requests 60
	Hours of operation Mon-Fri: 09:00 to 17:00 Sat-Sun: 09:00 to 12:30					
	Help center Requests Any status	✓ Created by me ✓	Any request type	✓ Bearch for requests	٩	)
	Type Reference	Summary	Service desk	Status	Requester	
	(?)) CTM-1	Printer not working	Charlie Travel Melbourne	PENDING TRIAGE	Karen Bywater	
	🗲 СТВ-1	Laptop needs replacing	Charlie Travel Brisbane	PENDING TRIAGE	Karen Bywater	
		New employee set up	Charlie Travel Sydney	PENDING TRIAGE	Karen Bywater	
	?) CTS-50	Order a keyboard	Charlie Travel Sydney	PENDING TRIAGE	Karen Bywater	
	🛪 стѕ-49	Flights for conference	Charlie Travel Sydney	WAITING FOR APPROVAL	Karen Bywater	

#### Share the help center

To share the help center with your customers, send them the following link:

http://<computer\_name\_or\_IP\_address>:<http\_port\_number>/jira/servicedesk
/customer/portals

If you add a customer to a service project, they'll have an account in the help center.

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# **Receiving requests by email**

If your customers prefer to raise requests from the comfort of their email inbox, you can set up an email address to receive requests in your service project. Every channel you create can be used to receive different request types. Emailed requests are added to your queues so your team can focus on customers without worrying about missing requests or handling multiple inboxes.

You need a Data Center license to create multiple email channels for a service project.

### Before you begin:

- Make sure you're a Jira administrator and read Managing the email channel to learn more about global mail settings.
- Enable public signup, or add customers to your service project to ensure that you receive new requests.
- Set up a suitable request type with **Summary** and **Description** as required, visible fields. Any other fields must be optional.
- Learn which emails from your mail client will be processed.
- If you want to set a Google or Microsoft email address for your project, you need to first create an OAuth 2.0 integration. This is necessary as Google and Microsoft disabled basic authentication (user and password). For more info, see Configure an outgoing link.
- If you want to set a Microsoft GCC email address for your project, you need to select the Other email service provider type.

If you encounter any issues during the email setup process, check out some common errors and resolutions.

Customer requests and comments are processed differently than Jira mail. Issues created via Jira email handlers don't show up as service project customer requests. For this reason, we don't recommend using a Jira mail handler for service projects. Read Cre ating issues and comments from email for more information.

# How your customers send requests by email

How receiving requests by email works:

- 1. A customer emails a request to an email address assigned to your service project. The request becomes an issue in your service project and is added to a queue based on the request type.
- 2. An agent comments on the issue.
- 3. The customer receives an email notification that contains the agent's comment.
- 4. The customer replies to the email notification and the reply is added as a comment on the issue in the service project.

# Add an email channel

In Jira Service Management Server, you can add one linked email account to each service desk project.

## Before you begin:

With Google and Microsoft deprecating basic authentication, you need to configure an OAuth 2.0 integration if you're using one of these email providers. The outgoing OAuth 2.0 link can be configured once by a Jira system admin, and then selected as an authentication method in your projects. For more info, see Configure an outgoing link.

On this page:

- How your customers send requests by email
- Add an email channel
- Verify your linked email channel
- Set up permissions so customers can send email requests
- How different types of emails are processed

To add a new email:

- 1. From your service project, select **Project settings** > **Email requests**.
- 2. Select Add an email address.
- 3. If you're using Google or Microsoft as email providers, set the authentication method to the OAuth 2.0 integration configured in your Jira instance. You should see available OAuth 2.0 integrations in the dropdown list.

When adding an email channel, you need to be able to authenticate to the email service provider used in your OAuth 2.0 integration.

- 4. Select a suitable request type for this channel.
- 5. Select **Save**. You'll be redirected to your email account.
- 6. Once authorized, you will see a success message about the channel being enabled. Your customers should now be able to create their requests via email.
- (i) Good to know
  - If your Gmail or Yahoo! account uses two-step verification, you'll need to set up anapplicationspecific password.
  - If you use more than one email address to interact with your customers, you might be able to set up forwarding rules or aliases to receive requests in the email linked to your service desk project. You will need to configure any forwarding rules or aliases in your email clients.

### Verify your linked email channel

Once you've created a new email channel for a suitable request type, Jira Service Management sends a test email and creates a corresponding test request.

To verify your email:

- 1. From your service project, go to Queues.
- 2. Verify that your linked email channel works by finding the test request.

New messages sent to your linked email channel appear as service requests in your project.

#### Set up permissions so customers can send email requests

Before you share an email address with your customers, check your customer permissions.

- If anyone can email your service project, then your email address is ready to be shared. People who email your service project automatically become customers.
- If customers have to be manually added to your project, make sure your team creates new customer accounts for them. Otherwise, the customers' requests won't be processed.

Surther reading

Check out Managing the email channel to learn how to:

- Control what happens to email addresses that are added to the To or CC field of an email associated with a service request
- Select whether to allow emails from addresses that aren't registered as customers of your service project to be added as comments to the associated request

### How different types of emails are processed

Jira Service Management processes different emails differently. See the option that applies to you:

#### **Emails using POP**

Jira Service Management looks for messages in your inbox that:

- have the Deleted flag set to false
- · were received after your email account and service project were linked

To link your email account using POP with a service project, make sure that your email inbox is empty by moving the existing messages to another folder, archiving, or deleting them. Starting with an empty inbox ensures that you do not lose emails unintentionally, as POP emails are deleted after they are processed by Jira Service Management.

#### **Emails using IMAP**

Jira Service Management looks for messages in your inbox that:

- have the Deleted and Seen flags set to false
- were received after your email account and service desk project were linked

If you use IMAP, emails are marked as read (not deleted) after they are processed by Jira Service Management. If you want existing messages to be pulled in by Jira Service Management, you can move them back to your inbox and mark them as unread after the connection has been established.

# Managing the email channel

After you set up your email channel, you can change how emails are parsed, if customers are created directly from emails, or view logs and check the email connection for any email channel on the site.

#### On this page:

- Manage the email channel for multiple service desk projects
- Manage global mail settings
- How to configure a mail server and mail handler

# Manage the email channel for multiple service desk projects

You must be a Jira administrator to manage the email channel.

To manage the email channel:

- 1. Choose **Jira administration** > **Applications**.
- 2. Under Jira Service Management, select Email requests.
- 3. Choose one of the following:
  - Strip quotes: choose whether emailed comments contain the entire email thread, or just the most recent reply.
  - HTML email parsing: choose whether HTML emails display in wiki markup or plain text.
  - Public email comments: choose whether replies are added as comments to existing requests.
  - Customer account creation: choose whether new customers are created from the address list of email messages.
  - View status and logs: view the status of each email channel on your service project's site, logs, or delete a channel. Information older than 6 months is deleted daily.

# Manage global mail settings

There are two global mail settings**email puller** and **email processor**that are used by Jira Service Management only. They dont impact any other email settings you have set up for Jira.

To manage global mail settings:

- 1. Choose Jira administration > System.
- 2. Under Mail, select Global mail settings.
- 3. Choose one of the following:
  - **Email puller**: connects to your mail servers every minute and pulls the email data into the database. Emails with attachments larger than 25MB are not be pulled.
  - Email processor: filters the emails (for example, to remove auto-replies and spam) using information stored in the database.

## How to configure a mail server and mail handler

To learn how to configure Jira Service Management to receive and process emails, check out Creating issues and comments from email.

You must be a Jira administrator to do this.

# Troubleshooting issues with the email channel

There are common errors when setting up an email channel for your service project. If you are not receiving requests or if you are getting errors, check the email connection. You might also review how emails are processed to see why a certain type of email isn't making it to your service project.

## Check you email connection

To troubleshoot email channel issues, the first thing to do is to check the connection between Jira Service Management and your email account. You will see error messages that show you why the email channel doesn't work for your service project.

To check your connection:

- 1. Choose Jira administration > Applications.
- 2. Under Jira Service Management, select Email requests.
- 3. Select **Test**.

### Check how you process email requests

Global mail settings control how your site processes requests that your customers send to your service project's email addresses. We process emails in three stages:

- **Email puller**: fetches unread emails from the service project's associated inbox every minute, and copies them to the email database. Emails with attachments larger than 25MB are not fetched.
- Email processor: filters pulled emails to remove things like auto-replies and spam.
- **Database cleaner**: deletes old emails from the database that are older than 45 days. You can change the purge to a range of intervals from 14 days to 180 days.

You can temporarily adjust these settings to troubleshoot your email channel.

To change global mail settings:

- 1. Choose Jira administration > System.
- 2. Go to Mail > Global mail settings.

### Common email channel errors

This section describes the common errors and provides information about how to resolve them.

### Setting up the email channel

#### Message:

This authentication method is deprecated, you should use OAuth 2.0 instead.

#### **Resolution:**

You're trying to use an email account from Google or Microsoft with the basic authentication credentialsuser and password. Since basic authentication is being deprecated by Google and Microsoft, you need to switch to the OAuth 2.0 authentication method. OAuth 2.0 can be configured by your Jira system admin for the whole Jira instance and then used in your projects. Once it's configured, you can choose it as a method from the drop-down list instead of providing the credentials. For more info on how to configure OAuth 2.0, see OAu th 2.0 integration.

#### Message:

The email address you entered is currently used by another project's email channel. Please choose another email address. Check out our troubleshooting docs for help resolving the issue.

#### **Resolution:**

Make sure each of your service projects has a unique email account. An email account can't connect with multiple service projects.

You can also receive this message if you're trying to use multiple email aliases that point to the same email account for multiple service project email channels.

#### Requests aren't created or notifications received

#### **Description:**

Customers are emailing requests that aren't arriving in your queues. They also aren't receiving notifications.

#### **Resolution:**

- 1. Use the instructions above to check the email connection.
- 2. Verify that the customer has permission to email the service desk.
- 3. Verify that the default request type for the email channel has visible Summary and Description fields.
- 4. Verify that the Email puller is on in Global mail settings.

#### No suitable request type for the email channel

#### Message:

#### No suitable request type for the email channel

You will select the default request type assigned to requests created from the email channel during the setup. However no existing request types are suitable for email requests. A suitable request type must have both the Summary and Description fields as visible fields, and all the other visible fields, if any, must be optional. If you want to enable the email channel, add a new request type that meets the criteria or modify an existing one on the Request types page.

#### **Resolution:**

- 1. In your service project, select **Project Settings** > **Request types**.
- 2. Add a new request type or choose an existing one.
- 3. Select Edit fields.
- 4. Make sure both the **Summary** and **Description** fields are added and marked as **Visible**. Add an Attachment field and mark it as not Required.
- 5. Select Save, then head back to Project settings > Email requests.

#### Archived messages are creating requests

#### Description:

When Jira Service Management checks your email accounts for new messages, it polls the inbox folder. Gmail uses labels to classify messages into categories and only has the following folders:

- Inbox
- Sent Mail
- Bin (or Trash)

This means that the archived messages are treated like they're in the inbox folder. With POP3, Jira Service Management is not able to identify archived messages by labels and therefore still brings them in as requests.

#### **Resolution:**

Use IMAP instead.

#### Setting up a Gmail account

#### Message:

Unfortunately Jira couldn't connect to the mail server. Here is what the mail server said: "[ALERT] Please log in via your web browser: http://support.google. com/mail/accounts/bin/answer.py?answer=78754 (Failure)

#### **Resolution:**

Create an application-specific password for Jira Service Management in your Gmail account settings.

#### Setting up a Yahoo! account

#### Message:

```
Unfortunately Jira couldn't connect to the mail server. Here is what the mail server said: "[AUTHENTICATIONFAILED] (#MBR1240) Please verify your account by going to https://login.yahoo.com"
```

#### **Resolution:**

Create an application-specific password for Jira Service Management in your Yahoo! account settings.

### Microsoft Outlook locks account for security

#### Message:

Unfortunately Jira Service Management couldn't connect to the mail server. Here is what the mail server said: "STAT command failed: Exceeded the login limit for a 15 minute period. Reduce the frequency of requests to the POP3 server.

#### **Resolution:**

Jira Service Management checks email accounts every minute. Microsoft Outlook might suspect inappropriate usage of this account and lock it for security reasons. To resolve this, use IMAP instead.

#### Jira doesn't trust the SSL certificate on the the mail server

#### Message:

Unfortunately JIRA couldn't connect to the mail server. Here is what the mail server said: "unable to find valid certification path to requested target" Check out our troubleshooting docs for help resolving the issue.

#### **Resolution:**

Make sure that the SSL certificate chain from the mail server is imported into Jira's Java trust store. Follow the steps on https://confluence.atlassian.com/kb/unable-to-connect-to-ssl-services-due-to-pkix-path-building-failed-779355358.html.

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## Setting up service project users

When you set up your service project, you add users to the project so that your team can start receiving and resolving requests. Your service project has the following users:

- Project administrators set up the service project and users.
- Agents work on customer requests and add customers to the project.
- Customers send requests to your service project.
- **Organizations** are groups of customers that are shared across projects.

By default, you need different permissions to manage different types of users in the project:

- Jira administrators can manage users and licenses across multiple projects.
- **Project administrators** can add agents from other projects. They can also manage customers and organizations.
- Agents can manage customers and organizations.

#### On this page:

- Add agents to a project
- View roles of team members
- Remove agents from a project
- Unlicense agents
- What is a customer?
- Add a customer
  Remove customers
- from a projectWhat is an organization?
- Add organizations
- Add customers to an organization
- Remove customers from an organization
- Remove an organization from a project
- Delete an organization from a site
- Involve Jira Software or Jira Core users
- Example of collaboration between Jira Service Management and Jira Software
- Learn more about managing users

## Add agents to a project

By default, project administrators can add agents from other projects to the project. Jira administrators can add anyone to the project.

To add agents:

- 1. From your service project, click **Add team** in the sidebar.
- 2. The agents are emailed a link to the service project and are added to the **Service Desk Team** project role.

## View roles of team members

You must be a project administrator to view the roles of team members.

To view the roles of each team member:

- 1. From your service project, select **Project settings** > **Users and roles**.
- 2. Select the Roles dropdown, or search for the team member directly.

When a Jira administrator adds a new agent to the project, the agent is also assigned a Jira Service Management license and added to the **service-desk-users** license group.

To view what license or group a user belongs to:

- 1. Go to Jira administration > User management.
- 2. Search for and select a user to view their profile.

If your agents need to collaborate with Jira Core or Jira Software users to resolve an issue, you can grant the Jira users limited access to your service project. Learn more at Involve Jira Software and Jira Core users.

#### Remove agents from a project

You must be a project administrator to remove an agent from a project.

To remove an agent from a project:

- 1. From your service project, select Project settings > Users and roles.
- Hover over the user or group you'd like to remove from the Service Desk Team project role, then click the trash can icon to the right.

#### Unlicense agents

Jira administrators can remove an agent's license.

To unlicense an agent:

- 1. Go to Jira administration > User management.
- 2. Select the user.
- 3. Under the Actions column, choose Edit user groups, then remove them from the Jira-service-deskusers group.

#### What is a customer?

Customers are people who can send requests to your service project via the portal or email. How people become customers depends on your project's customer permissions. To see your customers, go to **Custome rs** from your service project.

Customers are automatically added to the list if your project is open to users with Jira accounts, or allows customers to create their own accounts. Customers who do not have Jira accounts are added to the **Service Desk Customers** project role in **Project settings** > **Users and roles**. Customers are also granted restricted access to the Customer portal only (not Jira).

For more information about how people become customers, see Managing access to your service project.

#### Add a customer

Both agents and project administrators can add customers to projects.

To add customers:

- 1. From your serviceproject, go to **Customers**.
- 2. Click Add customers to add customers to your projects.

## Remove customers from a project

You must be a project administrator to remove customers from a project.

To remove a customer from a project:

- 1. From your service project, select **Project settings** > **Users and roles**.
- Hover over the customer you would like to remove from the Service Desk Customers project role, then click the trash can icon to the right.

If the customers have Jira accounts or created their own accounts, then a Jira administrator needs to deactivate them.

To deactivate a user:

- 1. Go to Jira administration > User management.
- 2. Search for and select the user you want to deactivate.
- 3. Under the Actions column, select Edit.
- 4. Uncheck the box beside **Active** to deactivate the user.

#### What is an organization?

Organizations are groups of customers that can be used in multiple projects. When you add an organization to a project, its members can raise requests in the project and share them with the organization. They're also notified about the organization's requests and can view and search them on the **My Requests** page in the portal. Learn more about how customers share requests with organizations.

By default, you need the **Service Desk Team** role for a project to manage organizations in it. However, a Jira admin can restrict organization management to Jira admins by turning off the Organization management setting:

- 1. Go to Jira administration > Applications.
- 2. Under Jira Service Management, select Configuration.
- 3. Look for the **Organization management** heading.
- 4. Organizations are managed from a project's Customers list.

#### Add organizations

Organizations are groups of customers that can be used in multiple projects.

You must be a project administrator to add organizations to the project.

To add an organization:

- 1. From your service project, go to Customers.
- 2. Select Add organizations.
- 3. Add a new organization, or add an existing organization.

The organizations that you add display on the **Customers** list.

#### Add customers to an organization

Rather than add customers individually, you can group customers into organizationswhich can be part of multiple projects. Customers can then raise requests in all serviceprojects they have access to.

You must be a project administrator to add customers to an organization.

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To add customers to an organization:

- 1. From your service project, go to Customers.
- 2. Select the organization you want to add customers to.
- 3. Click Add customer.

If the customers are new to the Jira site they are given restricted access to the Customer portal only (not Jira). Also, customers are not added to the **Service Desk Customers** project role, because the organization can be used in multiple projects. However, they can still raise requests in all projects that use the organization.

#### Remove customers from an organization

Customers removed from organizations lose access to projects that use the organization, unless they have access through another organization, have the **Service Desk Customers** project role, or the project allows anyone to raise a request without logging in.

You must be a project administrator to remove customers from an organization.

To remove customers from an organization:

- 1. From your serviceproject, go to Customers.
- 2. Select an organization in the Customers list.
- 3. Find the customer you want to remove, and then click X to the right.

### Remove an organization from a project

When you remove an organization from a project, its members lose access to the project unless they have the **Service Desk Customers** project role, have access through another organization, or the project allows anyone to raise a request without logging in.

You must be a project administrator to remove an organization from a project.

To remove organizations from a project:

- 1. From your service project, go to **Customers**.
- 2. Select an organization in the Customers list.
- 3. Click Remove from project.

#### Delete an organization from a site

Deleting an organization does not delete the customers who are in it. The customers still exist on the Jira site and have access to any projects for which they have the **Service Desk Customers** role or access via another organization.

You must be a Jira admin to delete an organization from a Jira site.

To delete an organization from a site:

- 1. From your service project, go to Customers.
- 2. Select an organization in the Customers list.
- 3. Select Remove from project > Delete organization.

Involve Jira Software or Jira Core users

You can give users with Jira Software or Jira Core licenses permission to view and comment on service project issues without a Jira Service Management license, **only if Jira Core, Jira Software, and Jira Service Management are licensed on the same Jira instance**.

To involve Jira application users:

- 1. From your service project, select **Project settings** > **Users and roles**.
- 2. Add users to the Service Desk Team role.

These users can:

- View issues, comments, and attachments
- · Add and delete their own attachments and internal comments
- Watch and vote for issues

#### These users can't:

- Leave comments for customers
- View queues, the customer list, or reports
- Transition service project issues
- Log work on a service project issue
- Be assigned to a service project issue

Learn more about collaborating with Jira Software or Jira Core users.

Example of collaboration between Jira Service Management and Jira Software

- 1. Martin, an IT service desk team agent, links an incident ticket in a serviceproject to an underlying network problem ticket in a Jira Software project.
- 2. Andrew, a Jira Software developer on the network operations team, assigns this network issue to himself and starts working on it.
- 3. After fixing the problem, Andrew opens the linked serviceincident ticket and leaves an internal comment asking Martin to try the network connection again.
- 4. After receiving the internal comment, Martin verifies the network connection and tells the customer that the problem is resolved.

## Learn more about managing users

Check out the following documentation to learn more about managing users and permissions:

Documentation	Details
User management	Add and remove users, manage users with groups, and manage access to Jira applications.
Managing project roles	Add and remove project roles and manage project role membership.
Enabling public signup	Allow customers to create their own accounts by signing up on the customer portal or emailing the email channel
Configuring permissions	Learn how global permissions affect licensing, how project permissions are associated with a project role, and how to customize the default service desk project permission scheme.
Customizing Jira Service Management permissions	For advanced admins, find out more about service project users' required permissions.

Resolving Jira Service	Troubleshoot permission errors.
Management	
permission errors	

## Managing project role memberships

You can use project roles to easily associate users and groups with a particular project. For example, you may want to send notifications to a specific set of users associated with your project, and by adding them all to a project role, you can then use that project role to control who receives the notifications.

You can also use project roles to restrict how much access certain users or groups have.Unlike groups, which have the same membership throughout your application, project roles have specific members for each project.

This page contains instructions for managing membership of *existing project roles*. For information on creating and using project roles, seeManaging project roles.

## Viewing and editing project role members

- 1. Log inas aproject administrator and open your project.
- 2. Select Project settings
- 3. You'll see all users and groups associated with each project role.
- 4. To add users or groups to a project role, select **Add users to a role** in the top right corner. Enter the users or groups and select the project role you wish to add them to.
- 5. To remove a user or group from a project role, hover over the user or group row, and select **Delete** (

Since group membership can only be edited by users with the Jira Administratorglobal permission, project administrators may therefore prefer to assign users, rather than groups, to their project roles.

## Setting up queues for your team

Make sure that your team is working on the right requests at the right time with easily configurable service project queues. A queue is a filtered set of issues that are displayed to your team.Use your project's defaultqueues or create custom queues to save time triaging requests, and to give your agents more visibility of the number and type of incoming customer requests they need to work on.

You need to be an administrator for your project to set up queues.

On this page:

- Creating new queues
- Managing queues
- How your team uses queues

You can set up queues on the aptly namedQueues () tab in your service project:

Charlie Travel Franchis			All open						(j	Edit queue
	QUEUES	2	Time to resolution	т	Key	Status	Summary	Created	Р	Reporter
Queues	Unassigned issues	2	-3d 🕓		CTF-1	WAITING FOR SUPPO	What am I looking at?	26/Apr/18	0	Karen
😂 Customers	Assigned to me	0		_						Bywater
Lel Reports	∥ 🛏 Waiting on me	0	1h 19m 🕓		CTF-2	WAITING FOR APPRO	3 day trip to Brisbane	02/May/18	¥	Alana Grant
	Incidents	0	1-2 of 2							
Raise a request	$_{  } \hookrightarrow \operatorname{Reported}$ in the I	0								
C Knowledge base	∥ └→ Critical	0								
Customer channels	Service requests	1								
Invite team	∥ → Due in 24h	0								
Ø Welcome guide	Change	0								
O Welcome guide	$\parallel \rightarrow$ Ready for imple	0								
PROJECT SHORTCUTS	$\parallel \rightarrow$ Emergency chan	0								
Add a link to useful information for your whole team to see.	Problem	0								
+ Add link	+ Add link □ Gompleted last 3 0									
	Recently resolved	0								
	+ New queue									

## Creating new queues

When creating a new queue, you can select the queue name, the issues that will be filtered into this queue, and the columns that appear in the queue to make life easier for your service team. Here's how you create a new queue:

- 1. From your service project sidebar, selectQueues > New queue.
- 2. Name your queue using language your team will understand (for example, "Due this week").

3. Select which issues will show up in this queue using the dropdown options in the Basic search view:

New queue	
Name	
Due this week	
Issues to show	
More → Type: All → Waiting for sup → Resolution	on: All 🗸 Label: All 🗸
Now overdue	
O More than minutes ᅌ overdue	Date ×
• Due in next 1 weeks ᅌ or is ᅌ overdue	
Between 11-Jan-2012 iii and 30-Jan-2012 iii	
○ In range -3w 4d to 3w 4d 1	
Update Close	

You can also select the advanced search view to enter a Jira Query Language (JQL) statement.

- 4. Add or remove columns to control what issue information, such as the issue key and issue creation date, is displayed in your queue.
- 5. Select **Create**. If you have existing issues in your project that fit the criteria selected in "Issues to show", these issues will now appear in your new queue.

## Managing queues

You can reorder or delete queues at any time by hovering over the Queues sidebar and selecting **Manage**. In the Manage queues dialog that appears, you can see the number of issues in each queue, and drag and drop queues to reorder them.

You can edit existing queues by selecting the queue you wish to configure and selecting **Edit queue** in the top right corner. You can edit the queue name, the issues shown, the columns, and column order. Note that you will see a live preview of the updated issues that appear in this queue as you configure it.

If you're using filters in your queues, make sure these filters include all the priorities defined in the associated priority scheme. SeeAssociating priorities with projects for more details.

#### How your team uses queues

Queues give your agents a single view of the work that needs to be done across their team. Agents can view all of the queues in your service project; however, they cannot create or edit queues.

## Automating your service project

## Youre viewing Legacy automation

Weve renamed **Automation** to **Legacy automation** after introducing new automation engine to Jira Data Center. The page youre viewing describes original automation rules that have been part of Jira Service Management since the beginning. You can still use them and your existing automation rules will keep working. We recommend, however, that you switch to the more powerful Automation.

To check out the new Automation, see Automate your project.

Create automation rules to perform actions in your service project based on specific triggers and conditions. For example, you can set an automation rule that alerts an agent when a high priority issue is created. Or, service project can reopen an issue if your customer comments on it after its been resolved.

## Set upa preset automation rule

On this page:

- Set up a preset automation rule
- Edit preset automation rules
- Create a custom automation rule
- Customize automation webhooks
- Rule run options
- Disable an automation rule

If your automation rules involve priorities and you're using filters in your service project, make sure these filters include all the priorities defined in the associated priority scheme. SeeAssociating priorities with projectsfor more details.

### To set up an automation rule:

- 1. In your service project, select **Project settings** > Legacy automation.
- 2. Select Add rule.
- 3. Select a preset rule from the list, then select Next. The rule configuration screen appears.
- 4. Edit the rule name and description as needed. The rule name appears on the main automation settings page, so select a name that explains what it does.
- 5. Edit and update any fields that appear in the configuration dialog.
- 6. Select Save.

Your service project comes with preset rules that you can use to set up automation. Here are the preset rules that come out-of-the-box:

#### Preset rules

#### **Transition on comment**

When a comment is added to an issue, this rule automatically transitions the issue so it's clear who it's waiting on.

#### Reopen on customer comment

When a comment is added to a resolved issue, this rule will reopen the issue.

#### Be aware of urgent issues

This rule alerts you (via an @mention) to urgent issues when they are raised, so you can address them immediately.

#### Keep on top of SLAs

This rule alerts you(via an @mention) when a serious issue is about to breach one of your SLAs.

#### Set customer expectations

This rule lets your customers know when to expect a response based on the priority of their ticket, by adding a prepopulated comment to the issue.

#### Update when a linked issue changes

This rule will add a comment to related issues, when the status of an issue changes.

#### Triage requests sent by email

This rule updates issues received by email with the correct request type, based on keywords present in the request summary or description.

## Editpreset automation rules

To edit a preset rule:

- 1. In your service project, select **Project settings** > Legacy automation.
- 2. Select Edit next to the rule in your automation list to see how it's configured.
- 3. Select the WHEN, IF, or THEN fields to change your rule's trigger, conditions, or resulting actions.Use **Tips for customizing this rule** for suggestions on what to enter in these fields.
- 4. SelectSave to publish your changes.

## Create a custom automation rule

To create a custom automation rule:

- 1. In your service project, select **Project settings** > **Legacy automation**.
- 2. Select Add rule.
- 3. Select **Custom rule** from the list, then select **Next**. The rule configuration screen appears.
- 4. Give your custom rule a name and a description.
- 5. Configure your rule by defining the WHEN, IF, and THEN fields.
- 6. Select Save.

Here are the rule sets that are allowed in the automation engine:

Comment added	Issue matchesa	Add comment, either internal or external
	certain filter Comment visibilityi s internal or external User typeis a customer or agent Comment contains a key phrase	Alert user to prompt a specific user or users via an @mention Archive issue to remove it from search results, queues, the customer portal, and all other places it previously appeared. You can access archived issues through direct links, and restore if needed. Learn more Auto-approve/decline to approve/decline a request based on your IF field
Comment edited	Issue matchesa certain filter Comment visibilityi s internal or external User typeis a customer or agent Comment contains a key phrase	<ul> <li>Edit request type to change the request type (Because request types are mapped to specific issue types, automation isn't able to change issue types. Be sure your request types are the same issue type before applying this rule)</li> <li>Edit issue to select and change a field in your issue, like assignee or priority, as well as Jira supported custom fields (see J ira administration &gt; Issues &gt; Custom fields).</li> <li>Send email to create an email notification.</li> </ul>
Issue is created	<b>Issue matches</b> a certain filter <b>User type</b> is a customer or agent	<b>Transition issue</b> to change its position in the workflow <b>Webhook</b> to send a POST request.
Issue resolution is changed	Issue matchesa certain filterUser type is a customer or agentResolution changei s either set or cleared	
Status changed	Issue matchesa certain filter User typeis a customer or agent Status change visible to customer	

A linked issue is transitioned	Link type matchesa certain type of link (for example,is related toor blocks) Issue matchesa certain filter Linked issuematch esa certain filter User typeis a customer or agent
Request participant added	<b>Issue matches</b> a certain filter <b>User type</b> is a customer or agent
Organization added to issue	Issue matchesa certain filter User typeis a customer or agent
Approval required	Issue matchesa certain filter User typeis a customer or agent
SLA time remaining Select the SLA and goal status that triggers the event	<b>Issue matches</b> a certain filter

## Customize automation webhooks

Jira Service Management webhooks let you send information to third party web services without the need for a third party app. For example, you can post a message in a Slack channel when a major incident occurs.

Read Send alerts with Jira Service Management webhooks to learn more.

## Rule run options

Select **Options** in the rules configuration page to change the behavior of how a rule runs, as shown in the image below:

	Transition on comment					Options Delet
WHEN     IF     THEN       C Comment added     Q Issue matches Status = "Waiting     == Transition issue Respond to cust       Image: Comment is public     Image: User is not a cust	Nhen a comment is added to a I's waiting on.	n issue, this r	ule automatically transition	s the issue so	it's clear who	
C Comment added	) Tips for customizing this rule					Allow this rule to be triggered by other rules
C Comment added	WHEN		IF		THEN	
Status = "Waiting     Respond to cust       Image: Comment is public     User is not a cust						
User is not a cust	G Comment added					
			Comment is public			
😭 Comment is prim			User is not a cust			
			Comment is prim			

**Run rule as:** By default, rules run as the person who created the project. Alternatively, you can run rules as the person who triggers the rule. For example, if a rule responds to a customer, then you might want the comment to be from the agent who is working on the request, not from the person who created the project. In this case, you would want to set the **Run rule as** to **User who triggered the rule**. Make sure the person you choose has permission to complete all the actions taken by the rule.

**Triggered by other rules:** By default, rules can trigger other rules. In some cases, you might need to disable this to prevent two rules from triggering each other infinitely.

To change the default **Run as** user, go to **Legacy automation**> **Change default event user**. Make sure the person you choose has permission to perform all the actions that you might try to automate in all your rules.

### Disable an automation rule

To disable an automation rule:

- 1. Go to Project settings > Legacy automation.
- 2. SelectEditnext to the rule in your automation list. The rule configuration screen appears.
- 3. Unselect the Enable rule checkbox (at the bottom) and select Save.

Disabled rules appear in your automation list with a DISABLED badge.

## Send alerts with Jira Service Management webhooks

Webhooks are ways for one application to send automated information to another. You might use a webhook to communicate something important after a particular event has occurred. For example, you can send an SMS to a team lead when a high priority issue is created.

A webhook is made up of two things:

- payload the message itself
- URL the destination of the message. This URL needs to be allowliste d in Jira.

By default, we will send payloads in JSON format using an HTTP POST request.

#### On this page:

- Add a webhook to a Jira Service Management automation rule
- Payload body options

## Add a webhook to a Jira Service Management automation rule

A Jira Service Management webhook is a **THEN** action in an automation rule. When you configure a rule you can specify **WHENs** and **IFs**, then use the webhook to define your action.

Before you begin:

The destination URL needs to be allowlisted in Jira.

To add a webhook to a Jira Service Management automation rule:

- 1. Go to Project settings > Automation.
- 2. Create a Custom rule or edit an existing rule.
- 3. Configure the **WHEN** and **IF** settings as you like.
- 4. Add a **THEN** action and choose **Webhook** from the dropdown.
- 5. Configure the webhook settings, name your rule, then hit Save.

See the example below of an automation rule that posts a message to Slack when a major incident occurs:

WHEN	Edit THEN X
C Issue created Q Is	🖸 Webhook
	URL
	https://hooks.slack.com/services/TCUT2S4NR/BDM
	Headers (Optional)
	Add
	Body
	Send empty payload
	$\bigcirc$ Send Jira issue as payload $\textcircled{i}$
	<ul> <li>Send custom payload</li> </ul>
	□ Encode as form Insert variable ~
	<pre>{     "text": "There is a major incident. Details: \${request.details}. Click here to respond \${request.details}" }</pre>
	Confirm Cancel

Read the developer tutorial for detailed information on how to configure Jira Service Management webhooks.

## Payload body options

You can choose one of the following three options for the payload's request body:

- Send empty payload you might choose this option if you're communicating with an app that requires no information.
- Send Jira issue as payload the Jira issue, user, and any comments will be sent.
- Send custom payload you can choose the variables to include and customize your payload you'll
  need to specify your payload in JSON format. Check the Encode as form box if you want the
  payload to be URL-encoded.

## Managing service project notifications

Customers, agents, and admins get email notifications about the status of, and activity on, requests. You can customize the recipients, content, and style of these notifications. This page is about customizing notifications that go to your customers.

To customize the notifications that go to agents and admins, make changes to the Jira notification scheme.

On this page:

- How different roles
   receive notifications
- Account verification emails
- Opt in and out of customer notifications
- Disable the customer scheme for customer notifications
- Edit customer notifications
- Automatically send emails as customer notifications
- Translate customer notifications into different languages
- Customize customer notifications
- Select HTML or plain text

## How different roles receive notifications

A service project sends notifications based on two schemes:

- One for your customer, and
- One for your licensed users, who are most likely agents and admins

## Customers

When a customer submits a request, they receive the same default email notifications as the issue reporter or participant. When customers share requests in an organization, customers in that organization receive notifications. They can opt in and opt out of notifications for other activity on the request.

When an approver needs to approve the request, they'll receive a notification. They can opt in to notifications for other activity on the request.

Other customers receive notifications on public activities for requests they're involved with. They can opt in and opt out of notifications in the customer portal or email. Reporters who decline are only notified when a team member resolves a request.

When a customer first contacts a service project that has incoming email and public sign-up enabled, an account is set up for them in the background. They'll receive an email that asks them to reset their password and verify their account details. Project administrators can disable these account verification emails.

## Agents and admins

When agents and admins work on a request, they receive notifications as part of the project's notification scheme.

Agents don't receive notifications on their own changes when they act as a customer on issues with a set request type. Jira Service Management treats agents acting as a reporter, participant or approver on these issues as a customer. This occurs regardless of the notification scheme.

Agents who are part of an organization will only receive a customer notification when a request is shared with that organization. If the agent is the assignee of the issue, they won't receive any notifications from the project's Jira notification scheme.

## Account verification emails

When a customer raises a request by email for the first time, the following events take place:

- An account is created for the customer in the backend.
- A notification is sent to the customer asking them to verify their email address and reset their password, so they can access the customer portal.

This is confusing for customers of organizations running email-based service projects because, most likely, only the agents and admins are using the customer portal. The good news is that you can disable account verification emails to avoid customer confusionyou need to be a project administrator to do this.

To disable account verification emails:

- 1. Go to Project settings > Customer notifications.
- 2. Navigate to the heading Account verification email.
- 3. Enable the **Do not send account verification emails** toggle (displaying as green with a tick).

## Opt in and out of customer notifications

Customers receive notifications when other customers share requests with them. They can opt in and opt out of these notifications in the customer portal, or in email.

To opt in and opt out of notifications in the customer portal:

- 1. From your customer portal, select **Requests** > **All requests**.
- 2. Select the request whose notifications you want to opt in or opt out of.
- 3. Select either Get notifications or Don't notify me, besides the eye icon.

To opt out of notifications in email, select the link **Turn off this request's notifications** at the bottom of the email.

## Disable the customer scheme for customer notifications

If you have an internal service project where all your help seekers have Jira licenses, you might prefer to disable the customer scheme. In this case, you can work from the licensed user scheme.

To disable the customer scheme:

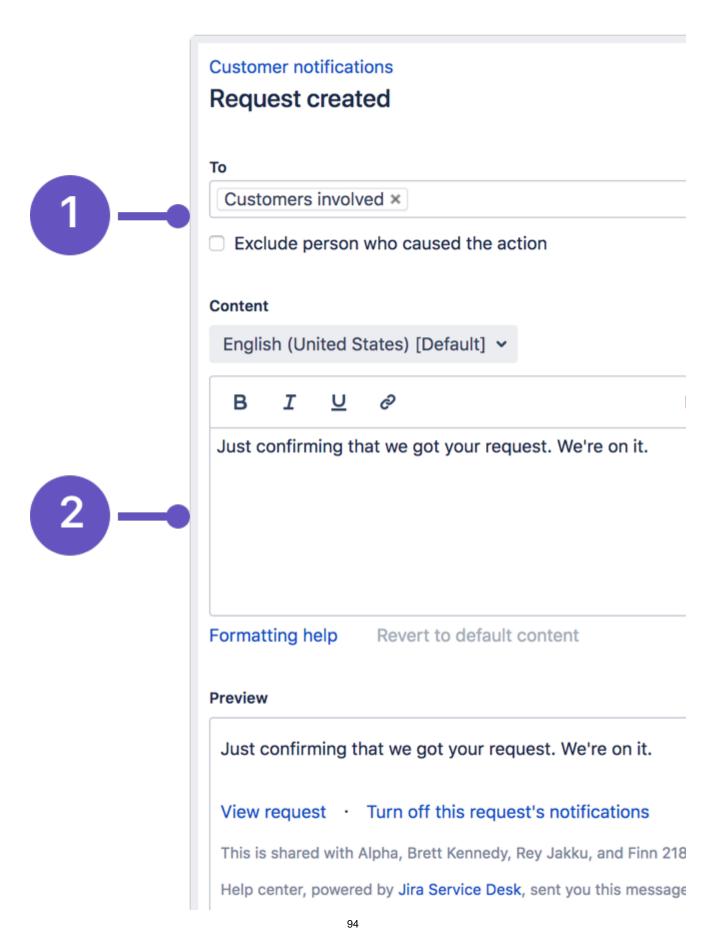
- 1. Go to Jira administration > Applications > Jira Service Management > Configuration:
- Under the heading Notifications, select Yes. This tells your project to stop blocking Jira notifications for customers.
- 3. Disable the service desk notifications in **Project settings** > **Customer notifications**.
- 4. For each rule, select Edit and deselect the Enable checkbox at the bottom.
- 5. Go to your Jira notification scheme and customize the notifications for your customers, agents, and admins.

## Edit customer notifications

To edit the recipients or message content of your service project notifications:

- 1. From your service project, select **Project settings > Customer notifications**.
- 2. Select the notification you want to edit, then select Edit under the Action column.

- 3. Select recipients by selecting and editing the **To** field. You can delete recipients by selecting the **X** next to an added recipient.
- 4. Under **Content**, edit the message. You can add variables using the **Insert variable** dropdown to pull blocks of information from issues.
- 5. To disable a notification, untick the **Enable** checkbox.
- 6. Select **Save** to confirm your changes.



## Select recipients

When choosing recipients, add at least one of the following to the To field:

Recipient options	Details
Reporter (customer)	The reporter of the request.
(customer)	This notification is sent even if the reporter has opted out of receiving notifications on the customer portal.
Customers involved	<ul> <li>All customers involved in the request, including:</li> <li>the reporter</li> <li>the request participants</li> <li>the people in the organization that the request has been shared with</li> <li>the approver, in case the request requires an approval</li> <li>Notes:</li> <li>This notification isn't sent to customers if they have turned off notifications for an individual request in the portal or a request's email thread.</li> <li>For the users which fall into the categoryofpeople in an organization that the request has been shared withas well asapprovers, this notification isturned off by default. This means that to receive notifications meant for the recipientofCustomers involvedand for a specific request, they need to explicitly turn on notifications for that request by selecting <b>Get notifications</b>.</li> </ul>
Added participants	The people who have been added as request participants.
Added organizatio ns	The people in an organization that the request has been shared with.
Approvers	The people who need to approve or decline a request.
Exclude person who caused the action	Prevents the person who triggered the rule from receiving a notification. For example, if a customer adds a comment to a request, you can select to exclude them so they don't receive a notification about their own comment.

#### Include issue variables

You can use variables to pull blocks of information from issues and insert them into your message. Select the **Insert variable**drop down menu to add valid variables for the notification you're customizing.

Name	Format	Description
Recipient name	\${recipien t.name}	The full name of the person receiving the email.
Name of person who caused the action	\${event. user. name}	The full name of the person who triggered the notification, for example by adding a comment.
Issue summary	\${issue. summary}	The summary of the issue, or blank if there's none.
Issue description	\${issue. descriptio n}	The description of the issue, or blank if there's none.
lssue key	\${issue. key}	The issue key (for example, IT-123).
Issue reporter	\${issue. reporter. name}	The full name of the user that reported the issue.
Issue resolution	\${issue. resolution}	The resolution of the issue, for example "done".
Request URL	\${request .url}	The URL of the request in the customer portal.
Comment	\${comme	The comment added to the issue.
	nt}	This is only available using the "Comment added" or "Comment edited" WHEN trigger.
Request status	\${request .status}	The customer-visible status of the request, as shown on the customer portal.
Portal name	\${portal. name}	The portal name, which can be edited on the <b>Portal settings</b> page.
Request details	\${request .details}	The full details of a request. This includes the creation date, request type, summary, and the same fields configured as <b>visible</b> in the request type setting.
		This does not include fields created by third-party add-ons.
Approval buttons	\${approv al. buttons}	The <b>Approve</b> and <b>Decline</b> buttons to action requests from within the email.

Fast-track the time it takes approvers to action pending requests by inserting Request details and A pproval buttons to your approval notifications template, if they aren't there already.

## Automatically send emails as customer notifications

To create custom email triggers:

- 1. From your service project, select **Project settings > Automation**.
- 2. Select Add rule > Custom rule > Next.
- 3. Edit the name and description as needed.
- *4.* Edit these fields to configure your rule:
  - WHEN: select what triggers your rule

- IF: select the conditions of your rule
- THEN: send email
- 5. Select **Save** to create your custom rule.

## Translate customer notifications into different languages

Jira Service Management lets you provide translations and regional messages to your customers, and supports a large number of languages.

Read Translate service project notifications to learn how to do this.

## Customize customer notifications

Your service project adds a default subject line that you can customize to better fit your brand.

To customize notifications:

- 1. From your service project, select **Project settings** > **Customer notifications**.
- 2. Under Templates, select Edit templates.
- 3. Under **Subject**, edit your subject line. You need to keep the issue key somewhere in the subject line to send a request's notifications into a single email conversation.
- 4. Under **Styles**, adjust the HTML, CSS, and plain text styles as you like. You can include more template variables by selecting the Insert variable drop down.

## Include more information using template variables

You can use this set of variables to pull blocks of information and add it to your email template.

Name	Format	Description
Message content	\${message. content}	The content of your notifications. We require this variable. This variable includes batched messages.
Request location	\${request.url}	The URL of the request.
Disable notifications location	\${request.disable. notifications.url}	The URL to turn off notifications for the request. As a best practice, we recommend always including this link.
List of request viewers	\${request. sharedwith}	The participants, approvers and customer organizations who can also view the request.
Help center name	\${helpcenter. name}	The name of your site's help center, an entry point to all customer portals on your site.
Jira Service Management homepage	\${atlassian.url}	The URL of Jira Service Management's homepage.

## Style more CSS classes

You can style more classes than appear in the default template.

Name	Class	Description
Reply marker	.jsd-reply- marker	The style of the reply marker. This series of dashes and hyphens is used to process comments when a customer replies to a notification.
Batched item container	.jsd-activity- item-content	The style of a division used to wrap individual messages added to a batched notification.
Batched message separator	.jsd-activity- item- separator	The style of a separator inserted when batches of messages are sent as a single notification.

## Select HTML or plain text

If the default type is set to HTML, we send dual-encoded notifications. This means your customers can then select the HTML or plain text view in their mail client. If your customers use a plain text mail client, change your default setting and apply it to new and existing customers.

You must be a Jira administrator to set the default email type.

- 1. Select Project administration > System.
- 2. Under User Interface, selectDefault User Preferences.
- 3. Select Edit default values.
- 4. Change the Default outgoing email format to HTML or text and selectUpdate. At this point, the email format you have selected will only be applied to new service project customers.
- 5. If you also want to override the email format chosen by existing service project customers and agents, select **Apply** under **Actions**.
- 6. Select **Update** to finish applying the email preference to all user accounts.

## Translate service project notifications

When you create a project, its help center and customer portal display in the default language from your Jira instance.

To support your customers who speak different languages, you can translate the notifications they receive like the confirmation email that lands in their inbox after they submit a request.

O Check out Managing service project notifications to learn:

- how different roles receive notifications
- how to customize notifications

On this page:

- Add or remove a language
- Review and translate customer notifications

## Add or remove a language

When you add a language, your service project introduces translated notification messages and templates from our default style.

To add or remove a language to your service project:

- 1. Go to Project settings > Customer notifications.
- 2. Under Language support, select Manage languages.
- 3. Select Add languages, the languages your service project supports appear in the table.
- 4. Choose the language(s) you'd like to translate.
- 5. Under the **Action** column, you can **Enable** or**Disable** languages. We disable newly added languages by default, so you can quality check your translation before enabling it.

If a language isn't supported in your service project, your customers receive notifications in the project's default language. You'll see a project default badge beside the default language, and you can change this via the **Set project default language** link.



# **Project settings**

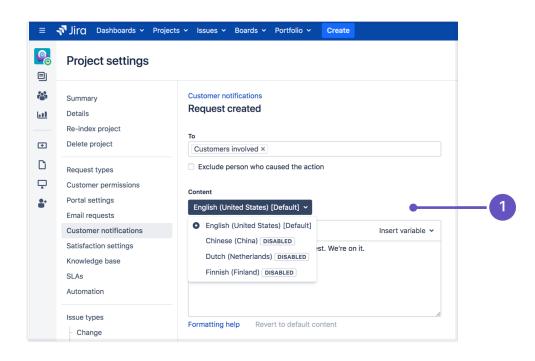
<b>S</b>	Summary	Cust
•••	Details	Lan
	Re-index project	Choc
+	Delete project	
C	Request types	-
Ļ	Customer permissions	Lan
<b>.</b> .	Portal settings	Enç
-	Email requests	Dar
ଚ	Customer notifications	Ger
	Satisfaction settings	0er
	Knowledge base	

## Review and translate customer notifications

To translate a customer notification:

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- 2. Under Default rules, choose the notification to translate, then select Edit.
- 3. On the notification screen, under **Content**, select a language from the drop down.
- 4. Insert any additional variables or custom content. You'll need to add translations for your custom content, otherwise, customers will see that content in the project default language.
- 5. Preview the content, then hit **Save**.



## Setting up request types

Jira Service Managementprovides a set of default request types that are configured for basic IT help desk scenarios. You can configure the default request types or add new onesto suit the needs of your customers and team. Request types can be organized into groups to help customers find the request they need on the customer portal.

You need to be an administrator to set up request types and workflows in your project. On this page:

- Set up request types
- Organize request types into groups
- Customize the fields on a request type
- Customize the workflow statuses for a request type
- Hidden fields and unsupported fields
- Set up URLs with auto-populated request fields

## Set up request types

Each request type in a service project isbased on an issue type.Open**Project settings>Request types**to manage your project's request types:

	lcon	Request name	Issue type	Description (Optional)	Actions			
1-	-	•	<b>I T</b>		Create requ	est type		
	?)	Get IT help	Service Request	Get assistance for general IT problems and questions.	Edit fields	Edit groups 1	×	4
	Ţ	Order a monitor	Service Request with Approvals	Order a new monitor for your workstation	Edit fields	Edit groups 1	×	
	((*))	Connect to wi-fi	Service Request	Get access to your office's wi-fi network	Edit fields	Edit groups 3	×	

- 1. Request name: give the request an intuitive name by using keywords that your customers look for.
- 2. **Issue type:** add a new request type by selecting the issue type the request is based on.
- 3. Description: help your customers choose the right request type by providing helpful descriptions.
- 4. Edit fields: customize request fields and workflow statuses, and add request types to groups on your customer portal.

Asingle issue type can be the basis for many different request types. For example, the *Service Request* issue type serves as the basis for both the "Get IT help" and "Connect to wi-fi" requests.

## Organize request types into groups

We recommend using groups if you have seven or more request types, so you can make your request types easier to find on the customer portal. You must have more than one group for the groups to appear in the customer portal. For example, 'Logins and Accounts', 'Applications', and 'Common Requests':

ATLASSIAN				Add announcement Requests (3)
	Help cente	r Travel Sydney		
	Welcome! You can raise a Charl	ie Travel Sydney request from the options provided.	٩	
	Common Requests	Flight Testing approvals	-	
	Logins and Accounts Computers	Get IT help     Get assistance for general IT problems and question:		
	Applications Servers and Infrastructure	Set up VPN to the office Want to access work stuff from outside? Let us know		
		Request a new account Request a new account for a system.		
		Desktop/Laptop support     If you are having computer problems, let us know here	e.	

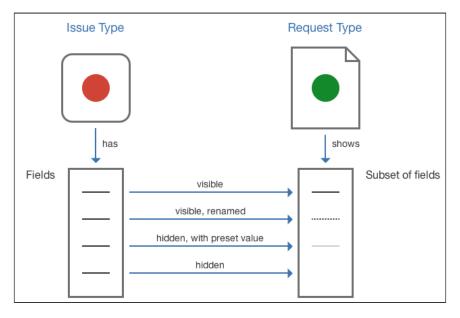
Administrators and project administratorscan manage request type groups in**Project settings**>**Request types**.Click on a group to add new or existing request types to it. You can also create a new group by clicking**+** Add group andthese request type groups are unique to each service desk project.

- Drag and drop request types to rearrange them in your groups (and, consequently, on your customer portal).
  - If you assign multiple groups to a single request type, the request type will appear on multiple tabs.

## Customize the fields on a request type

 $\oslash$ 

The fields and descriptions that appear in a request type are based on the field configured for the issue type (that is, the issue type the request type is based on).



When editing the request type fields, you can use the **Fields**tab to change the default Jira field names to more customer friendly language. For example, the "Summary" field appears as "What do you need?" for customers.

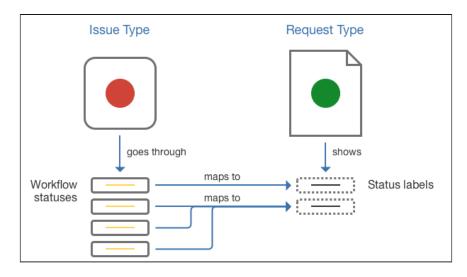
aque	est types / Order a monitor			V	iew this rec	quest form
Fi	ields Workflow Statuses					
his re	equest form is linked to the following is:	sue type: Serv	vice Request with Approvals (3 of 10 field/s used)			Add a field
elp a	and instructions (Optional)					
inks	[link name http://example.com]					
	[link name http://example.com]					
isibl		Required	Field help (Optional)	Actions		
'isibl	le fields	Required	Field help (Optional) e.g. Wireless PC keyboard	Actions	Update	Cancel
isibl נ	<b>le fields</b> Display name			Actions	Update	Cancel
'isibl r r	le fields Display name What do you need?			Actions Hide Remove	Update	Cancel

You can also keep fields hidden but available on the request type so that their value can be used for other processes. For more details about how different types of fields work in Jira Service Management, seeHidden fields and unsupported fields.

If the issue type doesn't have the fields you need, you mustadd a field to the Jira issue type that the request type is based on. If the issue type uses multiple screen schemes, the new field must be available in the create screen. SeeAssociating a screen with an issue operation.

### Customize the workflow statuses for a request type

Jira Service Managementuses the workflow associated with the request's issue type for the flow of the request.



You can re-map the default workflow statuses to more customer friendly statuses that will appear for customers, and you can also map multiple statuses to a single customer status to simplify the appearance of the workflow. Use the **Workflow statuses** tab to customize the workflow that customers will see.

Fields Workflow Statuses	
Workflow status in JIRA view workflow	Status name to show customer
Resolved	Completed
Waiting for customer	Waiting for customer
Waiting for approval	Waiting for approval
Save Discard unsaved changes	

Only changes between these customer-visible 'status names' will be reflected in the Customer Portal and its notifications (e.g. a transition between two workflow statuses can be hidden on the Portal by giving them the same 'status name'). For more information about notifications, see<u>Managing service project notifications</u>.

If you need to change the workflow of a request, you mustedit the workflowassociated with the service project by going to **Project settings**> **Workflow**.

## Hidden fields and unsupported fields

Each request type in a service project isbased on an issue type. Every issue type has a set of allowed (and possibly required) fields associated with it. As you set up the request type, you can choose to include fields that are hidden on the customer portal but still provide a value to assist with your internal processes and reporting. For example, you might want to set the value of the "Label" field as "hardware" for the "Request new hardware" request type, and set the value as "software" for the "Request new software" request type.

Some fields used by an issue type are not supported for use in the customer portal; if you include these fields on a request type, they will automatically be added to the **Hidden fields with preset values** section and you'll be required to set a value for them.

Other fields aren't supported for use inJira Service Management.

These fields can be added to the request type and given a preset value, but you cannot make them visible on the customer portal:

- Assignee
- Linked issues
- Any fields that are defined by other Jira applications
- · Group, project, and version picker custom fields
- Security level

These types of fields can't be added to a request type and won't appear in the in the Add a field dialog:

- Issue type
- Log work
- Reporter
- Time tracking

#### Set up URLs with auto-populated request fields

You can generate URLs that will automatically populate selected request fields with contextual data. This way you can direct your customers to the customer portal from an external website and transfer certain details into the request fields.

- If an incorrect value is loaded via the URL, the field can display incorrect malformed data.
- The URL max length is 2048 characters.

- All values must be URI encoded.
- If the custom field is a default field from Jira or Jira Service Management, it will use its field name, e.g. Summary, Priority. If it's a user-generated field, it will require the custom field ID. Learn how to find ID for custom fields

URLs can fill in the following request field types:

Field type	Example usage	Description
Summa ry	&summary=Hello% 20World	URI encode value and attach it to the custom field.
Descrip tion	&description=Abou t%20us.	
Priority	&priority=4	
Text	&customfield_1000	
Textarea	=Lost%20phone	
Date	&duedate=12/24/95	Format = MM/DD/YY
Due date		
Date time	&customfield_1000 =12/14/21-14:39:21	Format = MM/DD/YY-HH:MM
Label picker	&customfield_1000 =hello,atlassian	Comma separated labels.
Checkb ox	&customfield_1000 =500,501,502	Pass values of the option ID to be selected, separated by comma.
Multi- select		
Radio	&customfield_1000	Pass a single value to be selected.
Select	=500	
Cascad ing select	&customfield_1000 =500,1	Pass 1 or two values. The first value is the first select option to be selected. If a second value is passed, then it is the second select value to be selected.

## Troubleshooting issues with request types

This page contains information about the errors and problems that you might have when setting up request types for your service project.

Cannot delete the request type because it is the default request type for the email channel. If you see this error when trying to delete a request type, it means that the email channel for your service project uses this request type as the default onefor all the requests coming from emails. WhenJ ira Service Managementp ulls emails from the associatedem ail account and creates request, this request, this request, this request his request type is assigned to be the mail account and creates request type is assigned to be the mails of the the mails has the emails from the associatedem all account and creates requests type is assigned to be the type is assigned to be the type is assigned to be type is assig
the requests automatically.

Cannot show a hidden field or make an optional field required because the request type is the default for the email channel. WhenJira Service Managementc reates new requests from emails sent to the email account associated with your service desk, it copies the email subject to theSummary field and the email content to the Descript ionfield.When more fields are required, Ji ra Service Managementc annot parse emails to fill them in with correct values.

You have the following options:

- If you want to show a hidden field, make it an optional one.
- Ask your Jira administrator to change the default request type for the email channel to use a different request type, and then modify your request type to include more required fields. You can also create a new request type for the email channel if no existing types are suitable. For more information about the email channel setup, seeReceiving requests by email.

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Request type displayed as "No match" in agent view.

> InJira Service Management, the service project request type is stored with the PortalKey /RequestType Name value. For example, a "New Feature" request created in your "HelpDesk" Customer Portal would have the HelpDesk /NewFeature value. When you move this request to a new project, the HelpDesk /NewFeature value no longer matches the new project's Customer Portal name and request type values.

You have the following options.

• When you move a single issue to a new project, simply edit the service project request type field with the correct request type:

rts-31 Intranet down?	Return	to qu
✔ Edit Q Comment Assign More ↓ Investigate Pending Workflow ↓	Admin 🗸 🖞 Ēx	port
✓ Details	✓ SLAs	
	(View Workflow)     -4d 6h     Time to first response within 2h       solved     III     Time to first response within 2h	
Labels: None	-4d 4h II Time to resolution within 4h 🚍	
> Description	✓ People	
Attachments	Assignee: 🕥 Vincent Wong	
Drop files to attach, or browse.	Assign to me	
	Reporter: Reporter: Request None	
<ul> <li>Activity</li> </ul>	Request None participants:	
All Comments Work Log History Activity Transitions	Organizations: None	
There are no comments yet on this issue.	Votes: 0 Vote for this issue	
	Watchers: 0 Start watching this issue	
	<ul> <li>Service Desk request</li> </ul>	
Click to add comment	Request type: 🔥 Report a system problem	
	Customer status: Other leque types	
	Customer status: Other issue types Channel:	

If you need to move a group of issues, you can search for issues with the same issue type in your existing project and then use the Bulk Edit wizard. In the third step, check **Change Customer Request Type** and select the request type that applies to this group of issues.

# **Setting up SLAs**

Good service is what keeps customers coming back and a key ingredient of good service is responsiveness.

With Jira Service Management, you can keep your team on track by setting goals for how quickly you manage customer issues. If these goals are set by your customer contracts, you might know them as Service Level Agreements, or SLAs.

SLAs track the progress of things like:

- Respond to all requests within 2 hours.
- Resolve high-priority requests within 24 hours.

#### How SLAs look

To see how SLAs are displayed in the agent view and customer portal in different scenarios, seeHow teams see SLAs.

#### How to set SLAs

Your Jiraadmin or project admin can set SLAs in Project settings > SLAs.

When you set an SLA, you select three things:

- Who can view your SLA: only agents or also customers on the customer portal
- A time metric, which defines how and when time will be measured
- A goal, which defines the target to be met

#### Select who can view your SLA

You need a Data Center license to use this feature.

By default, SLAs are visible only for agents. You can select to display each SLA individually also for customers on the customer portal. Customers will see the status of your SLA and its time metric, but they won't see the goal itself (for example, *within 5d*).

New SLA			
Who can view this SLA You can allow customers to view this SLA in the c	istomer portal or keep it only for agents.		
Show in customer portal			
• Yes			
O No (default)			
Time metric Time will be measured between the <b>Start</b> and <b>Sto</b>	<b>p</b> conditions below.		
Start* -	Pause on	→	Stop*
Begin counting time when	Time is not counted during		Finish counting time when

#### Set a time metric

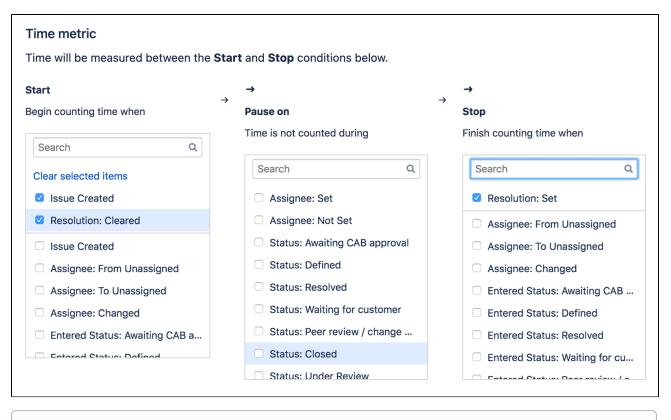
The time metric works like a stopwatch, tracking the time between two points in an issue's lifecycle. For example, you might start time when an issue is created, pause time while you wait for the customer to respond, and stop time when the issue is resolved.

Jira Service Managementhas pre-configured time metrics to cover the most common IT requirements, but you can modify these or create your own as needed.

To create a new metric, from your service desk project sidebar, select **Project settings** > **SLAs** > **Create SLA** and fill in the following conditions:

Condition	Description
Name	This name (for example <i>Time to resolution</i> ) will appear to agents in the <b>SLAs</b> section of issues. Agents should be able to read the name and know what theyre being measured on. You can't change the name of an SLA metric after you've saved it.
Start	Time starts being counted against the SLA when any of these occur (for example, <i>Issue Created</i> ).
Pause on	Time doesn't get counted against the SLA when at least one of these conditions apply to the issue (for example, <i>Status: Waiting for Customer</i> ).
Stop	Time stops being counted against the SLA when any of these occur (for example, <i>Resolution : Set</i> ).

You can set multiple conditions for the start, stop, and pause time. Here's an example of the conditions set for the *Time to resolution* SLA.



Check outExample: creating an SLA with multiple cycles to learn how to create a more complex SLA by starting and stopping the time counter throughout the workflow.

#### Set a goal

In the **Goals** section of the SLA metric, select the type of issue you want to track (**Issues**), how quickly you want to resolve it (**Goal**), and your teams working hours (**Calendar**).

Here are some examples of goals you might set:

- Resolve blocker issues within 24 hours.
- Resolve blocker issues created by the Build Engineering team within 12 hours.
- Resolve blocker issues created by the Accounting team within 36 hours.

In the New SLA or Edit SLA screen, fill out the following fields to define a goal:

Field	Description
Issues	You can enter specific issue criteria using Jira Query Language (JQL). Base goals on criteria that remain relatively constant throughout an issue's lifecycle (for example, an issue's priority rather than its workflow status).
Goal	This is where you specify the target time for the SLA conditions you previously set. When specifying SLA goals that use a fraction of an hour, write the time as Xh Ym (for example, 3h 30m). You can write SLA goals as hours and minutes, but not days.
Calen dar	The calendar allows you to specify working hours when time can be counted against SLAs.

You can drag goals in order of importance. An issue is tracked against the first goal criteria it matches on the list:

Goals Issues will be checked against this list, top to bottom, and assigned a time target based on the first matching JQL statement.					
Issues (JQL)	Goal	Calendar			
0	(e.g. 4h 30m)	Default 24/7 calendar	Add		
priority = Highest	36h	Default 24/7 calendar	Delete		
priority = Blocker	24h	Default 24/7 calendar	Delete		
All remaining issues	No target	Default 24/7 calendar			

#### Set your working hours

Jira Service Management lets you create calendars that match the working hours of your team including lunch breaks, holidays, and weekends. You can then assign that calendar to an SLA, so the clock stops when your team are away.

Read Create and edit SLA calendars to learn how to do this.

SLA calendars are unique to each service project. SeeExample: Creating a basic SLAfor an example of setting up an SLA that uses a 9-5 working day SLA calendar.

#### Configure your SLA settings

As a Jira administrator, you can manage permissions, formatting, and other SLA settings.

To configure your SLAs:

1. Go to Administration > Applications.

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2. Select SLA configuration.

Applications Projects Issues	Manage apps User management Latest upgrade report System			
Application access	SLA configuration			
JIRA SOFTWARE	Specify the details of your SLAs. Learn how to set up SLAs			
JIRA SOFTWARE				
Sila Software configuration	General SLA settings	Configure		
JIRA SERVICE MANAGEMENT	Configure permissions and other general settings.			
Configuration	Settings	Status		
SLA configuration	Settings	Status		
Email requests	Admins can create new names for SLAs	Enabled		
Opsgenie integration	SLA custom fields	0 custom fields not in use		
Confluence Cloud integration				
INTEGRATIONS	SLA debug log events	Configure		
Application links	Specify whether you want to store SLA events in the debug log, and for how long.			
Application Tunnels	0.44	Charles -		
DVCS accounts	Settings	Status		
Slack	Store SLA events in the debug log	Enabled		
Bamboo configuration	SLA debug log cleanup method	Smart		
FishEye	SEA debug log cleanup metriod	Sinait		
Perforce	SLA event cleanup	Every 30 days		
Application Navigator	SLA time format	Configure		
	Specify how your SLAs will be displayed.	Comgure		
	Settings	Status		
	SLA time format	Human readable		

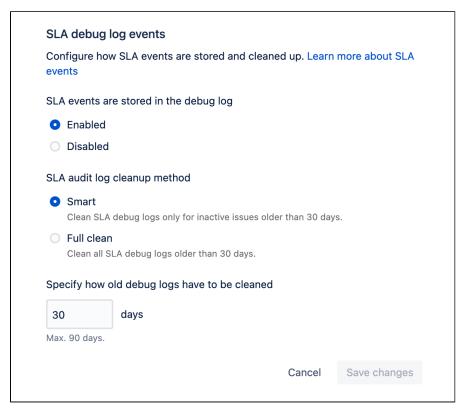
3. Find the section you want to manage.

4. Select Configure.

#### Clean up SLA debug log events

Whenever a Jira Service Management issue event is triggered or an SLA is created or deleted, Jira Service Management updates the corresponding SLAs. The SLA debug log feature creates an entry in the database ( A0\_54307E\_SLAAUDITLOG and A0\_54307E\_SLAAUDITLOGDATA tables) to reflect that change.

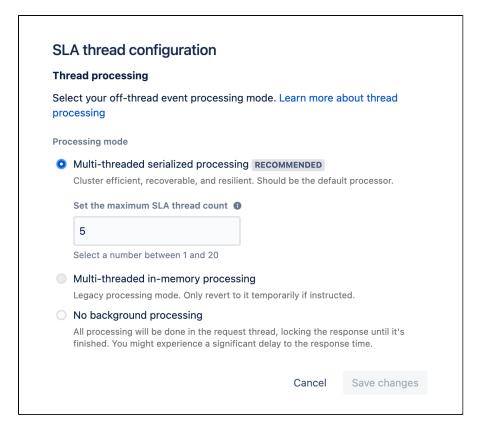
As a Jira administrator, you can decide how you want the SLA debug log to be cleaned up. You can also select how often the events will be deleted from the database.



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## **Configure thread processing**

To increase the performance of Jira Service Management, we run SLA calculations in background tasks. A thread, in this context, executes those tasks, in parallel with other threads.



You can configure the processing method as well as the thread count for your SLA calculations.

Processing method	Description
Multi-threaded serialized processing (Number of threads is configurable)	<ul> <li>We recommend using this processing method.</li> <li>Introduced in version 4.21.0, this new processing method is self-healing, more cluster-efficient, and more reliable, specifically when Jira is running in a multi-node cluster mode.</li> <li>This method allows any Jira node to process any of the stored events. Unlike the inmemory processing mode, application restarts don't affect SLA processing with this method. Even if you only have one node in your cluster, SLA calculations will resume from the place they were interrupted should any interruption happen.</li> <li>It uses historical event data stored in the database to calculate SLAs in the order the events arrived for an issue. The thread pool in this method is configurable in the range of 1-20 threads.</li> </ul>
Multi-threaded in- memory processing (Number of threads is configurable)	This method is considered a legacy processing mode. The thread pool here is configurable in the same way as in the serialized processing methodin the range of 1-20 threads. In this mode, all processed events are bound to the node they had happened on. When the application stops on one node, all unprocessed events are lost, and not included in the SLA history until it's manually reconstructed (for versions before 5.0) or until another event happens on the same issue (from version 5.0).

5

No background processing (Number of threads isn't configurable)In this method, all processing is done in the request thread, locking the response (user feedback) until the SLA calculation is finished. If you select this processing mode, you might experience significant decrease in the perceived performance of actions like issue creation, comment creation, or issue transition.	
---	--

SLA calculations result in querying the database to fetch information. Our databases use connection pools to limit simultaneous active connections to it. In case of no background processing, we dont control the pool count as it works on HTTP threads. This may lead to a fast database connection pool exhaustion under load. Learn more about database connections

#### Configure the SLA thread count

If you select the multi-threaded serialized or the multi-threaded in-memory processing method, you can configure the thread pool count for your SLA calculations in the range of 1-20. Thread count values are synchronized across all nodes without restarting the processors.

The default number of SLA threads per node is set to 5. However, in case the SLA calculations arent keeping up with issue updates, we suggest using the recommended multi-threaded serialized processing method and bumping up the SLA thread count in small increments while observing the system response.

Never set the SLA processing thread count to values larger than your database connection pool. Our recommendation is to not exceed 25% of your max database connection pool. To better understand the utilization and size of your database connection pool, check out the Database Monitoring admin menu.

# **Updating SLAs**

When you change the configuration of existing SLAs, we follow these rules:

- We dont recalculate, or touch in any way, cycles that have already been completed. A cycle is completed when a request fulfills the *Start* and *Stop* conditions (depending on your configuration and events, another cycle of the same SLA might then be started).
- We recalculate ongoing SLAs so they measure against your new configuration and metrics.

It might happen that ongoing SLAs will be completed or discarded entirely after changing the configuration. This can happen if you remove the previous *Start* or *Stop* conditions or change them to something else, which will trigger the completion. As mentioned earlier, ongoing SLAs will be recalculated to use your new configuration.

#### Recalculate your SLAs for a single issue

Occasionally, issue events that should trigger a change to an SLA value are missed or interpreted incorrectly resulting in an incorrect SLA value showing in the queues or the issue view. Usually, SLA calculations will catch up to missed events and correct the values, but if they dont, you can recalculate the SLAs for an issue in the issue view.

SLA recalculation replaces the existing SLAs values using the current SLA configurations for the project. This operation is irreversible and may result in data loss.

To recalculate your SLAs for an issue:

1. Go the issue view.

*2.* From the SLAs section select the more actions menu -> Recalculate all SLAs.



3. Select Recalculate.

## Best practice SLA usage

- 1. Try to select an **Assignee** who's not the **Reporter** of an issue. If you assign the same user, your SLA might work incorrectly.
- 2. If issue data changes in such a way that the goals for the issue change (for example, the priority changes from Critical to Blocker), the time against the previous goal will be tracked against the new goal, for open issues only.
  For example, if the Support team spent an hour on a Critical issue, when the issue is escalated to

For example, if the Support team spent an hour on a Critical issue, when the issue is escalated to Blocker, the hour still counts against the new goal, even if it causes the SLA to be breached.

- If you're using filters in your service project to track SLA data, specifically *priorities*, make sure these
  filters include all the priorities defined in the associated priority scheme. See Associating priorities with
  projects for more details.
- 4. We do not recommend setting up a goal to be dependent on a different SLA.

# **Create and edit SLA calendars**

When you create an SLA, you can link that SLA to a calendar to ensure the clock only ticks when your team are available. To support different ways of working, you can create calendars that take into account shift work, breaks, and holidays.

To get you started, Jira Service Management comes with two default calendars:

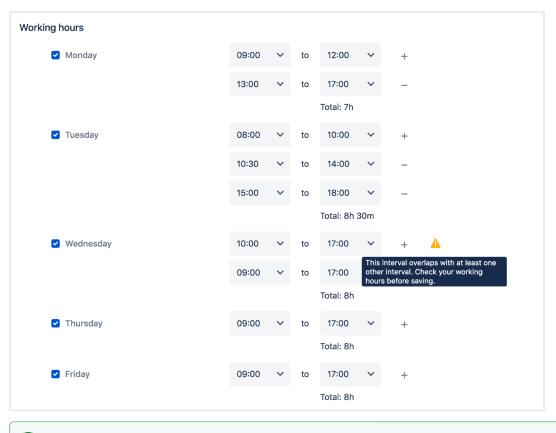
- Default 24/7 calendar. This is used when no calendar has been assigned to an SLA goal.
- Sample 9-5 calendar. This tracks hours from 9am to 5pm, Monday through Friday.

	<b>∛ Jira</b> Dashboards 🗸 Projects	s 🗸 Issues 🗸 Boards 🗸 Portfolio 🗸 🕻	Create		Search C	<b>4</b> €	0	ە 🛛	
<b>?</b>	Project settings							¢	•
<b>*</b>	Summary Details Re-index project	Calendars Use calendars to specify a team's working	hours and link that calendar to an SLA goal f	or more accurate tracking. Learn mo	ore about calendars.		Add	l calendar	
۰	Delete project	Calendar Default 24/7 calendar	Description This is the default calendar used wh	SLAs Time to first response	Actions				
C Ç	Request types Customer permissions	> Sample 9-5 calendar	Default calendar for teams working 9	Time to first response, Time to res					
÷	Portal settings Email requests	<ul> <li>Team daybreak's calendar</li> <li>Team twilight's calendar</li> </ul>	This is the calendar for the early mor This is the calendar for the late eveni	Time to first response Time to resolution	Edit Delete Edit Delete				
	Customer notifications Satisfaction settings Knowledge base SLAs Calendars								
	Automation								

## Create a new calendar

To create a new calendar in your service project:

- 1. Go to Project settings > Calendars (underneath SLAs).
- 2. In the top right corner, select Add calendar.
- 3. Fill out the Name and Description, so it's easy to know what hours are being tracked.
- 4. Choose the working hours for each day, and click '+' to add a new row.
- 5. Select Save.



O Look at the **Total** count for each day to make sure you're tracking the correct number of hours.

#### Edit or delete a calendar

To edit an existing calendar in your service project:

- 1. Go to Project settings > Calendars (underneath SLAs).
- 2. Find the calendar, select either Edit or Delete.
  - If deleting, you can't delete the **Default 24/7 calendar**. You also need to remove a calendar that's being used by an SLA from the SLA itself, before you can delete it here.
  - If editing, you can't edit the **Default 24/7 calendar**.
- 3. Once you've made your changes, select Save.

When you make changes, we'll recalculate any project SLAs linked to this calendar.

#### Import holidays

To import holidays to a calendar:

- 1. Go to the Holidays section at the bottom of the calendar.
- 2. Select the Import holidays link.
- 3. Choose your ICS file, and set it to UTC/GMT+10.
- 4. Select **Import**. You'll see a modal that lists the holidays about to be imported. Delete unwanted holidays by clicking '**x**'.
- 5. Select Import.

Imported holidays will be added to any existing holidays in the calendar. If you'd like a holiday to repeat the following year, check the **Repeat yearly** box and you won't have to import it again.

ld or import bolidove to voi	ir calondar so non-working	days don't count towards your SLAs.		
ia or import nondays to you	ar calendar so non-working	days don't count towards your SEAS.		
Add holidays		Holiday name Add	Import holidays	
Future holidays	2019 2020			
	Date	Holiday	Repeat yearly	
	14/Aug/19	Australia: Ekka People's Day (Regional)		Delete
	24/Dec/19	Australia: Christmas Eve (Regional)		Delete
	25/Dec/19	Australia: Christmas Day		Delete
	26/Dec/19	Australia: Boxing Day (Regional)		Delete
	31/Dec/19	Australia: New Year's Eve (Regional)		Delete
Deet helideus	0010 0010 0017	0040 0045 0044 0040 0040 0040		
Past holidays	2019 2018 2017	2016 2015 2014 2013 2012 2011 20	010 2009 2008	
	Date	Holiday	Repeat yearly	
	01/Jan/19	Australia: New Year's Day		Delete
	19/Apr/19	Australia: Good Friday		Delete
	22/Apr/19	Australia: Easter Monday		

(i) If you want to delete a recurring holiday you need to do this in the year it was created.

## Link calendars to SLAs

To link a calendar to an SLA:

- 1. Go to Project settings > SLAs.
- 2. Choose the SLA you want to link to, select Edit SLA.
- 3. Set your Start, Pause, and Stop conditions.
- 4. In the Goals section under Issues, choose the type of issues you want to track.
- 5. Under Goal, choose how quickly you want to resolve them.
- 6. Under Calendar, select the edit icon and choose a calendar from the dropdown.
- 7. Select Save.

ls	sues (JQL)		Goal	Calendar	
		?		Default 24/7 calendar 🗸	Add
			(e.g. 4h 30m)		
_				Default 24/7 calendar	
	priority = Blocker	?	2h	✓ Sample 9-5 calendar	Update Cancel
			(e.g. 4h 30m)	Team daybreak's calendar Team twilight's calendar	
AI	II remaining issues		8h	Team daybreak's calendar	

To learn all about SLAs and how to set them up, go to Setting up SLAs.

# How teams see SLAs

Support teams rely on SLAs to plan and track their time against issues.

Jira Service Managementshows SLAs in a human readable time, instead of only hours and minutes. That way, service project agents don't spend precious time working out what 78:00 means in days.

# How it looks

The SLAs look a bit differently for agents and for customers, if they're enabled on the customer portal:

- Agents see a read-only version of the tab, so they know how the is configured. In the issue view, the SLAs section lists more information about the that the issue is being measured against.
- **Customers** see SLAs that have been enabled on the customer portal, but they only see the status, without the actual goal. They can still see if an is at risk or breached.

#### On this page:

- How it looks
- How the clock works
- Multiple targets
- Sorting

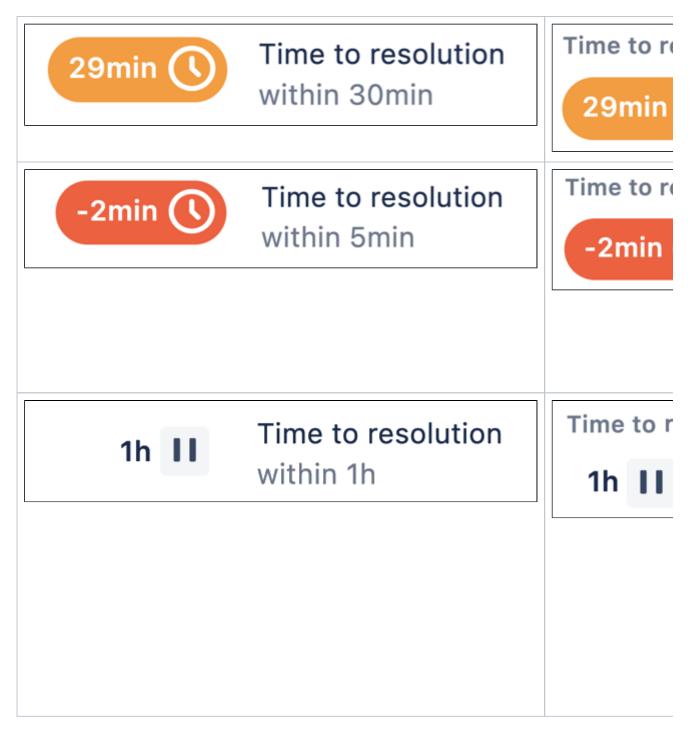


Time to first response
2h 51m

## **Ongoing SLAs**

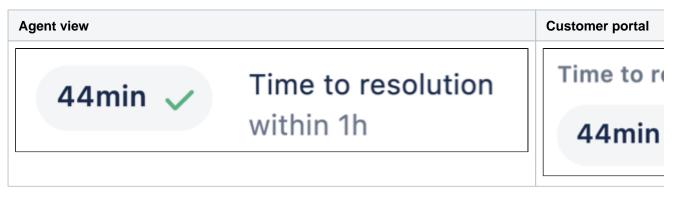
The tracker uses colors to indicate the urgency of an for an issue, based on the time remaining.

Agent view		Customer portal
1h 1m 🕔	Time to resolution	Time to r
	within 1h 10m	1h 1m
59min 🕔	Time to resolution	Time to re
	within 1h	59min



## **Completed SLAs**

A completed displays the time remaining when the was completed (or the amount of time breached) and an icon to indicate whether the was completed successfully or unsuccessfully.



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#### Past cycles

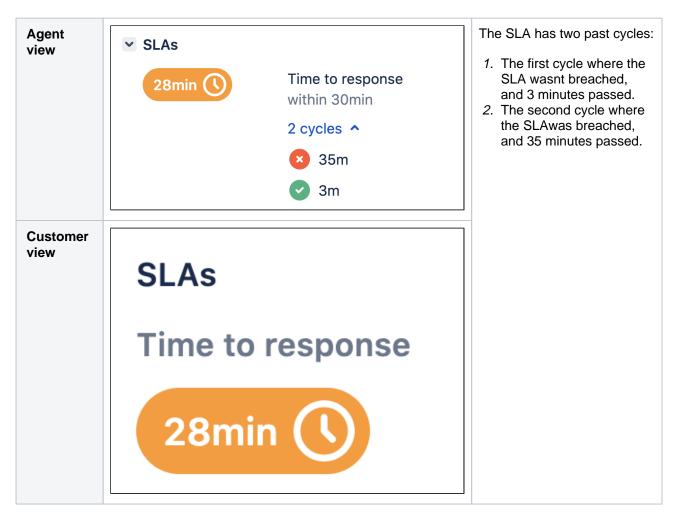
SLAs can be configured to start, pause, and stop based on various conditions. After an SLA has stopped and if one of the start conditions is detected again, the SLA will be reset to start a new cycle.

The past cycle will be displayed in the **SLAs** panel in the issue view, underneath the SLAs name. Youll see an expander under that where the corresponding cycles are listed.

There will be as many previous cycles as times an SLA is reset.

O Past SLAcycles show only in the agent view and arent available in the customer view.

Heres how past SLAcycles are displayed.



# Units of time

The following units represent time in an:

Seconds	n/a
Minutes	m (min if single unit)
Hours	h
Days	d
Weeks	w
Months	mo
Years	yr

Only 1 or 2 units, at a time, are displayed for simplicity, with a combination of the following:

min	
h	m
d	h
w	d
mo	
yr	

#### How the clock works

Jira Service Management calculates minutes, hours, days, and weeks by using the working hours set in the associated calendar. It calculates a month and a year by using approximations of 4 weeks and 12 months respectively.

Read Create and edit calendars to learn how to track your teams' working hours and assign calendars to an goal.

#### **Remaining time**

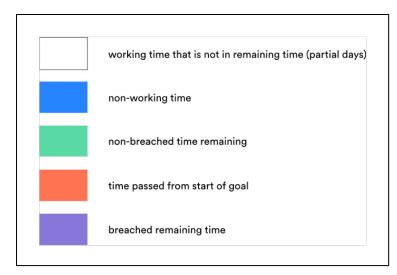
Remaining time is calculated by looking at the time from **now** until **due**, taking into account any pauses.

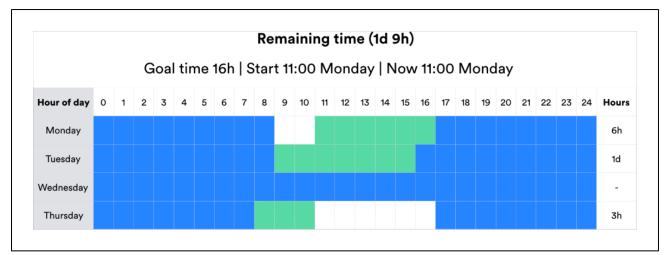
For example, Request A has an goal time of **16 hours**, with a start time of **11:00** on Monday, and working hours as follows:

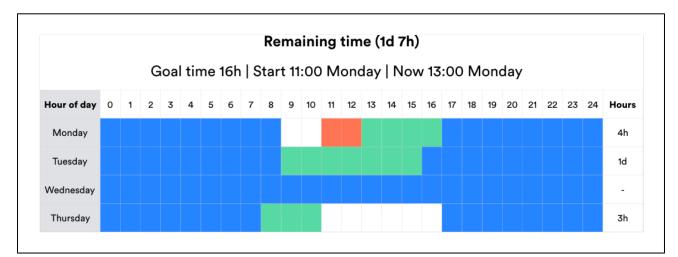
- Monday 09:00-17:00
- Tuesday 09:00-16:00
- Wednesday not working
- Thursday 08:00-17:00
- Friday not working
- Saturday not working
- Sunday not working

How to read the diagrams:

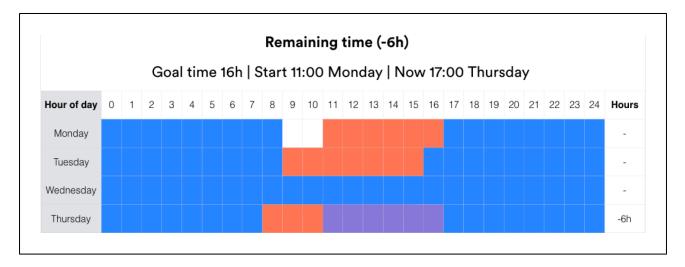
4





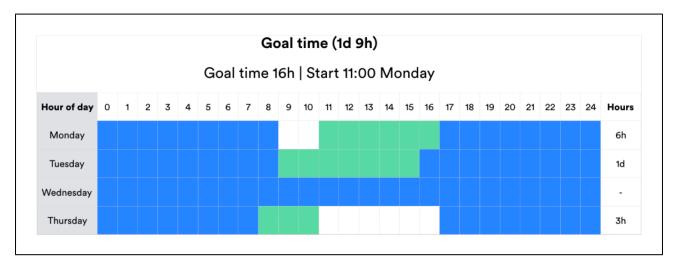


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#### Goal time

Jira Service Management calculates goal time similar to remaining time, but **now** is set to **start** of goal. Goal time doesn't take any future pauses into account.



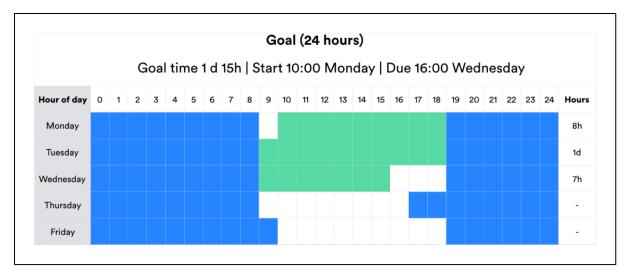
Regardless of the current time, the goal time is always calculated from the start time.

#### Partial days

In some situations, your Agents might see time displayed as something like 1d 26h. This happens when an starts and stops for a period of less than a day (for example, 7 hours in an 8 hour working day).

All partial days are accumulated as hours and minutes, but not converted to 1 day, because **the definition** of a day will change depending on the working hours set in the calendar.

For example, Request B has a goal time of 24 hours, with a start time of 10:00 on Monday, and working hours displayed in the diagram below. The goal is **1d 15h** and the is due at 16:00 on Wednesday.



It works like this:

- 1. From 10:00-18:00 on Monday is not a complete working day (according to the calendar). Total = 8 hours.
- 2. From 09:00-18:00 on Tuesday is a complete working day (according to the calendar). Total = 1 day.
- 3. From 09:00-16:00 on Wednesday ( due time) is not a complete working day (according to the
  - calendar). Total = 7 hours. 8 hours + 1 day + 7 hours = **1d 15h**

## Multiple targets

If the issue meets the criteria for multiple SLAs, trackers for each will appear. In addition, if the has had multiple cycles, you can hover over the symbols for more details on how the was met for that particular cycle. For example, in an that is measured based on when an issue is *Waiting for support*, you can see whether the was met each time the issue started *Waiting for support*.

#### Sorting

When you view a list of issues (in a queue or elsewhere), you can sort them by their remaining times. Ongoing issues are listed first, with the shortest time remaining at the beginning of the list. Completed issues are ranked last, but aren't sorted by the remaining time. 7

# **Reporting on SLAs**

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The following describes reports we recommend for teams that track SLA goals which metrics we think are useful and why, and how to create reports.

To view your service project's reports or create new ones, select**Reports**in your service project sidebar. *You must be an administrator to create or edit reports*.

- If your SLA goals use overlapping JQL filters, your custom SLA reports may be inaccurate. Read more about setting up SLA goals.
  - If your JQL filters use priorities, make sure these filters include all the priorities defined in the associated priority scheme.SeeAssociating priorities with projectsfor more details.

On this page

- Track success with percent of SLAs met
- Get insight into an agent's performance per SLA

# Track success with percent of SLAs met

By default, Jira Service Management includes an SLA goals report that shows how your team performed against its goals during the past week. This report shows the bigpicture.

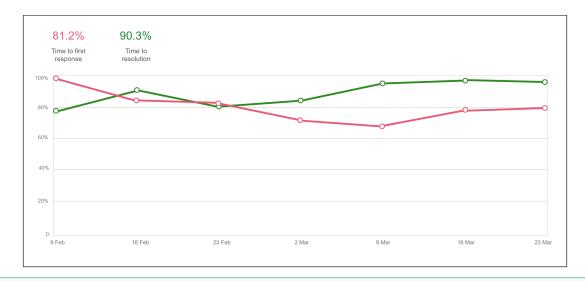
But, if you're interested in trends, want to see a different timeframe or are just more of a visual person, you may find creating a custom report more useful.

For example, you can create reports to see how well your team performs per request type. Create a report with the following series to drill into how your team is doing on each of your SLA goals for IT help requests:

- Series= Time to first response % met
- Label= Time to first response
- Filter by(advanced) = "Customer Request Type" = "Get IT help"
- **Series**= Time to resolution % met
- Label= Time to resolution
- Filter by(advanced) = "Customer Request Type"= "Get IT help"

You may find your team is speeding up on responding to customers with these requests but slowing down on resolving these issues. Looking at the details, you might see issues that are breaching your SLA goals feature words like "wi-fi" or "access".

Maybe you need to consider more reliable network hardware or you may need to train your organization about how to properly use the network. You may consider creating a knowledge base article that you can use to quickly answer these questions and increase the percentage of SLA goals met for resolving these requests.



Select a data point on the chart and view all of the issues that were used to calculate the % met metric. We calculate the total from issues that successfully met the goal and those that breached the goal, regardless if they are paused or ongoing.

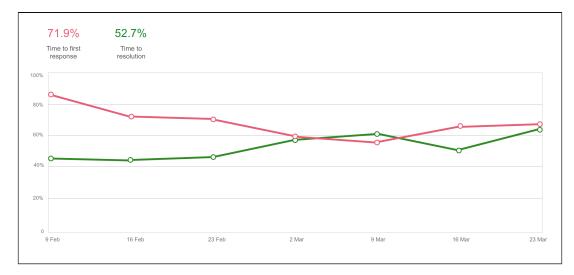
#### Get insight into an agent's performance per SLA

Line managers and other stakeholders may wish to view individual agent performance trends to help determine when agents are being stretched too thin or ensure work is being distributed appropriately.

Use the assignee field and make some reports for your agents to see how they are keeping up with their workload and where their strengths lie.

- Series= Time to first response % met
- Label= Time to first response
- Filter by(advanced) =assignee = agentUserName
- Series= Time to resolution % met
- Label= Time to resolution
- Filter by(advanced) =assignee = agentUserName

You may find that an agent is slow to respond but very quick to resolve requests. Working with the agent, you may be able to strategize how to better notify them about requests when they are raised.

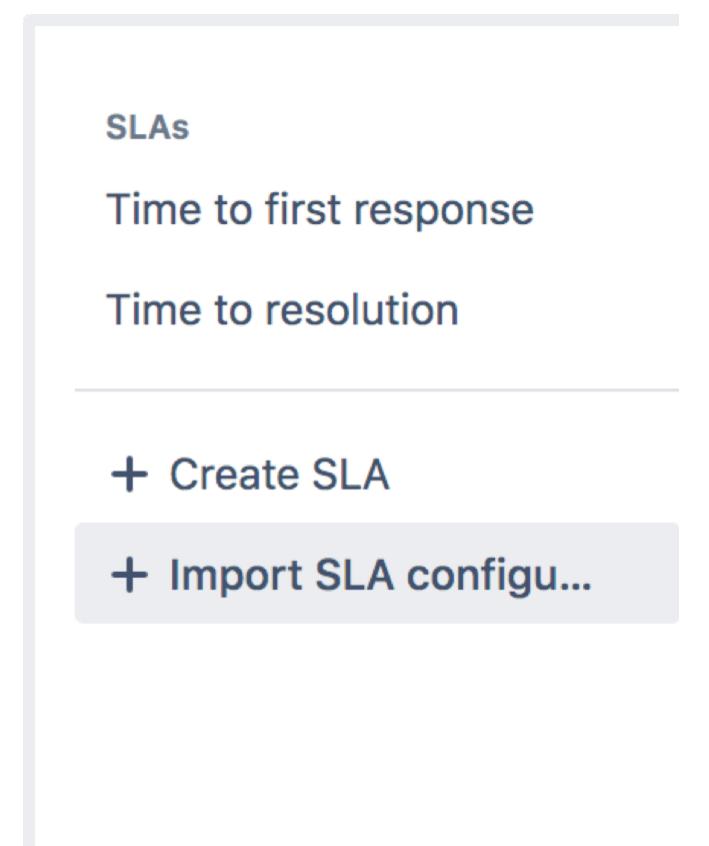


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# **Importing SLAs**

You can reuse SLAs that exist in another service project, in your own project. Importing SLAs will import the full configuration of your SLA including calendars, and allow you to use the same SLAs in your project.

SLAs are not linked, so if you make a change to them in the source project, you'd need to reimport the SLAs to see them in your new project.



## How to import an SLA configuration

Before you import your SLAs we recommend you take a look at how the SLAs are set up in the source project. Make sure you have the required elements in your project. For example, you'll need to have the same **Start**, **Pause**, and **Stop** conditions available, and the same request types available. These elements are what's used to calculate your SLA.

To import an SLA configuration:

- 1. Go to Project settings in the sidebar.
- 2. Select SLAs.
- 3. Select + Import SLA configuration.
- 4. Choose the project you want to import the SLAs from. If there's any errors or warnings that relate to your import, like duplicate SLA names, you'll be informed. You can fix some of these at a later date, or you can choose to stop the import, make the changes, and then reinitiate the import.
- 5. If you want to replace all existing SLAs, check the relevant box.
- 6. Select Import.

You've just imported the SLA and they're ready to go into your project. Note that these SLAs will not affect any closed issues, but if you have open issues their SLAs will be recalculated.

## How to fix your SLA import

When you import SLAs you'll be notified of any issues with your import that you'll need to fix. Here's a list of the issues and resolutions to help you get your project up and running, as soon as possible.

Jump to issue ...

- Goal triggers
- Goals
- Calendars
- Reports
- Request and issue types

#### Issues with goal triggers

The start, pause, and/or stop conditions used by the SLAs you're importing don't exist in the project you're importing them too.

#### How to resolve

Depending on your project and what you need to use the SLAs for, you might want to:

- · delete the condition from your imported SLA
- create the condition/s that's missing in your imported SLA.

#### Issues with goals

The start, pause, and/or stop conditions used by the SLAs you're importing don't exist in the project you're importing them too.

#### How to resolve

Edit the SLA's search filter and remove the incorrect criteria to fix it.

#### **Issues with calendars**

A calendar you're importing has no hours assigned to the working week.

#### How to resolve

Add working hours to the calendar, or delete the existing calendar and create another calendar. Learn more at Create and edit SLA calendars.

#### **Issues with reports**

There's an existing report that uses an SLA you're about to delete during your import.

#### How to resolve

Fix the report(s) affected and either:

- replace the SLA in the affected report
- delete the report.

#### Issues with request and issue types

The request and/or issue types used by the SLAs you're importing don't exist in the project you're importing too.

#### How to resolve

Either delete references to these in the SLAs, or create the missing request types/issue types and add them to the JQL or condition.

# Using JQL queries specific to SLAs

Jira Service Management includes specific JQL syntax that can help you sort through the details of your requests and issues, and make sure you're hitting your SLA goals. Read more about JQL syntax.

- If your SLA goals use overlapping JQL filters, your JQL queries may return unexpected results. Read more about setting up SLA goals.
  - If your JQL filters use priorities, make sure these filters include all the priorities defined in the associated priority scheme.SeeAssociating priorities with projectsfor more details.

On this page

- Find issues breaching your SLA goals
- Find issues that have paused, completed and are still running an SLA clock
- Find issues based on their SLA clock

# Find issues breaching your SLA goals

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There are two functions you can use to search for issues that are in a certain state of SLA goal-ness:

- breached() filtersout issues whose last SLA cycle has failed to meet its target goal
- everBreached() filters out issues that have failed to meet their target goal

For example, if you wanted to find all the issues in your project that have successfully completed your first-response goals, use the following query:

"Time to first response" != everBreached()

# Find issues that have paused, completed and are still running an SLA clock

There are three functions you can use to search for issues that are in a certain state of completion:

- **paused()**filters issues whose current SLA cycle is paused. This is determined by your SLA conditions. For example, you may pause an issue's SLA clock when the issue's status is set to "waiting for customer".
- **completed()**filters issues whose SLA cycle is complete, meaningthey've reached one of their stop events.
- **running()**filters issues whose current SLA clock is running, meaning they haven't yet reached one of theirstop events.
- withincalendarhours() filters issues whose SLA clock is running or not running according to the SLA calendar, *not* conditions.

The paused and running functions do not return issues whose SLA cycles haven't started yet.

For example, if you want to find all the issues that are paused while completing a time to resolution SLA cycle, use the following query:

```
"Time to resolution" = paused()
```

## Find issues based on their SLA clock

There are two functions you can use to search for issues that have a certain amount of time on their SLA cycle's clock:

- elapsed()filtersissues whose SLA cycle's clock meets a specified time condition sincethe ongoing SLA cycle'sstart event
- **remaining()**filters issues whose SLA cycle's clock meets a specified time condition before the issue will breach an SLA goal

For example, if you want to find requests that have been waiting for a first response for less than 10 min, use the following query:

"Time to first response" < elapsed("10m")

Or, if you want to find issues that will breach their resolution target within the next two hours, use this query:

"Time to resolution" < remaining ("2h")

# Example: creating a basic SLA

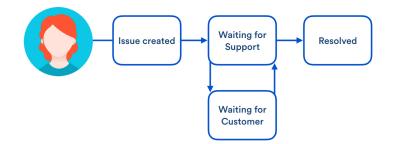
This example looks at how you might create a very basic SLA for a service project with a basic workflow:

## **Basic SLA configuration**

All highest and blocker issues must be resolved within 24 hours. You provide 24/7 support for certain customers (these issues are labeled with "24H"). You provide 9-5 support for all other customers, but you don't track SLA metrics for them.

Time to resolution					
Time will be measured between the <b>Start</b> an	d Stop	conditions below.			
Start	→	Pause on (Optional)		÷ ج	top
Begin counting time when		Time is not counted during		F	inish counting time when
Issue Created					Resolution: Set
	o botton	n, and assigned a time target based on th	ne first mat	tching	JQL statement.
	o bottom	n, and assigned a time target based on th	ne first mat Goal	tching	JQL statement. Calendar
Goals ssues will be checked against this list, top to Issues (JQL) priority = Blocker OR priority = Highest ANI				tching	
ssues will be checked against this list, top to			Goal	tching	Calendar

# Basic issue workflow



# Example: creating an SLA that doesn't track continuous time

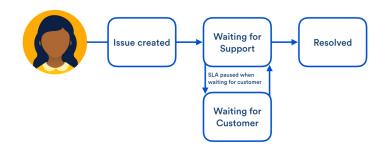
This example looks at how you might create a more complex SLA by pausing the time counter during the workflow:

# Example SLA configuration

Support wants to complete all issues within 40 hours. Time spent waiting on the customer doesn't count against the 40 hour goal.

Time for support on all issues						Edit SLA	Delete SLA
Time will be measured between the <b>Start</b>	and <b>Stop</b> c	onditions bel	ow.				
Start	Pause	on (Optional	1)	→	Stop		
Begin counting time when	Time is	Time is not counted during			Finish counting time when		
Issue Created	Statu	Status: Waiting for customer			Resolution	n: Set	
Goals							
Issues will be checked against this list, top	to bottom,	, and assigne	d a time target bas	ed on	the first mate	ching JQL sta	tement.
Issues (JQL)		Goal	Calendar				
All remaining issues		40h	Default 24	7 caler	ndar		

# Example issue workflow



# Example: creating an SLA with multiple cycles

This example looks at how you might create a more complex SLA by starting and stopping the time counter throughout the workflow. You might set up an SLA like this to track response times (for example, how long it takes your team to respond each time a customer updates an issue with more information). This example also illustrates how goals for different issue criteria can be tracked from a single SLA.

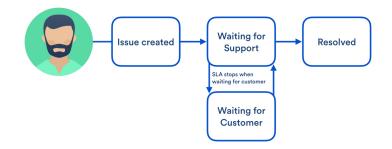
## Example SLA configuration

Support wants to respond to **Service requests** within two hours: this includes responding within two hours when the issue is created, as well as each time the issue is updated with more information from the customer.

All other issues have a response time goal of 24 hours.

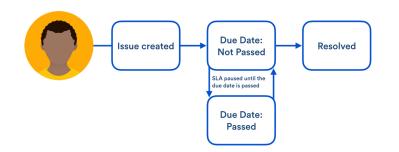
Time to respond					
Time will be measured between the Start and	Stop	conditions below.			
Start	<b>→</b>	Pause on (Optional)		→	Stop
Begin counting time when		Time is not counted duri	ng		Finish counting time when
Entered Status: Waiting for support					Entered Status: Waiting for customer
Issue Created					Resolution: Set
Goals					
Issues will be checked against this list, top to	bottor	m, and assigned a time targ	et based on the	first matchir	ng JQL statement.
Issues (JQL)			Goal	Calendar	
issuetype = "Service Request"			2h	Default 2	4/7 calendar

# Example issue workflow



For further information about how SLAs with multiple start and stop conditions appear in the SLA tracker, seeSetting up SLAs.

# Example: creating an SLA based on due date



Here's an example of how you might create a more dynamic SLA by pausing the time counter until a specified due date has passed. Set up an SLA like this if your team can't begin their work until a date in the future. For example, setting up a workstation when a new hire starts.

For this SLA to trigger, configure the **Due** field to display on the Issue type screen, and set the **Due** field when the issue gets created. Read Defining issue type field values to learn how to set this up.

#### Example SLA configuration

Support want to complete all hardware requests within 24 hours. They want to pause the SLA until they receive the hardware from their supplier (on the expected due date), then unpause the SLA when the due date has passed. All other issues have the same response time goal of 24 hours.

See the image below for how you could set up this SLA in Jira Service Management:

Time to close after due date pa	ssec	I			Edit SLA	Delete SLA
Time will be measured between the Star	t and	Stop conditions below.				
Start	→	Pause on (Optional)	→	Stop		
Begin counting time when		Time is not counted during		Finish coun	ting time wh	en
Due Date: From Empty		Due Date: Not Passed		Resolution	: Set	
Issue Created						
Goals Issues will be checked against this list, to	op to	bottom, and assigned a time target bas	ed on t	he first matcl	hing JQL sta	tement.
Issues (JQL)			Goa	I Calend	lar	
"Customer Request Type" = "Request r	new h	ardware (CTF)"	24h	Defau	lt 24/7 calen	dar
All remaining issues			24h	Defau	lt 24/7 calen	dar

# Setting up approvals

Some requests might need approval before your team can work on them. For example, a manager might approve leave requests or an IT manager might approve new system accounts. People don't need a Jira Service Management license to approve requests; they just have to be customers of the service desk project.

Pro tip: Fast-track the time it takes approvers to action pending requests, by inserting Request details and Approval buttons to your approval notifications template, if they aren't there already. See Managing service project notifications.

#### On this page:

- Setting up an approval step
- Best practice customizations
- Auto-approve requests
- Approval FAQs

/	
our approval	Get notifications
Approve Decline	Share
	Cancel request
G Comment on this request	<b>○</b> Shared with
activity	Elaine Goulding Creator
Request requires approval. 1 approval needed. Today 1:00 PM LATEST	Approvals
	1 approval needed
Details Today 1:00 PM	WAITING FOR APPROV
Description	🤠 Frank Smith
Business trip	-
Approvers	
Frank Smith	

Approvers view in the customer portal

#### How it works:

- 1. A customer creates a request on the customer portal, and selects the approver required by entering the user name or email address. Alternatively, you can hide the approver field from the customer, and set up a defined list of approvers who are required for that request type.
- 2. When the request enters the approval status the approver will receive an email.
  - a. If the Request details and Approval buttons variables **have been added** to the approval notifications template, they can view the full details of the request and take action from within the email.
  - b. If the Request details and Approval buttons variables **have not been** added to the approval notifications template, they can view and action the request through the service desk customer portal.
- 3. The approver can Approve or Decline the request and add an optional comment. The customer receives a standard notification when the request is transitioned out of an approval step, and when the approver leaves a comment.
  - a. If declined, the request moves to the next status in the workflow.
  - b. If approved, the request moves to the next status in the workflow, and an agent is able to work on it.

## Setting up an approval step

To set up an approval step on a workflow for your project, you need to have the Jira administratorglobal permission.

Here are the steps to get approvals working for your project:

- Jira Service Management creates the **Approvers** custom field automatically. If you want to use another field, make sure you have a user picker custom field available in your Jira instance and on the screens used by your project this is used on the approval step.
- Add the same user picker custom field to your request type if you want your customers to choose the approver this will provide the field for your request that allows an approver to be selected.
- Configure the approvals step on the workflow this allows you to decide if you require one or multiple approvers, and what happens when the approval is declined or approved.

Detailed steps onsetting up an approvalare available in the Jira administration documentation.

If you set up your approval step on a status with only two outgoing transitions, they will be used for Approve and Decline. In this case, agents can view requests that require approval, and can modify the approver if required, but they can't change the status until the approver has actioned the request.

If you set up the approval step on a status that has more than two transitions, an agent will be able to transition the request using any of the other transitions that aren't defined as the Approve or Decline transitions. This means the approval step is not enforced.

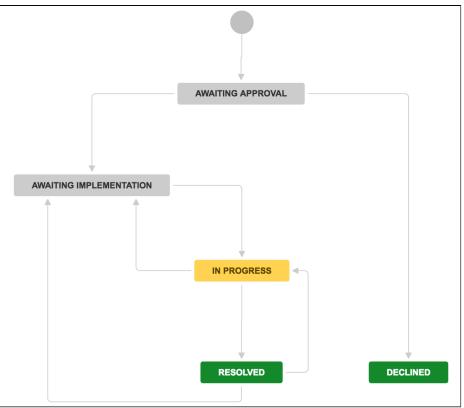
In certain situations, you may even want to add additional approval steps. For example, if a request needs to be approved by your manager first, and then approved by your finance department. Below are some examples of how you might use approvals:

Request type	Approval field	Approver	Notes
Office equipment	Visible on customer portal	Customer selects approver	The customer should select their manager for approval, as each customer could have a different manager.
Computer software	Hidden from customer portal	Set list of approvers	You set the list of approvers, this could be several members of your finance team.
Flights	Two approval steps, one visible, one hidden	First approver is selected by customer. Second approver is a set list	The customer can select the first approver, which could be their manager who approves the business case for their trip. The second approver is from a set list (maybe a finance team) that approves the payment of the flights.

#### Best practice customizations

You can make the approval process more awesome by making some simple customizations to your service project, and that means both you and your customers have a better experience.

- Make sure you make the name of your multi-user picker custom field, customer friendly on your request. And add a useful help tip, like how many approvers may be required. This will help ensure your customers provide all the correct information first time. Read up oncustomizing the fields of your requestsfor more information on how to do this.
- 2. When the approval of a request is declined, consider closing the request straight away. This means that if you're setting up a custom approval step, you should ensure that the transition you select for decline leads to a status in the Done category, and the transition has a post function to set the resolution status.



Workflow showing Declined transition leading to Declined status in the Done category

 It's good practice for your approvers to add a comment telling the customer why their request has been declined, and what their next steps should be; for example, the customer should open a new request and provide more information regarding their requirements.

#### Auto-approve requests

You can use automation rules to auto-approve requests that meet certain conditions. For example, you might auto-approve hardware requests that are under a certain amount.

To set up an auto-approval, create an automation rule with the THEN action auto-approve. For example, any hardware requests created for an item that costs less than \$20 are automatically approved, or any software requests over \$10,000 are automatically declined.

In the example below, we've set up a rule for our customer reimbursement requests, and if the Customer value is under \$50, the request is automatically approved.

WHEN	 IF	│>	THEN
🕅 Issue created	Q Issue matches "Customer value"		Auto-approve/de Approve

For more information, see Automating your service project.

#### Approval FAQs

Make sure you've added the user picker custom field that's used in the approval step on the workflow to your request type, and it's visible to customers. If it's still not showing, or it's not listed as a field you can add to your requests, check with your Jira administrator to ensure the field is still available on your project's issue screens.

A request will only show as closed when the resolution has been set, so the transition you use to decline the request needs to also set the resolution field. You can achieve this by adding a post function to the transition in your workflow that sets the resolution field of your request. You read up more on post functions on the administration advanced workflow page.

If you need to change the approvers on a request for any reason, you need to edit the user picker custom field that was added in the approval step. View the request in your service project, and the editable user picker custom field is displayed in the **People** section of the request. You can make any changes you need to make inline. Note that there is also an **Approvals** section that lists all approvers; however, you can't make any edits here.

/ Edit	Comment Approve More	Cancel request Admin	•		En Export -
letails				SLAs	
Туре:	Service Request with Approvals	n Status:	WAITING FOR APPR (View Workflow)	7h 55m 🕒 🖁	īme to first response vithin 8h 🗐
Priority:	↑ High	Resolution:	Unresolved	1d 7h 🕒 🕺	ime to resolution
Component/s:	None				vithin 1d 8h 🕮
Labels:	None				
				People	
Description				Assignee:	Unassigned
Business trip					Assign to me
				Reporter:	👴 Elaine Goulding
ttachments				Request participants:	None
	Cr Dro	op files to attach, or browse.		Approvers:	Frank Smith
L				Organizations: Votes:	None O Vote for this issue
ctivity				Watchers:	<ul> <li>O Start watching this issue</li> </ul>
				Wateries.	Court watering this issue
All Comr	Mork Log History	Activity		Approvals	
There are no cor	nments yet on this issue.			WAITING FOR APPR	1 approval needed
					G Frank Smith
					•
Click to ad	d comment			Service Desk request	
				Request type:	🛪 Travel request
				Customer status:	Waiting for approval
				Channel:	Portal

If the field isn't showing, you may need to get a Jira administrator to check the field is still available on your project screens.

In both your customer portal and your service project, you'll see a list of approvers in the **Approvals** section.

Help Center / Infrastructure Service Desk / ISD-6 3 day trip to Brisbane WATTING FOR APPROVAL		Infrastructure Service Desk / ISD-6     3 day trip to Brisbane	
3 day thp to Brisbarie Walling FOR APPROVAL		Edit Comment Approve More      Cancel request Admin	22 12
Your approval Approve Decline	<ul> <li>Get notifications</li> <li>Share</li> <li>Cancel request</li> </ul>	Details         Sorvice Request with         Status:         Minimal Coll Annual           Type:         Approvals         Unaw WorkStory         Viree WorkStory           Priority:         1 High         Resolution:         Unresolved           Componentic:         None         Labels:         None	SLAs 7h 55m ④ Time to first response webin 8h □ 1d 7h ⑤ Time to resolution within 1d 8h □
Comment on this request	Shared with	Description Buinoss trp Attachments	People Assignee: Unassigned Assign to me Reporter: Olimitation Request participants: None
Activity Request requires approval. 1 approval needed. Today 1:00 PM LATEST	Approvals 1 approval needed	Crop files to attach, or browse.  Activity	Approvens: Frank Smith Organizations: None Votes:  Vote for this issue Watchars:  Start watching this I
Details Today 1:00 PM Description Business trip	WAITING FOR APPROVAL	All Comments Work.og History Activity There are no comments yet on this issue.	Approvals WATTING FOR APPR 1 approval needed Trank Smith
Approvers Frank Smith		Citick to add comment	Service Desk request     Request type: X Travel request     Customer status: Waiting for approval     Channel: Portal

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there are pending approvals for the request.

als section, under the People section.

3 day trip to Brisbane warma for support	<ul> <li>Get notifications</li> <li>L<sup>4</sup> Share</li> </ul>	Piciti         Comment         Assign         More         Respond to customer         In progress         Workflow         Admin +           Details         Type:         Stanlow         Status:         Immerries/Indexem         Admin +           Approvals         Components         None         Components         (New Workflow -         Admin +           Priority:         1         High         Resolution:         Unresolved           Components:         None         None         Components         Unresolved	Image         Time to first response within 8h II         Time to resolution           1d         7h         Time to resolution         Time to resolution
Activity         Your request status changed to Walting for support. Today 1:09 PM LATEST         Image: Trank Smith approved this request. Today 1:09 PM         Your request was (Approved) and the status changed to Walting for support         Request requires approval. Today 1:00 PM         Details Today 1:00 PM	H Escalate         H Cancel request         Shared with         Elaine Goulding Creator	Labelin: None Description Business to p Attachments At	People Actignee:
Description Business trip Approvers Frank Smith		Citics to add comment	Service Desk reguest Request (type: → Trivel request Customer status: Waiting for support Channel: Portal Vew customer request @
When a request is approved, the <b>Appro</b> disappears, and details about the approv added to the Activity section, e.g Your re <u>APPROVED</u> and the status changed to for support.	val will be equest was	<ul> <li>When a request is approved</li> <li>The approved request displays approvals section, with bes approver's name.</li> <li>If multiple approvals are require approved when the minimum mapprovals is reached.</li> </ul>	ide the ed, the request is umber of

• The **Approvals** tab appears in the **Activity** section, and shows the all the activity involving approvals for the request.

Make sure you add descriptive titles and help text for the approvals field on your portal. This should include details on who the customer should add (such as their manager, or a member of their IT team), and how many approvers. Depending on your customer access settings, your customers may be able to select users or other customers from a drop-down list. Take this into account when adding your title and help text.

## Setting up service project reports

Reports allow teams to look at trends in their project such as the amount and types of requests received, and how they're resolved. We recommend that all teams use reports, especially those who use SLAs.Read more about reporting on SLAs.

To view or create reports, go to **Reports** from your service desk project's sidebar. You must be a project administrator to create or edit reports.

If the JQL filters in your reports use priorities, make sure these filters include all the priorities defined in the associated priority scheme.SeeAssociating priorities with projects for more details. On this page: **Compare requests** created vs requests resolved Default Jira Service Management reports Create custom reports Customer satisfaction report Requests created per channel report • Average resolution time by issue type report Regional trends report

## Compare requests created vs requests resolved

The most common way to measure your service team's health is by comparing how many requests come in with how many your team can resolve.

Resolution trends like this can answer questions like:

- Was this week's volume of requests a one-time occurrence or the start of a trend?
- Do we support a service that causes more issues than it's worth?
- Is our service project scaling with our business or do we need to add staff?

We include this report by default because it's the quickest way to check the health of your service project. You can find the other default reports in the **Reports** sidebar.

To compare requests created vs resolved:

- 1. From your service project, go to Reports.
- 2. Select the **Created vs Resolved** report in the sidebar.
- 3. In the dropdown field below the graph, choose the date range youre interested in.
- 4. Click on a number count in the table to drill down into individual requests.



You can also create a CSV report of the dataset by choosing Export CSV in the top right-hand corner.

## DefaultJira Service Management reports

Here arethe reports we include by default:

Report name	Details
Workload	The number of requests assigned to your agents
SLA goals	How your team is tracking towards each of the SLA goals you have set
Satisfaction	The average customer satisfaction rating for your team
Article usage	<ul> <li>The number of times your customers viewed knowledge base articles in the portal and found them helpful</li> <li>Learn which articles solved requests and how many views each got (as well as other</li> </ul>
Article	useful metadata) by clicking on the number count in the table below the graph. The number of requests resolved with and without knowledge base articles
effectivene ss	Learn which articles were shared by agents and which requests were resolved without an article (as well as other useful metadata) by clicking on the number count in the table below the graph.
Created vs resolved	Compares the number of requests created and resolved over time

Time to resolution	Compares the length of time taken to resolve requests of type or priority
SLA met v breached	Compares the number of requests that have met or breached an SLA goal
Resolution by component	Compares the resolution times for each component (for basic service desks only)
Incidents reports by priority	Compares the priority of incidents your customers have reported (for IT service desks only)

Besides the above, you can dig deeper. *Why* does your performance look like this? Create custom reports for your service desk and explore this question.

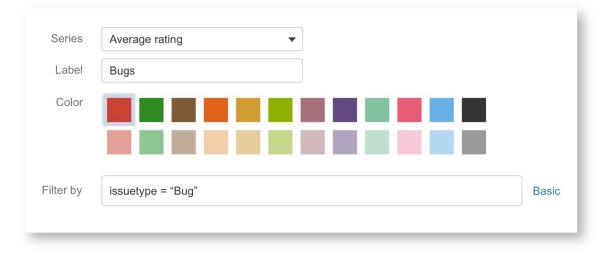
#### Create custom reports

Custom reports, where you define the series, help you to find out more about why your performance is the way it is.

Series are a set of data points used to make reports. For example, a series could be the number of requests received on day 1, 2, 3 and so on for the past week. This would compare the difference in the number of requests received on each day of the week. While they can point out trends on their own, they're more powerful when plotted together.

To create a custom report:

- 1. From your service project, go to Reports.
- 2. SelectNew report.
- 3. Choose a report name that you and your team will understand. For example, *High priority issues* would be a report that shows data on prioritized issues.
- 4. Click Add a series.
- 5. Fill in the following details: Series, Label, Color, and, optionally a filter.
- 6. Click Add.
- 7. Add more series to compare values.
- 8. Click Create.



Check out the recommended reports below to explore how reports benefit your organization. See examples of what series and their associated JQL filters may be useful to you. Read more about Advanced searching through JQL.

#### **Customer satisfaction report**

One of the best measures of performance is your customers' happiness. Jira Service Management comes with reports on customer satisfaction, but a custom report can help you find more trends. First, be sure to collect customer satisfaction information on your requests.Learn how to enable customer satisfaction feedback.

Use the average rating customer satisfaction series to see how your team performs. For example, you can use issue types to investigate sections of your business.

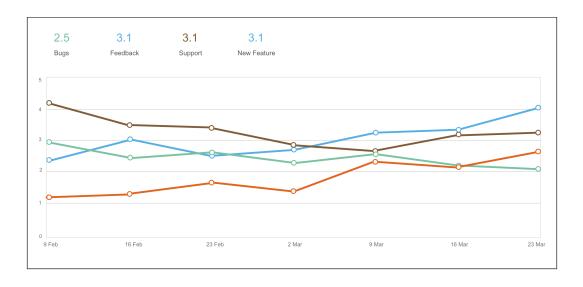
To create a report to see if your customers are satisfied:

- 1. From your service project, go to **Reports**.
- 2. Click New report.
- 3. Enter "Customer satisfaction" as the Name.
- 4. Add the following series, then click Create:
- Series= Average rating
- Label=Bugs
- Filter by(advanced) = issuetype= "Bug"
- Series= Average rating
- Label=Feedback
- Filter by(advanced) = issuetype = "Feedback"
- **Series**= Average rating
- Label= Support
- Filter by(advanced)= issuetype = "Support"
- Series= Average rating
- Label=New feature
- Filter by(advanced) = issuetype = "New feature"

You might find some interesting results. For example, your response to feature requests may please your customers, but, they aren't happy when they raise requests about billing. If you select a data point in the report you can look for feature words like "payment" or "credit card".

Details like these can expose your customers' pain points. Maybe your organization needs an easier to use billing form. Or perhaps you can be clearer about how much your products or services cost, or which credit cards you accept.

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#### **Requests created per channel report**

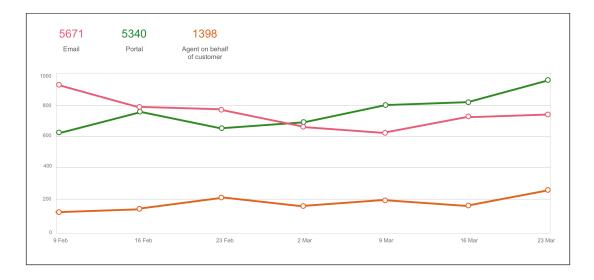
Monitoring how your customers submit requests can give you useful insights. Are you getting more requests from email than from your customer portal? You can create a report to see how many requests customers create in each channel.

To create a report to track requests sent by portal and email:

- 1. From your service project, go to Reports.
- 2. Click New report.
- 3. Enter "Requests created per channel" as the Name.
- 4. Add the following series and click Create:
- Series= Created
- Label =Email
- Filter by(advanced)= request-channel-type = email
- Series= Created
- Label =Portal
- Filter by(advanced)= request-channel-type = portal
- Series= Created
- **Label** = Agent on behalf of customer
- Filter by(advanced) = request-channel-type = Jira

The last series catches issues agents raise outside the portal.

How your customers request help might surprise you. You might find that your agents raise more and more requests on your customers' behalf. If so, you can find ways to direct customers to your portal or email channels. That way your agents have more time to resolve issues, rather than raise them.



#### Average resolution time by issue type report

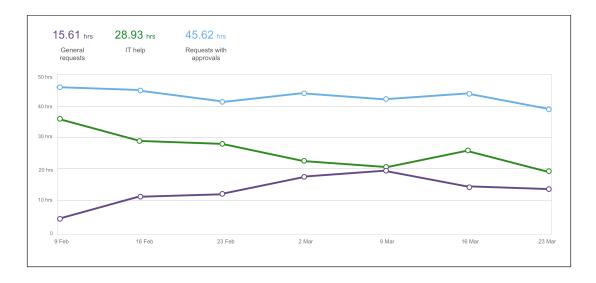
Jira Service Management tracks requests by time. The time it takes your team to resolve a type of issue can show trends in your teams' efficiency.

To create a report to see your average resolution by issue type:

- 1. From your service project, go to Reports.
- 2. Click New report.
- 3. Enter "Resolution by issue type" as the Name.
- 4. Add the following series and click Create:
- Series= Time to resolution (Avg.)
- Label= General requests
- Filter by(advanced) = "Customer Request Type" = "General requests"
- Series= Time to resolution (Avg.)
- Label= IT help
- Filter by(advanced) ="Customer Request Type" = "IT help"
- Series= Time to resolution (Avg.)
- Label= Requests with approvals
- Filter by(advanced) ="Customer Request Type" = "Request with approval"

You may find that IT help requests take more of your teams' time than general requests. Take into account how many IT help requests come through your service project. With this info, you can better divide your agents, and their time, to make your customers happier.

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#### **Regional trends report**

If you service more than one location, you can cut out noise by viewing your regional performance. Start by adding labels to requests, identifying and helping to sort them into regions.

For example, if your business operated in New York and Rio de Janeiro, your service project agents can add a location label to requests from each region.

To create a report to see how many requests come from each location:

- 1. From your service desk project, go to Reports.
- 2. Click New report.
- 3. Enter "Requests by region" as the Name.
- 4. Add the following series and click Create:
- Series= Created
- Label =New York
- **Filter by**(advanced)= labels = ny
- Series= Created
- Label = Rio
- **Filter by**(advanced)= labels = rio

If you see an increasing trend in one location, you may decide to shuffle around resources. Maybe you've opened a new location without a dedicated service project team member, and the new location finds it difficult to ramp up operations. Perhaps you need to send someone to provide training? Or, maybe there's a language barrier with your knowledge base. You may consider providing support articles in more than one language.

You might see the opposite, a decline in requests coming from one location. Are people abandoning your service project? Do you need to make it clear that the service project operates for all locations?

## **Default service project configuration**

Use this page as a reference for the default configuration of your service projects, including custom fields, permissions, and database tables.

- Custom fields
- Request types, issue types, and workflows
- Project permissions
- Security types
- Database tables

## Custom fields

If required, Jira Service Managementwill create the following custom fields:

Custom field	Туре	Notes
Viewport Origin	String value, storing the 'Portal' and 'Request Type' if a request was created through the customer portal.	Issues must have this field to be a service desk request.
Time to resolution	An SLA field, stored in JSON format.	This field stores SLA information for time until a request's resolution is set. See Setting up SLAs for more information.
Custome r Request Type	String value	Issues must have this field to be a service desk request.

## Request types, issue types, and workflows

The default issue types, request types, and workflows are different for each service desk project type. When you create a new service project, you can view these defaults by selecting Request types, Issues types, or Workflows from the **Project settings** menu.

## Project permissions

At installation time, Jira Service Managementcreates a project permission called **Jira Service Management agent access**. Users who require full access to service desk projects or functionality need to have this permission.

This page shows the permission configuration for a standard service projectpermission scheme.

- To see an overview of how permissions are set up for a service project, seePermissions overview.
- If you want to customize the permission scheme, seeCustomizing Jira Service Management permissions.
- If you run into permission-related problems, seeResolving Jira Service Management permission errors.

## Security types

Jira Service Management introduces the **Service Desk Customer - Portal Access**security type. A security type is a concept that allows restriction of users to certain permissions, examples of security types includepro ject roles and groups.

**Service Desk Customer - Portal Access** is a special security type that only applies to users while they are viewing the customer portal; it was created specifically to allow customers to use the customer portal without giving them access to the internal service project view and your other Jira applications.

## Database tables

When you set up Jira Service Management, the following tables will be created in your Jira application database.

#### **General Jira Service Management:**

- AO\_54307E\_AGENTSIGNAUTRES
- AO\_54307E\_ASYNCUPGRADERECORD
- AO\_54307E\_CAPABILITY
- AO\_54307E\_CONFLUENCEKB
- AO\_54307E\_CONFLUENCEKBENABLED
- AO\_54307E\_CONFLUENCEKBLABELS
- AO\_54307E\_CUSTOMGLOBALTHEME
- AO\_54307E\_CUSTOMTHEME
- AO\_54307E\_EMAILCHANNELSETTING
- AO\_54307E\_EMAILSETTINGS
- AO\_54307E\_GOAL
- AO\_54307E\_GROUP
- AO\_54307E\_GROUPTOREQUESTTYPE
- AO\_54307E\_IMAGES
- AO\_54307E\_METRICCONDITION
- AO\_54307E\_PARTICIPANTSETTINGS
- AO\_54307E\_QUEUE
- AO\_54307E\_QUEUECOLUMN
- AO\_54307E\_REPORT
- AO\_54307E\_SERIES
- AO\_54307E\_SERVICEDESK
- AO\_54307E\_STATUSMAPPING
- AO\_54307E\_THRESHOLD
- AO\_54307E\_TIMEMETRIC
- AO\_54307E\_VIEWPORT
- AO\_54307E\_VIEWPORTFIELD
- AO\_54307E\_VIEWPORTFIELDVALUE
- AO\_54307E\_VIEWPORTFORM

#### Jira Email Processor Plugin:

- AO\_2C4E5C\_MAILCHANNEL
- AO\_2C4E5C\_MAILCONNECTION
- AO\_2C4E5C\_MAILGLOBALHANDLER
- AO\_2C4E5C\_MAILHANDLER
- AO\_2C4E5C\_MAILITEM
- AO\_2C4E5C\_MAILITEMAUDIT
- AO\_2C4E5C\_MAILITEMCHUNK
- AO\_2C4E5C\_MAILRUNAUDIT

#### Automation:

- AO\_9B2E3B\_EXEC\_RULE\_MSG\_ITEM
- AO\_9B2E3B\_IF\_CONDITION\_CONFIG
- AO\_9B2E3B\_IF\_COND\_CONF\_DATA
- AO\_9B2E3B\_IF\_COND\_EXECUTION
- AO\_9B2E3B\_IF\_EXECUTION
- AO\_9B2E3B\_IF\_THEN
- AO\_9B2E3B\_IF\_THEN\_EXECUTION
- AO\_9B2E3B\_PROJECT\_USER\_CONTEXT
- AO\_9B2E3B\_RSETREV\_PROJ\_CONTEXT
- AO\_9B2E3B\_RSETREV\_USER\_CONTEXT
- AO\_9B2E3B\_RULE
- AO\_9B2E3B\_RULESET
- AO\_9B2E3B\_RULESET\_REVISION
- AO\_9B2E3B\_RULE\_EXECUTION
- AO\_9B2E3B\_THEN\_ACTION\_CONFIG

- AO\_9B2E3B\_THEN\_ACT\_CONF\_DATA
- AO\_9B2E3B\_THEN\_ACT\_EXECUTION
- AO\_9B2E3B\_THEN\_EXECUTION
  AO\_9B2E3B\_WHEN\_HANDLER\_CONFIG
- AO\_9B2E3B\_WHEN\_HAND\_CONF\_DATA

Jira Timed Promises Plugin:

- AO\_F1B27B\_HISTORY\_RECORD
- AO\_F1B27B\_KEY\_COMPONENT
  AO\_F1B27B\_KEY\_COMP\_HISTORY
- AO\_F1B27B\_PROMISE
- AO\_F1B27B\_PROMISE\_HISTORY

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# Using Jira applications with Confluence

## What is Confluence?

Confluence is a content creation and collaboration platform that connects teams with the content, knowledge, and coworkers they need to get work done, faster.Confluence spaces are great for creating and organizing rich content related to Jira projects using Confluence pages meeting notes, project plans, requirements documents, release notes, roadmaps, and more.

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## Why use Confluence with Jira?

Here are some of the reasons we think you might like to add Confluence to your Jira instance:

For a	You can
Bug	Create a knowledge base article to document a workaround for a bug.
New Feature	Create a product requirements document for a new feature.
General Jira Use Case	Document and collaborate with your team on an issue in Confluence.

And here are just a few of the things Confluence allows you to do:

- Collaborative commenting, especially through the use of @mentions
- Share pages
- Watch pages
- Form a 'team' network and let them know what you are doing via a status update
- Add images, picture galleries, videos, and more
- Enable various content macros

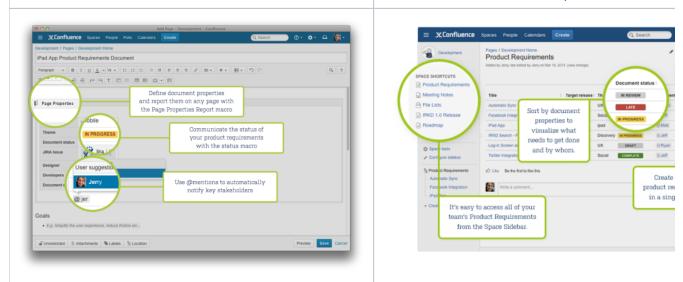
## Confluence features for Jira users

Here are some of the best features of Confluence that Jira users would benefit from.

#### **Define product requirements**

Many of our customers write product requirements using Confluence to plan new product features. The Requirements Blueprint helps development teams create, discuss, and organize their product require to link your product requirements in Confluence to

For more information, see Blueprints.



#### Team Calendars: Your Birds-Eye View of Jira

Surface everything your development team is working on in Jira to the teams that live in Confluence with Team Calendars.

- Timeline Calendar: View plans 3 months ahead of time.
- JQL Support: Track your versions, issues, and agile sprints.
- Date Ranges: Visualize issues over time to understand upcoming workload.

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To install this feature, please visitAtlassian Marketplace.

Insert issues on any Confluence page using the Jira Issues macro

Any Jira search result can be embedded in a Confluence page using the Jira Issues macrowith your choice of included fields and field ordering. With the Jira Issues macro, you can:

- Display atableofissues on your page, based on the results of a search usingJira Query Language (JQL) syntaxor a Jira URL.
- Display a single issue from the Jira site, or a subset of selected issues from your Jira search results.
- · Display acountof issues from the Jira site.
- Create anew issueon the Jira siteand display that issue on your page.

Insert JIRA Issue		
Search Create New Issue	Confdev new Search using any issue key, search URI	JAC  Search L, JIRA link, JQL or plain text
Recently Viewed	🗹 Key	Summary
	S CONFDEV-2362	Implement "What's New"
	CONFDEV-508	Add new shortcuts to RTE
	CONFDEV-3493	Existing table header row styling has been removed
	CONFDEV-1982	Migration has lost the table header styling
	I CONFDEV-11694	Unable to save or preview page with the "page index" macro on it
	✓ Display options	
	Display as 🔘 To	otal issue count
	Di	splay total number of issues as a link. E.g. 185 issues
	🖲 Ta	able
	Cu	ustomise your columns below.
	Columns to display key,	summary, type, created, updated, due, assignee, reporter, priority
Hint: type "Cmd+Shift+J" in the	editor to quickly access this dia	log. Insert Cancel

#### Autoconvert pasted issue links

Autoconvert makes producing reports of issues, backlogs, and tasks as easy as copy and paste. With Jira and Confluence connected, you can paste individualissues or Jira query URLs into the editor and watch them immediately transform into the Jira Issues macro.

#### **Automatic links**

Whenever anissue is mentioned in a Confluence page using the Jira Issuesmacro, Jira will create an issue link to that page for you, automatically.Specs to issues,knowledge basearticles to support tickets, project outlines to tasks it all works.

#### Gadgets

You can embed a Confluence activity stream or a Confluence page in Jira's dashboard. Likewise, Jira gadgets can be rendered on a Confluence page.

## Working on service projects

If you are an agent working on a Jira Service Management project, you're in the right place!

If this is the first time you have used Jira Service Management, check outGetting started for service agents for a brief introduction to your new workspace.

If you're familiar with Jira Service Management, use the search bar below to find any needed information.

## Search the topics in 'Working on service projects':

### Working on issues

## Tracking your work

## Serving your customers

- Work with issues
- Edit and collaborate on issues
- Attach files and screenshots to issues
- Keep on top of SLAs
- Set up dashboards
- Raise requests on behalf of customers

## Working with issues

In Jira Service Management, customer requests are automatically triaged into queues, so you can easily find the issues you need to work on. If you are ready to jump in and learn more about working on and managing customer issues, you're in the right place. This page introduces you to the concept of an issue. You can then learn more about creating, editing, and collaborating issues in the Next steps section.

### On this page:

- What is an issue?
- Next steps

What is an issue?

Different organizations use Jira applications to track different kinds of issues, which can represent anything from a software bug, a project task, to a leave request form.

In Jira Service Management, an issue is a packet of work that agents work on. In an IT service desk, it represents an incident, a change, and a service request, etc. For example, a customer request of "Our printer is not working" appears as follows in the customer portal:

Help Center / Charlie Travel Sydney / CTS-13 The printer is not working WAITING FOR SUPPORT	
Comment on this request	Ø Share
	Escalate
	Resolve this issue
Details 2 days ago 6:54 AM	Cancel request
Description Cannot seem to be able to print on the level 9 printer. There is a red light blinking.	Shared with
	Alana Grant Creator

As an agent, you will pick the issue up internally in the service desk project to work on and it will look like the following:

<sup>ts-13</sup> 'he prin	nter is not	working									Return to que
🖋 Edit	Q Comment	Assign	More 🖌	Respond to customer	In progress	Workflow ~	Admin 🗸			<	🕆 Export 🗸
Details									✓ SLAs		
Type: Compone		Service Re None	equest	Status: Resolution		WAITING FOR SUPP	(View Work)	flow)	-1d 4h 👖	Time to first response within 4h 📾	
Labels:		None							-1d 📕	Time to resolution within 1d	
Descript	ion								✓ People		
Attachm	ents								Assignee:	Unassigned Assign to me	
			କ ।	Drop files to attach, or br	owse.				Reporter:	Alana Grant	
Activity									Request participants:	None	
All C	omments W	ork Log Hi	story Act	ivity Transitions					Organizations:	None	
There are	e no comments	vet on this is	5110						Votes:	0 Vote for this issue	
		,							Watchers:	0 Start watching this	ssue
									<ul> <li>Service Desk requ</li> </ul>	lest	
Click	to add comme	nt						li	Request type:	③ Get IT help	
									Customer status:	Waiting for support	
									Channel:	Unknown	
									View customer req	uest	

The **History**tab of an issue records the following information: creator of the issue (this may be the same as the reporter, but can be distinct), changes to anissue field, attachment of afile, deletion of acomment, deletion of aworklog, creation or deletion of anissue link.

The**Activity**tabhas the same information, plus additional information, such as comments. However, this may load more slowly, especially if there has been a lot of activity on the issue.

## Next steps

Check out the following pages to reach issue ninja status:

- Creating issues and sub-tasks
- Attaching files and screenshots to issuesEditing and collaborating on issues
- Logging work on issues

## Attaching files and screenshots to issues

To share information with your customers, you can attach documents, images, and screenshots to your Jira Service Management issues. You can also restrict attachments to be viewed by your internal team only.

### On this page:

- Before you begin
- Add attachments
- Sort and manage attachments
- Access ZIP file contents
- Capture and attach screenshots

## Before you begin

A Jira admin must enable specific user permissions so that you can add attachments and screenshots to issues. The most common permissions are described below. To learn more about this check outConfiguring file attachments.

#### Jira admin set permissions

- You can attach files and screenshots if your Jira admin has enabled file attachments.
- You need the Create attachments permission in the appropriate projects.
- If your Jira admin has disabled thumbnails in Jira's attachment settings, the image files will appear as a list.
- If your Jira admin has disabled ZIP support in Jira's attachment settings, the attachments feature will not be available. You must download the file to your computer before accessing its individual files.
- To remove attachments from an issue, you need one of the following project permissions in that issue's project:
  - Delete own attachments to delete files that you have added to the issue.
  - Delete all attachments to delete files that anyone has added to the issue.
  - If you're using Google Chrome, Mozilla Firefox, or Internet Explorer 11, attaching screenshots relies on HTML5 compatibility. Safari is not supported.

## Add attachments

You can add files and images to any issue in your service desk project.

- 1. When working on an issue, drop a file onto the issue or select **browse**.
- 2. Add a comment with more information about the attachment (optional).
- 3. Share the file and comment with your customer, or with your internal team only.

ho	Add a	attach	nmen	ts										
Res	Style 🗸	в	I U	<u>A</u> ~	<u>↓</u> ° ∨	@ <b>~</b>	•	:=	1	<b>:</b> ~	+~	€,~		
	Check ou	ut these	e really	cool illu	istration	ns								
	Visual	Text												
				8				8				ŀ	8	D
ty	Ce	lebratior	n@2x.pn	g		Ed@2	x.png			Bul	lhorn@2	x.png		
														Share

When adding or editing a comment you can also select to add attachments. In this case, you'll see wiki markup added to the comment field. As soon as you share your comment, you'll see the file preview.

Some considerations for attached files:

- File formats: GIFs, JPGs, PNGs
- File names can't contain any of these characters: '\', '/', '\"', '%', ':', '\$', '?', '\*'.
- By default, the maximum size of any one file is 10MB, although this limit can be customized by your Jira admin.

#### Sort and manage attachments

The attachments section of the issue displays a list of options to sort, manage, and download attachments.

- 1. Select the three dots to the right of the attachments section to open the menu.
- 2. Reorder the attachments according to a selected criteria. This criteria will be applied to all issues in your project, and will be lost once you log out.
- 3. To remove attachments from the issue, select **Manage attachments** or hover over the attachment and select the bin icon.

	$\bigcirc$ Drop files to attach, or browse.	Sort By Name
		Sort By Date
		Ascending
A		Descending
Conference Speaker Guide Presentation: Temptres & Houre to Deck		Thumbnails
		List
		Download All
conference_speaker_guide.0		Manage Attachments
1 minute ago 240 kB		

### Access ZIP file contents

You can view the contents of a ZIP file (including '.zip' or '.jar' file name extensions) in the attachments section.

- 1. Click the three dots and select List.
- 2. In list view, click the arrow icon in front of the zipped file's name to view and download its individual files.
- 3. To download the entire zip file, click **Download Zip**.

 Attachments Drop files to attach, or Overcoming-Obstacles (1).zip Overcoming Obstacles/Overcoming Obstacles.svg MACOSX/.../.\_Overcoming Obstacles.svg Overcoming Obstacles/Overcoming Obstacles@2x.png MACOSX/.../.\_Overcoming Obstacles@2x.png MACOSX/.\_Overcoming Obstacles Download Zip

#### Capture and attach screenshots

You can capture a screenshot to the system clipboard and paste it directly onto an issue.

- 1. Capture a screenshot using your system keyboard shortcut.
- 2. Paste the image from your clipboard onto the issue using your system keyboard shortcut or right-click menu. The **Attach screenshot** dialog will display.
- 3. Enter a unique filename for each file.
- 4. Select Upload.

# **Creating issues and sub-tasks**

The building blocks of any project are issues. Issues act as the packets of work that travel through their respective workflows within their projects, until the work is completed. An issue may also have sub-tasks that can be assigned and tracked individually, as well as issue level security to restrict the issue to select members of your team.

On this page, you'll learn more about creating and converting issues and sub-tasks, and setting issue level security. If you are looking to import multiple issues (and sub-tasks) using a CSV file, you can find the import process explained in more detailhere.

## Before you begin

You need the Create Issue project permission for the issue's relevant project.

## Creating an issue

- 1. SelectCreateat the top of the screen to open theCreate Issuedialog box.
- 2. Select the relevant Project and Issue Type in the Create Issuedialog box.
- 3. Type a**Summary**for the issue and complete any appropriate fields at least the required ones that are marked by an asterisk.
  - If you want to access fields that are not shown in this dialog box, or you want to hide existing fields:
    - a. Select the **Configure Fields**button at the top right of the screen.
    - Select Custom and select the fields you want to show or hide by selecting or clearing the relevant check boxes respectively, or selectAllto show all fields.
       When you next create an issue, these selected fields will be displayed.
- Optional: To create a series of similar issues with the same Project and Issue Type select the Create another checkbox at the bottom of the dialog. Depending on your configuration and the values you may have specified when creating previous issues, some of the fields in the new Create Issue dialog
- box may be pre-populated. Make sure you check they're all correct before creating the next issue. 5. When you are satisfied with the content of your issue, select the **Create** button.

## Cloning an issue

Cloning an issue lets you quickly create a duplicate of an issue within the same project. The cloned issue contains most of the same details stored in the original issue e.g. Summary, Affects Versions, Components, etc. Other details are not cloned e.g. Work Log, Comments, Issue history, and Links to Confluence pages. The issue status also returns to the first step of the corresponding workflow, and the resolutions are cleared. The cloned issue can be linked to the original issue, but does not have to be.

Note that, if you don't have the Modify reporter permission, the clone issue will be created with Reporter as the current user cloning the issue.

- 1. Open the issue you wish to clone.
- 2. SelectMore> Clone.TheClone issuescreen will appear.
- 3. You can edit the clone issue's **Summary** if you want.
- 4. If applicable to the issue you are cloning, you can also select from these options:
  - Clone sub-tasks to copy existing sub-tasks
  - Clone attachments to add any existing attachments
  - Clone links to add any existing linked issues
  - Clone sprint values to copy across the issue's current and closed sprint values
- 5. Select Create.

## Creating a sub-task

A sub-task can be created for an issue to either split the issue into smaller chunks, or to allow various aspects of an issue to be assigned to different people. If you find a sub-task is holding up the resolution of an issue, you can convert the sub-task to an issue, to allow it to be worked on independently. If you find an issue is really just a sub-task of a bigger issue, you can also convert an issue to a sub-task.

#### On this page:

- Before you begin
- Creating an issue
- Cloning an issue
- Creating a sub-task
- Converting a subtask to an issue
- Converting an issue to a sub-task
- Restricting access to an issue

(i) You can only create sub-tasks if your administrator hasenabled sub-tasks, and has added the subtask issue type to the project'sissue type scheme.

- 1. Navigate to the issue you would like to be the parent issue of the sub-task you are about to create.
- 2. SelectMore >Create sub-task. You will see theCreate sub-taskscreen.
- 3. Fill in the details as needed, and then select Createat the bottom of the page.

Note that when you create a sub-task, the following values are inherited from the parent task:

- project
- issue security level
- sprint value, if any (only for Jira Software issues)

Tip: You can customize the **Create sub-task**screen to show fields you use most often. To do this, select**Conf igure fields** at the top right corner of the dialog, and use the **All**and **Custom** links to switch between the default screen and your custom settings. Your changes are saved for future use.

#### Converting a sub-task to an issue

- 1. Navigate to the sub-task issue you would like convert.
- 2. SelectMore >Convert tolssue.
- 3. In the Step 1. Select Issue Typescreen, select a new issue type (i.e. a standard issue type) and select Next.
- If the sub-task's current status is not an allowed status for the new issue type, the Step 2. Select New Statusscreen is displayed. Select a new status and selectNext.
- 5. In the **Step 3. Update Fields** screen, you will be prompted to enter any additional fields if they are required. Otherwise, you will see the message 'All fields will be updated automatically'. Select **Next**.
- 6. The Step 4. Confirmation screen is displayed. If you are satisfied with the new details for the issue, select Finish.
- 7. The issue will be displayed. You will see that it is no longer a sub-task, that is, there is no longer a parent issue number displayed at the top of the screen.

#### Converting an issue to a sub-task

- 1. Navigate to the issue you would like to convert.
- 2. SelectMore >Convert to sub-task.
- 3. In the Step 1. Select Parent Issue and Sub-Task Typescreen, type or select the appropriate parent issue type and the new issue type (i.e. a sub-task issue type). SelectNext.
- 4. If the issue's current status is not an allowed status for the new issue type, the **Step 2. Select New Status**screen is displayed. Select a new status and select**Next**.
- 5. In the **Step 3. Update Fields** screen, you will be prompted to enter any additional fields if they are required. Otherwise, you will see the message 'All fields will be updated automatically'. Select **Next**.
- 6. The Step 4. Confirmation screen is displayed. If you are satisfied with the new details for the issue, select Finish.
- 7. The issue will be displayed. You will see that it is now a sub-task, that is, its parent's issue number is now displayed at the top of the screen.

**Note**: You will not be able to convert an issue to a sub-task if the issue has sub-tasks of its own. You first need to convert the issue's sub-tasks to standalone issues; you can then convert them to sub-tasks of another issue if you wish. Sub-tasks cannot be moved directly from one issue to another you will need to convert them to standard issues, then to sub-tasks of their new parent issue.

#### Restricting access to an issue

When creating (or editing) an issue, you can restrict access to that issue to members of your team who are part of a chosen security level. To be able to set the security level for an issue, your administrator must add you to the appropriate security level, and also grant you the Set Issue Security' permission for the appropriate projects.

1. Create/edit the relevant issue.

- 2. In the **Security Level**drop-down field, select the desired security level for the issue. You will only see the security levelsyou belong to.
- 3. Save the issue. It is now only accessible to members of the specified security level. Users who are not members of this security levelwill not be able to access that issue, or see it in any filters, queries, or statistics.

## Creating issues using the CSV importer

If you have the **Create Issue**project permission and the **Bulk Change**global permission for the relevant projects, you can create issues in bulk by using a comma-separated value (CSV) file. To find out what permissions you have, contact your Jira admin.

CSV files are text files that represent tabulated data and are supported by most applications that handle tabulated data, such as Microsoft Excel, Numbers, and databases.

Jira's CSV importer (also CSV file import wizard) allows you to import data from external systems that export their data in a tabulated format. Also, you can create your own CSV file to bulk create or update issues.

Jira admins have access to more advanced features for importing issues. If you are planning to import a lot of issues from an external application, contact your Jira admin.

Read more about advanced import functionalities for Jira administrators inMigrating from other issue trackers andImporting data from CSV

There are two main steps to use the CSV importer:

- 1. Preparing your CSV file
- 2. Running the CSV import wizard

## Preparing your CSV file

The CSV importer assumes that your CSV file is based off a default Microsoft Excel-styled CSV file:

- Fields are separated by commas
- Any content that must be treated literally, such as commas, new lines/ (e.g."carriage returns"), or angle brackets, are enclosed in quotes

For Microsoft Excel and OpenOffice, you dont need to place cell values in quotation marks. These applications do this automatically.

## **CSV** file requirements

In addition to being "well-formed", your CSV file should meet the following requirements:

- The file must have a header row. The CSV Importer uses the header row to determine how to map data from the CSV file's second row and beyond to Jira fields.
- The header rowmustcontain the Summary column for the issues summary.
- The header rowshouldnt contain any punctuation, except for commas separating columns or fields. Otherwise, the import may work incorrectly.
- Commas as column or field separators cant be omitted throughout the file.

```
Summary, Assignee, Reporter, Issue Type, Description, Priority
"Test issue", admin, admin, 1, ,
```

```
Summary, Assignee, Reporter, Issue Type, Description, Priority "Test issue", admin, admin, 1
```

#### On this page:

- Preparing your CSV file
- Running the CSV file import wizard
- Tips for importing CSV data into issue fields

## Encapsulating Jira data structure in your CSV file

To import issues correctly, you should know how to encapsulate different data in your CSV file. In this way, Jira will be able to process them and create or update issues correctly.

Here, youll find tips on and examples of building a CSV file with multiple-line fields, special characters, multiselect fields, and many more.

Learn more about the specifics of issue fields in Tips for importing CSV data into issue fields.

Capturing data that spans multiple lines

Use double quotation marks (") in your CSV file to capture data that spans multiple lines. For example, during the import, Jira will treat the following as a valid CSV file with a single record:

```
Summary, Description, Status
"Login fails", "This is on
a new line", Open
```

Treating special characters literally

Put the text with special characters in double quotation marks ("") to treat these characters literally. Once imported to Jira, these special characters will be stored as part of Jira's field value. Examples of special characters include carriage returns/enter characters, commas, etc.

If the text contains words or phrases in quotation marks and you want Jira to treat these quotation marks literally, put these words or phrases in another pair of quotation marks.

- Your CSV file may contain a value like: "Clicking the ""Add"" button results in a page not found error". Pay attention that the name of the button is put in two pairs of quotation marks.
- After the import, Jira will store this value as: Clicking the "Add" button results in a page not found error. The name of the button is stored in one pair of quotation marks, as it should be.

Aggregating multiple values into single issue fields

You can import multiple values into an issue field that accepts multiple values. For example, **Fix (for) Version**,**Affects Version**,**Component**,**Labels**. To do this, your CSV file must specify the same column name for each value you wish to aggregate into the mapped issue field. The number of column names must match the maximum number of values to be aggregated into the mapped field.

For example:

```
IssueType, Summary, FixVersion, FixVersion, FixVersion, Component, Component
bug, "First issue", v1, , , Component1,
bug, "Second issue", v2, , , Component1, Component2
bug, "Third issue", v1, v2, v3, Component1,
```

In this example, the **Component**field of the second issue and the**Fix Version** field of the third issue will generate multiple values in appropriate issue fields after the import.

Be aware that only a limited number of issue fields support multiple values. The CSV importer will not allow you to import aggregated data into issue fields that only support a single value.

## Importing issues into multiple projects

You can import issues from your CSV file into different projects through a CSV file import. To do this:

2

- The CSV file must have two additional columns with the exact names of Project Name and Project Key. These are the mandatory values required for the correct import of issues from the CSV file to specific Jira projects.
- Ensure that every issue represented in your CSV file contains the appropriate name and key in these columns for theprojects to which they will be imported.

If you arent a Jira administrator, you wont be able to map the fields Project Name and Project Key to Jiras fields. Youll need to select different fields for mapping. Learn more about this in Ti ps for importing CSV data into issue fields.

#### For example:

```
IssueType, Summary, Project Name, Project Key
bug, "First issue", Sample, SAMP
bug, "Second issue", Sample, SAMP
task, "Third issue", Example, EXAM
```

In this example, the first and second issues will be imported into the "Sample" project (with project key "SAMP") and the third issue will be imported into the "Example" project (with project key "EXAM"), assuming you match the "Project Name" and "Project Key" fields in your CSV file to the **Project name**and**Project key** issue fields respectively during the CSV file import wizard.

#### Importing work log entries

Your CSV file can contain work log entries. You need to use seconds to track the time spent. For example:

```
Summary,Worklog
Only time spent (one hour),3600
With a date and an author,2012-02-10 12:30:10;wseliga;120
With an additional comment,Testing took me 3 days;2012-02-10 12:30:10;wseliga;259200
```

If you arent a Jira administrator, you wont be able to map the Worklog field to Jiras field. Youll need to select different fields for mapping. Learn more about this in Tips for importing CSV data into issue fields.

### Importing to multi select custom fields

Your CSV file can contain multiple entries for the one multi select custom field. Heres an example showing how to populate the multi select custom field with multiple values:

```
Summary,Multi Select,Multi Select,Multi Select
Sample issue,Value 1,Value 2,Value 3
```

### Importing cascading choice custom fields

You can import values to a custom field with cascading choice by using the following syntax:

```
Summary, My Cascading Custom Field
Example Summary, Parent Value -> Child Value
```

).

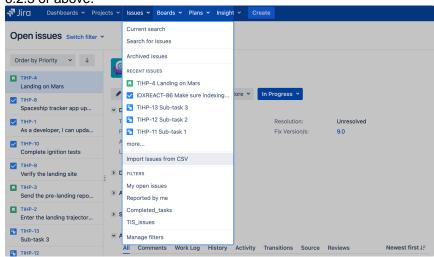
#### The -> separator allows you to import the hierarchy.

 Currently Jiradoes not support importing multi-level cascading select fields via CSV (
 JRASERVER-34202 - Allow CSV import to support Multi-Level Cascading Select plugin fields GATHERING INTEREST Running the CSV file import wizard

If your Jira installation has existing data, you should back it up before proceeding with the following steps.

To import a CSV file with your Jira issues:

Select Issues > Import Issues from CSV toopen theBulk Create Setup page. If you do not have the
optionImport issues from CSV, your Jira admin must update the Jira Importers plugin to version
6.2.3 or above.



2. On the Bulk Create Setuppage, select yourCSV Source File.

Leave the **Use an existing configuration file** checkbox cleared if you do not have a configuration file or if you want to create a new configuration file. Configuration files specify a mapping between column names in your CSV file's header row and fields in Jira.

		•	•	•	•	
Bulk Create S	etup	Setup	Settings	Map fields	Map values	
Setup						
To import issues in bu	lk, you need to provide the data in a (	CSV file format.				
CSV Source File*	Choose file No file chosen					
	The maximum file upload size is 1,953.67 ME					
🗆 Use an existin	ng configuration file					
If you have used	this importer before, you may have saved the	configuration you used				
You can use that	configuration again to save time.					
	Next Back					

- If you select Use an existing configuration file checkbox, you will be asked to upload an Existing Configuration File. If you don't select this option, Jira will automatically create a configuration file that you can use for further imports.
- 3. Select Nextto proceed to the Settings step of the CSV file import wizard.
- 4. On the Settings page, populate the required fields and select Next.
  - Import to Project: select a project where you want to create or update issues.
  - File encoding: the type of character encoding in your CSV file.
  - Delimiter: a character that separates columns or fields in your CSV file. If your delimiter is a tab, specify it as /t.
  - Date format: the format of dates in your CSV file.

Settings			Setup	Settings	• Map	• Map
<b>-</b>					fields	values
Settings						
Import to Project*	Teams in the Space	~				
File encoding	UTF-8	~				
Delimiter*	r					
Date format*	Please use \t to have a Tabulator character					
Date format*	dd/MMM/yy h:mm a (e.g. dd/MMM/yy h:mm a) Please specify the format that dates are sto	ored in	n the CSV file. Please	e use syntax val	id for SimpleDate	eFormat.

5. On the Map fields page, map the fields from your CSV file to issue fields in the selected project. If you also want to map values of these fields, select the Map field value checkbox. After you finish, select Next.

/lap fields		Set p	Settings.	Wap Heida	Map values
dap fields					
• Feese role: A Are Summery Let	ki mapping tana	quine to anabie import			
s of the OSV fields form part. From so a civilizer on the next screen.	they yee year	of the those converted (	o tektori an	. Ya. eta op	22- <b>2</b> § 1125
C27 T #8		And Date			Here taski value
A suggests on your to an interval of ong sale of	+	Baltimenthis Sold		¥.	
Creator My Frankly Koledy	,	Ber Unity day to d			
tssi o Type na 1840	~	Don't respiritis field		×	0
Reporter Recorder underen	-	Built map this field.		×	
Statue nago la carago a naj	->	Don't republic field		•	D
89 mary The common borness of	+	Don't may this field		×	
Hert Deck					

() Make sure you map the **Summary** field. Its mandatory for creating or updating an issue.

The **Dont map this field** option means that you choose not to map a field from the CSV file to any issue field in the project. As a result, after the import, you wont see the unmapped fields in issues.

Use this option if:

- You cant find the right issue field for mapping. Learn more about this case in Missing fields for mapping when importing issues through CSV in Jira.
- You dont have a Jira administrators permission to map a field. Learn more about such fields in Tips for importing CSV data into issue fields.
- 6. On the **Map values** page, you can check and reset the target values of the issue fields for which youve selected the **Map field value** checkbox on the previous page. If you havent selected the checkbox, proceed to the next step.

#### Example

Your issue types may have a CSV field value of **Feature Request**, which you may want to map to the issue type field value **Feature**.

- On this page, youll see all values of all fields for which youve selected the Map field value checkbox on the Map fields page.
  - If you want a field to be empty after the import, select **Import as blank** in **Target value** in **Jira**.

- If you havent chosen to map values for username-based fields like Reporter and Assig nee, usernames from the file will be automatically mapped to existing usernames (lowe rcase) in Jira.
- If you import descriptions with line breaks, dont select the **Map field value** checkbox for the **Description** field. Otherwise, Jira may remove line breaks during the import.
- Regardless of whether or not you select the **Map field value**checkbox, Jira will automatically create usernames based on the data in your CSV file if they have not already been defined in Jira.
- 7. You may want to check your configuration for errors or warnings before running the import. To do it, select **Validate**. If your file contains warnings or errors, we recommend fixing them and uploading the file again. To learn more, download the detailed log of the validation.
  - If you need to import another CSV file with the same (or similar) settings to what you used through this procedure, select the save the configuration link to download a CSV configuration file, which you can use at the first step of the CSV file import wizard. For example, you may want to use the same field or value mappings for the next imports.
- 8. When youre sure about the correctness of data in your CSV file, select **Begin Import**. The importer will display updates as the import progresses, then a success message when the import is complete. After the import is completed, you can check the created or updated issues in Jira. Also, you can download the detailed log of the import or save the configuration for future use.
- *9.* Congratulations! You have successfully imported your CSV data into Jira! If you have any questions or encounter any problems, contact Atlassian support.

lssue field	Import notes
Project	CSV data is imported on a per-project basis. You can either specify an existing projects as the target, or the importer will automatically create new projects during the import.
Summ ary	This is the only required field.
Compo nent(s)	Import issues with multiple components by entering each component in a separate column.
Affects Versio n(s)	Import issues with multiple Affects Versions by entering each version in a separate column.
Fix Versio n(s)	Import issues with multiple Fix Versions by entering each version in a separate column.
Due Date	Make sure to use the date format specified on the second step of the CSV import wizard: ${\rm dd}$ /MMM/yy h:mm a.
lssue Type	If not specified in your CSV file, imported issues will be givem the default (i.e. first) Issue Type as specified in your Jira system. For more information, see Defining issue type field values.
	You can also create new values on the fly during the import process.
Labels	Import issues with multiple labels by entering each label in a separate column or by putting all labels in one column, deliminated by a space.
Priority	If not specified in your CSV file, imported issues will be given the default (i.e. first) Priority as specified in your Jira system. For more information, see Defining priority field values.

Tips for importing CSV data into issue fields

Here are some helpful tips on importing data from your CSV file into specific issue fields:

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	You can also create new values on the fly during the import process.
Origina I Estima te	Set this value as a total number of seconds.
Remai ning Estima te	Set this value as a total number of seconds.
Users	<ul> <li>Choose to automatically create Jira users for any values of the Assignee or Reporter field.</li> <li>Users will be created as active accounts in Jira. Users should receive emails with passwords for the first-time login to Jira.</li> <li>To create full names for users with no real names, Jira will take the part of their email addresses before the @ character.</li> <li>If you are using external user management system, Jira users wont be created during the import. Instead, the import wizard will give you a list of any new users that need to be created. You will need to create the users in your external user repository before running the import.</li> <li>If you have a user-limited license (a personal license), and the number of users is larger than the limit, then the import will be stopped. Youll see the list of users that can't be created.</li> <li>If Assignee and Reporter aren't mapped, no usernames will be created.</li> </ul>
Other fields	If you wish to import any other fields, you can choose to map them to one or multiple Jira custom fields. If your custom fields don't exist yet in Jira, the importer can automatically create them for you. If your custom field is a date field, please use the date format specified n the second step of the CSV import wizard: dd/MMM/yy h:mm a.
	<ul> <li>bu arent a Jira administrator, you wont be able to map the following fields in the CSV file to their ivalents in Jira:</li> <li>Attachments</li> <li>Comment Body</li> <li>Date Created</li> <li>Date Modified</li> <li>Date Resolved</li> <li>Project Key</li> <li>Project Name</li> <li>Project Type</li> <li>Resolution</li> <li>Status</li> <li>Worklog</li> </ul>
To opti	complete the field mapping, select either any other available field or the <b>Dont map this field</b> on.

## **Known issues**

In case your issues get created but the multi-select fields are not populated, contact your admin. They can rerun the import by using Jira admin tools.

CSV import may run incorrectly for a project with only one issue type and a required custom field with context. For details and the workaround, see JRASERVER-41584.

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## Editing and collaborating on issues

Resolve your customer requests more efficiently with these tips and tricks for editing and collaborating on Jira Service Management issues.

In addition to learning about the basics of editing and commenting on an issue, you can refer to this page for help with:

- Using the wiki toolbar to make your comments and descriptions pop
- Sharing issues with your team and adding request participants
- Keeping track of issues with labels and issue watchers

#### On this page:

- Attaching files and screenshots
- Collaborating on issues
- Editing issue details
- Commenting on issues
- Canned responses for comments
- Formatting text with wiki markdown
- Tracking issues with labels
- Watching and voting for issues
- Reordering subtasks on an issue

## Attaching files and screenshots

If your administrator has enabledfile attachments, you and your customers can attach files and screenshots to issues you're working on. SeeAttaching files and screenshots to issues for more information.

## Collaborating on issues

You can easily keep your team informed by using the **Share** (S)button to share an issue with other Jira users. If your administrator has enabled anonymous access, you can also share issues by entering the email address of a non-Jira user.

If you want to invite members of your team to help you work on an issue, you can mention them by typing@ and their username in the issue description or comment. People already involved in the issue, like the reporter or a commenter, will be listed first in the user list so you can select them faster. Note that the users you mention will be notified once you save the issue description or comment. In Jira Service Management, your administrator can also enable Request participants, which will appear as another issue field. You can add other agents and customers from your service desk project to help you resolve the original customer's request.

## Editing issue details

#### What permissions do you need?

To edit an issue, you need the **Edit Issue**project permissionfor the issue's relevant project. If you do not have this permission, please contact your administrator.

To edit an existing issue, select**Edit**to open theEdit Issuedialog box and modify the issue details. If you want to change the fields you need to edit, select**Configure Fields** > **Custom**and choose the fields you want to show or hide. Select**Update**to save your changes.

Commenting on issues

(i)

#### What permissions do you need?

To add comments to an issue, i.e. to see the **Comment** button, you must have both of the following project permissions for the issue's relevant project:

- Browse Project permission to view the issue to be commented on
- Add Comments permission to add a comment to the issue.

Note that you automatically become awatcherof the issues that you comment on. You can disable this via the **Preferences > Autowatch**option in yourprofile.

What	How
Add a comm ent	Choose <b>Click to add comment</b> and type your comment for the issue.
Delete a comm ent	Select <b>Delete</b> at the bottom of the comment. Confirm that you want to remove this comment from the issue by selecting <b>Delete</b> when prompted.
Edit a comm ent	Select <b>Edit</b> at the bottom of the comment, and edit the text or restrictions ( <b>Viewable by</b> ) as needed. When you save your revised comment, you'll see 'edited' displayed to indicate that the comment has been edited. You can hover over 'edited' to see who edited the comment and when.
Link to a comm ent	Right-click on the comment timestamp, and then copy the link address.Paste the copied permanent link into your email or chat message. Clicking the permanent link takes you to that particular comment in the Jira issue. If yourJira issue contains an extensive list of comments, the issue page will automatically be scrolled down so that the linked comment is visible.
Restric t a comm ent	Select <b>Comment internally</b> (for other internal agents and collaborators) or <b>Share with customer</b> (for customers) tab.

#### Canned responses for comments

Canned responses allow you to create, edit and manage responses that you can then use at any time, directly from the view issue screen. All agents in your project have access to the canned responses saved, so your colleagues can take advantage of your saved responses, and you can take advantage of theirs. Some typical examples of canned responses could be:

- a request for more information from the customer,
- an short message confirming work in ongoing and the next update will be in 24 hours, or
- a lengthy response asking a customer to accept terms and agreements before you continue with the work.

You can access your canned responses when adding a comment by selecting the canned responses icon

You can add a response directly from the **Popular** or **Frequently** used menu, or you can search for your response by typing the name in the search field, and selecting it. The canned response will be added to the comment field. Feel free to further edit your comment, it won't be added to the issue until you add the comment.

To edit a canned response, select **Edit responses**, select the response you'd like to change and click **Edit**.

To add a canned response, you can either start with the text you've already added to the comment field, or with a a blank comment field. Select **Save as a response**, and complete the form with a name for your response, the response, and then select **Save**.

#### Using variables in canned responses

A variable is a powerful way to customize your response. Using a variable in your response allows the response to automatically contain information related to the issue. For example, you may want to personalize your response by adding the reporter's name, or by adding the issue key. The current list of variables are shown on the image below:

Name	
Request for more info	
Response	Insert variable -
Style ▼     B     I     U     A     ✓     ✓     W     I     <	Issue summary Issue description
Hello \${issue.reporter.name},	Issue key
Thanks for logging \${issue.key}. To take this further, we need a little more information.	Issue reporter
Could you please give us:	Issue resolution
The time and date of the event	Request URL
How many people are attending	Request status
Your cost centre	
Thanks!	
	lii.
Visual Text	5 0

## Formatting text with wiki markdown

Jira applicationText Formatting Notationallows you to use rich-text features, such as:

- Italic, bold, underlined text
- Multiple levels of headings
- · Bullets, numbered lists, tables, and quotations
- Images
- Macros

When you edit an issue description, comment, or any rich-text field, you can expand the simple wiki editor toolbar to format your text and select**preview**to see how your formatted text will appear. Note that your Jira administrator can enable, disable and configure the renderer which allows you to use wiki markdown, so your options may vary slightly.

## ITML macro

When using the HTML macro, which allow you to add HTML code to an issue, you should only use formatting as if you are including something inside the {{<body>}} directly. This prevents you from accidentally breaking the page formatting, or overriding Jira's CSS.

Note that if you're administrator has enabled the rich text editor, you'll still be able to format your content using wiki markdown, but if you select the visual editor, you'll see the markdown applied directly.

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## Tracking issues with labels

Labeling helps you categorize and search for anissue. When viewing an issue, select **More > Labels** to add or remove labels, which will appear in the Details section:

> Details			
Туре:	🗹 Task	Status:	IN PROGRESS (View Workflow)
Priority:	= Medium	Resolution:	Unresolved
Affects Version/s:	None	Fix Version/s:	7.5
Component/s:	Engine		
Labels:	DOC		

You can click a label (e.g. **doc**in the above screenshot) to jump to the Issue Navigator and see a list of all issues that have this label. You can also add the Labels Gadgetto your dashboard to quickly find issues with labels relevant to you and your team.

#### Watching and voting for issues

#### What permissions do you need?

To view other users watching or voting for an issue, you need the **View Voters and Watchers** and **M** anage Watcher Listproject permissions.

If your administrator has set up the needed notification scheme, you can select **Start watching this issue**to be automatically notified of issue updates. You can also click the number of watchers on the issue to add other Jira users as watchers.

If your administrator has enabled thevoting on issues, you can select **Vote for this issue** to encourage the responsible team to resolve or complete the issue.

#### Reordering sub-tasks on an issue

If you've added sub-tasks to an issue, and need to reorder them, you can drag and drop them on the issue navigator view of the parent issue. If you're using a board in Jira Software, you can also reorder the sub-tasks on the board view. However, these two methods are **independent** of each other. Reordering sub-tasks on the parent issue **will not** reorder tasks on an existing board, and vice-versa.

# Linking issues

Issue linking allows you to create an association between two existing issues on either the same or different Jira servers. For example:

- An issue may *relate to* another.
- An issue may *duplicate* another.
- An issue may *block* another.

Issue linking also allows you to:

- Create a new linked issue from an existing issue in a service desk or business project.
- Create an association between anissueand a Confluence page.
- Link anissue to any other web page.

Your Jira administrator cancustomize the types of links that you can create, see configuring issue linking.

## On this page:

- Creating a link to another issue on the same Jira site
- Creating a link to an issue on another Jira site
- Create a new linked issue from an existing issue in a service desk or business project
- Creating a link to a Confluence page
- Creating a link to any web page URL
- Deleting a link
  Searching for linked issues

Issue links within an issue look like this:

> Issue Links	+
is cloned by Second Second S	↑ WAITING FOR
relates to	WATTING FOR
WAZ-15 I need wi-fi access	1 DONE

Note: Resolvedissues (i.e. issues with a Resolution set) are displayed in strike-through font, e.g. DEMO-1.

To create links on issues, you need to have the Link Issues permission in the project(s) to which the issues belong.

## Creating a link to another issue on the same Jira site

1. Open the issue you wish to link to another issue in the same Jira site.

2. SelectMore > Linkto display theLinkdialog box.

Link			
JIRA Issue	Select a JIRA issue to	link this issue to	
Confluence Page Web Link	Server	JIRA Server	
	This issue	clones 🛟	
	Issue		-
		or search for an issue	
		Begin typing to find recently viewed issues	
		✓ Create reciprocal link	
		JIRA will create a link from the issue on the remote JIRA instance ba to this issue	ack
	Comment	Respond to customer Internal comment	
		Your comment will be visible to customers. Embed attachment to make them visible to customers.	ts
		⇒	
		Visual Text	
		Link Ca	ancel

3. Ensure that the **Jira Issue**item is selected at the left of the dialog box and then choose the type of link to be created from the **This issue** drop-down list.

Golf your Jira system administrator has configured *fully reciprocalapplication links* between your Jira site and another one, a **Server** drop-downlist may appear above the **This issue** list. If this is the case, ensure your Jira site appears or has been selected from the **Server** list.

- In the lssues field, specify the issue(s) to be linked to your currently viewed/selected issue. There are two ways to do this:
  - Type the full issue key (e.g.**ABC-123**) or to link to multiple issues, press the 'Enter' key between each typed issue key.

() If you have previously browsed an issue, you can quickly find the issue by typing the first few letters of the issue key (or part of the Summary), which will appear in an 'autocomplete' drop-down list for selection: **OR**:

- Click the search for an issuelink to use the Find Jira issues popup, which allows you to perform either a simpletext searchor anadvanced searchfor issues.
- 5. Optional: Add a Comment to describe why you are linking these issues.
- 6. Click theLinkbutton at the bottom of the dialog.

#### Creating a link to an issue on another Jira site

▲ To create this type of link, your Jira system administrator should have configured *fully reciprocalapplication links* between your Jira site and the other Jira site containing the issue(s) you want to link to.

- 1. Open the issue you wish to link to another issue.
- 2. SelectMore > Linkto display theLinkdialog box.
- 3. Ensure that the **Jira Issue**item is selected at the left of the dialog box.
  - Note:
    - This option will not be available if your Jira system administrator has not configured anapplication linkbetween your Jira site and the remote Jira site.
    - If, after selecting this option, you are prompted forauthorization, you may be required to log in to the remote Jira site, which will allowyourJira site to access the remote Jira site*on behalf of your account on the remote Jira site*.

This behavior means the application links configured between your Jira site and the remote Jira site use OAuth authentication.

4. If your Jira site connected to multiple remote Jira sites, choose the relevant Jira site from the **Server**dr op-downlist.

- 5. Choose the type of link to be created from the This issuedrop-down list.
- 6. Type thelssuekey of the issue on the remote Jira site that you want to link to. Alternatively, you can search for issues on the remote Jira site by clicking thesearch for an issuelink, which opens theFind Jira issuespopup.
  - You can link to any issue on the remote Jira site to which you have accessonthat site.
- 7. Select the Create reciprocal linkcheckbox to create the complementary link on the remote issue you are linking to, back to your issue. For example, if you create ablockslink typetoa remote issue, the reciprocal link generated on the remote issue will be ais blocked by link type backto your local issue.
- 8. Optional: Add a Comment to describe why you are linking these issues.
- 9. Click the Link button at the bottom of the dialog.

### Troubleshooting

SProblem: If you selected the Create reciprocal link checkbox, but after clicking the Link button, you discover that a reciprocal link from the remote issueback to yourissue has not been created, then your Jira system administrator has most likely created only a one-way link from your Jira site to the remote Jira site.

Solution:Ask your Jira system administrator to configure *fully reciprocalapplication links* between your Jira site and the remote Jira site.

SProblem: If you attempted to create a reciprocal link but received the following message:

'A reciprocal link from issue 'XYZ-123' back to this issue was not createdasthe remote Jira server returned the following error: No Link Issue Permission for issue 'XYZ-123'.' (where 'XYZ-123' is the issue key on the remote Jira site),

thena reciprocal link on the remote Jira site will not have been created, because the user account through which you authenticated on the remote Jira site (at step 3 above) does not have theLink Issues project permission.

### Solution:

- Ask the Jira project administrator(s) on the remote Jira site to grant your user account the Link Issues project permission for the relevant project(s) to which you need to create issue links.
- Alternatively, if the application link between your Jira site and the remote Jira site use OAuth authentication and you suspect you may have authenticated on the remote site with another user account that does not have the Link Issues project permission, repeat the procedure above but during theauthorizationstep (at step 3), authenticateon the remote site with a user account which has this permission.

first and repeat the procedure again.

### Create a new linked issue from an existing issue in a service desk or business project

To create a linked issue, you need to have Create issue and Linked Issuespermissionsin the destination project(s).

### To create a linked issue:

1. Open the issue from which you wish to create the linked Jira issue.

2. In the Issue screen, select More > Create linked issue to display the Create Linked Issue dialog box The newly created linked issue contains the same Project, Issue Type, and Summary information stored in the original issue. It is also linked to the service desk issue, in this case CTF-2.

Create linked iss	ue
Project*	Charlie Travel Sydney (CTS)
Issue Type*	Problem  v ⑦
Created issue	causes 💠
Linked issues	CTF-2 × +
	Search for issues to link to from the one you're creating.
Summary	Fix software bug in app XYZ
Description	Style • B I <u>U</u> <u>A</u> • ☆ v Ø • ∭ • ∷≣ i≡ ⊚ • + • ≈
	The print dialog is missing the orientation features. Unable to print to landscape.
	Create Cancel

- 3. Select the destination **Project** in which the new linked issue is to be created.
- 4. Select the correct Issue Type for the new linked issue.
- 5. In the Linkedissues field, specify issue(s) to be linked to your new linked issue.
- 6. Edit the linked issueSummary.
- 7. Edit the **Description** and describe why you are linking these issues.
- 8. Select the Copy attachments checkbox to include any attachments from the original issue.
- 9. Select the Copy links checkbox to include any URLs from the original issue.
- 10. Click the **Create** button at the bottom of the dialog.

Your linked issue has now been created.

### Creating a link to a Confluence page

(I) This feature is only supported in Confluence versions 4.0 or later.

▲ To create this type of link, your Jira system administrator needs to have configured an *application link* betwe en your Jira site and the Confluence site containing the pages you want to link to.

- 1. Open the issue you wish to link to another issue.
- 2. SelectMore > Linkto display theLinkdialog box.
- 3. Click the Confluence Page option at the left of the dialog box.
- This option is not available if your Jira system administrator has not configured anapplication linkbetween your Jira site and Confluence site.
- 4. If more than one application link has been configured between your Jira site and other Confluence sites, then choose the appropriate Confluence site from the **Server**drop-downlist.
- 5. Specify the Confluence page to be linked to your currently viewed issue. There are two ways to do this:
  - In the Page URL field, enter the URL of a page on the Confluence site you want to link to. For example:

http://<confluence-server>/display/ds/Welcome+to+the+Confluence+Demonstration+Space

 Click thesearch for a pagelink. TheLinkdialog box is replaced by theFind a Confluence page dialog box.

If you are prompted forauthorization, you may be required to log in to the Confluence site, which will allowyourJira site to access the Confluence site on behalf of your accounton the Confluence site.

This behavior means the application links configured between your Jira site and the remote Confluence site use OAuth authentication.

- *a.* In the first**Search**field, specify one or more search terms that appear in the page you want to link to. This field is mandatory.
- *b.* Optional: In the second **Search**field, select the Confluence space to further narrow down the search.
- *c.* Click the **Search** button and then the title of the page you want to link to.
- 6. Optional: Add a **Comment**to describe why you are linking these issues.
- 7. Click the Link button at the bottom of the dialog.

### Troubleshooting

SProblem: If Confluence pagelinks you create show Failed to load on theissue or if you attempted to search for a Confluence page but received the following message:

# 'Content on the Confluence site could not be accessed because the Confluence server's 'Remote API' feature is disabled. The Confluence system administrator must enable this 'Remote API' feature for Jira to successfully access this content.'

thenJira was unable to communicate with the Confluence server to either:

- retrieveinformation about the link or
- conducta Confluence page search in the Find a Confluence page dialog box.

### Solution:

Ask the Confluence system administrator to enable the **Remote API (XML-RPC & SOAP)** feature, since this Confluence feature is disabled by default. See Enabling the Remote API in the Confluence documentation for details.

### Creating a link to any web page URL

- 1. Open the issue you wish to link to another issue.
- 2. SelectMore > Linkto display theLinkdialog box.
- 3. Click the Web Linkoption at the left of the dialog box.
- 4. Specify the URL of the web page you want to link to.
- Specify theLink Textthat will appear in theIssue Linkssection of the 'view issue' page and will behype rlinkedto your URL.
- 6. Optional: Add a **Comment**to describe why you are linking these issues.
- 7. Click the **Link** button at the bottom of the dialog.

### Deleting a link

- 1. Go to an issue that contains links, and locate the **Issue Links**section.
- 2. Hover your mouse over the link you wish to delete, and click the **Delete**(trashcan) icon that appears.

### Searching forlinkedissues

You can search for issues that are linked to a particular issue. SeeAdvanced searching for more information.

Be aware that this functionality does not extend to issues on a remote Jira server.

# Editing multiple issues at the same time

At some point, you may need to change multiple issues at the same time. You can do this by performing a Bulk Change operation.

There are restrictions placed on some of the bulk operations. For example, if you select multiple issues with different workflows, you can only transition them in groups with the same workflow, and one group at a time. You can only bulk change 1000 issues as loading more than that might result in the Out Of Memory error. The restrictions are explained further in the relevant sections.

### On this page:

- Before you begin
- Delete multiple issues
- Move multiple issues
- Edit multiple issues
- Watch / stop watching multiple issues
- Archive multiple issues

### Before you begin

### **Required permissions**

To perform a bulk change operation, you need the appropriateproject-specific permissionand the globalBulk Changepermission. For example, you would need to have both the **Move Issue**and**Bulk Change**permissions to perform the **Bulk Move** operation. If you cannot access the Bulk Change functionality, ask your project admin to grant you the required permissions.

### Using the bulk change wizard

The bulk change wizard will progress you through your bulk change. To open the wizard:

- Perform a search with the required filters to produce a list of issues and select **Tools > Bulk Change**.
- Bulk edit issues in the Backlog. Use Shift+select to choose multiple issues and then right-click the selected items to start the bulk change operation.

Choose Issues Selected 1 issues from 1 project(s)		of 4: Choose ( e operation you wis	Dperation h to perform on the selected 1 issue(s).
Choose Operation     Operation Details	O Ec	dit Issues	Edit field values of issues
Confirmation		ove Issues	Move issues to new projects and issue types Transition issues through workflow
	O De	elete Issues	Permanently delete issues from Jira
	N/A Ar	rchive Issues	NOTE: You might not have the permission to archive one or more issues, or you're trying to archive subtasks instead of issues.
	0 w	atch Issues	Watch all the selected issues. You will receive notifications when any of these issues are updated.
		op Watching sues	Stop watching all the selected issues. You will no longer receive notifications when any of these issues are updated.

To go back to any step of the operation, select the relevant step in the menu on the left-hand side of the wizard. Selecting**Cancel**will cancel the entire process.

### Disable notifications for bulk operations

You can disable mail notifications for a particular bulk operation by deselecting the **Send Notification** checkbo x in the bulk operation wizard. For this option to be available, you must be a Jira administrator orproject administrator of all the projects associated with your selected issues. Deselecting **Send Notification** only disables Jira notifications. It doesn't affect notifications that are sent to your service desk customers.

Disable customer notifications. Some bulk operations, such as Change comment, might trigger email notifications to your customers. To prevent a flurry of emails, a Jira admin can temporarily disable outgoing mail in Administration ()>System>Mail > Outgoing mail. This setting controls both Jira and customer notifications, so remember to turn it back on when you're done with your bulk edit.

# **Transition multiple issues**

This bulk operation allows you to transition multiple issues through a workflow at the same time. You can only perform one transition bulk operation at a time. You will also need to provide any values required to complete the transition. For example, to close multiple issues, you will need to provide a value for the Resolution field, such as Done, Fixed, or Won't Fix.

To transition multiple issues:

- 1. Perform a search with the required filters to produce a list of issues.
- 2. SelectTools > Bulk Change.
- 3. Select the issues you'd like to perform the bulk operation on and then selectNext.
- 4. Select Transition Issues and thenn select Next.
- 5. Select the available workflow action. The actions available are dependent on the issues (and their associated workflows) that you have selected. Select **Next**.
- 6. Select a value for any required fields for this transition, and if available, decide whether you'd like to send email notifications. Select **Next**.
- 7. Review your bulk operation, and select Confirm when you are happy with the operation.

### Delete multiple issues

This bulk operation allows you to delete multiple issues at the same time. To delete multiple issues:

- 1. Perform a search with the required filters to produce a list of issues.
- 2. SelectTools > Bulk Change.
- 3. Select the issues you'd like to perform the bulk operation on, and selectNext.
- 4. Select Delete Issues and then select Next.
- 5. If available, decide whether you'd like to send email notifications. Select Next.
- 6. Review your bulk operation, and select **Confirm** when you are happy with the operation.

### Move multiple issues

This bulk operation allows you to move multiple issues at the same time. The issues you're moving need to be mapped to both a project and an issue type, and in doing this, you may need to also map the status and fields of the issues. Subtasks need to be mapped, too.

You can bulk move both standard issues and sub-tasks to another project and issue type, as well as convert a sub-task to an issue and vice versa. To learn more about issue types, see Issue fields and statuses.

You can also select both a sub-task and its parent to bulk move. However, youll only be asked to move subtasks if youre moving a parent issue to another project. This is to maintain the parent/sub-task relationship (i. e.thesub-task is always located in the same project as the parent issue). For example, you have issue B being a sub-task of issue A and you try to bulk move both A and B simultaneously. You will be prompted to select a target project and issue type for issue A. If you select a new project for A, you will be prompted to move the sub-task to a new issue type based on issue A's new project. If youdon'tchange the project for issue A, the sub-task will not be required to be moved.

To move multiple issues:

1. Perform a search with the required filters to produce a list of issues.

2. SelectTools > Bulk Change.

My open issues	Save as			< Share	🖞 Export 🗸	🗘 Tools 🗸
				Te .	Bulk Change:	
assignee = currentUse	() AND resolution = Unresolved order by updated DESC	⑦ Searc	h	Basic	all 16 issue(s)	
					Clear Sorts	

3. Select the issues you'd like to perform the bulk operation on, and select**Next**. The bulk move operation may require additional information depending on which issues you have selected to move (expand the following dropdown for details).

Select Projects and Issue Types	The first step of the Bulk Move wizard is to choose which projects and issue types you will move your issues to. The target project and issue type will determine whether extra steps will be required to migrate statuses and fields. Selected issues are grouped by their current project and issue type. You can either select a new project and issue type for each one or choose to move all standard issues to a single project and issue type.
Select Projects and Issue Types for Sub-Tasks	If you are moving issues with sub-tasks to another project, you will also need to move the sub-taskstothe new project. You can also elect to change the issue types of the sub-tasks being moved if you need to.
Selectstatu s migration mappings for invalid statuses	As multipleworkflowscan be active simultaneously, some statuses associated with the collection of selected issues may not be valid in the target workflow. In this case, you should map invalid statuses to valid statuses in your new workflow.
Select values for required fields and fields with invalid values	To adhere to thefield configuration schemeassociated with the target project and issue type, it may be necessary to update/populate required fields (e.g.fieldsthat are required in the target project, but may not have been in the original project).Fo r each field that needs to be populated, you will be prompted to supply a value. This value will be applied to all issues that are being bulk movedtogether. For the following fields, you can select from a list of possible values provided for you: Component Affects Version Fix Version Custom fields of type "Version-Picker"
	Versionswhichhave been archivedin the target project cannot be selected as the target when performing a bulk move. If you need to move issues into an archived version, you will need to firstunarchivethe version in the target project.
	It is possible to retain original field values that are valid in the target destination by checking the <b>Retain</b> checkbox associated with the field. For example, some issues may already include a valid custom field value these values can be retained, while issues that require an update will adopt the value specified on the <b>F</b> <b>ield Update</b> screen.
	<ul> <li>Checked:the original value is retained where possible. The field will not be updated with the specified new value.</li> <li>Unchecked:all fields will be updated with the specified new value. Note that the "Retain" checkbox is not available for the following fields, since an explicit mapping is required:</li> </ul>

	<ul> <li>Component</li> <li>Affects Version</li> <li>Fix Version</li> <li>Custom fields of type "Version-Picker"</li> </ul>
--	---

4. Select Move Issues and then select Next.

5. Confirm your changes and complete the operation. Note that you'll need to specify "Status migrationmappings for invalid statuses" and "Values for required fields and fields with invalid values" once for each different target project and issue type combination.

When all move parameters e.g.targetproject, status mappings and field updates have been specified for all issues, you will be presented with a confirmation screen displaying all changes that will be made to the issues being moved. The following details are displayed as applicable:

- Issue Targets: the target project and issue type
- Workflow: the target workflow and invalid status mappings
- Updated Fields:new values for fields that require updating
- Removed Fields:values to be removed in fields that are not valid in the target

The issues will only be moved once the **Confirm** button is clicked from the confirmation page. If the operation is exited anytime before this step, no changes will be made to the issues

### Edit multiple issues

This bulk operation allows you to edit multiple issues at the same time. The bulk editoperations available depend on the issues selected and the nature of the field/s you want to change.

To edit multiple issues:

- 1. Perform a search with the required filters to produce a list of issues.
- 2. SelectTools > Bulk Change.

My open issues Save as		\$ 5	Share	🖞 Export 🗸	🗘 Tools 🗸
assignee = currentUser() AND resolution = Unresolved order by updated DESC	Search	ţ,	Basic	Bulk Change: all 16 issue(s)	
				Clear Sorts	

- 3. Select the issues you'd like to perform the bulk operation on and then selectNext.
- 4. Select Edit Issues and then select Next.
- 5. Select the bulk edit operation from the list of available operations (expand more information for a full list of available and unavailable operations, and their conditions).

Available Operations	Conditions
Change Affects Version/s	<ul> <li>Selected issues belong to one project, and that project has version/s</li> <li>This field is not hidden in any field configurations the selected issues belong to</li> <li>Current user has "edit issue" permission for all the selected issues</li> </ul>
Change Assign To	<ul> <li>This field is not hidden in any field configurations the selected issues belong to</li> <li>Current user has "assign issue" permission for all the selected issues</li> </ul>
Change Comment	<ul> <li>This field is not hidden in any field configurations the selected issues belong to</li> <li>Current user has "comment issue" permission for all the selected issues</li> </ul>
Change Component/s	<ul> <li>Selected issues belong to one project, and that project has component/s</li> <li>This field is not hidden in any field configurations the selected issues belong to</li> <li>Current user has "edit issue" permission for all the selected issues</li> </ul>
Change Due Date	<ul> <li>This field is not hidden in any field configurations the selected issues belong to</li> </ul>

	<ul> <li>Current user has "edit issue" permission for all the selected issues</li> <li>Current user has "schedule issue" permission for all the selected issues</li> </ul>
Change Fix For Version/s	<ul> <li>Selected issues belong to one project, and that project has version/s</li> <li>This field is not hidden in any field configurations the selected issues belong to</li> <li>Current user has "edit issue" permission for all the selected issues</li> </ul>
Change Issue Type	Current user has "edit issue" permission for all the selected issues
Change Priority	<ul> <li>This field is not hidden in any field configurations the selected issues belong to</li> <li>Current user has "edit issue" permission for all the selected issues</li> </ul>
Change Reporter	<ul> <li>This field is not hidden in any field configurations the selected issues belong to</li> <li>Current user has "edit issue" permission for all the selected issues</li> <li>Current user has "modify reporter" permission for all the selected issues</li> </ul>
Change Security Level	<ul> <li>This field is not hidden in any field configurations the selected issues belong to</li> <li>All the selected projects are assigned the same issue level security scheme</li> <li>Current user has "edit issue" permission for all the selected issues</li> <li>Current user has "set issue security" permission for all the selected issues</li> </ul>
Change Custom Fields	<ul> <li>The "Change Custom Fields" operation is available only if:</li> <li>a global custom field exists OR</li> <li>an issue type custom field exists and the issues are all of this specific issue type OR</li> <li>a project custom field exists and the issues are all of the same project</li> </ul>
Edit a Closed Issue	Your workflow must allow editing of closed issues
Change Sprint	<ul> <li>You need to specify the sprint ID.</li> <li>This operation only affects active and future sprints, i.e. closed/completed sprints are not included when bulk editing the Sprint field.</li> </ul>

The fields listed in this section have no operations for bulk editing. This is because there is an alternative method or it is not logical to perform bulk edit on them.

The following system fields are unavailable for bulk editing:

- Attachments
- Summary
- Description
- Environment
- Project. Use "Bulk Move" to move issues between projects
- · Resolution. Use "Bulk Workflow Transitions" to modify the resolution of issues
- Time Trackingfields: Original Estimate, Remaining Estimate, Time Spent

The following custom field types are unavailable for bulk editing:

- Import Id
- Read Only Text
- *a.* Select a value for any required fields for this operation, and if available, decide whether you'd like to send email notifications. Select **Next**.
- b. Review your bulk operation, and select **Confirm** when you are happy with the operation.

Watch / stop watching multiple issues

These bulk operations allows you to start watching or stop watching multiple issues at the same time.

To watch multiple issues:

- 1. Perform a search with the required filters to produce a list of issues.
- 2. SelectTools > Bulk Change.
- 3. Select the issues you'd like to perform the bulk operation on and then selectNext.
- 4. Select Watch Issues and then select Next.
- 5. Review your bulk operation, and select **Confirm** when you are happy with the operation.

To stop watching multiple issues:

- 1. Perform a search with the required filters to produce a list of issues.
- 2. SelectTools > Bulk Change.
- 3. Select the issues you'd like to perform the bulk operation on, and selectNext.
- 4. Select Stop Watching Issues and then select Next.
- 5. Review your bulk operation, and select **Confirm** when you are happy with the operation.

### Archive multiple issues

(i) This functionality is available with the **Jira Data Center** license.

If you want to archive thousands of issues at once, instead of selecting the issues manually, you can make a bulk change. By default, this option allows you to archive all the issues on the current page or a maximum of1000 issues. However, a system admin can raise this limit if needed.

The issues will be archived with all their subtasks. Note that issues might have multiple subtasks so archiving might take a while because of a great number of subtasks.

#### To archive multiple issues:

- 1. Perform a search with the required filters to produce a list of issues. You can archive all the issues on the current page or a maximum of1000 issues.
- 2. SelectTools > Bulk Change.
- 3. Select the issues you'd like to perform the bulk operation on, and selectNext.
- 4. Select Archive issues and then select Next.
- 5. Review your bulk operation, and select **Confirm** when you are happy with the operation.

# Moving an issue

Sometimes, an issue may belong to a different project, and you may want to move this issue to another project. You can easily do this by using the **Move issue**wizard.

### Before you begin:

- You must have the Move Issuespermissionfor the project that has the issue that you want to move.
- You must have the Create Issuespermission for the project that you wish to move your issue to.

If you do not have either of this permissions, please contact your Jira administrator to have these added to your user profile.

If you wish to move multiple issues between projects at the same time, please refer to the documentation on bulk moving issues.

### Moving an issue

TheMove issuewizard allows you to specify another project in your Jira instance to move your selected issue to. As there may be significant differences in the configuration of your original project and target project, theMove issuewizard allows you to change certain attributes of the issue. These include:

- **Issue type** If your issue is acustom issue typethat does not exist in your target project, you must select a new issue type. You can also choose to arbitrarily change the issue type.
- **Issue status** You may have set upcustom issue statusesas part of a workflow. If you have assigned a custom status to your issue, and it does not exist in your target project, you must select a new issue status for your issue. You cannot arbitrarily change the issue status, i.e. the option to change the issue status will only appear if you are required to change it.
- Custom fields If you have defined **required** custom fields for your issue that do not exist in your target project, you must set values for them. You will only be prompted to enter the values for **required custom** fields in the target project that are missing values. If the custom fields of your original project also exist in your target project, and these custom fields are not required in the target project, you may need to set values for them, to move the issue successfully. If you wish to change the existing values for other fields on your issue, you can do this after the move is complete.

### To move an issue:

- 1. View the issue that you wish to move.
- 2. SelectMore > Move.
- 3. The first page of theMove issuewizard is displayed. Complete the steps required.
- 4. The confirmation page will display with all of your changes. If you wish to revise any of your changes, you can select the appropriate step in the left-hand menu to return to that page of the wizard. Once you are happy with your changes, select **Move**to move the issue to the target project.
- 5. Your issue will be moved to the target project and displayed on screen. You can now edit the issue to make further changes, if you wish.

### Moving related issues

- If your issue has sub-tasks, the Move issue wizard will also move the sub-tasks to the target project.
- If you're moving an epic, the Move issue wizard will not move the issues in the epic. The epic and the issues in the epic will still be linked to each other, but the issues in the epic will remain in the original project. You will need to move them separately.
- If your issue has values in the Components field, since the components field is project-tied, the target project must have the same component value already in place with the exact same name. Otherwise, the value will be lost during the move operation.

# Troubleshooting

• Restricted comments appear to be removed after moving the issue. See this article:Restricted comments disappear after moving an issue to a new project.

# Visual editing

Formatting content in Visual mode gives you a What You See Is What You Get (WYSIWYG) experience. Formatting appears as you apply it, and you no longer have to flip to a Preview to see what your content will look like when saved. You still have the option to view the wiki markup by selecting the Text tab. You'll know you have access to the visual editor because you'll see the Visual and Text tabs.

Visual	Style       B       I       U       A       ×       &        &        Image: Style       <
	that look like tables!       Visual     Text       Visual     Text
Text	Style       B       I       U       A       A <sup>D</sup> $\partial^D$

In Visual mode, you can still enter wiki markup syntax as you add your content, and it'll be rendered exactly as it'll display when you save. You can even flip between modes to view the formatted content, and the wiki markup syntax. You can also use the toolbar to format and style your content.

As Visual editing is really a preview of what we're working on, there's a few things that may not work quite as you'd expect them:

- Formatting content in a complex way can affect it's ability to be rendered, things like tables in the cells of other tables, and adding images to table cells won't work.
- Pasting content may not work as expected, as the source content may really be formatted using a method we don't support. So pasting tables may work, and it may not, depending on the source. Pasting plain text is absolutely fine.
- If you have macros provided by 3rd party apps, and they're incompatible with Visual mode, you won't be able to edit the macro header, and it's content will be rendered as text (wiki markup).

# Scheduling an issue

You can schedule issue due dates in Jira Service Management to help your agents prioritize incoming customer requests and find overdue issues that need urgent attention. The powerful scheduling feature allows you to perform fixed and relative date searches based on specific due dates as well as arbitrary search periods. You can also perform advanced searches using Jira Query Language.

### Scheduling an issue

To schedule an issue, populate its**Due**date field. This can be done either whencreating an issue, or at a later stage by editing the issue.

To enable Issue Scheduling, at least one group or project role must be given the Schedule Issues permission by your Jira administrator. Only users with the Schedule Issues permission can populate the Due date field.

# Searching by due date

You can use eitherbasic searchoradvanced searchto search for issues by their Due Date.

### Using simple search

You can search for issues using the search form in Issue Navigator (seeSearching for Issues). There are two ways to search for issues based on the**Due**date field. The first way is using fixed date values, the second is using periods that are relative to the current date.

### Fixed date searches

There are two text fields in the search form that allow searching based on the **Due** date field.

- To search for all issues that are due after a certain date, enter the date in the Due After text field. For example, to find all issues that are due after 1st June 2010, enter 1-6-2010 in the Due After field. You can also use the Calendar popup to select a date by clicking the calendar icon to the right of the field.
- To search for issues that are due before a certain date, enter the date in the Due Before text field. For example, to find all issues that are due before 1st July 2010, enter 1-7-2010 in the Due Before field.

To search for issues that are due between two dates, populate both the Due After and the Due Before fields.

### **Relative period search**

It is possible to perform a search that is relative to the time when it is run. For example, it is possible to do a search for issues that are due seven days from now. To do this, enter 7d in the Due Date To text field of the Issue Navigator. If the search is saved and run the next day, the issues that are due in seven days from the time that the search is run will be retrieved. Thus, this search will find all issues that are due within a week every time it is run.

The values that are entered in theDue Date From and Due Date To fields have to conform to a special syntax (described below). However, it is also possible to use the Due Date popup by clicking the icon to the right of the Due Date To text field to specify the search period.

### Due Date Popup

Use the Due Date popup to do the following:

- To search for issues that are overdue at the time of the search, select the first radio button, and click**OK**.
- To search for issues that are overdue by more than a certain number of days, populate the text field in the second row, and click**OK**.

- To search for issues that are due in the next certain amount of days, and are not overdue at the time of the search, populate the text field in the third row with the number of days, and choose**and not**from the select box in the third row. Select the third radio button, and click**OK**.
- To search for issues that are due in the next certain amount of days, and are overdue at the time of the search, populate the text field in the third row with the number of days, and choose**and**from the select box in the third row. Select the third radio button, and click**OK**.
- The fourth row of the popup is used for arbitrary period searches. Use the**to**text field to specify the upper bound of the search, and the**from**text field to specify the lower bound of the search. A blank text field means no bound. Populating the text fields in the fourth row actually has the same effect as populating the Due Date From and Due Date To text boxes. The syntax is described below.

### **Relative Period Search Syntax**

TheDue Date From and Due Date To fields use a special syntax to denote time period bounds. The syntax uses numbers and abbreviations that follow the numbers to represent what the numbers actually mean. The abbreviations are "w" for weeks, "d" for days, "h" for hours, and "m" for minutes. For example, to specify 10 days in the future, use "10d" or "1w and 3d". To specify a period bound in the past, prefix the value with the "-" sign. For example, to specify 2 days, 4 hours, and 3 minutes ago, use "-2d 4h 3m".

### Using advanced search

You can also use Jira Query Language (JQL) to search for issues by due date seeAdvanced Searching, and particularly the documentation on theDuefield.

# Logging work on issues

In Jira Service Management, you use Service Level Agreements (SLAs) configured by your administrator to help you track how well you're meeting customer expectations (e.g. responding to a request within 4 hours). You can use the Time Tracking feature in addition to SLAs to generate a workload report when you're working on a customer request with other agents, or when you need to track time spent fixing a problem that affects multiple customer requests.

### Here's how time tracking appears on an issue:

- The Estimated field displays the amount of time originally anticipated to resolve the issue
- The Remaining field displays the amount of time currently anticipated to resolve the issue
- The Logged field displays the amount of time logged working on the issue so far
- Choosing to include sub-tasks displays the aggregated time of an issue and all its sub-tasks

When you log time for the first time, thetime spentis subtracted from theoriginal estimate, and the resulting value is automatically presented in theremaining estimate. When subsequent work is logged, anytime spentis subtracted from theremaining estimate.

# Before you begin

- Make sure your Jira administrator has enabled the Time Tracking feature.
- Make sure you have the Work on Issues, Delete Work Logs, and Edit Work Logsproject permissions.

ONOTE that anyone with theBrowse Projectpermission can view time tracking information on an issue.

# Setting a time estimate for an issue

Teams can set a time estimate for an issue in order to calculate how long it will take to solve the issue.

- 1. Open the issue and select Edit.
- 2. Scroll down the Edit issue window to fill in the following time tracking fields:

Field	Description
Origina I Estimate	Amount of time you believe is required to solve the issue. If you want to change original estimate values once they have logged work time, ask your Jira administratorto disable legacy modeon time tracking.
Remai ning Estimate	Amount of time you believe is required to solve the issue in its current state.

### On this page:

- Before you beginSetting a time
- estimate for an issue
- Logging work on an issue
- Editing a work log entry
- Deleting a work log entry
- Customized Jira installations

Time Tracking —	
Estimated:	2d
Remaining:	1d 4h 56m
Logged:	3h 4m
Include sub-tasks	

If the Jira time tracking feature is in legacy mode, you will only see the original estimate field if work has not been logged. Once work time has been logged, you will only see the remaining estimate field.

# 🕑 Tips:

- You can specify additional time units after a time value 'X', such as Xw, Xd, Xh, or Xm, to represent weeks (w), days (d), hours (h), and minutes (m), respectively. If you type a number without specifying a time unit (e.g. if you type '2' instead of '2h'), thedefault time unitthat your Jira administrator specified will apply.
- Default conversion rates are 1w = 5d and 1d = 8h.

### 3. Select Update.

When work is first logged against the issue, the **Time Spent** is subtracted from the **Original Estimate**, and the resulting value is automatically presented in the **Remaining Estimate**. When subsequent work is logged, any **Time Spent** is subtracted from the **Remaining Estimate**.

Additionally, once work has been logged on an issue, various reports based on the time tracking information become available.

### Logging work on an issue

Once you have started to work on a specific issue, you can log your work by following these steps:

- 1. Select the issue you want to log time on.
- 2. Go toMore > Log Work.
- 3. Fill in the following Log Workfields, and select Log:

Log Work field	Description
Time spent	The amount of time spent on the issue. This is the aggregate amount of time that has been logged against this issue.
Date started	Date and time when you started this unit of work.
Remai ning estimat ed	<ul> <li>Amount of time anticipated to resolve the issue after completing this unit of work. You can adjust this value using the following options:</li> <li>Adjust Automatically - Adjust the remaining estimate value by subtracting the amount of work logged in the Time Spent field from the remaining estimate current value.</li> <li>Leave Estimate unset - This option is displayed only if no time estimate has been specified on the issue. You can use this option when you want to keep track of work, but you don't necessarily have a time estimate for an issue.</li> <li>Use Existing Estimate of - Select this option if you do not want to change the issue remaining estimate value.</li> <li>Set to - You can adjust the remaining estimate value to the amount of time you specify in this field.</li> <li>Reduce by - Select this option to manually adjust the remaining estimate value by subtracting the amount of time you specify in this field.</li> </ul>

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Work descrip	Type a description related to the achieved work.
tion	<b>Comments</b> are copied to the <b>Workflow Description</b> by default, but yourJira administrator can change this option in the Copy Comment to Workflow Descriptions' settings. If this setting is disabled:
	<ul> <li>The work log entry may be visible to anyone. If this is a concern, you need to edit this work log entry after creating it to modify its visibility.</li> <li>You have to manually copy comments to a workflow description once you have logged work.</li> </ul>

You can also log work while resolving or closing an issue by closing it and editing the log work fields. Selectthe padlock icon to set the work logged to be viewable only by members of a particular project role or group.

# Editing a work log entry

You canedit your own work log entries if you have been granted the Edit Own Work Logspermission. You can also editother people's work log entries if you have been granted the Edit All Work Logs permission.

# Deleting a work log entry

You can delete your own work log entries if you have been granted the Delete Own Work Logs permission You can also delete other people's work log entries if you have been granted the Delete All Work Logs permi ssion.

- 1. Go to the desired issue, and open the Work Log tab.
- 2. Hover over the work log entry to display the actions for the entry on the right side.
- *3.* Select the entry you want to delete, and click the trash can icon. You will be prompted to choose how the Remaining Estimate is affected by deleting the work log:

Option field	Description
Auto adjust	Choose this option to automatically add the time spent value to the current remaining estimate value.
Leave existing estimate	Select this option if you do not want to change the issueremaining estimatevalue.
Set estimated time remaining	Choose this option to manually set the issue's remaining estimate value to the specified amount.
Increase estimated time remaining	Select this option to increase the estimated remaining.

4. Click Delete.

# **Customized Jira installations**

Jira applications can be customized by your Jira administrator by adding the Log Work and Time Tracking fields to the customized screens. This way, you can log work andspecify time estimates on the same Jira screen when performing any Jira operation, such as editing, creating an issue, ortransitioning an issue to another status.

If you want to work*and/or*specify time estimates on the same Jira screen:

- 1. Navigate to the issue and view its details.
- 2. Perform the customized Jira operation that allows you to log work*and*specify time estimates on the same Jira screen. For example, assuming that your Jira administrator has added the**Time Tracking**fiel ds to the**Resolve Issue Screen**,and assuming this screen also retains the default**Log Work**fields, select**Workflow > Resolve Issue**at the top of the issue.

(

- If your Jira administrator hasconfigured the Log Work fields as optional, then you can choose whether or not to log work by checking the Log Work checkbox. If your Jira administrator has made logging work mandatory, you will not see the Log Work
- ٠ checkbox, and will instead need to log work when transitioning an issue.

# Approving a service project request

Jira Service Managementprojects have an option to include an approval step and assign approvers to their issues. You may be asked to approve a service desk request if you've been assigned the role of "approver". When this happens, you'll receive an email notifying you that your approval is required. If the **Request Details** and **Approval buttons** variables have been added to the project's approval notifications template, you can action the request from within the email. If not, there will be a link to the customer portal where you can view and action the request.

### How to approve and decline from the customer portal

Pro tip: Ask your Project Administrator to add Request details and Approval buttons to your approval notifications template, so you can quickly action a request from within your email. See Managing service project notifications.

It's likely that you've upgraded from a version of Jira Service Managementprior to 3.12, and the approval notifications template hasn't been updated.

- 1. Navigate to the service desk customer portal by either selecting the link in your email, or entering the URL.
- 2. View the approval request and review the supporting information.
- 3. Leave a comment by selecting**Add**below the comment field. You don't have to leave a comment, but if you're declining a request it helps to let the customer know why you declined it.
- 4. SelectApproveorDecline.
- 5. The customer will receive a notification of the selected action you have taken.

Your approval	Get notifications
Dealine	Share
Approve Decline	Gancel request
Comment on this request	0 Shared with
Activity	Elaine Goulding Creator
Request requires approval. 1 approval needed. Today 1:00 PM LATEST	Approvals •
Details Today 1:00 PM	WAITING FOR APPROVAL

- 1. **Approvals section**, which lists the appointed approvers for the request. This sectiononly appears when there are pending approvals for the request.
- When a request is approved, the Approvalssection disappears, and details about the approval will be added to the Activity section.

For example, Your request was approved and the status changed to Waiting for support.

### How to approve and decline from email

Good news! You're using the new default approval notifications template.

1. View the approval request and decide what action you'd like to take.

- 2. Select either the **Approve** or **Decline** button within the email. If you aren't logged into the customer portal, you will be prompted to do so. You'll then see:
  - a. If you hit Approve, a confirmation screen.
  - *b.* If you hit **Decline**, a screen prompting you to leave a comment and confirm your decision. You don't have to leave a comment, but if you're declining a request it helps to let the customer know why you declined it.
- 3. The customer will receive a notification of the selected action you have taken.

0	John Smith to me o
	This request created by John Smith is awaiting approval.
	Request type Travel Requests
	Summary I need to book a last minute flight
	Description I'm flying to the States tomorrow for a conference and need to book a return flight from Sy
	Approvers Karen Jones
	Created 26/Mar/18 2:48 PM
-	Approve Decline

- 1. Approval buttons, that let the approver action requests from within their email.
- 2. Request details, that show the full details of a request (incl request type, summary, creation date, and the same fields chosen in the request type settings).

If you're the only approver required on the request, and you approve it, the request will be moved to the status defined in the workflow for the approve transition. If there is more than one approval required, the status will remain the same until all approvers have responded, and your approval will be noted on the request.

If you decline a request (or any of the approvers decline it), it's automatically moved to the status as defined in the workflow for the decline transition, and your response is noted on the request.

# Customizing the issues in a project

Issues are the packets of work that need to be completed in a project. These issues are made up of issue fields, and the issue fields contain data about the issue. This data is important, as it helps define the issue, and can contain important information about the issue, such as a summary, a description, due dates, and when and where the work is required. This information is presented on a screen. A screengroups all available fields (or a subset of all available fields) defined in Jira applications, and organizes them for presentation to a user. Jira Service Managementallows you to customize the configuration and behavior of issues to better suit the needs of your customers and agents. You may choose to:

- Change a field's behavior (such aschange a field's description,make a field hidden or visible, ormake a field required or optional)
- Add your own values for fields that have default values assigned (e.g. Resolutionand Status)
- Create new'custom' fields
- Configure different renderersfor (some) fields
- Change the position fields on ascreen
- Choose which screen should be displayed for eachissue operation(e.g. 'Create Issue', 'Edit Issue') orworkflow transition(e.g. Resolve Issue, Close Issue)

A simple example of how customizing an issue could benefit your team could be marking fields as 'Required' when an issue is created. This would ensure you always capture the required information you need to get the work done to resolve the issue. If you couple this with positioning the required fields at the top of the screen, and even hiding fields you know the issue creator won't use, you'll make sure your users can see and complete the required fields as quickly as possible.

You can make this...

Create Issue	4	Configure Fields -
Project*	Development Strategy (DSE)	
Issue Type*		
Field Tab Grou	qu	
Summary*		
Account	Please select	
	Tempo Account custom field	
Due Date	ē	
Priority	* Medium	
Environment*	Style • B I U A • *A • Ø • • • • • • • • • • • • • • • • •	+• *
	O     For example operating system, software platform and/or hardware specifications (include as issue).	appropriate for the
Description		er Create Cancel

into this...

ate Issue		Configure Fields
Project	✓ Development Strategy (DSE) ▼	
Issue Type*	Image: Background block of the second se	
Summary*	1	
Environment	Style $\bullet$ B I U A $\bullet$ $^{*}A \bullet$ $\mathscr{O} \bullet$ $\blacksquare \bullet$ $!\equiv$ $!\equiv$ $!\equiv$	• + • »
	For example operating system, software platform and/or hardware specifications (include	de as appropriate for the
	issue).	

Jira administrators and project administrators have different permissions when it comes to customizing issues.

### **Project administrators**

As a project administrator, you're able to customize some aspects of the issues in your project if:

- you have the *Extended project administration* permission, which is enabled by default (you can check that in **Project settings > Permissions**),
- the screens you make the changes on must not be used by other projects, or used as a transition screen in a workflow.
- the screen isn't the default Jira screen (no-one can edit these screens).

If a screen is shared by another project, you'll see this information when you view the screen. If your screen suits the criteria above, you can:

- add and remove tabs that will appear on a screen, and edit the name of the tab,
- add, remove and rearrange system fields, and
- add, remove and rearrange existing custom fields, but you can't create custom fields.

### Editing a screen

- 1. SelectProjects and choose the project whose screen/s you want to view.
- 2. SelectProject settings in the sidebar.
- 3. Select **Screens** in the Project settings sidebar.

You'll see the screen scheme/s used by your project, and the issue types that use that scheme. Expand the screen scheme to see the screens associated with that scheme and issue types. Select the screen you wish to edit. You can perform the following actions:

Action	Instructions
Add a tab	Click <b>Add Tab </b> .Enter the name of the new tab in the dialog that appears and click <b>Add</b> .
Move a tab	Hover over the dotted part of the tab (next to the tab name) and drag the tab to the desired position.
Rename a tab	<ol> <li>Hover over the tab name and click the<b>pencil icon</b>.</li> <li>Enter the new name and click<b>OK</b>.</li> </ol>

2

Delete a tab	Hover over the tab name and click the <b>X</b> .
Add a field	<ol> <li>Click the tab that you want to add the field to.</li> <li>Type the name of the field in the drop-down displayed at the bottom of the current fields. Field suggestions will appear as you type.</li> <li>ClickAdd Field to add it to the current tab.</li> </ol>
Move a field	Hover over the dotted part of the field (next to the field name) and drag the field to the desired position. Move a field to a different tab by dragging it to the name of the tab and dropping it.
Remove a field	Hover over the field and click the <b>X</b> that appears.

### Jira administrators

As a Jira administrator, you can view more conceptual informationoncustomizing issues in the Jira administrator's documentation.

# Searching for issues

Can't find the customer issue you've been working on? This page will show you how to search for issues inJira Service Management. Any agent can search for issues, although they will only see results from projects they have access to.You'll find a step-by-step guide below that will show youhow to run a search and use the search results. If you want more details on anything described on this page, see the related topics at the bottom of the page.

### On this page:

- 1. Define your search criteria
- 2. Change your view of the search results
- 3. Working with the search results
- 4. Save your search
- Good to know
- Next steps

# 1. Define your search criteria

The first step in searching for issues is to define the criteria for your new search. You can define your search criteria in three different ways: using thequick search, using thebasic search, or using theadvanced search.

Quick search	The quick search is the fastest way to define search criteria. However, it is less p complex queries (e.g. project = Jira AND status = Open AND priori your search criteria is not complex, for example, you know the project key and se	ity = High).
	<b>To use the quick search:</b> Enter your search criteria in the search box in the hear <i>Tip: If you know the issue key or project key, enter it before other search terms,</i>	
Basic search	The basic search is more precise than the quick search, but easier to use than the user-friendly interface that lets you define complex queries, without needing to k searching).	
	<b>To use the basic search:</b> Navigate to <b>Issues</b> (in header) > <b>Search for issues</b> , <i>Tip: If the advanced search is shown instead of the basic search, click <b>Basic</b> new</i>	
	Search Save as	Share
	Teams in Space 👻 Epic, Story 👻 To Do, in prog 👻 Assignee: All 👻 Contains text	More 🗸 Sear
Advanced search	The advanced search is the most powerful of the three search methods. You can defined in the other searches (e.g. ORDER BY clause). However, you need to kn queries using the Jira Query Language (JQL) to use this feature.	
	<b>To use the advanced search:</b> Navigate to <b>Issues</b> (in header) > <b>Search for iss</b> <i>Tip: If the basic search is shown instead of the advanced search, click</i> <b>Advance</b>	
	Search Save as	ᢞ Share
	project = TIS AND issuetype in (Epic, Story) AND status in ("To Do", "in progress")	0

# 2. Change your view of the search results

You have crafted the perfect search criteria and run the search. Your search results will be displayed in the issue navigator. The issue navigator allows you to change how the search results are displayed. For example, you may want to bring high priority issues to the top or hide certain fields.

- Change the sort order: Click the column name.
- Show/hide columns: ClickColumnsand choose the desired columns.

New filter	~	Search Save as										< Shar	e 👌 Export 👻	O Tools ~
Find filters		Charlie Travel Franchises 👻 Type: All 👻 Sta	tus: All 👻 Assign	nee: All 🛩 🛛	ontains text	Aore - Sea	rch Adva	nced						≡ *
FILTERS My open issues Reported by me		1-2 of 2 🖏												Columns +
All issues		T Summary	Assignee Re	eporter P	Status	Resolution	Created	Updated	Due Original Estimate	Story Points	Development	Resolved	Time to close after res	solution Time t
Open issues		3 day trip to Brisbane	Unassigned Ala	iana Grant 🛛 🌂	WAITING FOR APPRO	Unresolved	02/May/18	02/May/18						
Done issues		What am I looking at?	Unassigned Ka By	aren 🤇 ywater	WAITING FOR SUPPO	Unresolved	26/Apr/18	26/Apr/18						-2v
Viewed recently Created recently		1-2 of 2 ()												
Resolved recently														
Updated recently														
FAVORITE FILTERS														
Charlie Travel Franchises														

### 3. Working with the search results

You've got the search results displaying the way that you want. Now you can work with the actual issues in the search results. The issue navigator lets you action individual issues, as well as the entire set of issues returned by your search.

Individual issues:

- View the issue: Click the issue key or name.
- Action individual issues: Click the cog icon next to the issue row and select an option.

All issues in the search results:

- Export the search results to different formats, like CSV and XML:ClickExportand select the desired format.
- Share the search results: Click Share, then enter the recipient's details.
- Create an RSS feed:ClickExport > RSS (Issues)orRSS (Comments).
- Bulk modify issues in search results: ClickToolsand selectall < n>issue(s) underBulk Change.

### 4. Save your search

If you frequently run the same search, you can save the search criteria as a filter. This saves you from having to manually redefine the search criteria every time. Jira applications also include a number of predefined system filters for common queries, such as 'My Open Issues', 'Reported by Me', 'Recently Viewed', and 'All Issues'.

To save your search as a filter: On the search results page, click**Save as**and enter a name for the filter. Your new filter will be shown in the left panel with your other favorite filters, filters shared with you, and the system filters. To run a filter, just click it.

### Good to know

Keep in mind that your search won't include issues that have been archived. These are removed from Jira's index, and can't be searched for like other issues.

### Next steps

Read the following related topics:

- Quick searching
- Basic searching
- Advanced searching
- Saving your search as a filter
- Working with search results

# **Basic searching**

The basic search provides a user-friendly interface that lets you define complex queries, without needing to know how to use JQL (advanced searching).

- If you don't have complex search criteria, you may want to usequick searchinstead.
- If you are comfortable with the Jira Query Language (JQL), you may want to useadvanced searchinstead. This search is more powerful than than the basic search.

### On this page:

- Basic searching
- Running a saved search
- Troubleshooting
- Next steps

### Screenshot: Basic search

Search Save as		< Share   Export 👻 🗘 Tools 🗸
Teams in the Space 👻 Type: All 👻 In Progress, To D	✓ Assignee: All      ✓ Contains text More      ✓ Search Advanced	10 ~
Order by 👻 🕇	Teams in the Space / TISP-10	1 of 10 , 👻
TISP-10 Mars Landing	Mars Landing     Add comment Assign More      To Do      Admin	< ੈੈ Export →
Sub-task 2	✓ Details	✓ People
TISP-8 Sub-task 1	Type: Priority: Low Fix Version/s: None	Assignee: (7) Unassigned Assign to me
Complete ignition tests	Affects Version/s: None Component/s: None	Reporter: O Captain Joe Votes: O Vote for this issue
TISP-6 Hire the team	Labels: None Epic Name: Mars Landing	Watchers:   Stop watching this issue
Cleanup the landing site	Description     Click to add description	✓ Dates
Send the pre-landing report to Earth		Created: 9 hours ago Updated: 5 hours ago
TISP-3 Enter the landing trajectory into the landing mod	$\langle \widehat{f_{\mathcal{T}}} \rangle$ Drop files to attach, or browse.	Development     Create branch

### Basic searching

### 1. Chooselssues>Search for issues.

- If there are existing search criteria, click the New filter button to reset the search criteria.
- If the advanced search is shown instead of the basic search, click**Basic**(next to the **Search** button).

In general, a query created using basic search will be able to be translated to advanced search, and back again. However, a query created using advanced search may not be able to be translated to basic search, particularly if:

- the query contains an OR operator (note you can have an IN operator and it will be translated, e.g.project in (A, B))
  - i.e. even though this query:(project = JRA OR project = CONF) is equivalent to this query:(project in (JRA, CONF)), only the second query will be translated.
- the guery contains a NOT operator
- the query contains an EMPTY operator
- the query contains any of the comparison operators: !=, IS, IS NOT, >, >=, <, <=
- the query specifies a field and value that is related to a project (e.g. version, component, custom fields) and the project is not explicitly included in the query (e.g.f ixVersion = "4.0", without theAND project=JRA). This is especially tricky with custom fields since they can be configured on a Project/Issue Type basis. The general rule of thumb is that if the query cannot be created in the basic search form, then it will not be able to be translated from advanced search to basic search.
- 2. Enter the criteria for the search. You can search against specific fields and/or search for specific text.
  - If you are searching against a field and can't find the field you want, or the field is displaying greyed out text, see the Troubleshooting section below.
  - If you are searching for text, you can use special characters and modifiers in your search text, such as wildcards and logical operators. SeeSearch syntax for text fields.
- 3. The search results will automatically update in the issue navigator, unless your administrator has disabled automatic updates of search results. If so, you will need to click the **Update**button on the field drop-down after every change.

Running a saved search

Saved searches (also known asfilters) are shown in the left panel, when using basic search. If the left panel is not showing, hover your mouse over the left side of the screen to display it.

To run a filter, e.g.**My Open Issues**, simply click it. The search criteria for the basic search will be set, and the search results will be displayed.

Note, clicking the **Recently Viewed** filter will switch you to the advanced search, as the basic search cannot represent the ORDER BYClause in this filter.



### Troubleshooting

Some fields are only valid for a particular *project/issue type context*. For these fields, you must select the applicable project/issue type. Otherwise, the field is not available for selection.

Some fields are only valid for a particular *project/issue type context*. If you choose a field in your search, then remove all projects/issue types that reference the field, then the field is invalid. The invalid field does not apply to your search and displays in grey text.

Some field values are only valid for a particular *project/issue type context*. For example, you may have configured a project to use a status *In Review* in its workflow. If you select this project and status in your search, then change the search to filter for a project that doesn't use *In Review*, the status will be invalid and ignored in the search.

Your search results will always update automatically whenever any fields are changed, provided that your administrator has notdisabled automatic updates of search results. Ask your administrator whether they havedisabled automatic updates of search results.

### Next steps

Read the following related topics:

- Searching for issues
- Advanced searching
- Saving your search as a filter
- Working with search resultsfind out how to use the issue navigator, export your search results, bulk modify issues, and share your search results.

# **Quick searching**

Sometimes, you just want to be able to get to the particular issue that you're interested in. Other times, you can't remember what the issue was, but you remember that it was an open issue, assigned to you, or you have its name on the tip of your tongue. Quick search can help you in these scenarios.

The **Search**box is located at the top right of your screen, in the Jira header bar. To use quick search, just start typing what you're looking for.

ssues 🛩 Boards 🖌 Create					Search	۹	<b>≁</b> <sup>€</sup>	00		
Mars Landing! JUICK FILTERS: Only My Issues Recently Updated				🕚 9 days rer	TIS-4	re-landing				
TO DO TIS-10 Complete ignition tests Caturn Shoot ♥ = ●		IN PROGRESS TIS-1 Spaceship tracker app updates Mars Landing Z =	9	DONE THS-3 Enter the landing trajed Mars Landing T =	Get Hubble	loration e working			)	
TIS-17 Design a new rocket Space Exploration	٦	TIS-2 Verify the landing site Mars Landing	0	<del>TIS_4</del> Send the pre-landing r Mars Landing ■ = ■	Verify the I TIS-2 View all iss PROJECTS Teams in S Software	iues		•		
TIS-16 Research the Space Exploration project Space Exploration		TIS-15 Oct Hubble working again Space Exploration		TIS-5 Cleanup the landing sit Mars Landing	<ul> <li>Space Exp Software</li> <li>View all pro</li> </ul>		XP)			

- 1. **Search:** Click anywhere in the box to display your recent work, or start typing to search through all your issues and projects.
- 2. Issues: Recent issues (before searching), or issues that match your search.
- 3. Projects: Recent projects (before searching), or projects that match your search.

Using quick search by many users at once can affect performance. You can limit the number of concurrent searches, or monitor how your users are searching in real-time. Learn more

# Understanding quick searching

Read the following topics to learn how to get the most out of quick searching:

Jumping to an issue | Searching as you type | Free-text searching | Smart querying

### Jumping to an issue

If you type in the **key** of an issue, you will jump straight to that issue. For example, if you type in 'ABC-107' (or 'abc-107'), and press the **Enter** button, you will be redirected to the issue 'ABC-107'.

In many cases, you do not even need to type in the full key, but just the numerical part. If you are currently working on the 'ABC' project, and you type in '123', you will be redirected to 'ABC-123'.

### Searching as you type

When you start typing the word youre looking for, the quick search will react instantly by showing and refreshing the list of most relevant results. To display these results, your search term is matched against the following fields:

- Summary (projects and issues)
- Description (issues)

### Free-text searching

You can additionally search through comments or use extra operators for fuzzy or wildcard search. These results won't be displayed as 'instant results', but you can view them after pressing **Enter** in the search box.

You can combine free-text and keywords together, e.g. "my closed test tasks". You can also you wildcards, e.g. "win\*8".

For more information on free-text searching, see Search syntax for text fields.

### Smart querying

Quick search also enables you to perform 'smart' searches with minimal typing. For example, to find all the open bugs in the 'TEST' project, you could simply type 'test open bugs' and quick search would locate them all for you.

Your search results will be displayed in the sue Navigator, where you can view them in a variety of useful formats (Excel, XML, etc).

The search terms that quick search recognizes are:

Search Term	Description	Examples		
my	Find issues assigned to me.	my open bugs		
r:	Find issues reported by you, another user or with no reporter, using the prefix <i>r</i> : followed by a specific reporter term, such as <i>me</i> , a username or <i>none</i> . Note that there can be no spaces between "r:" and the specific reporter term.	<pre>r:me finds issues reported by you. r:samuel finds issues reported by the user whose username is "samuel". r:none finds issues with no reporter.</pre>		
<proje ct name&gt; or <proje ct key&gt;</proje </proje 	Find issues in a particular project.	test project TST tst		
overdue	Find issues that were due before today.	overdue		
create d: update d: due:	Find issues with a particular Created, Updated, or Due Date using the prefixes <i>created:</i> , <i>updated:</i> , or <i>due:</i> , respectively. For the date range, you can use <i>today</i> , <i>tomorrow</i> , <i>yesterday</i> , a single date range (e.g. '-1w'), or two date ranges (e.g. '-1 w,1w'). Note that date ranges cannot have spaces in them. Valid date/time abbreviations are: 'w' (week), 'd' (day), 'h' (hour), 'm' (minute).	<pre>created:today created:yesterday updated:-1w finds issues updated in the last week. due:1w finds issues due in the next week. due:-1d,1w finds issues due from yesterday to next week. created:-1w,-30m finds issues created from one week ago, to 30 minutes ago. created:-1d updated:-4h finds issues created in the last day, updated in the last 4 hours.</pre>		
<prior ity&gt;</prior 	Find issues with a particular Priority.	blocker major trivial		

<issue type&gt;</issue 	Find issues with a particular Issue Type. Note that you can also use plurals.	bug task bugs tasks
<resol ution&gt;</resol 	Find issues with a particular Resolution.	fixed duplicate cannot reproduce
c:	Find issues with a particular Component(s). You can search across multiple components. Note that there can be no spaces between "c:" and the component name.	c:security finds issues with a component whose name contains the word "security".
Δ:	Find issues with a particular Affects Version(s). To find all issues belonging to a 'major' version, use the wildcard symbol '*'. Note that there can be no spaces between "v:" and the version name.	<ul> <li>v: 3.0 finds issues that match the following versions (for example):</li> <li>3.0</li> <li>3.0 eap</li> <li>3.0 beta <ul> <li>but will not match against the following versions (for example):</li> <li>3.0.1</li> <li>3.0.0.4</li> </ul> </li> <li>That is, it will match against any version that contains the string you specify followed immediately by a space, but not against versions that do not contain a space immediately after the string you specify.</li> </ul>
ff:	Find issues with a particular Fix For Version(s). Same usage as $v$ : (above).	
*	Wildcard symbol '*'. Can be used with $\mathbf{v} \colon$ and $\mathtt{ff} \colon$	<ul> <li>v: 3.2* finds any issue whose version number is (for example):</li> <li>3.2</li> <li>3.2-beta</li> <li>3.2.1</li> <li>3.2.x</li> </ul>

In Mozilla-based browsers, try creating a bookmark with URL http://<your-Jira-site> /secure/QuickSearch.jspa?searchString=%s (substituting <your-Jira-site> with your Jira instance's URL) and keyword (such as 'j'). Now, typing 'j my open bugs' in the browser URL bar will search your Jira instance for your open bugs. Or simply type your search term in the Quick Search box, then right-click on the Quick Search box (with your search term shown) and select "Add a Keyword for this search...".

# Searchingissues from your browser's search box

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If you are using Firefox or Internet Explorer 8 (or later), you can add your Jira instanceas a search engine /provider via the drop-down menu next to the browser's search box. Once you add your Jira instanceas a search engine/provider in your browser, you can use it at any time to conduct a Quick Search for issues in that Jira instance.

### OpenSearch

Jira supports this browser search feature as part of the autodiscovery part of the OpenSearch standard, by supplying an OpenSearch description document. This is an XML file that describes the web interface provided by Jira's search function. Any client applications that support OpenSearch will be able to add Jira to their list of search engines.

### Next steps

Read the following related topics:

Searching for issues

# Advanced searching

The advanced search allows you to build structured queries using the Jira Query Language (JQL) to search for issues. You can specify criteria that cannot be defined in the quick or basic searches. For example, you can use theoRDER BYclause to sort Jira issues either in descending or ascending order or narrow down your search results for the desired date range.

Learn more about searching in Jira from JQL: The most flexible way to search Jira (on the Atlassian blog)

Before using the advanced search, consider the following:

- If you don't have complex search criteria, you may want to use quick searchinstead.
- If you are not comfortable with the Jira Query Language (JQL), you may want to usebasic searchinstead.

Note that JQL is not a database query language, even though it uses SQL-like syntax.

The following is the example of an advanced search query in Jira that returns all issues for the **Teams in the Space** project.

Se	arch	Save as							Share	🖞 Export 👻	Q Tools
0	project = "	Teams in the Space"						③ Search	te Basi	Columns	* ≡
т	Key	Summary	Assignee	Р	Status	Epic Link	Resolution	Impacted Customer	s F	teporter	
	TIHP-21	Spaceship tracker app updates	Unassigned	~	TO DO		Unresolved	None		Aaster Engineer	
	TIHP-17	Set up a custom issue type	Unassigned	~	TO DO		Unresolved	None	,	Aaster Engineer	
~	TIHP-16	Landing on Mars	Unassigned	=	TO DO		Unresolved	None		Aaster Engineer	
	TIHP-14	Request type isn't valid after issue type change	Unassigned	~	TO DO		Fixed	None	F	Friendly Robot	
5	TIHP-10	Complete ignition tests	Unassigned	=	TO DO		Fixed	None	,	Aaster Engineer	
~	TIHP-9	Verify the landing site	Captain Joe	=	DONE		Done	None	F	riendly Robot	
	TIHP-8	Spaceship tracker app updates	Master Engineer	=	IN PROGRESS		Unresolved	None	0	Captain Joe	
	TIHP-6	Space exploration	Master Engineer	*	DONE		Done	None	F	riendly Robot	
	TIHP-3	Send the pre-landing report to Earth	Master Engineer	~	TO DO		Unresolved	None	F	Friendly Robot	
~	TIHP-1	Send the pre-landing report to Earth	Captain Joe	=	TO DO		Unresolved	None		Aaster Engineer	

- 1. JQL query that refines the search results.
- 2. A list of Jira issues that match the search criteria.

### Using advanced search

1. Go tolssues(in the header) >Search for issues.

	Jira Dashboards - Projects -	Issues • Boards • Plans • Insight •	Create
<b>9</b>	Teams in the Space Backlog	Current search Search for issues	
	Q QUICK FILTERS: Only My Issues	Archived issues	
	VERSIONS EPICS	<ul> <li>TIHP-8 Spaceship tracker app u</li> <li>TIHP-5 Space exploration</li> <li>TIHP-9 Verify the landing site</li> <li>TIHP-10 Complete ignition test</li> <li>TIHP-21 Spaceship tracker app more</li> </ul>	FILL YOUR BACKLOG WITH ISSUES This is your team backlog. Create and estimate new issues, and prioritize the backlog using drag and drop.
ср Ц ()	Backlog 1 issue - ≝0	Import Issues from CSV FILTERS My open issues Reported by me Closed_issues	
		Completed_tasks New_issues Manage filters	

• If there are existing search criteria, select the New search button to reset the search criteria.

### On this page:

- Using advanced search
  - Reference
- Running a saved search

• If the basic search is shown instead of the advanced search, select **Advanced**(next to the **Sear ch** button).

New search	Search Save as	≺ Share _ @ Export ~
Find filters	0	⑦ Search t Basic Columns → ≡ →
FILTERS My open issues Reported by me		
My open issues		

(i) If you cannot switch to an advanced search, check out the following section.

- 2. Enter your JQL query. As you type, Jira will offer a list of "auto-complete" suggestions based on the context of your query. Note tha, auto-complete suggestions only include the first 15 matches, displayed alphabetically, so you may need to enter more text if you can't find a match.
  - If you dont see auto-complete suggestions, this might happen because of the following:
    - Your administrator may have disabled the "JQL Auto-complete" feature for your Jira instance.
    - Auto-complete suggestions are not offered forfunctionparameters.
    - Auto-complete suggestions are not offered for all fields. Check thefields reference to see which fields support auto-complete.
- 3. Press Enter or select **Search**to run your query. Your search results will display in the issue navigator.

### Switch between basic and advanced search

In general, a query created using basic search will be able to be translated to advanced search, and back again. However, sometimes a query created using an advanced search may not be able to be translated into a basic search. Expand the following section for details.

You might not switch between two searches if:

• the query contains an OR operator.

You can have an IN operator and it will be translated, e.g. project in (A, B). Even though this query:(project = JRA OR project = CONF) is equivalent to this query:( project in (JRA, CONF), only the second query will be translated.

- the query contains a NOT operator.
- the query contains an EMPTY operator.
- the query contains any of the comparison operators: !=, IS, IS NOT, >, >=, <, <=.
- the query specifies a field and value that is related to a project (e.g. version, component, custom fields) and the project is not explicitly included in the query (e.g.fixVersion = "4.0", without theAND project=JRA). This is especially tricky with custom fields since they can be configured on a Project/Issue Type basis. The general rule of thumb is that if the query cannot be created in the basic search form, then it won't be able to be translated from advanced search to basic search.

# **Understanding advanced searching**

Read the following topics to learn how to get the most out of advanced searching:

- Constructing JQL queries
- Precedence in JQL queries
- Restricted words and characters
- Performing text searches

### **Constructing JQL queries**

A simple query in JQL (also known as a "clause") consists of a *field*, followed by an *operator*, followed by one or more *values* or *functions*.

#### Example 1

This query will find all issues in the TEST project.

```
project = "TEST"
```

This query will find all issues in the TEST project. It uses the project *field*, the EQUALS operator, and the value TEST.

#### Example 2

A more complex query might look like this:

```
project = "TEST" AND assignee = currentUser()
```

This query will find all issues in the TEST project where the assignee is the currently logged in user. It uses the project *field*, theEQUALS*operator*, the*value* TEST, the AND keyword and the currentUser() function.

#### Example 3

A JQL query that will search for more than one value of a specific field. This query will find all issues of type B ug, which have accessibility and "3rd-party apps" values for the Component field:

issuetype = Bug AND component in (accessibility, "3rd-party apps")

The query uses the issuetypefield, the EQUALS operator, the value Bug, the AND keyword, the component field, and the IN operator.

#### Example 4

A JQL query that will find issues created since the start of the current year and updated since the start of the current month:

project = "Analytics" and created > startOfYear() and updated > startOfMonth()

#### Example 5

A JQL query that will find any issues that are created in the Test project and contain the "pre-landing report" text in a summary or description:

```
project = "Test" AND text ~ "pre-landing report"
```

For more information on fields, operators, keywords and functions, see the Reference section.

### Precedence in JQL queries

Precedence in JQL queries depends on keywords that you use to connect your clauses. For example, a clause can be: project = Teams in Space. The easiest way to look at this is to treat theANDkeyword as the one grouping clauses, andORas the one separating them. TheANDkeyword takes precedence over other keywords, because it groups clauses together, essentially turning them into one combined clause.

#### Example 1

status=resolved AND project=Teams in Space OR assignee=captainjoe

This query will return allresolved issues from the Teams in Space project (clauses grouped by AND), and also all existing issues assigned tocaptainjoe. The clause after theoRkeyword is treated as separate.

#### Example 2

status=resolved OR project="Teams in Space" AND assignee=captainjoe

This query, on the other hand, will return*captainjoes* issues from the Teams in Space project (clauses grouped by AND), and also all existingresolvedissues (a clause separated by OR).

### Example 3

status=resolved OR projects="Teams in Space" OR assigne=captainjoe

When you only use theorekeyword, all clauses will be treated as separate, and equal in terms of precedence.

#### Setting the precedence

You can set precedence in your JQL queries by using parentheses. Parentheses will group certain clauses together and enforce precedence.

#### Example 1

As you can see in this example, parentheses can turn our example JQL query around. This query would return resolved issues that either belong to the Teams in Space project or are assigned to captainjoe.

status=resolved AND (project="Teams in Space" OR assignee=captainjoe)

#### Example 2

If you used parentheses like in the following example, they wouldnt have any effect, because the clauses enclosed in parentheses were already connected by AND. This query would return the same results with or without the parentheses.

(status=resolved AND project="Teams in Space") OR assignee=captainjoe

### **Restricted words and characters**

### **Reserved characters**

JQL has a list of reserved characters:

<pre>space(" ")</pre>	+.	, ;	?	* /	% ^	\$#	@[	]
-----------------------	----	-----	---	-----	-----	-----	----	---

If you wish to use these characters in queries, you need to:

- Surround them with quote-marks. You can use either single quotation marks (') or double quotation marks (").
   and
- If you are searching a **text field** and the character is on the list ofspecial characters in text searches, precede them with two backslashes. This will let you run the query that contains a reserved character, but the character itself will be ignored in your query. For more information, see **Special characters** in Search syntax for text fields.

For example:

• version = "[example]"

• summary ~ "\\[example\\]"

#### Reserved words

JQL also has a list of reserved words. These words need to be surrounded by quotation marks (single or double) if you wish to use them in queries.

"abort", "access", "add", "after", "alias", "all", "alter", "and", "any", "as", "asc", "audit", "avg", "before", "begin", "between", "boolean", "break", "by", "byte", "catch", "cf", "char", "character", "check", "checkpoint", "collate", "collation", "column", "commit", "connect", "continue", "count", "create", "current", "date", "decimal", "declare", "decrement", "default", "defaults", "define", "delete", "delimiter", "desc", "difference", "distinct", "divide", "do", "double", "drop", "else", "empty", "encoding", "end", "equals", "escape", "exclusive", "exect, "execute", "exists", "explain", "false", "fetch", "file", "field", "first", "float", "for", "from", "function", "go", "goto", "grant", "greater", "group", "having", "identified", "if", "immediate", "in", "increment", "index", "initial", "inner", "inout", "input", "insert", "int", "integer", "intersect", "intersection", "into", "is", "isempty", "isnull", "join", "last", "left", "less", "like", "limit", "notin", "nowait", "null", "number", "object", "of", "on", "option", "or", "order", "output", "output", "power", "previous", "prior", "privileges", "public", "raise", "raw", "remainder", "rename", "resource", "return", "returns", "start", "strict", "string", "subtract", "sum, "synonym", "table", "then", "to", "trans", "transaction", "trigger", "true", "uid", "with"

(i) If youre a Jira admin, note that this list is hard coded in the JqlStringSupportImpl. java file.

#### Performing text searches

You can use Lucene's text-searching features when performing searches on the following fields by using the CONTAINS operator.

- Summary.
- Description.
- Environment.
- Comments.
- Custom fields that use the "Free Text Searcher". These are custom fields of the following built-in custom field types: Free Text Field, Text Field, and Read-only Text Field.

When searching for text fields, you can also usesingle and multiple character wildcard searches. For more information, see Search syntax for text fields.

### Differences between day and time search

A day (1d) and time (24h) values are differently calculated in a query and dont return the same results:

- If you specify "1d", the start of the day will start calculating at 00:00 of the server timezone unless you
  also add the exact time. "1d" will also include the current day if you execute the query now. It doesn't
  take into account the amount of time relative to the time you had executed the query (24 hours from
  the time you executed the JQL).
- If you use "24h", it will start calculating from the hour when you executed it (-24 hours from the time you run the JQL).

### Example

Let's assume that you updated an issue's status to "Closed" yesterday at 3 PM. You run the following queries at 1 PM today:

- status changed to "Closed" after -1d won't return the closed issue. However, it'll return the result if you run status changed to "Closed" after -2d.
- status changed to "Closed" after -24h will return the closed issue.

# Reference

Here you can find a brief overview of Jira fields, operators, keywords, and functions used to compose JQL queries. For detailed description and examples of their usage for advance searching, check the links from the **Reference** column.

Reference	Description
-----------	-------------

Fields	A field in JQL is a word that represents a Jira field (or a custom field that has already been defined in Jira). You can perform an advanced search on your Jira fields to look for issues created on, before, or after a particular date (or date range) and time.	To view a detailed information about fields and how to use them for advanced searching, check out Fields reference page.
		<pre>affectedVersion approvals assignee attachments category comment created creator customFieldName "Customer Request Type" description due environment "epic link" filter fixVersion issueKey Issue link type labels lastViewed level originalEstimate parent priority project remainingEstimate reporter request-channel- type request-last- activity-time resolution resolved sprint status summary text timeSpent type updated voter watchers worklogAuthor WorklogComment WorklogDate WorkRatio</pre>

Operators	An operator in JQL is one or more symbols or words that compare the value of afieldon its left with one or more values (orfunctions) on its right, such that only true results are retrieved by the clause. Some operators may use theNOTkeyword.	To view a detailed information about operators and how to use them for advanced searching, check out Operators reference page
Keywords	<ul> <li>A keyword in JQL is a word or phrase that does (or is) any of the following:</li> <li>joins two or more clauses together to form a complex JQL query.</li> <li>alters the logic of one or more clauses.</li> <li>alters the logic of operators.</li> <li>has an explicit definition in a JQL query.</li> <li>performs a specific function that alters the results of a JQL query.</li> </ul>	To view a detailed information about keywords and how to use them for advanced searching, check out Keywords reference page. AND OR NOT EMPTY NULL ORDER BY

Functions	A function in JQL appears as a word followed by parentheses, which may contain one or more explicit values or Jira fields.	To view a detailed information about functions and how to use them for advanced searching, check
	A function performs a calculation on either specific Jira data or the function's content in parentheses, such that only true results are retrieved by the function, and then again by the clause in which the function is used.	• approved() • approver()
		<ul> <li>cascadeOption()</li> <li>closedSprints()</li> <li>componentsLeadByleser()</li> <li>currentLogin()</li> </ul>
		<pre>• currentUser() • earliestUnrelease dVersion() • endOfDay() • endOfMonth()</pre>
		<ul> <li>endOfWeek()</li> <li>endOfYear()</li> <li>issueHistory()</li> <li>issuesWithRemote inksByGlobalId()</li> </ul>
		<pre>InksByGlobalId() IastLogin() IatestReleasedVe sion() IinkedIssues()</pre>
		<pre>membersOf() myApproval() myPending() now() </pre>
		<ul> <li>openSprints()</li> <li>pending()</li> <li>pendingBy()</li> <li>projectsLeadByUs r()</li> </ul>
		<ul> <li>projectsWhereUse HasPermission()</li> <li>projectsWhereUse HasRole()</li> <li>releasedVersions</li> </ul>
		<ul> <li>standardIssueTyp s()</li> <li>startOfDay()</li> <li>startOfMonth()</li> </ul>
		<pre>• startOfWeek() • startOfYear() • subtaskIssueType ()</pre>
		<ul> <li>unreleasedVersions()</li> <li>votedIssues()</li> <li>watchedIssues()</li> </ul>

# Running a saved search

You can find saved searches (also known as Saving your search as a filter) in the left-side panel, when using advanced search. If the left panel is not showing, hover your mouse over the left side of the screen to display it.

To run a filter, such as **New\_issues**, select the filter name. The JQL for the advanced search will be set, and the search results will be displayed.

New search 44	New_issue	es Save as Details 🖈	1						<	Share 🖻	Export ¥
Find filters	project = TIS	P AND status in ("In Progress", "	'To Do")						() Search &	Basic	Columns *
FILTERS	T Key	Summary		Anni	anee P	Status	Epic Link F	Resolution	Impacted Customers	Der	orter
My open issues Reported by me	TISPV2-10				ssigned 🗸				None		ptain Joe
All issues											
Open issues											
Done issues											
Viewed recently											
Created recently											
Resolved recently											
Updated recently											
FAVOURITE FILTERS											

- 1. A search saved as a filter, which returns issues based on the criteria specified in a JQL query.
- 2. JQL query that specifies search criteria.
- *3.* **Issues** that match the search criteria.

If you want to delete a saved search, see Deleting a filter.

# Advanced searching - fields reference

This page describes information about fields that are used for advanced searching. A field in JQL is a word that represents a Jira field (or a custom field that has already been defined in your Jira applications). In a clause, a field is followed by anoperator, which in turn is followed by one or more values (orfunctions). The operator compares the value of the field with one or more values or functions on the right, such that only true results are retrieved by the clause. Note: it is not possible to compare twofields in JQL.

# Affected version

Search for issues that are assigned to a particular affects version(s). You can search by version name or version ID (i.e. the number that Jira automatically allocates to a version).Note, it is better to search by version ID than by version name.Different projects may have versions with the same name. It is also possible for your Jira administrator to change the name of a version, which could break any saved filters that rely on that name. Version IDs, however, are unique and cannot be changed.

Syntax	affectedVersion
Field Type	VERSION
Auto- complete	Yes
Supported operators	<ul> <li>= , != , &gt; , &gt;= , &lt; , &lt;= , ~ , !~</li> <li>IS, IS NOT, IN, NOT IN</li> <li>The comparison operators (e.g. "&gt;") use the version order that has been set up by your project administrator, not a numeric or alphabetic order.</li> <li>For this field, the contain operators (~ and !~) find exact matches, and can be used to search through versions with a wildcard.</li> </ul>
Unsupported operators	WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	When used with the <b>IN</b> and <b>NOT IN</b> operators, this field supports: • releasedVersions() • latestReleasedVersion() • unreleasedVersions() • earliestUnreleasedVersion()
Examples	<ul> <li>Find issues with an AffectedVersion of 3.14: affectedVersion = "3.14" Note that full-stops are reserved characters and need to be surrounded by quote-marks.</li> <li>Find issues with an AffectedVersion of "Big Ted": affectedVersion = "Big Ted"</li> <li>Find issues with an AffectedVersion ID of 10350: affectedVersion = 10350</li> </ul>

# On this page:

- Affected version
- Approvals
- Assignee
- Attachments
- Category
- Comment
- Component
- Created
- Creator
- Custom field
- Customer Request Type
- Description
- Due
- Environment
- Epic link
- Filter
- Fix version
- Issue key
- Issue link type
- Labels
- Last viewed
- Level
- Original estimate
- Parent
- Priority
- Project
- Remaining estimate
- ReporterRequest channel
- type
- Request last activity time
- Resolution
- Resolved
- SLA
- Sprint
- Status
- Summary
- Text
- Time spent
- Type
- Updated
- Voter
- Votes
- Watcher
- Watchers
- Work log author
- Work log comment
- Work log date
- Work ratio

## Approvals

Only applicable if Jira Service Management is installed and licensed, and you're using the Approvals functionality.

Search for issues that have been approved or require approval. This can be further refined by user.

Syntax	approvals
Field Type	USER
Auto-complete	No
Supported operators	=
Unsupported operators	~ , != , !~ , > , >= , < , <= IS , IS NOT , IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<ul> <li>approved()</li> <li>approver()</li> <li>myApproval()</li> <li>myPending()</li> <li>pending()</li> <li>pendingBy()</li> </ul>
Examples	<ul> <li>Find issues that require or required approval by John Smith: approval = approver(jsmith)</li> <li>Find issues that require approval by John Smith: approval = pendingBy(jsmith)</li> <li>Find issues that require approval by the current user: approval = myPending()</li> <li>Find all issues that require approval: approval = pending()</li> </ul>

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# Assignee

Search for issues that are assigned to a particular user. You can search by the user's full name, ID, or email address.

Syntax	assignee
Alias	cf[CustomFieldID]
Field Type	USER
Auto- complete	Yes

Supported operators	<pre>= , != IS, IS NOT, IN, NOT IN, WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED Note that the comparison operators (e.g. "&gt;") use the version order that has been set up by your project administrator, not a numeric or alphabetic order.</pre>
Unsupported operators	~ , !~ , > , >= , < , <=
Supported functions	<ul> <li>When used with the<b>IN</b>and<b>NOT IN</b>operators, this field supports:</li> <li>membersOf()</li> <li>When used with the<b>EQUALS</b>and<b>NOT EQUALS</b>operators, this field supports:</li> <li>currentUser()</li> </ul>
Examples	<ul> <li>Find issues that are assigned to John Smith: assignee = "John Smith" or assignee = jsmith</li> <li>Find issues that are currently assigned, or were previously assigned, to John Smith: assignee WAS "John Smith" or assignee WAS jsmith</li> <li>Find issues that are assigned by the user with email address "bob@mycompany. com": assignee = "bob@mycompany.com" Note that full-stops and "@" symbols are reserved characters and need to be surrounded by quote- marks.</li> </ul>

# Attachments

Search for issues that have or do not have attachments.

Syntax	attachments
Field Type	ATTACHMENT
Auto-complete	Yes
Supported operators	IS, IS NOT
Unsupported operators	=, != , ~ , !~ , > , >= , < , <= IN, NOT IN, WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	None

	<ul> <li>Search for issues that have attachments: attachments IS NOT EMPTY</li> <li>Search for issues that do not have attachments: attachments IS EMPTY</li> </ul>
--	---

# Category

Search for issues that belong to projects in a particular category.

Syntax	category
Field Type	CATEGORY
Auto-complete	Yes
Supported operators	=, != IS, IS NOT, IN, NOT IN
Unsupported operators	~ , !~ , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	None
Examples	<ul> <li>Find issues that belong to projects in the "Alphabet Projects" Category: category = "Alphabet Projects"</li> </ul>

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## Comment

Search for issues that have a comment that contains particular text.Jira text-search syntaxcan be used.

Syntax	comment
Field Type	TEXT
Auto-complete	No
Supported operators	~ , !~
Unsupported operators	= , != , > , >= , < , <= IS, IS NOT, IN, NOT IN, WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	None

<ul> <li>Find issues where a comment contains text that matches "My PC is quite of (i.e. a "fuzzy" match: comment ~ "My PC is quite old"</li> <li>Find issues where a comment contains the exact phrase "My PC is quite of comment ~ "\"My PC is quite old\""</li> </ul>	
Find issues where a comment contains the exact phrase "My PC is quite of the exact phrase and the exact phrase "My PC is quite of the exact phrase and	d":

# Component

Search for issues that belong to a particular component(s) of a project. You can search by component name or component ID (i.e. the number that Jira automatically allocates to a component).

Note, it is safer to *search by component ID than by component name*.Different projects may have components with the same name, so searching by component name may return issues from multiple projects. It is also possible for your Jira administrator to change the name of a component, which could break any saved filters that rely on that name. Component IDs, however, are unique and cannot be changed.

Syntax	component
Field Type	COMPONENT
Auto-complete	Yes
Supported operators	= , != IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~ , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	When used with the <b>IN</b> and <b>NOT IN</b> operators, component supports: • componentsLeadByUser()
Examples	<ul> <li>Find issues in the "Comp1" or "Comp2" component: component in (Comp1, Comp2)</li> <li>Find issues in the "Comp1" and "Comp2" components: component in (Comp1) and component in (Comp2) or component = Comp1 and component = Comp2</li> <li>Find issues in the component with ID 20500: component = 20500</li> </ul>

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## Created

Search for issues that were created on, before, or after a particular date (or date range). Note that if a timecomponent is not specified, midnight will be assumed. Please note that the search results will be relative to your configured time zone (which is by default the Jira server's time zone).

Use one of the following formats:

"yyyy/MM/dd HH:mm"

"yyyy-MM-dd HH:mm"

"yyyy/MM/dd"

"yyyy-MM-dd"

Or use "w" (weeks), "d" (days), "h" (hours) or "m" (minutes) to specify a date relative to the current time. The default is "m" (minutes). Be sure to use quote-marks ("); if you omit the quote-marks, the number you supply will be interpreted as milliseconds after epoch (1970-1-1).

Syntax	created
Alias	createdDate
Field Type	DATE
Auto- complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	When used with the EQUALS, NOT EQUALS, GREATER THAN, GREATER THAN EQUALS, LESS THAN or LESS THAN EQUALS operators, this field supports: • currentLogin() • lastLogin() • now() • startOfDay() • startOfWeek() • startOfWeek() • endOfDay() • endOfWeek() • endOfWeek() • endOfWeek() • endOfYear()
Examples	<ul> <li>Find all issues created before 12th December 2010: created &lt; "2010/12/12"</li> <li>Find all issues created on or before 12th December 2010: created &lt;= "2010/12/13"</li> <li>Find all issues created on 12th December 2010 before 2:00pm: created &gt; "2010/12/12"and created &lt; "2010/12/12 14:00"</li> <li>Find issues created less than one day ago: created &gt; "-1d"</li> <li>Find issues created in January 2011: created &gt; "2011/01/01"and created &lt; "2011/02/01"</li> <li>Find issues created on 15 January 2011: created &gt; "2011/01/15"and created &lt; "2011/01/16"</li> </ul>

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Creator

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Search for issues that were created by a particular user. You can search by the user's full name, ID, or email address.

Syntax	creator
Field Type	USER
Auto- complete	Yes
Supported operators	= , != IS , IS NOT , IN , NOT IN, WAS, WAS IN, WAS NOT, WAS NOT IN
Unsupported operators	~ , !~ , > , >= , < , <= CHANGED
Supported functions	<ul> <li>When used with the IN and NOT IN operators, this field supports:</li> <li>membersOf()</li> <li>When used with the EQUALS and NOT EQUALS operators, this field supports:</li> <li>currentUser()</li> </ul>
Examples	<ul> <li>Search for issues that were created by Jill Jones: creator = "Jill Jones" or creator = "jjones"</li> <li>Search for issues that were created by the user with email address "bob@mycompany.com": creator = "bob@mycompany.com" (Note that full-stops and "@" symbols are reserved characters, so the email address needs to be surrounded by quote-marks.)</li> </ul>

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# Custom field

Only applicable if your Jira administrator has created one or more custom fields.

Search for issues where a particular custom field has a particular value. You can search by custom fieldname or custom fieldID (i.e. the number that Jira automatically allocates to an custom field).

Note, it is safer to search by custom fieldID than by custom fieldname. It is possible for a custom fieldto have the same name as a built-in Jira system field; in which case, Jira will search for the system field (not your custom field). It is also possible for your Jira administrator to change the name of a custom field, which could break any saved filters that rely on that name. Custom fieldIDs, however, are unique and cannot be changed.

Syntax	CustomFieldName
Alias	cf[CustomFieldID]
Field Type	Depends on the custom field's configuration Note, Jira text-search syntaxcan be used with custom fields of type 'Text'.

Auto-complete	Yes, for custom fields of type picker, group picker, select, checkbox and radio button fields
Supported operators	Different types of custom field support differentoperators.
Supported operators: number and date fields	= , != , > , >= , < . <= IS , IS NOT , IN , NOT IN
Unsupported operators: number and date fields	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported operators: picker, select, checkbox and radio button fields	= , != IS , IS NOT , IN , NOT IN
Unsupported operators: picker, select, checkbox and radio button fields	~ , !~ , > , >= , < . <= WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported operators: text fields	~ , !~ IS , IS NOT
Unsupported operators: text fields	= , != , > , >= , < . <= IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Unsupported operators	~ , !~ , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	Different types of custom fields support differentfunctions.
Supported functions: date/time fields	When used with the EQUALS, NOT EQUALS, GREATER THAN, GREATER THAN EQUALS, LESS THAN or LESS THAN EQUALS operators, this field supports: • currentLogin() • lastLogin() • now() • startOfDay() • startOfWeek() • startOfWeek() • endOfMonth() • endOfWeek() • endOfWeek() • endOfMonth() • endOfYear()

Supported functions: version picker fields	Version picker fields: When used with the <b>IN</b> and <b>NOT IN</b> operators, this field supports: • releasedVersions() • latestReleasedVersion() • unreleasedVersions() • earliestUnreleasedVersion()
Examples	<ul> <li>Find issues where the value of the "Location" custom field is "New York": location = "New York"</li> <li>Find issues where the value of the custom field with ID 10003 is "New York": cf[ 10003 ] = "New York"</li> <li>Find issues where the value of the "Location" custom field is "London" or "Milan" or "Paris": cf[ 10003 ] in ( "London" , "Milan" , "Paris" )</li> <li>Find issues where the "Location" custom field has no value: location != empty</li> </ul>

# Customer Request Type

## Only applicable if Jira Service Management is installed and licensed.

Search for Issues matching a specific Customer Request Type in a service desk project. You can search for a Customer Request Type either by name or description as configured in the Request Type configuration screen.

Syntax	"Customer Request Type"
Field Type	Custom field
Auto- complete	Yes
Supported operators	= , != IN , NOT IN
Unsupported operators	<ul> <li>, !~ , &gt; , &gt;= , &lt; , &lt;=</li> <li>IS , IS NOT, WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED</li> <li>Note that the Lucene value for Customer Request Type, is portal-key /request-type-key. While the portal key cannot be changed after a service desk portal is created, the project key can be changed. The Request Type key cannot be changed once the Request Type is created.</li> </ul>
Supported functions	None

Examples	<ul> <li>Find issues where Customer Request Type is Request a new account in projects that the user has access to: <ul> <li>"Customer Request Type" = "Request a new account"</li> </ul> </li> <li>Find issues where the Customer Request Type is Request a new account in SimpleDesk project, where the right operand is a selected Lucene value from the autocomplete suggestion list. <ul> <li>"Customer Request Type" = "sd/system-access"</li> </ul> </li> </ul>
	<ul> <li>Find issues where Customer Request Type is either Request a new account or Get IT Help.</li> <li>"Customer Request Type" IN( "Request a new account", "Get IT Help")</li> </ul>

# Description

Search for issues where the description contains particular text.Jira text-search syntaxcan be used.

Syntax	description
Field Type	TEXT
Auto-complete	No
Supported operators	~ , !~ IS , IS NOT
Unsupported operators	= , != , > , >= , < , <= IN , NOT IN, WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None
Examples	<ul> <li>Find issues where the description contains text that matches "Please see screenshot" (i.e. a "fuzzy" match): description ~ "Please see screenshot"</li> <li>Find issues where the description contains the exact phrase "Please see screenshot": description ~ "\"Please see screenshot\""</li> </ul>

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## Due

Search for issues that were due on, before, or after a particular date (or date range). Note that the due date relates to the *date*only (not to the time).

Use one of the following formats:

"yyyy/MM/dd" "yyyy-MM-dd"

Or use "w" (weeks) or "d" (days) to specify a date relative to the current date. Be sure to use quote-marks (").

Syntax	due

Alias	dueDate
Field Type	DATE
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	When used with the EQUALS, NOT EQUALS, GREATER THAN, GREATER THAN EQUALS, LESS THAN or LESS THAN EQUALS operators, this field supports: • currentLogin() • lastLogin() • now() • startOfDay() • startOfDay() • startOfWeek() • startOfYear() • endOfDay() • endOfWeek() • endOfWeek() • endOfMonth() • endOfYear()
Examples	<ul> <li>Find all issues due before 31st December 2010: due &lt; "2010/12/31"</li> <li>Find all issues due on or before 31st December 2010: due &lt;= "2011/01/01"</li> <li>Find all issues due tomorrow: due = "1d"</li> <li>Find all issues due in January 2011: due &gt;= "2011/01/01" and due &lt;= "2011/01/31"</li> <li>Find all issues due on 15 January 2011: due = "2011/01/15"</li> </ul>

# Environment

Search for issues where the environment contains particular text.Jira text-search syntaxcan be used.

Syntax	environment
Field Type	TEXT
Auto-complete	No
Supported operators	~ , !~ IS , IS NOT
Unsupported operators	= , != , > , >= , < , <= IN , NOT IN, WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED

Supported functions	None
Examples	<ul> <li>Find issues where the environment contains text that matches "Third floor" (i. e. a "fuzzy" match): environment ~ "Third floor"</li> <li>Find issues where the environment contains the exact phrase "Third floor": environment ~ "\"Third floor\" "</li> </ul>

# Epic link

Search for issues that belong to a particular epic. The search is based on either the epic's name, issue key, or issue ID (i.e. the number that Jira automatically allocates to an issue).

Syntax	"epic link"
Field Type	Epic Link Relationship
Auto-complete	No
Supported operators	= , != IS , IS NOT, IN , NOT IN
Unsupported operators	~ , !~ , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<pre>When used with theINorNOT INoperators, epic link supports:     issueHistory()     linkedIssues()     votedIssues()     watchedIssues()</pre>
Examples	<ul> <li>Find issues that belong to epic "Jupiter", where "Jupiter has the issue key ANERDS-31: "epic link"= ANERDS- 31 or "epic link"= Jupiter</li> </ul>

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## Filter

You can use a saved filter to narrow your search. You can search by filter name or filter ID (i.e. the number that Jira automatically allocates to a saved filter).

Note:

- It is safer to search by filter ID than by filter name. It is possible for a filter name to be changed, which could break a saved filter that invokes another filter by name. Filter IDs, however, are unique and cannot be changed.
- An unnamed link statement in your typed query will override an ORDER BY statement in the saved filter.

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• You cannot run or save a filter that would cause an infinite loop (i.e. you cannot reference a saved filter if it eventually references your current filter).

Syntax	filter
Aliases	request , savedFilter , searchRequest
Field Type	Filter
Auto-complete	Yes
Supported operators	= , != IN , NOT IN
Unsupported operators	~ , !~ , > , >= , < , <= IS , IS NOT, WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None
Examples	<ul> <li>Search the results of the filter "My Saved Filter" (which has an ID of 12000) for issues assigned to the user jsmith: filter = "My Saved Filter" and assignee = jsmith or filter = 12000and assignee = jsmith</li> </ul>

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# Fix version

Search for issues that are assigned to a particular fix version. You can search by version name or version ID (i.e. the number that Jira automatically allocates to a version).

Note, it is safer to search by version ID than by version name.Different projects may have versions with the same name, so searching by version name may return issues from multiple projects. It is also possible for your Jira administrator to change the name of a version, which could break any saved filters that rely on that name. Version IDs, however, are unique and cannot be changed.

Syntax	fixVersion
Field Type	VERSION
Auto-complete	Yes
Supported operators	<ul> <li>= , != , &gt; , &gt;= , &lt; , &lt;= , ~ , !~</li> <li>IS , IS NOT, IN , NOT IN, WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED</li> <li>The comparison operators (e.g. "&gt;") use theversion orderthat has been set up by your project administrator, not a numeric or alphabetic order.</li> <li>For this field, the contain operators (~ and !~) find exact matches, and can be used to search through versions with a wildcard.</li> </ul>
Unsupported operators	

Supported functions	<ul> <li>When used with theINandNOT INoperators, this field supports:</li> <li>releasedVersions()</li> <li>latestReleasedVersion()</li> <li>unreleasedVersions()</li> <li>earliestUnreleasedVersion()</li> </ul>
Examples	<ul> <li>Find issues with a Fix Version of 3.14 or 4.2: fixVersion in ("3.14", "4.2") (Note that full-stops are reservedcharacters, so they need to be surrounded by quote-marks.)</li> <li>Find issues with a Fix Version of "Little Ted": fixVersion = "Little Ted"</li> <li>Find issues with a Fix Version ID of 10001: fixVersion = 10001</li> </ul>

# Issue key

Search for issues with a particular issue key or issueID (i.e. the number that Jira automatically allocates to an issue).

Syntax	issueKey
Aliases	id , issue , key
Field Type	ISSUE
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT, IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<pre>When used with theINorNOT INoperators, issueKey supports:     issueHistory()     linkedIssues()     updatedBy()     votedIssues()     watchedIssues()</pre>
Examples	<ul> <li>Find the issue with key "ABC-123": issueKey = ABC- 123</li> </ul>

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Issue link type

Issue linking allows you to create associations between issues on either the same or different Jira servers. For example, an issue may*duplicate*another issue or*depend*on the resolution of another issue.You can find detailed information about issue links inConfiguring issue linking.

When searching for issues with a particular link type, you can only find linked issues that are on the same Jira instance you're searching on. Links to issues on a remote Jira instance or to Confluence pages won't be included.

Use the following JQL query to add colors to your issue cards! For example, add a red stripe to issues that have some blockers, and keep all other issues green. This will help you bring the right information to your teams attention, at a glance. For more info, see Customizing cards.

Syntax	issueLinkType
Auto-complete	Yes
Supported operators	= , != IN , NOT IN
Unsupported operators	~ , !~ , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED , IS , IS NOT
Supported functions	None
Examples	<ul> <li>Find issues with a link type of "blocks": issueLinkType = blocks</li> <li>Find issues with an issue type of "duplicates" or "is duplicated by": issueLinkType in (duplicates, "is duplicated by")</li> <li>Find issues with link types other than clones: issueLinkType != clones <ul> <li>This query will also return issues with no links at all.</li> </ul> </li> <li>Find issues that are blocker by other issues, or that don't have any blockers. issueLinkType = "is blocked by"</li> </ul>

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## Labels

Search for issues tagged with a label or list of labels. You can also search for issues without any labels to easily identify which issues need to be tagged so they show up in the relevant sprints, queues or reports.

Syntax	labels
Field Type	LABEL
Auto-complete	Yes
Supported operators	<ul> <li>= , !=, IS, IS NOT, IN, NOT IN</li> <li>We recommend using IS or IS NOT to search for a single label, and IN or NOT IN to search for a list of labels.</li> </ul>
Unsupported operators	~ , !~ , , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED

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Supported functions	None
Examples	<ul> <li>Find issues with an existing label: labels = "x"</li> <li>Find issues without a specified label, including issues without a label: labels not in ("x") or labels is EMPTY</li> </ul>

# Last viewed

Search for issues that were last viewed on, before, or after a particular date (or date range). Note that if a time-component is not specified, midnight will be assumed. Please note that the search results will be relative to your configured time zone (which is by default the Jira server's time zone).

Use one of the following formats:

"yyyy/MM/dd HH:mm" "yyyy-MM-dd HH:mm" "yyyy/MM/dd" "yyyy-MM-dd"

Or use "w" (weeks), "d" (days), "h" (hours) or "m" (minutes) to specify a date relative to the current time. The default is "m" (minutes). Be sure to use quote-marks ("); if you omit the quote-marks, the number you supply will be interpreted as milliseconds after epoch (1970-1-1).

Syntax	lastViewed
Field Type	DATE
Auto- complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT, IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	When used with the EQUALS, NOT EQUALS, GREATER THAN, GREATER THAN EQUALS, LESS THANOILESS THAN EQUALS operators, this field supports: • currentLogin() • lastLogin() • now() • startOfDay() • startOfDay() • startOfWeek() • startOfYear() • endOfDay() • endOfWeek() • endOfMonth() • endOfYear()

Examples	<ul> <li>Find all issues last viewed before 12th December 2010: lastViewed &lt; "2010/12/12"</li> <li>Find all issues last viewed on or before 12th December 2010: lastViewed &lt;= "2010/12/13"</li> <li>Find all issues last viewed on 12th December 2010 before 2:00pm: lastViewed &gt; "2010/12/12" and created &lt; "2010/12/12 14:00"</li> <li>Find issues last viewed less than one day ago: lastViewed &gt; "-1d"</li> <li>Find issues last viewed in January 2011: lastViewed &gt; "2011/01/01" and created &lt; "2011/02/01"</li> <li>Find issues last viewed on 15 January 2011: lastViewed &gt; "2011/01/15" and created &lt; "2011/01/16"</li> </ul>
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# Level

### Only available if issue level security has been enabled by your Jira administrator.

Search for issues with a particular security level. You can search by issue level securityname or issue level securityID (i.e. the number that Jira automatically allocates to an issue level security).

Note, it is safer to search by security levelID than by security level name. It is possible for your Jira administrator to change the name of a security level, which could break any saved filter that rely on that name. Security level IDs, however, are unique and cannot be changed.

Syntax	level
Field Type	SECURITY LEVEL
Auto-complete	Yes
Supported operators	= , != IS , IS NOT, IN , NOT IN
Unsupported operators	> , >= , < , <= , ~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None
Examples	<ul> <li>Search for issues with a security level of "Really High" or "level1": level in ("Really High", level1)</li> <li>Search for issues with a security level ID of 123: level = 123</li> </ul>

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# Original estimate

Only available if time-tracking has been enabled by your Jira administrator.

Search for issues where the original estimate is set to a particular value (i.e. a number, not a date or date range).Use "w", "d", "h" and "m" to specify weeks, days, hours, or minutes.

Syntax	originalEstimate	

Alias	timeOriginalEstimate
Field Type	DURATION
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT, IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None
Examples	<ul> <li>Find issues with an original estimate of 1 hour: originalEstimate = 1h</li> <li>Find issues with an original estimate of more than 2 days: originalEstimate &gt; 2d</li> </ul>

## Parent

Only available if sub-tasks have been enabled by your Jira administrator.

Search for all sub-tasks of a particular issue. You can search by issue key or by issue ID (i.e. the number that Jira automatically allocates to an Issue).

Syntax	parent
Field Type	ISSUE
Auto-complete	No
Supported operators	= , != IN , NOT IN
Unsupported operators	> , >= , < , <= , ~ , !~ IS , IS NOT, WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None

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# Priority

Search for issues with a particular priority. You can search by priorityname or priorityID (i.e. the number that Jira automatically allocates to a priority).

Note, it is safer to search by priorityID than by priorityname. It is possible for your Jira administrator to change the name of a priority, which could break any saved filter that rely on that name. Priority IDs, however, are unique and cannot be changed.

Syntax	priority
Field Type	PRIORITY
Auto-complete	Yes
Supported operators	= , != , > , >= , < , <= IS , IS NOT, IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Unsupported operators	~ , !~
Supported functions	None
Examples	<ul> <li>Find issues with a priority of "High": priority = High</li> <li>Find issues with a priority ID of 10000: priority = 10000</li> </ul>

# Project

Search for issues that belong to a particular project.You can search by projectname, by projectkey or by projectID (i.e. the number that Jira automatically allocates to a project). In the rare case where there is a project whose project key is the same as another project's name, then the project key takes preference and hides results from the second project.

Syntax	project
Field Type	PROJECT
Auto-complete	Yes
Supported operators	= , != IS , IS NOT, IN , NOT IN
Unsupported operators	> , >= , < , <= , ~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<ul> <li>When used with the IN and NOT IN operators, project supports:</li> <li>projectsLeadByUser()</li> <li>projectsWhereUserHasPermission()</li> <li>projectsWhereUserHasRole()</li> </ul>
Examples	<ul> <li>Find issues that belong to the Project that has the name "ABC Project": project = "ABC Project"</li> <li>Find issues that belong to the project that has the key "ABC": project = "ABC"</li> <li>Find issues that belong to the project that has the ID "1234": project = 1234</li> </ul>

# Remaining estimate

Only available if time-tracking has been enabled by your Jira administrator.

Search for issues where the remaining estimate is set to a particular value (i.e. a number, not a date or date range).Use "w", "d", "h" and "m" to specify weeks, days, hours, or minutes.

Syntax	remainingEstimate
Alias	timeEstimate
Field Type	DURATION
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT, IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None
Examples	<ul> <li>Find issues with a remaining estimate of more than 4 hours: remainingEstimate &gt; 4h</li> </ul>

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# Reporter

Search for issues that were reported by a particular user. This may be the same as the creator, but can be distinct. You can search by the user's full name, ID, or email address.

Syntax	reporter
Field Type	USER
Auto-complete	Yes
Supported operators	= , != IS , IS NOT, IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Unsupported operators	~ , !~ , > , >= , < , <=
Supported functions	<ul> <li>When used with the IN and NOT IN operators, this field supports:</li> <li>membersOf()</li> <li>When used with the EQUALS and NOT EQUALS operators, this field supports:</li> <li>currentUser()</li> </ul>

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<pre>Examples • Search for issues that were reported by Jill Jones:     reporter = "Jill Jones"     or     reporter = jjones • Search for issues that were reported by the user with email address " bob@n     ompany.com ":     reporter = "bob@mycompany.com"     (Note that full-stops and "@" symbols are reserved characters, so the email address needs     be surrounded by quote-marks.)</pre>
--

# Request channel type

## Only applicable if Jira Service Management is installed and licensed.

Search for issues that were requested through a specific channel (e.g. issues submitted via email or through a Service Desk portal).

Syntax	request-channel-type
Field Type	TEXT
Auto-complete	Yes
Supported	= , !=
operators	IS, IS NOT, IN, NOT IN
Unsupported operators	~ , !~ , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	<ul> <li>When used with the IN and NOT IN operators, this field supports:</li> <li>email: requests submitted via email</li> <li>Jira: requests created using Jira</li> <li>portal: requests created using a Service Desk portal</li> <li>api: requests created using a REST API</li> </ul>
Examples	<ul> <li>Find issues where the request channel was email: request-channel-type = email</li> <li>Find issues where the request channel was something other than a service desk portal: request-channel-type != portal</li> </ul>

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# Request last activity time

Only applicable if Jira Service Management is installed and licensed.

Search for issues thatwere last actedon or created:

• on a particular date.

• before/after a particular date (or date range).

Note that if a time-component is not specified, midnight will be assumed. Please note that the search results will be relative to your configured time zone (which is by default the Jira server's time zone).

Use one of the following formats:

```
"yyyy/MM/dd HH:mm"
"yyyy-MM-dd HH:mm"
"yyyy/MM/dd"
"yyyy-MM-dd"
```

Or use "w" (weeks), "d" (days), "h" (hours) or "m" (minutes) to specify a date relative to the current time. The default is "m" (minutes). Be sure to use quote-marks ("); if you omit the quote-marks, the number you supply will be interpreted as milliseconds after epoch (1970-1-1).

Syntax	request-last-activity-time
Field Type	DATE
Auto-complete	Yes
Supported operators	= , != , > , >= , < , <= IS, IS NOT, IN, NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	When used with the EQUALS, NOT EQUALS, GREATER THAN, GREATER THAN EQUALS, LESS THANORLESS THAN EQUALS operators, this field supports: • currentLogin() • lastLogin() • now() • startOfDay() • startOfWeek() • startOfWeek() • startOfYear() • endOfDay() • endOfWeek() • endOfWeek() • endOfYear()
Examples	<ul> <li>Find all issues last acted on before 23rd May 2016: request-last-activity-time &lt; "2016/05/23"</li> <li>Find all issues last acted on or before23rd May 2016: request-last-activity-time &lt;= "2016/05/23"</li> <li>Find all issues created on23rd May 2016and last acted on before 2:00pm that day: created &gt; "2016/05/23"ANDrequest-last-activity-time &lt; "201 6/05/2314:00"</li> <li>Find issues last acted on less than one day ago: request-last-activity-time &gt; "-1d"</li> <li>Find issues last acted on in January 2016: request-last-activity-time &gt; "2016/01/01"and request-last- activity-time &lt; "2016/02/01"</li> </ul>

# Resolution

Search for issues that have a particular resolution. You can search by resolutionname or resolutionID (i.e. the number that Jira automatically allocates to a resolution).

Note, it is safer to search by resolutionID than by resolutionname. It is possible for your Jira administrator to change the name of a resolution, which could break any saved filter that rely on that name. Resolution IDs, however, are unique and cannot be changed.

Syntax	resolution
Field Type	RESOLUTION
Auto-complete	Yes
Supported operators	= , != , > , >= , < , <= IS , IS NOT, IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Unsupported operators	~ , !~
Supported functions	None
Examples	<ul> <li>Find issues with a resolution of "Cannot Reproduce" or "Won't Fix": resolution in ("Cannot Reproduce", "Won't Fix")</li> <li>Find issues with a resolution ID of 5: resolution = 5</li> <li>Find issues that do not have a resolution: resolution = unresolved</li> </ul>

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## Resolved

Search for issues that were resolved on, before, or after a particular date (or date range). Note that if a timecomponent is not specified, midnight will be assumed. Please note that the search results will be relative to your configured time zone (which is by default the Jira server's time zone).

Use one of the following formats:

"yyyy/MM/dd HH:mm" "yyyy-MM-dd HH:mm" "yyyy/MM/dd" "yyyy-MM-dd"

Or use "w" (weeks), "d" (days), "h" (hours) or "m" (minutes) to specify a date relative to the current time. The default is "m" (minutes). Be sure to use quote-marks ("); if you omit the quote-marks, the number you supply will be interpreted as milliseconds after epoch (1970-1-1).

Syntax	resolved
Alias	resolutionDate

Field Type	DATE
Auto- complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT, IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	When used with the EQUALS, NOT EQUALS, GREATER THAN, GREATER THAN EQUALS, LESS THAN or LESS THAN EQUALS operators, this field supports: • currentLogin() • lastLogin() • now() • startOfDay() • startOfWeek() • startOfWeek() • endOfMonth() • endOfWeek() • endOfWeek() • endOfMonth() • endOfYear()
Examples	<ul> <li>Find all issues that were resolved before 31st December 2010: resolved &lt;= "2010/12/31"</li> <li>Find all issues that were resolved before 2.00pm on 31st December 2010: resolved &lt; "2010/12/31 14:00"</li> <li>Find all issues that were resolved on or before 31st December 2010: resolved &lt;= "2011/01/01"</li> <li>Find issues that were resolved in January 2011: resolved &gt; "2011/01/01" and resolved &lt; "2011/02/01"</li> <li>Find issues that were resolved on 15 January 2011: resolved &gt; "2011/01/15" and resolved &lt; "2011/01/16"</li> <li>Find issues that were resolved in the last hour: resolved &gt; -1h</li> </ul>

SLA

Used in Jira Service Management only

Search for requests whose SLAs are in a certain

Syntax	Time to resolution
	Time to first response
	<your custom="" name="" sla=""></your>
Field Type	SLA
Auto-complete	No
Supported operators	= , !=, > , >= , < , <=

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Unsupported operators	~ , !~ IS , IS NOT , IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<ul> <li>breached()</li> <li>completed()</li> <li>elapsed()</li> <li>everBreached()</li> <li>paused()</li> <li>remaining()</li> <li>running()</li> <li>withinCalendarHours()</li> </ul>
Examples	<ul> <li>Find issues where Time to First Response was breached: "Time to First Response" = everBreached()</li> <li>Find issues where the SLA for Time to Resolution is paused due to a condition: "Time to Resolution" = paused()</li> <li>Find issues where the SLA for Time to Resolution is paused due to the SLA calendar: "Time to Resolution" = withinCalendarHours()</li> <li>Find issues that have been waiting for a response for more than 1 hour: "Time to First Response" &gt; elapsed("1h")</li> <li>Find issues that that will breach Time to First Response in the next two hours: "Time to First Response" &lt; remaining("2h")</li> </ul>

# Sprint

Search for issues that are assigned to a particular sprint. This works for active sprints and future sprints. The search is based on either the sprint name or the sprint ID (i.e. the number that Jira automatically allocates to a sprint).

If you have multiple sprints with similar (or identical) names, you can simply search by using the sprint name or even just part of it. The possible matches will be shown in the autocomplete drop-down, with the sprint dates shown to help you distinguish between them. (The sprint ID will also be shown, in brackets).

Syntax	sprint
Field Type	NUMBER
Auto-complete	Yes
Supported operators	= , != IS , IS NOT, IN , NOT IN
Unsupported operators	~ , !~ , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<ul> <li>openSprints()</li> <li>closedSprints()</li> </ul>

Examples	<ul> <li>Find issues that belong to sprint 999: sprint = 999</li> <li>Find issues that belong to sprint "February 1": sprint = "February 1"</li> <li>Find issues that belong to either "February 1", "February 2" or "February 3": sprint in ( "February 1", "February 2", "February 3")</li> <li>Find issues that are assigned to a sprint: sprint is not empty</li> </ul>
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# Status

Search for issues that have a particular status. You can search by statusname or statusID (i.e. the number that Jira automatically allocates to a status).

Note:

- It is safer to search by statusID than statusname. It is possible for your Jira administrator to change the name of a status, which could break any saved filter that rely on that name. Status IDs, however, are unique and cannot be changed.
- The WAS, WAS NOT, WAS IN and WAS NOT IN operators can only be used with the name, not the ID.

Syntax	status
Field Type	STATUS
Auto-complete	Yes
Supported operators	= , != IS , IS NOT, IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Unsupported operators	~ , !~ , > , >= , < , <=
Supported functions	None
Examples	<ul> <li>Find issues with a status of "Open": status = Open</li> <li>Find issues with a status ID of 1: status = 1</li> <li>Find issues that currently have, or previously had, a status of "Open": status WAS Open</li> </ul>

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# Summary

Search for issues where the summary contains particular text.Jira text-search syntaxcan be used.

Syntax

summary

Field Type	TEXT
Auto-complete	No
Supported operators	~ , !~ IS , IS NOT
Unsupported operators	= , != , > , >= , < , <= IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None
Examples	<ul> <li>Find issues where the summary contains text that matches "Error saving file" (i. e. a "fuzzy" match): summary ~ "Error saving file"</li> <li>Find issues where the summary contains the exact phrase "Error saving file": summary ~ "\"Error saving file\""</li> </ul>

# Text

This is a "master-field" that allows you to search all text fields, i.e.:

- Summary
- Description
- Environment
- Comments
- custom fields that use the "free text searcher"; this includes custom fields of the following built-in custom field types:
  - Free text field (unlimited text)
  - Textfield(< 255 characters)</li>
    Read-onlytext field

#### Notes:

- The textmaster-field can only be used with the CONTAINS operator ("~" and "!~").
- Jira text-search syntaxcan be used with these fields.

Syntax	text
Field Type	TEXT
Auto-complete	No
Supported operators	~
Unsupported operators	= , != , !~ , > , >= , < , <= IS , IS NOT , IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None

Examples	<ul> <li>Find issues where a text field matches the word "Fred": text ~ "Fred" or text ~ Fred</li> <li>Find all issues where a text field contains the exact phrase "full screen": text ~ "\"full screen\""</li> </ul>
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# Time spent

Only available if time-tracking has been enabled by your Jira administrator.

Search for issues where the time spent is set to a particular value (i.e. a number, not a date or date range). Use "w", "d", "h" and "m" to specify weeks, days, hours, or minutes.

Syntax	timeSpent
Field Type	DURATION
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Unsupported operators Supported functions	-

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# Туре

Search for issues that have a particular issue type.You can search by issue typename or issue typeID (i.e. the number that Jira automatically allocates to an issue type).

Note, it is safer to search bytypeID thantypename. It is possible for your Jira administrator to change the name of a type, which could break any saved filter that rely on that name. Type IDs, however, are unique and cannot be changed.

Syntax	type
Alias	issueType
Field Type	ISSUE_TYPE
Auto-complete	Yes
Supported operators	= , != IS , IS NOT , IN , NOT IN

Unsupported operators	~ , !~ , > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None
Examples	<ul> <li>Find issues with an issue type of "Bug": type = Bug</li> <li>Find issues with an issue typeof "Bug" or "Improvement": issueType in (Bug, Improvement)</li> <li>Find issues with an issue type ID of 2: issueType = 2</li> </ul>

# Updated

Search for issues that were last updated on, before, or after a particular date (or date range). Note that if a time-component is not specified, midnight will be assumed. Please note that the search results will be relative to your configured time zone (which is by default the Jira server's time zone).

Use one of the following formats:

"yyyy/MM/dd HH:mm" "yyyy-MM-dd HH:mm" "yyyy/MM/dd" "yyyy-MM-dd"

Or use "w" (weeks), "d" (days), "h" (hours) or "m" (minutes) to specify a date relative to the current time. The default is "m" (minutes). Be sure to use quote-marks ("); if you omit the quote-marks, the number you supply will be interpreted as milliseconds after epoch (1970-1-1).

Syntax	updated
Alias	updatedDate
Field Type	DATE
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED

Supported functions	When used with the EQUALS, NOT EQUALS, GREATER THAN, GREATER THAN EQUALS, LESS THAN or LESS THAN EQUALS operators, this field supports: • currentLogin() • lastLogin() • now() • startOfDay() • startOfWeek() • startOfWeek() • endOfMonth() • endOfWeek() • endOfWeek() • endOfMonth() • endOfYear()
Examples	<ul> <li>Find issues that were last updated before 12th December 2010: updated &lt; "2010/12/12"</li> <li>Find issues that were last updated on or before 12th December 2010: updated &lt; "2010/12/13"</li> <li>Find all issues that were last updated before 2.00pm on 31st December 2010: updated &lt; "2010/12/31 14:00"</li> <li>Find issues that were last updated more than two weeks ago: updated &lt; "-2w"</li> <li>Find issues that were last updated on 15 January 2011: updated &gt; "2011/01/15" and updated &lt; "2011/01/16"</li> <li>Find issues that were last updated in January 2011: updated &gt; "2011/01/10" and updated &lt; "2011/02/01"</li> </ul>

# Voter

Search for issues for which a particular user has voted. You can search by the user's full name, ID, or email address. Note that you can only find issues for which you have the "View Voters and Watchers" permission, unless you are searching for your own votes. See alsovotedIssues.

Syntax	voter
Field Type	USER
Auto-complete	Yes
Supported operators	= , != IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~, > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<ul> <li>When used with the IN and NOT IN operators, this field supports:</li> <li>membersOf()</li> <li>When used with the EQUALS and NOT EQUALS operators, this field supports:</li> <li>currentUser()</li> </ul>

Examples	<ul> <li>Search for issues that you have voted for: voter = currentUser()</li> <li>Search for issues that the user "jsmith" has voted for: voter = "jsmith"</li> <li>Search for issues for which a member of the group "Jira-administrators" has voted: voter in membersOf("Jira-administrators")</li> </ul>
----------	--

## Votes

Search for issues with a specified number of votes.

Syntax	votes
Field Type	NUMBER
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IN , NOT IN
Unsupported operators	~ , !~
	IS , IS NOT , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None

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# Watcher

Search for issues that a particular user is watching. You can search by the user's full name, ID, or email address. Note that you can only find issues for which you have the "View Voters and Watchers" permission, unless you are searching for issues where you are the watcher. See also<u>watchedlssues</u>.

Syntax	watcher
Field Type	USER
Auto-complete	Yes
Supported operators	= , != IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~, > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED

Supported functions	<ul> <li>When used with the IN and NOT IN operators, this field supports:</li> <li>membersOf()</li> <li>When used with the EQUALS and NOT EQUALS operators, this field supports:</li> </ul>
	• currentUser()
Examples	<ul> <li>Search for issues that you are watching: watcher = currentUser()</li> <li>Search for issues that the user "jsmith" is watching: watcher = "jsmith"</li> <li>Search for issues that are being watched by a member of the group "Jira- administrators": watcher in membersOf("Jira-administrators")</li> </ul>

### Watchers

Search for issues with a specified number of watchers.

Syntax	watchers
Field Type	NUMBER
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IN , NOT IN
Unsupported operators	~ , !~ IS , IS NOT , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<ul> <li>When used with the IN and NOT IN operators, this field supports:</li> <li>membersOf()</li> <li>When used with the EQUALS and NOT EQUALS operators, this field supports:</li> <li>currentUser()</li> </ul>
Examples	<ul> <li>Find all issues that are being watched by more than 3 people: watchers &gt; 3</li> </ul>

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### Work log author

Only available if time-tracking has been enabled by your Jira administrator.

Search for issues a particular user has logged work against. You can search by the user's full name, ID, or email address. Note that you can only find issues for which you have "Time Tracking" permissions, unless you are searching for issues that you've logged work against.

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Syntax	worklogAuthor
Field Type	USER
Auto-complete	Yes
Supported operators	= , != IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~, > , >= , < , <= WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	<ul> <li>When used with the IN and NOT IN operators, this field supports:</li> <li>membersOf()</li> <li>When used with the EQUALS and NOT EQUALS operators, this field supports:</li> <li>currentUser()</li> </ul>
Examples	<ul> <li>Search for issues that you've logged work against: worklogAuthor = currentUser()</li> <li>Search for issues that the user "jsmith" has logged work against: worklogAuthor = "jsmith"</li> <li>Search for issues that a member of the group "Jira-software-users": worklogAuthor in membersOf("Jira-software-users")</li> </ul>

# Work log comment

Only available if time-tracking has been enabled by your Jira administrator.

Search for issues that have a comment in a work log entry which contains particular text.Jira text-search
syntaxcan be used.

Syntax	worklogComment
Field Type	TEXT
Auto-complete	No
Supported operators	~ , !~
Unsupported operators	= , != , > , >= , < , <= IS , IS NOT , IN , NOT IN , WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None

<ul> <li>Find issues where a comment in a work log entry contains text that sessions" (i.e. a "fuzzy" match): comment ~ "test sessions"</li> <li>Find issues where a comment contains the exact phrase "test sess summary ~ "\"test sessions\""</li> </ul>	
--	--

### Work log date

#### Only available if time-tracking has been enabled by your Jira administrator.

Search for issues that have comments in work log entries that were created on, before, or after a particular date (or date range). Note that if a time-component is not specified, midnight 00:00 will be assumed. Please note that the search results will be relative to your configured time zone (which is by default the Jira server's time zone).

Use one of the following formats:

"yyyy/MM/dd HH:mm" "yyyy-MM-dd HH:mm" "yyyy/MM/dd" "yyyy-MM-dd"

Or use "w" (weeks), "d" (days), "h" (hours) or "m" (minutes) to specify a date relative to the current time. The default is "m" (minutes). Be sure to use quote-marks ("); if you omit the quote-marks, the number you supply will be interpreted as milliseconds after epoch (1970-1-1).

Syntax	worklogDate
Field Type	DATE
Auto- complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN, CHANGED
Supported functions	When used with the EQUALS, NOT EQUALS, GREATER THAN, GREATER THAN EQUALS, LESS THAN or LESS THAN EQUALS operators, this field supports: • currentLogin() • lastLogin() • now() • startOfDay() • startOfDay() • startOfWeek() • startOfYear() • endOfDay() • endOfWeek() • endOfMonth() • endOfYear()

Examples	<ul> <li>Find issues that have comments in work log entries created before midnight 00:00 12th December 2010: worklogDate &lt; "2010/12/12"</li> <li>Find issues that have comments in work log entries createdon or before 12th December 2010 (but not 13th December 2010): worklogDate &lt;= "2010/12/13"</li> <li>Find issues that have comments in work log entries createdon 12th December 2010 before 2:00pm: worklogDate &gt; "2010/12/12" and worklogDate &lt; "2010/12/12 14:00"</li> <li>Find issues that have comments in work log entries createdless than one day ago: worklogDate &gt; "-1d"</li> <li>Find issues that have comments in work log entries created in January 2011: worklogDate &gt; "2011/01/01" and worklogDate &lt; "2011/02/01"</li> <li>Find issues that have comments in work log entries created on 15 January 2011: worklogDate &gt; "2011/01/15" and worklogDate &lt; "2011/01/16"</li> </ul>

### Work ratio

Only available if time-tracking has been enabled by your Jira administrator.

Search for issues where the work ratio has a particular value.Workratiois calculated as follows:workRatio = (timeSpent / originalEstimate) x 100

Syntax	workRatio
Field Type	NUMBER
Auto-complete	No
Supported operators	= , != , > , >= , < , <= IS , IS NOT , IN , NOT IN
Unsupported operators	~ , !~ WAS, WAS IN, WAS NOT, WAS NOT IN , CHANGED
Supported functions	None
Examples	<ul> <li>Find issues on which more than 75% of the original estimate has been spent: workRatio &gt; 75</li> </ul>

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# Advanced searching - keywords reference

This page describes information about keywords that are used for advanced searching.

A keyword in JQL is a word or phrase that does any of the following:

- joins two or more clauses together to form a complex JQL query
- alters the logic of one or more clauses
- alters the logic of operators
- has an explicit definition in a JQL query
- performs a specific function that alters the results of a JQL query

### AND

Used to combine multiple clauses, allowing you to refine your search.

You can also use parentheses to control the order in which clauses are executed. See Precedence in JQL queries for details.

• Find all open issues in the "New office" project:

project = "New office" and status = "open"

• Find all open, urgent issues that are assigned to jsmith:

status = open and priority = urgent and assignee = jsmith

• Find all issues in a particular project that are not assigned to jsmith:

project = JRA and assignee != jsmith

 Find all issues for a specific release which consists of different version numbers across several projects:

project in (JRA,CONF) and fixVersion = "3.14"

• Find all issues where neither the Reporter nor the Assignee is Jack, Jill or John:

reporter not in (Jack,Jill,John) and assignee not in (Jack,Jill,John)

# OR

 $\oslash$ 

Used to combine multiple clauses, allowing you to expand your search.

You can also use parentheses to control the order in which clauses are executed. See Precedence in JQL queries for details.

Find all issues that were created by either jsmith or jbrown:

reporter = jsmith or reporter = jbrown

• Find all issues that are overdue or where no due date is set:

duedate < now() or duedate is empty

### On this page:

- AND
- OR
- NOT
- EMPTYNULL
- ORDER BY
- -----

Check out the usage of IN operator, which can be a more convenient way to search for multiple values of a field.

# NOT

Used to negate individual clauses or a complex JQL query (a query made up of more than one clause) using parentheses, allowing you to refine your search.

• Find all issues that are assigned to any user except jsmith:

```
not assignee = jsmith
```

Find all issues that were not created by either jsmith or jbrown:

```
not (reporter = jsmith or reporter = jbrown)
```

Check out the usage of NOT EQUALS("!="),DOES NOT CONTAIN("!~"),NOT INandIS NOT operators that are often used to negate clauses in a JQL query.

### EMPTY

Used to search for issues where a given field does not have a value. See alsoNULL.

Note that EMPTY can only be used with fields that support the Sandis NOT operators. To see a field's supported operators, check the individual field reference.

• Find all issues without a DueDate:

### NULL

Used to search for issues where a given field does not have a value. See also EMPTY.

Note that NULL can only be used with fields that support the SandIS NOT operators. To see a field's supported operators, check the individual field reference.

Find all issues without a DueDate:

```
duedate = null
Or
duedate is null
```

### ORDER BY

Used to specify the fields by whose values the search results will be sorted.

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By default, the field's own sorting order will be used. You can override this by specifying ascending order ("asc ") or descending order ("desc").

• Find all issues without aDueDate, sorted byCreationDate:

duedate = empty order by created

• Find all issues without aDueDate, sorted byCreationDate, then byPriority(highest to lowest):

```
duedate = empty order by created, priority desc
```

• Find all issues without aDueDate, sorted byCreationDate, then byPriority(lowest to highest):

```
duedate = empty order by created, priority asc
```

Ordering by Components or Versions will list the returned issues first by Project, and only then by the field's natural order (see JRA-31113).

# Advanced searching - operators reference

This page describes information about operators that are used for advanced searching.

An operator in JQL is one or more symbols or words that compare the value of a field on its left with one or more values orfunctions on its right. So, only valid results are retrieved by the clause. Some operators may use the NOTk eyword.

# EQUALS: =

The = operator is used to search for issues where the value of a specified field exactly matches a specified value.

To find issues where the value of a specified field exactly matchesmultiple values, use multiple EQUALS (=) statements with the AND keyword.

The operator can't be used with text fields. See the CONTAINS operator.

#### Examples

• Find all issues that were created by jsmith:

reporter = jsmith

• Find all issues that were created by John Smith:

```
reporter = "John Smith"
```

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# NOT EQUALS: !=

The != operator is used to search for issues where the value of a specified field doesn't match a specified value.



- The operator can't be used with text fields. See the DOES NOT MATCH (!~) operator instead.
- field != value is the same asNOT field = value.
- field != EMPTY is the same as field IS\_NOTEMPTY.
- The operator won't match a field that has no value (an empty field). For example, component != fredwill only match issues that have a component and this component isn't "fred". To find issues that have a component other than "fred" or have no component, you should typecompo nent != fred or component is empty.

Examples

• Find all issues that are assigned to any user except jsmith:

not assignee = jsmith

or

assignee != jsmith

### On this page:

- EQUALS: =
- NOT EQUALS: !=
- GREATER THAN:
- GREATER THAN EQUALS: >=
- LESS THAN: <</li>
- LESS THAN EQUALS: <=
- IN
- NOT IN
- CONTAINS: ~
- DOES NOT CONTAIN: !~
- IS
- IS NOT
- WAS
- WAS IN
- WAS NOT IN
- WAS NOTCHANGED

Find all issues that are not assigned to jsmith:

assignee != jsmith or assignee is empty

Find all issues that were reported by you but aren't assigned to you:

reporter = currentUser() and assignee != currentUser()

• Find all issues where the Reporter or Assignee is anyone except John Smith:

assignee != "John Smith" or reporter != "John Smith"

· Find all issues that aren't unassigned:

assignee is not empty

or

assignee != null

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### GREATER THAN: >

The > operator is used to search for issues where the value of a specified field is greater than a specified value.

The operator can only be used with fields that support ordering and can't be used with text fields. For example, date fields and version fields.

To see a field's supported operators, check the individual field reference.

Examples

• Find all issues with more than four votes:

votes > 4

• Find all overdue issues:

duedate < now() and resolution is empty

• Find all issues where priority is higher than "Normal":

```
priority > normal
```

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### GREATER THAN EQUALS: >=

The >= operator is used to search for issues where the value of a specified field is greater than or equal to a specified value.

The operator can only be used with fields that support ordering and can't be used with text fields. For example, date fields and version fields.

To see a field's supported operators, check the individual field reference.

Examples

· Find all issues with four or more votes:

```
votes >= 4
```

• Find all issues due on or after 31/12/2008:

duedate >= "2008/12/31"

• Find all issues created in the last five days:

created >= "-5d"

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# LESS THAN: <

The < operator is used to search for issues where the value of a specified field is less than a specified value.

The operator can only be used with fields that support ordering and can't be used with text fields. For example, date fields and version fields.

To see a field's supported operators, check the individual field reference.

Examples

Find all issues with less than votes:

votes < 4

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### LESS THAN EQUALS: <=

The <= operator is used to search for issues where the value of a specified field is less than or equal to a specified value.

The operator can only be used with fields that support ordering and can't be used with text fields. For example, date fields and version fields.

To see a field's supported operators, check the individual field reference.

Examples

Find all issues with four or fewer votes:

votes <= 4

• Find all issues that haven't been updated in the last month (30 days):

```
updated <= "-4w 2d"
```

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IN

The IN operator is used to search for issues where the value of a specified field is one of multiple specified values. The values are specified as a comma-separated list, surrounded by parentheses.

```
UsingIN is equivalent to using multiple EQUALS(=) statements, but is shorter and more convenient.
That is, reporter IN (tom, jane, harry) is the same as reporter = "tom"ORreporter
= "jane"ORreporter = "harry".
```

Examples

• Find all issues that were created by either jsmith, jbrown, or jjones:

reporter in (jsmith,jbrown,jjones)

• Find all issues where the Reporter or Assignee is either Jack or Jill:

```
reporter in (Jack, Jill) or assignee in (Jack, Jill)
```

Find all issues in version 3.14 or version 4.2:

```
affectedVersion in ("3.14", "4.2")
```

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### NOT IN

The NOT IN operator is used to search for issues where the value of a specified field isn't one of multiple specified values.

Using NOT INIS equivalent to using multipleNOT\_EQUALS(!=) statements, but is shorter and more convenient. That is, reporter NOT IN (tom, jane, harry) is the same as reporter != "tom"ANDreporter != "jane"ANDreporter != "harry".

Also, theNOT INOperator won't match a field that has no value (a field is empty). For example, assignee not in (jack,jill) will only match issues that have an assignee and this assignee isn't "jack" or "jill".

To find issues that are assigned to someone other than "jack" or "jill" or are unassigned, you should type:assignee not in (jack,jill) or assignee is empty.

Examples

• Find all issues where the Assignee is someone other than Jack, Jill, or John:

assignee not in (Jack, Jill, John)

Find all issues where the Assignee isn't Jack, Jill, or John:

assignee not in (Jack,Jill,John) or assignee is empty

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• Find all issues where the fix version isn't A, B, C, or D:

```
FixVersion not in (A, B, C, D)
```

Find all issues where the fix version isn't A, B, C, or D, or has not been specified:

FixVersion not in (A, B, C, D) or FixVersion is empty

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### CONTAINS: ~

The ~ operator is used to search for issues where the value of a specified field matches a specified value: either an exact or fuzzy match. see examples below).

Use it only with version and text fields.

Text fields:

- Summary
- Description
- Environment
- Comments
- Custom fields that use the free text searcher, including custom fields of the following built-in custom field types:
  - Free text field (unlimited text)
  - Text field (<255 characters)
  - Read-only text field

Version fields:

- Affected version
- Fix version
- Custom fields that use the version picker

The JQL field "text", as intext ~ "some words", searches for an issue's summary, description, environment, comments, and all custom text fields.

If you have many text custom fields, you can improve performance of your queries by searching for specific fields. For example:Summary ~ "some words" OR Description ~ "some words".

When using the ~ operator, the value on the right side of the operator can be specified by using Jira text-search syntax.

Examples

• Find all issues where the summary contains the word "win" or the simple derivatives of this word, such as "wins":

summary ~ win

 Note that for version fields, the ~ operator returns an exact match. For example, to find the version 9.0, you should use the following query:

fixVersion ~ "9.0"

• Find all issues where the summary contains a wild card match for the word "win":

summary ~ "win\*"

· Find all issues where the summary contains the word "issue" and the word "collector":

summary ~ "issue collector"

• Find all issues where the summary contains the exact phrase "full screen". Also, see Search syntax for text fields for details on how to escape quotation marks and other special characters.

```
summary ~ "\"full screen\""
```

 Find all issues where the Fix Version field contains a wild card match for the version "9". For example, 9.1 or 9.0.1:

```
fixVersion ~ "9*"
```

• Find all issues where the Fix Version field contains "9". For example, 1.9:

fixVersion ~ "\*9"

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DOES NOT CONTAIN: !~

The !~ operator is used to search for issues where the value of a specified field matches a specified value.

Use it only with version and text fields.

Text fields:

- Summary
- Description
- Environment
- Comments
- Custom fields that use the free text searcher, including custom fields of the following built-in custom field types:
  - Free text field (unlimited text)
  - Text field (<255 characters)
  - · Read-only text field

Version fields:

- Affected version
- Fix version
- · Custom fields that use the Version Picker
- The JQL field "text", as intext !~ "some words", searches for an issue's summary, description, environment, comments, and all custom text fields.

If you have many text custom fields, you can improve performance of your queries by searching for specific fields. For example:Summary !~ "some words" OR Description !~ "some words".

When using the ! ~ operator, the value on the right side of the operator can be specified by using Jira text-search syntax.

Examples

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• Find all issues where the summary doesn't contain the word "run" or the derivatives of this word, such as "running" or "ran":

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summary !~ run

 Note that for version fields, the ~ operator returns an exact match. For example, to find issues where the fix version is not 9.0, you should use the following query:

fixVersion !~ "9.0"

• Find all issues where the **Fix Version** field doesn't contain any version from the 9.x line:

fixVersion !~ "9.\*"

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### IS

The IS operator can only be used with the EMPTYorNULL keywords. That is, it's used to search for issues where the specified field has no value.

(i) Not all fields are compatible with this operator. For more details, seethe individual field reference.

Examples

Find all issues that have no fix version:

fixVersion is empty

or

fixVersion is null

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### IS NOT

The IS NOTOPERATOR CAN BE USED with the EMPTYORNULL keywords. That is, it's used to search for issues where a specified field has a value.

(i) Not all fields are compatible with this operator. For more details, seethe individual field reference.

Examples

Find all issues that have one or more votes:

votes is not empty

or

```
votes is not null
```

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### WAS

The WAS operator is used to find issues that currently have or previously had a specified value for a specified field.

In a search query, with this operator, you can use the following:

- AFTER "date"
- BEFORE "date"
- BY "username"
- DURING ("date1","date2")
- ON "date"

Thewasoperator will match the value name (for example, "Resolved") that was configured in your system at the time when the field was changed.

The operator will also match the value ID associated with the value name. For example, it will match "4" as well as "Resolved".

The operator can be used only with the following fields:Assignee,Fix Version,Priority,Reporter,Resolu tion, andStatus.

Examples

Find issues that currently have or previously had the status "In Progress":

status WAS "In Progress"

Find issues that were resolved by Joe Smith before February 20:

status WAS "Resolved" BY jsmith BEFORE "2011/02/20"

Find issues that were resolved by Joe Smith during 2010:

status WAS "Resolved" BY jsmith DURING ("2010/01/01","2011/01/01")

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#### WAS IN

The WAS IN operator is used to find issues that currently have or previously had any of multiple specified values for a specified field. The values are specified as a comma-separated list, surrounded by parentheses.

In a search query, with this operator, you can use the following:

```
• AFTER "date"
```

- BEFORE "date"
- BY "username"
- DURING ("date1","date2")
- ON "date"

Thewas Inoperator will match the value name (for example, "Resolved") that was configured in your system at the time when the field was changed.

The operator will also match the value ID associated with the value name. For example, it will match "4" as well as "Resolved".

Using WAS INIS equivalent to using multipleWAS statements, but is shorter and more convenient. That is, status WAS IN ("Resolved", "Closed") is the same as status WAS "Resolved"OR status WAS "Closed".

The operator can be used only with the following fields:Assignee,Fix Version,Priority,Reporter,Resolu tion, andStatus.

#### Examples

• Find all issues that currently have or previously had the status "Resolved" or "In Progress":

```
status WAS IN ("Resolved","In Progress")
```

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### WAS NOT IN

The WAS NOT IN operator is used to search for issues where the value of the specified field has never been one of multiple specified values.

In a search query, with this operator, you can use the following:

```
• AFTER "date"
```

- BEFORE "date"
- BY "username"
- DURING ("date1","date2")
- ON "date"

Using WAS NOT INIS equivalent to using multipleWAS\_NOT statements, but is shorter and more convenient. That is, status WAS NOT IN ("Resolved", "In Progress") is the same as stat us WAS NOT "Resolved"ANDstatus WAS NOT "In Progress".

The operator can be used only with the following fields:Assignee,Fix Version,Priority,Reporter,Resolu tion, andStatus.

Examples

Find issues that have never had the status "Resolved" or "In Progress":

status WAS NOT IN ("Resolved","In Progress")

Find issues that didn't have the status "Resolved" or "In Progress" before February 20:

status WAS NOT IN ("Resolved", "In Progress") BEFORE "2011/02/20"

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### WAS NOT

The WAS NOT operator is used to find issues that have never had a specified value for a specified field.

In a search query, with this operator, you can use the following:

```
• AFTER "date"
```

- BEFORE "date"
- BY "username"
- DURING ("date1","date2")

• ON "date"

Thewas Notoperator will match the value name (for example, "Resolved") that was configured in your systemat the time when the field was changed.

The operator will also match the value ID associated with the value name. For example, it will match "4" as well as "Resolved".

The operator can be used only with the following fields: Assignee, Fix Version, Priority, Reporter, Resolution, and Status.

Examples

• Find issues that don't have and have never had the status "In Progress":

status WAS NOT "In Progress"

Find issues that didn't have the status "In Progress" before February 20:

status WAS NOT "In Progress" BEFORE "2011/02/20"

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### CHANGED

TheCHANGEDoperator is used to find issues where the value of a specified field was changed.

In a search query, with this operator, you can use the following:

- AFTER "date"
- BEFORE "date"
- BY "username"
- DURING ("date1","date2")
- ON "date"
- FROM "oldvalue"
- TO "newvalue"

The operator can be used only with the following fields:Assignee,Fix Version,Priority,Reporter,Resolu tion, andStatus.

Examples

Find issues where the Assignee was changed:

assignee CHANGED

Find issues where the status was changed from "In Progress" back to "Open":

status CHANGED FROM "In Progress" TO "Open"

 Find issues where the priority was changed by the user freddo after the start and before the end of the current week:

priority CHANGED BY freddo BEFORE endOfWeek() AFTER startOfWeek()

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# **Advanced searching - functions reference**

This page describes information about functions that are used for advanced searching.

A function in JQL appears as a word followed by parentheses, which may contain one or more explicit values or Jira system fields. In a clause, a function is preceded by an operator, which in turn is preceded by afield. A function performs a calculation on either specific Jira data or the function's content in parentheses, such that only true results are retrieved by the function, and then again by the clause in which the function is used.

Some Jira appscan add additional functions to the advanced issue search. For example, theScriptRunnerforJIRAapp extends JQL with such functions aSmyProjects() and projectmatch().

Unless specified in the search query, note that JQL searches don't return empty fields in results. To include empty fields (e.g. unassigned issues) when searching for issues that are not assigned to the current user, you would enter (assignee != currentUser() OR assignee is EMPTY) to include unassigned issues in the list of results.

# approved()

Only applicable if Jira Service Management is installed and licensed.

Search for issues that required approval and have a final decision of approved.

Syntax	approved()
Supported fields	Custom fields of type Approval
Supported operators	=
Unsupported operators	~, != ,!~ ,>,>=,<,<= IS , IS NOT ,IN , NOT IN ,WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find all issues that are approved: approval = approved()</li> </ul>

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.

- votedlssues()
- ٠ watchedlssues()
- withinCalendarHour s()

### approver()

Only applicable if Jira Service Management is installed and licensed.

Search for issues that require or required approval by one or more of the listed users. This uses an OR operator, and you must specify the usernames.

Syntax	approver(user,user)
Supported fields	Custom fields of type Approval
Supported operators	=
Unsupported operators	~, != ,!~ ,> , >= , < , <= IS , IS NOT ,IN , NOT IN ,WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that require or required approval by John Smith: approval = approver(jsmith)</li> <li>Find issues that require or required approval by John Smith or Sarah Khan: approval = approver(jsmith, skhan)</li> </ul>

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### breached()

Only applicable if Jira Service Management is installed and licensed.

Returns issues that whose most recent has missed its goal.

Syntax	breached()
Supported fields	
Supported operators	= , !=
Unsupported operators	~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	• Find issues where Time to First Response was breached: "Time to First Response" = breached()

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### cascadeOption()

Search for issues that match the selected values of a "cascading select" custom field.

TheparentOptionparameter matches against the first tier of options in the cascading select field. Thechil dOptionparameter matches against the second tier of options in the cascading select field, and is optional.

The keyword "none" can be used to search for issues where either or both of the options have no value.

Syntax	cascadeOption(parentOption)
	cascadeOption(parentOption,childOption)
Supported fields	Custom fields of type "Cascading Select"
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues where a custom field ("Location") has the value "USA" for the first tier and "New York" for the second tier: location in cascadeOption("USA", "New York")</li> <li>Find issues where a custom field ("Location") has the value "USA" for the first tier and any value (or no value) for the second tier: location in cascadeOption("USA")</li> <li>Find issues where a custom field ("Location") has the value "USA" for the first tier and no value for the second tier: location in cascadeOption("USA", none)</li> <li>Find issues where a custom field ("Location") has no value for the first tier and no value for the second tier: location in cascadeOption("USA", none)</li> <li>Find issues where a custom field ("Location") has no value for the first tier and no value for the second tier: location in cascadeOption(none)</li> <li>Find issues where a custom field ("Referrer") has the value "none" for the first tier and "none" for the second tier: referrer in cascadeOption("\"none\"", "\"none\"")</li> <li>Find issues where a custom field ("Referrer") has the value "none" for the first tier and "none" for the second tier: referrer in cascadeOption("\"none\"", "\"none\"")</li> <li>Find issues where a custom field ("Referrer") has the value "none" for the first tier and no value for the second tier: referrer in cascadeOption("\"none\"", "\"none\"")</li> </ul>

# closedSprints()

Search for issues that are assigned to a completedSprint.

(i) It's possible for an issue to belong to both a completed Sprint(s) and an incomplete Sprint(s). See also openSprints().

Syntax	closedSprints()
Supported fields	Sprint
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find all issues that are assigned to a completedsprint: sprint in closedSprints()</li> </ul>

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### completed()

Only applicable if Jira Service Management is installed and licensed.

Returns issues that have an that has completed at least one cycle.

Syntax	completed()
Supported fields	
Supported operators	= , !=
Unsupported operators	=, ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues where Time to First Response has completed at least one cycle: "Time to First Response" = completed()</li> </ul>

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### componentsLeadByUser()

Find issues in components that are led by a specific user. You can optionally specify a user, or if the user is omitted, the current user (i.e. you) will be used.

(i) If you are not logged in to Jira, a user must be specified.

Syntax	componentsLeadByUser() componentsLeadByUser(username)
Supported fields	Component
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find open issues in components that are led by you: component in componentsLeadByUser() AND status = Open</li> <li>Find open issues in components that are led by Bill: component in componentsLeadByUser(bill) AND status = Open</li> </ul>

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### currentLogin()

Perform searches based on the time at which the current user's session began. See alsolastLogin().

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Syntax	currentLogin()
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~ , !~ , IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find issues that have been created during my current session: created &gt; currentLogin()</li> </ul>

### currentUser()

Perform searches based on the currently logged-in user.

This function can only be used by logged-in users. If you are creating a saved filter that you expect to be used by anonymous users, don't use this function.

Syntax	currentUser()
Supported fields	Assignee, Reporter, Voter, Watcher, custom fields of type User
Supported operators	= , !=
Unsupported operators	~ , !~ , > , >= , < , <= , IS , IS NOT , IN , NOT IN , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that are assigned to me: assignee = currentUser()</li> <li>Find issues that were reported to me but are not assigned to me: reporter = currentUser() AND (assignee != currentUser() OR assignee is EMPTY)</li> </ul>

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earliestUnreleasedVersion()

Perform searches based on the earliest unreleased version (i.e. next version that is due to be released) of a specified project. See alsounreleasedVersions.

Consider that the "earliest" is determined by the ordering assigned to the versions, not by actual Version Due Dates.

Syntax	earliestUnreleasedVersion(project)	

Supported fields	AffectedVersion, FixVersion, custom fields of type Version
Supported operators	IN, NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues whose FixVersion is the earliest unreleased version of the ABC project: fixVersion = earliestUnreleasedVersion(ABC)</li> <li>Find issues that relate to the earlist unreleased version of the ABC project: affectedVersion = earliestUnreleasedVersion(ABC) or fixVersion = earliestUnreleasedVersion(ABC)</li> </ul>

### elapsed()

Only applicable if Jira Service Management is installed and licensed.

Returns issues whose clock is at a certain point relative to a cycle's start event.

Syntax	elapsed()
Supported fields	
Supported operators	= , != , > , >= , < , <=
Unsupported operators	~ , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that have been waiting for a first response for more than 1 hour: "Time to First Response" &gt; elapsed("1h")</li> </ul>

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# endOfDay()

Perform searches based on the end of the current day. See alsoendOfWeek(),endOfMonth(),andendOfYear(), startOfDay(),startOfWeek(),startOfMonth(),andstartOfYear().

Syntax	endOfDay() endOfDay("inc")
	where inc is an optional increment of $(+/-)nn(y M w d h m)$ . If the time unit qualifier is omitted, it defaults to the natural period of the function, e.g. endOfDay("+1") is the same as endOfDay("+1d"). If the plus/minus (+/-) sign is omitted, plus is assumed.
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time

Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~, IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find issues due by the end of today: due &lt; endOfDay()</li> <li>Find issues due by the end of tomorrow: due &lt; endOfDay("+1")</li> </ul>

### endOfMonth()

Perform searches based on the end of the current month. See alsoendOfDay(),endOfWeek(), endOfYear(), startOfDay(),startOfWeek(),startOfMonth(),andstartOfYear().

Syntax	$endOfMonth() \\ endOfMonth("inc") \\ where inc is an optional increment of (+/-)nn(y M w d h m). If the time unit qualifier is omitted, it defaults to the natural period of the function, e.g. endOfMonth("+1") is the same as endOfMonth("+1M"). If the plus/minus (+/-) sign is omitted, plus is assumed.$
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~, IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find issues due by the end of this month: due &lt;= endOfMonth()</li> <li>Find issues due by the end of next month: due &lt;= endOfMonth("+1")</li> <li>Find issues due by the 15th of next month: due &lt;= endOfMonth("+15d")</li> </ul>

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### endOfWeek()

Perform searches based on the end of the current week. See alsoendOfDay(),endOfMonth(), endOfYear(),st artOfDay(),startOfWeek(),startOfMonth(),andstartOfYear.

For the endOfWeek() function, the result depends upon your locale. For example, in Europe, the first day of the week is generally considered to be Monday, while in the USA, it is considered to be Sunday.

Syntax	<pre>endOfWeek() endOfWeek("inc") whereincis an optional increment of(+/-)nn(y/M/w/d/h/m). If the time unit qualifier is omitted, it defaults to the natural period of the function, e.g. endOfWeek("+1") is the same as endOfWeek("+1w"). If the plus/minus (+/-) sign is omitted, plus is assumed.</pre>
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~, IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find issues due by the end of this week: due &lt; endOfWeek()</li> <li>Find issues due by the end of next week: due &lt; endOfWeek("+1")</li> </ul>

# endOfYear()

Perform searches based on the end of the current year. See alsostartOfDay(),startOfWeek(), startOfMonth(), endOfDay(),endOfWeek(),endOfMonth(),andendOfYear().

Syntax	<pre>endOfYear() endOfYear("inc") whereincis an optional increment of(+/-)nn(y/M/w/d/h/m). If the time unit qualifier is omitted, it defaults to the natural period of the function, e.g. endOfYear("+1") is the same as endOfYear("+1y"). If the plus/minus (+/-) sign is omitted, plus is assumed.</pre>
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~, IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find issues due by the end of this year: due &lt; endOfYear()</li> <li>Find issues due by the end of March next year: due &lt; endOfYear("+3M")</li> </ul>

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### everbreached()

Only applicable if Jira Service Management is installed and licensed.

Returns issues that have missed one of their goals.

Syntax	elapsed()
Supported fields	
Supported operators	= , !=
Unsupported operators	~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues have missed their goal for Time to First Response: "Time to First Response" = everbreached()</li> </ul>

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### futureSprints()

Search for issues that are assigned to a sprint that hasn't been started yet.

It is possible for an issue	to belong to both	completed and	incomplete sprints.

Syntax	futureSprints()
Supported fields	Sprint
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= IS , IS NOT, WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find all issues that are assigned to asprint that hasn't been started yet: sprint in futureSprints()</li> </ul>

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### issueHistory()

Find issues that you have recently viewed, i.e. issues that are in the **Recent Issues** section of the **Issues** dro pdown menu.

Note that:

- issueHistory() returns up to 60 issues, whereas the **Recent Issues** drop-down returns only 5.
- if you are not logged in to Jira, only issues from your current browser session will be included.
- issues older than 90 days are deleted daily by the scheduled job.

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Syntax	issueHistory()
Supported fields	Issue
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues which I have recently viewed, that are assigned to me: issue in issueHistory() AND assignee = currentUser()</li> </ul>

# issuesWithRemoteLinksByGlobalId()

Perform searches based on issues that are associated with remote links that have any of the specified global IDs.

(1) This function accepts 1 to 100 globallds. Specifying 0 or more than 100 globallds will result in errors.

Syntax	issuesWithRemoteLinksByGlobalId()
Supported fields	Issue
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that are linked to remote links that have globalld "abc": issue in issuesWithRemoteLinksByGlobalId(abc)</li> <li>Find issues that are linked to remote links that have either globalld "abc" or "def": issue in issuesWithRemoteLinksByGlobalId(abc, def)</li> </ul>

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### lastLogin()

Perform searches based on the time at which the current user's previous session began. See also currentLogi n().

Syntax	lastLogin()
Supported fields	Created. Due, Resolved, Updated, custom fields of type Date/Time

Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~ , !~ ,IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find issues that have been created during my last session: created &gt; lastLogin()</li> </ul>

### latestReleasedVersion()

Perform searches based on the latest released version (i.e. the most recent version that has been released) of a specified project. See alsoreleasedVersions().

Consider that the "latest" is determined by the ordering assigned to the versions, not by actual Version Due Dates.

Syntax	latestReleasedVersion(project)
Supported fields	AffectedVersion, FixVersion, custom fields of type Version
Supported operators	= , !=
Unsupported operators	~ , !~ , > , >= , < , <= IS , IS NOT , IN , NOT IN , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues whose FixVersion is the latest released version of the ABC project: fixVersion = latestReleasedVersion(ABC)</li> <li>Find issues that relate to the latest released version of the ABC project: affectedVersion = latestReleasedVersion(ABC) or fixVersion = latestReleasedVersion(ABC)</li> </ul>

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### linkedIssues()

Perform searches based on issues that are linked to a specified issue. You can optionally restrict the search to links of a particular type.

Note that LinkType is case-sensitive.

Syntax	linkedIssues(issueKey) linkedIssues(issueKey,linkType)
Supported fields	Issue

Supported operators	IN, NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that are linked to a particular issue: issue in linkedIssues(ABC-123)</li> <li>Find issues that are linked to a particular issue via a particular type of link: issue in linkedIssues(ABC-123, "is duplicated by")</li> </ul>

# membersOf()

Perform searches based on the members of a particular group.

Syntax	membersOf(Group)
Supported fields	Assignee, Reporter, Voter, Watcher, custom fields of type User
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues where the Assignee is a member of the group "Jira-administrators": assignee in membersOf("Jira-administrators")</li> <li>Search through multiple groups and a specific user: reporter in membersOf("Jira-administators") or reporter in membersOf("Jira-core-users") or reporter=jsmith</li> <li>Search for a particular group, but exclude a particular member or members: assignee in membersOf() and assignee not in ("John Smith"," Jill Jones")</li> <li>Exclude members of a particular group: assignee not in membersOf()</li> </ul>

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### myApproval()

Only applicable if Jira Service Management is installed and licensed.

Search for issues that require approval or have required approval by the current user.

Syntax	myApproval()
Supported fields	Custom fields of type Approval
Supported operators	=

Unsupported operators	~, != ,!~ ,>,>=,<,<= IS , IS NOT ,IN , NOT IN ,WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find all issues that require or have required my approval approval = myApproval()</li> </ul>

# myPending()

### Only applicable if Jira Service Management is installed and licensed.

Search for issues that require approval by the current user.

Syntax	myPending()
Supported fields	Custom fields of type Approval
Supported operators	=
Unsupported operators	~, != ,!~ ,>,>=,<,<= IS , IS NOT ,IN , NOT IN ,WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find all issues that require my approval approval = myPending()</li> </ul>

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# now()

Perform searches based on the current time.

Syntax	now()
Supported fields	Created. Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~,IS, IS NOT, IN, NOT IN
Examples	<ul> <li>Find issues that are overdue: duedate &lt; now() and status not in (closed, resolved)</li> </ul>

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openSprints()

Search for issues that are assigned to a Sprint that has not yet been completed.

It's possible for an issue to belong to both a completed Sprint(s) and an incomplete Sprint(s). See also closedSprints().

Syntax	openSprints()
Supported fields	Sprint
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= IS , IS NOT, WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find all issues that are assigned to asprint that has not yet been completed: sprint in openSprints()</li> </ul>

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### paused()

Only applicable if Jira Service Management is installed and licensed.

Returns issues that have an that is paused due to a condition.

To find issues that are paused because they are outside calendar hours, usewithincalendarhours().

Syntax	paused()
Supported fields	
Supported operators	= , !=
Unsupported operators	~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	• Find issues where Time to First Response is paused: "Time to First Response" = paused()

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### pending()

Syntax

Only applicable if Jira Service Management is installed and licensed.

Search for issues that require approval.

pending()

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Supported fields	Custom fields of type Approval
Supported operators	=
Unsupported operators	~, != ,!~ ,>,>=,<,<= IS , IS NOT ,IN , NOT IN ,WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find all issues that require approval: approval = pending()</li> </ul>

### pendingBy()

Only applicable if Jira Service Management is installed and licensed.

Search for issues that require approval by one or more of the listed users. This uses an OR operator, and you must specify the usernames.

Syntax	<pre>pendingBy(user1,user2)</pre>
Supported fields	Custom fields of type Approval
Supported operators	=
Unsupported operators	~, != ,!~ ,>,>=,<,<= IS , IS NOT ,IN , NOT IN ,WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that require approval by John Smith: approval = pendingBy(jsmith)</li> <li>Find issues that require by John Smith or Sarah Khan: approval = pendingBy(jsmith,skhan)</li> </ul>

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## projectsLeadByUser()

Find issues in projects that are led by a specific user. You can optionally specify a user, or if the user is omitted, the current user will be used.

If you are not logged in to Jira, a user must be specified.	
Syntax	<pre>projectsLeadByUser() projectsLeadByUser(username)</pre>
Supported fields	Project
Supported operators	IN , NOT IN

Unsupported operators	= , != , ~ , !~ , > , >= , < , <= IS , IS NOT, WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find open issues in projects that are led by you: project in projectsLeadByUser() AND status = Open</li> <li>Find open issues in projects that are led by Bill: project in projectsLeadByUser(bill) AND status = Open</li> </ul>

# projectsWhereUserHasPermission()

Find issues in projects where you have a specific permission.Note, this function operates at the project level. This means that if a permission (e.g. "Edit Issues") is granted to the reporter of issues in a project, then you may see some issues returned where you arenot the reporter, and therefore don't have the permission specified.Also note, this function is only available if you are logged in to Jira.

Syntax	projectsWhereUserHasPermission(permission)
	For the ${\tt permission} parameter,$ you can specify any of the permissions described on .
Supported fields	Project
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= IS , IS NOT, WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find open issues in projects where you have the "Resolve Issues" permission: project in projectsWhereUserHasPermission("Resolve Issues") AND status = Open</li> </ul>

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# projectsWhereUserHasRole()

Find issues in projects where you have a specific role.Note, this function is only available if you are logged in to Jira.

Syntax	projectsWhereUserHasRole(rolename)
Supported fields	Project
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= IS , IS NOT, WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED

Examples	<ul> <li>Find open issues in projects where you have the "Developers" role: project in projectsWhereUserHasRole("Developers") AND status = Open</li> </ul>
	status - Open

# releasedVersions()

Perform searches based on the released versions (i.e. versions that your Jira administrator has released) of a specified project. You can also search on the released versions of all projects, by omitting the *project* parame ter. See alsolatestReleasedVersion().

Syntax	releasedVersions() releasedVersions(project)
Supported fields	AffectedVersion, FixVersion, custom fields of type Version
Supported operators	IN, NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues whose FixVersion is a released version of the ABC project: fixVersion in releasedVersions(ABC)</li> <li>Find issues that relate to released versions of the ABC project: (affectedVersion in releasedVersions(ABC)) or (fixVersion in releasedVersions(ABC))</li> </ul>

#### ^ top of page

### remaining()

Only applicable if Jira Service Management is installed and licensed.

Returns issues whose clock is at a certain point relative to the goal.

Syntax	remaining()
Supported fields	
Supported operators	= , !=, > , >= , < , <=
Unsupported operators	~ , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that will breach Time to Resolution in the next two hours: "Time to Resolution" &lt; remaining("2h")</li> </ul>

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## running()

Only applicable if Jira Service Management is installed and licensed.

Returns issues that haxve an that is running, regardless of the calendar.

To find issues that are running based on calendar hours, usewithincalendarhours().

Syntax	running()
Supported fields	
Supported operators	= , !=
Unsupported operators	~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues where Time to First Response is running: "Time to First Response" = running()</li> </ul>

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## standardIssueTypes()

Perform searches based on "standard" Issue Types, that is, search for issues that are not sub-tasks.See also subtaskIssueTypes().

Syntax	standardIssueTypes()
Supported fields	Туре
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that are not subtasks (i.e. issues whose Issue Type is a standard issue type, not a subtask issue type):         issuetype in standardIssueTypes()</li> </ul>

#### ^ top of page

## startOfDay()

Perform searches based on the start of the current day. See alsostartOfWeek(),startOfMonth(), startOfYear(), endOfDay(),endOfWeek(),endOfMonth(),andendOfYear().

Syntax	<pre>startOfDay() startOfDay("inc")</pre>
	where inc is an optional increment of $(+/-)nn(y M w d h m)$ . If the time unit qualifier is omitted, it defaults to the natural period of the function, e.g. startOfDay("+1") is the same as startOfDay("+1d"). If the plus/minus (+/-) sign is omitted, plus is assumed.
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~, IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find new issues created since the start of today: created &gt; startOfDay()</li> <li>Find new issues created since the start of yesterday: created &gt; startOfDay("-1")</li> <li>Find new issues created in the last three days: created &gt; startOfDay("-3d")</li> </ul>

# startOfMonth()

Perform searches based on the start of the current month. See alsostartOfDay(),startOfWeek(), startOfYear(), endOfDay(),endOfWeek(),endOfMonth(),andendOfYear().

	1
Syntax	<pre>startOfMonth() startOfMonth("inc")</pre>
	where inc is an optional increment of $(+/-)nn(y M w d h m)$ . If the time unit qualifier is omitted, it defaults to the natural period of the function, e.g. startOfMonth("+1") is the same as startOfMonth("+1M"). If the plus/minus (+/-) sign is omitted, plus is assumed.
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~, IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find new issues created since the start of this month: created &gt; startOfMonth()</li> <li>Find new issues created since the start of last month: created &gt; startOfMonth("-1")</li> <li>Find new issues created since the 15th of this month: created &gt; startOfMonth("+14d")</li> </ul>

## startOfWeek()

Perform searches based on the start of the current week. See alsostartOfDay(),startOfMonth(), startOfYear(), endOfDay(),endOfWeek(),endOfMonth(),andendOfYear().

For the startOfWeek() function, the result depends upon your locale. For example, in Europe, the first day of the week is generally considered to be Monday, while in the USA, it is considered to be Sunday.

Syntax	startOfWeek() $startOfWeek("inc")$ where inc is an optional increment of (+/-)nn(y/M/w/d/h/m). If the time unit qualifier is omitted, it defaults to the natural period of the function, e.g. startOfWeek("+1") is the same as startOfWeek("+1w"). If the plus/minus (+/-) sign is omitted, plus is assumed.
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~, IS , IS NOT , IN , NOT IN
Examples	<ul> <li>Find new issues since the start of this week: created &gt; startOfWeek()</li> <li>Find new issues since the start of last week: created &gt; startOfWeek("-1")</li> </ul>

#### ^ top of page

## startOfYear()

Perform searches based on the start of the current year. See alsostartOfDay(),startOfWeek(),startOfMonth(), endOfDay(),endOfWeek(),endOfMonth(),andendOfYear.

Syntax	<pre>startOfYear() startOfYear("inc")</pre>
	where inclis an optional increment of $(+/-)nn(y M w d h m)$ . If the time unit qualifier is omitted, it defaults to the natural period of the function, e.g. endOfYear("+1") is the same as endOfYear("+1y"). If the plus/minus (+/-) sign is omitted, plus is assumed.
Supported fields	Created, Due, Resolved, Updated, custom fields of type Date/Time
Supported operators	<pre>= , != , &gt; , &gt;= , &lt; , &lt;= WAS* , WAS IN* , WAS NOT* , WAS NOT IN* , CHANGED* *Only in predicate</pre>
Unsupported operators	~, !~, IS , IS NOT , IN , NOT IN

|--|

# subtasklssueTypes()

Perform searches based on issues that aresub-tasks.See alsostandardIssueTypes().

Syntax	subtaskIssueTypes()
Supported fields	Туре
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that are subtasks (i.e. issues whose Issue Type is a subtask issue type):         issuetype in subtaskIssueTypes()</li> </ul>

#### ^ top of page

## unreleasedVersions()

Perform searches based on the unreleased versions (i.e. versions that your Jira administrator has not yet released) of a specified project. You can also search on the unreleased versions of all projects, by omitting theprojectparameter. See alsoearliestUnreleasedVersion().

Syntax	unreleasedVersions() unreleasedVersions(project)
Supported fields	AffectedVersion, FixVersion, custom fields of type Version
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues whose FixVersion is an unreleased version of the ABC project: fixVersion in unreleasedVersions(ABC)</li> <li>Find issues that relate to unreleased versions of the ABC project: affectedVersion in unreleasedVersions(ABC)</li> </ul>

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## updatedBy()

Search for issues that were updated by a specific user, optionally within the specified time range. An update in this case includes creating an issue, updating any of the issue's fields, creating or deleting a comment, or editing a comment (only the last edit).

For the time range, use one of the following formats:

"yyyy/MM/dd" "yyyy-MM-dd"

Or use "w" (weeks), or "d" (days) to specify a date relative to the current time. Unlike some other functions, up datedBy doesn't support values smaller then a day, and will always round them up to 1 day.

Syntax	updatedBy(user) updatedBy(user, dateFrom) updatedBy(user, dateFrom, dateTo)
Supported fields	Issuekey, and its aliases (id, issue, key)
Supported operators	IN , NOT IN
Unsupported operators	=, ~, != ,!~ ,> , >= , < , <= IS , IS NOT ,WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED
Examples	<ul> <li>Find issues that were updated by John Smith: issuekey IN updatedBy(jsmith)</li> <li>Find issues that were updated by John Smith within the last 8 days: issuekey IN updatedBy(jsmith, "-8d")</li> <li>Find issues updated between June and September 2018: issuekey IN updatedBy(jsmith, "2018/06/01", "2018/08/31")</li> <li>If you try to find issues updated in the last hour, like in the following example, the time will be rounded up to 1 day, as smaller values aren't supported: issuekey IN updatedBy(jsmith, "-1h")</li> </ul>

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## votedlssues()

Perform searches based on issues for which you have voted. Also, see the Voter field.

① This function can only be used by logged-in users.	
Syntax	votedIssues()
Supported fields	Issue
Supported operators	IN , NOT IN
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED

Examples	• Find issues that you have voted for: issue in votedIssues()
----------	--

## watchedlssues()

Perform searches based on issues that you are watching. Also, see the Watcher field.

① This function can only be used by logged-in users.		can only be used by logged-in users.
	Syntax	watchedIssues()

Supported fields	Issue	
Supported operators	N, NOT IN	
Unsupported operators	= , != , ~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED	
• Find issues that you are watching: issue in watchedIssues()		

#### ^ top of page

## withinCalendarHours()

Only applicable if Jira Service Management is installed and licensed.

Returns issues that have an that is running according to the calendar.

For example, say your project has two SLAs that count Time to First Response. Some issues with this use a 9am-1pm calendar, and others use a 9am-5pm calendar. If an agent starts work at 3pm, they probably want to work on issues from the 9am-5pm agreement first. They can use withincalendarhours() to find all the issues where Time to First Response is running at 3pm.

Syntax	withinCalendarHours()	
Supported fields		
Supported operators	= , !=	
Unsupported operators	~ , !~ , > , >= , < , <= , IS , IS NOT , WAS , WAS IN , WAS NOT , WAS NOT IN , CHANGED	
Examples	<ul> <li>Find issues where Time to First Response is within calendar hours: "Time to First Response" = withinCalendarHours()</li> </ul>	

# Search syntax for text fields

This page provides information on the syntax for searching text fields, which can be done in the quick search, basic search, and advanced search.

Text searches can be done in the advanced search when the CONTAINS(~) operator is used, e.g.summary~"windows\*". It can also be done in quick search and basic search when searching on supported fields.

Acknowledgments: Jira uses Apache Lucene for text indexing, which provides a rich query language. Much of the information on this page is derived from the Query Parser Syntaxpage of the Lucene documentation.

## On this page:

- Query terms
- Term modifiers
- Boosting a term: ^
- Boolean operators
- Grouping
- Special characters
- Reserved words
- Word stemming
- Limitations
- Next steps

## Query terms

A query is broken up intoterms and operators. There are two types of terms: Single Terms and Phrases.

ASingle Termis a single word, such as "test" or "hello".

APhrase is a group of words surrounded by double quotes, such as "hello dolly".

Multiple terms can be combined together with Boolean operators to form a more complex query (see below). If you combine multiple terms without specifying any Boolean operators, they will be joined using AND operators.

Note: All query terms in Jira are not case sensitive.

### Term modifiers

Jira supports modifying query terms to provide a wide range of searching options.

Exact searches (phrases) | Wildcard searches: ? and \* | Fuzzy searches: ~ | Prefix and Suffix search | Proxi mity searches

### Exact searches (phrases)

To find exact matches for **phrases**, for example *Jira Software*, you need to enclose the whole phrase in quote-marks ("). Otherwise, the search will return all issues that contain both words in no particular order - this would include *Jira Software*, but also *Jira is the best software*!.

If youre using advanced search, you need to additionally escape each of the quote-marks with a backslash (\). For details, see the examples below or find your field in Advanced search - field reference.

### Examples

• Basic search: Find all issues that contain the phrase Jira Software:

Just type "Jira Software" into the search field.

• Advanced search: Find all issues that contain the words Jira and Software, in no particular order.

text ~ "Jira Software"

• Advanced search: Find all issues that contain the phrase Jira Software.

text ~ "\"Jira Software\""

Advanced search: Find all issues that contain the URL https://atlassian.com:

```
text ~ "\"https://atlassian.com\""
```

As you can see in the two preceding examples, the query contains two pairs of quote-marks. The external ones are needed to meet the JQL rules and arent related to your search query. The same pair of quote-marks would be automatically added by Jira in the basic search after running your search.

#### Using special characters to create phrases

In previous versions of Jira, you could use some special characters to combine **terms** into **phrases**, for example *Jira+Software* or *Jira/Software*. This is no longer the case, as the mechanism used for searching has changed and the special characters surrounding **terms** are ignored.

#### Wildcard searches: ? and \*

Jira supports single and multiple character wildcard searches.

To perform a single character wildcard search, use the "?" symbol.

To perform a multiple character wildcard search, use the "\*" symbol.

Wildcard characters need to be enclosed in quote-marks, as they are reserved characters in advanced search. Use quotations, e.g. summary ~ "cha?k and che\*"

The single character wildcard search looks for terms that match that with the single character replaced. For example, to search for "text" or "test", you can use the search:

te?t

Multiple character wildcard searches looks for 0 or more characters. For example, to search for Windows, Win95, or WindowsNT, you can use the search:

win*	

You can also use the wildcard searches in the middle of a term. For example, to search for Win95 or Window s95, you can use the search:

wi\*95

#### Fuzzy searches: ~

Jira supports fuzzy searches. To do a fuzzy search, use the tilde, "~", symbol at the end of a single word term. For example, to search for a term similar in spelling to "roam", use the fuzzy search:

roam~

This search will find terms like foam and roams.

Note: Terms found by the fuzzy search will automatically get a boost factor of 0.2.

#### Prefix and Suffix search

Jira supports searching for parts of the words. To perform such search, include either a prefix or a suffix of the word or phrase you're looking for. For example to look for a MagicBox issue, you can use either of the two search patterns:

Prefix search	
summary ~ "magic*"	
Suffix search	
summary ~ "*box"	

#### **Proximity searches**

Jira supports finding words that are within a specific distance away. To do a proximity search, use the tilde, "~", symbol at the end of a phrase. For example, to search for "atlassian" and "Jira" within 10 words of each other in a document, use the search:

#### Boosting a term: ^

Jira provides the relevance level of matching documents based on the terms found. To boost a term, use the caret, "^", symbol with a boost factor (a number) at the end of the term you are searching. The higher the boost factor, the more relevant the term will be.

Boosting allows you to control the relevance of a document by boosting its term. For example, if you are searching for

```
atlassian Jira
```

and you want the term "atlassian" to be more relevant, boost it using the ^ symbol along with the boost factor next to the term. You would type:

atlassian^4 Jira

This will make documents with the term atlassian appear more relevant. You can also boost Phrase Terms, as in the example:

```
"atlassian Jira"^4 querying
```

By default, the boost factor is 1. Although, the boost factor must be positive, it can be less than 1 (i.e. 0.2).

#### Boolean operators

Boolean operators allow terms to be combined through logic operators. Jira supports AND, "+", OR, NOT and "-" as Boolean operators.

Boolean operators must be ALL CAPS.

```
AND | OR | Required term: + | NOT | Excluded term: -
```



### AND

The AND operator is the default conjunction operator. This means that if there is no Boolean operator between two terms, the AND operator is used. The AND operator matches documents where both terms exist anywhere in the text of a single document. This is equivalent to an intersection using sets. The symbol && can be used in place of the word AND.

To search for documents that contain "atlassian Jira" and "issue tracking", use the query:

"atlassian Jira" AND "issue tracking"

#### OR

The OR operator links two terms, and finds a matching document if either of the terms exist in a document. This is equivalent to a union using sets. The symbol || can be used in place of the word OR.

To search for documents that contain either "atlassian Jira" or just "confluence", use the query:

```
"atlassian Jira" || confluence
```

#### or

```
"atlassian Jira" OR confluence
```

#### Required term: +

The "+" or required operator requires that the term after the "+" symbol exists somewhere in the field of a single document.

To search for documents that must contain "Jira" and may contain "atlassian", use the query:

+Jira atlassian

#### NOT

The NOT operator excludes documents that contain the term after NOT. This is equivalent to a difference using sets. The symbol ! can be used in place of the word NOT.

To search for documents that contain "atlassian Jira" but not "japan", use the query:

"atlassian Jira" NOT "japan"

Note: The NOT operator cannot be used with just one term. For example, the following search will return no results:

```
NOT "atlassian Jira"
```

Usage of the NOT operator over multiple fields may return results that include the specified excluded term. This is due to the fact that the search query is executed over each field in turn, and the result set for each field is combined to form the final result set. Hence, an issue that matches the search query based on one field, but fails based on another field will be included in the search result set.

#### Excluded term: -

The "-" or prohibit operator excludes documents that contain the term after the "-" symbol.

To search for documents that contain "atlassian Jira" but not "japan", use the query:

"atlassian Jira" -japan

## Grouping

Jira supports using parentheses to group clauses to form sub queries. This can be very useful if you want to control the boolean logic for a query.

To search forbugs and eitheratlassian or Jira, use the query:

```
bugs AND (atlassian OR Jira)
```

This eliminates any confusion and makes sure thatbugsmust exist, and either termatlassianorJiramay exist.

Do not use the grouping character '(' at the start of a search query, as this will result in an error. For example, "(atlassian OR Jira) AND bugs" will not work.

#### Special characters

```
+ - & | ! ( ) { } [ ] ^ ~ * ? \ :
```

Special characters arent stored in the index, which means you cant search for them. The index only keeps text and numbers, so searching for "\\[Jira Software\\]" and "Jira Software" will have the same effect escaped special characters ([]) wont be included in the search.

In previous Jira versions, you could use special characters to combine two separate terms into a phrase, for example "Jira+Software" or "Jira/Software". This doesn't apply to Jira 8.x. If youd like to search for phrases, see Exact searches (phrases).

#### Reserved words

To keep the search index size and search performance optimal in Jira, the followingEnglish*reserved words* (also known as '*stop words*') are ignored from the search index and hence, Jira's text search features:

```
"a", "and", "are", "as", "at", "be", "but", "by", "for", "if", "in", "into",
"is", "it", "no", "not", "of", "on", "or", "such", "that", "the", "their",
"then", "there", "these", "they", "this", "to", "was", "will", "with"
```

Be aware that this can sometimes lead to unexpected results. For example, suppose one issue contains the text phrase "VSX will crash" and another issue contains the phrase "VSX will not crash". A text search for "VSX will crash" will return both of these issues. This is because the wordswillandnotare part of the reserved words list.

• Your Jira administrator can make Jira index these reserved words (so that Jira will find issues based on the presence of these words) by changing the **Indexing Language** to **Other** (under **Administration > System > General Configuration**).

## Word stemming

Since Jira cannot search for issues containing parts of words (seebelow), word 'stemming' allows you to retrieve issues from a search based on the 'root' (or 'stem') forms of words instead of requiring an exact match with specific forms of these words. The number of issues retrieved from a search based on a stemmed word is typically larger, since any other issues containing words that are stemmed back to the same root will also be retrieved in the search results.

For example, if you search for issues using the query term 'customize' on the Summary field, Jira stems this word to its root form 'custom', and will retrieve all issues whose Summary field also contains any word that can be stemmed back to 'custom'. Hence, the following query:

summary ~ "customize"

will retrieve issues whose Summary field contains the following words:

- customized
- customizing
- customs
- customer
- etc.

#### Please Note:

- Your Jira administrator can disable word stemming (so that Jira will find issues based on exact matches with words) by changing theIndexing LanguagetoOther(underAdministration > System > General Configuration).
- Word stemming applies to all Jira fields (as well as text fields).
- When Jira indexes its fields, any words that are 'stemmed' are stored in Jira's search index in root form only.

#### Limitations

Please note that the following limitations apply to Jira's search:

#### Whole words only

Jira cannot search for issues containing parts of words but on whole words only. The exception to this are words which arestemmed.

This limitation can also be overcome usingfuzzy searches.

#### Next steps

Read the following related topics:

- Searching for issues
- Quick searching
- Basic searching
- Advanced searching

# Saving your search as a filter

Jira's powerfulissue searchfunctionality is enhanced by the ability to save searches, called *filters* in Jira, for later use. You can do the following with Jira filters:

- Share and email search results with your colleagues, as well as people outside of your organization
- Create lists offavorite filters
- Have search resultsemailed to youaccording to your preferred schedule
- View and export the search results in various formats (RSS, Excel, etc)
- · Display the search results in areportformat
- Display the search results in adashboard gadget

#### Screenshot: Issue filter results in detail view

#### On this page:

- Saving a search as a filter
- Running a filter Managing your
- existing filters
  Managing other user's shared filters
- Next steps

TIS\_issues EDITED Save --- Details 🕇 < Share 🚹 Export 🐱 O Tools ~ Teams in the Space 

Type: All 
To Do 
Assignee: All 
Contains text
More 
Search
Advanced EO ~ Order by ~ Ŷ Teams in the Space / TISP-10 1 of 10 🔨  $\bigcirc$ Mars Landing TISP-10 Mars Landing ✓ Edit Q Add comment Assign More ✓ To Do ✓ Admin ✓ < 👌 Export 🗸 Sub-task 2 Details People F Epic Resolution: Unresolved Type: Our Unassigned Assignee TISP-8 Sub-task 1 Priority - Low Fix Version/s: None Assign to me Affects Version/s: None TISP-7 Reporter: 👧 Captain Joe Complete ignition tests Component/s: None O Vote for this issue Votos None Labels: 1 Stop watching this issue Watchers: TISP-6 Hire the team Epic Name: Mars Landing ✓ Dates TISP-5 Description Cleanup the landing site Created 9 hours ago Click to add description Updated: 5 hours ago TISP-4 Send the pre-landing report to Earth Attachments Development TISP-3 Enter the landing trajectory into the landing m. Create branch Drop files to attach, or browse

# Saving a search as a filter

- 1. Define and run your search.
- 2. Click the Save aslink above the search results. The Save Filter dialog is displayed.
- 3. Enter a name for the new filter and click**Submit**. Your filter is created.

Your new filter will be added to your favorite filters and shared, according to the sharing preference in your user profile. If you haven't specified a preference, then the global default will be applied, which is 'Private' unless changed by your Jira administrator.

# Running a filter

- 1. Chooselssues>Search for issues.
- 2. Choose any filter from the list on the left:
  - System filter My Open Issues, Reported by Me, Recently Viewed, All Issues
  - Favorite filters (listed alphabetically)
  - Find filterslets you search for any filter that's beenshared, which you can then subscribe to (adding it to yourFavorite Filters).
- After selecting a filter, the search results are displayed. The search criteria for the filter are also displayed and can be changed.

Note, if you run the **Recently Viewed**system filter, this will switch you to the advanced search, as the basic search cannot represent the ORDER BY clause in this filter.

# Managing your existing filters

ClickIssues > Manage filters to manage your filters.

Manage Filters	3				
Favorite <b>My</b> Popular	My Filters Filters are issue searches that have been s	My Filters Filters are issue searches that have been saved for re-use. This page shows all filters that you own.			0
Search	Name	Shared With	Subscriptions		
Search	🛣 Current sprint	Private filter	None - Subscribe	0 v	
	ជ៌ Due this week (TCYO)	Project: Core	None - Subscribe	0 v	
	The second secon	Private filter	None - Subscribe	0 v	
	ជ៌ Filter for EXP board	Project: Space Exploration	None - Subscribe	٥	
	Teams in Space	Private filter	None - Subscribe	0 v	
	High-priority issues	Private filter     Project: JIRA	None - Subscribe	0 v	
	🖈 Ignite docs	Private filter	None - Subscribe	0 v	

The**Manage Filters**page allows you to view and configure filters that you have created, as well as work with filters that other users have shared with you. See the following topics for more information:

- Searching for a filter
- Updating a filter
- Deleting a filter
- Cloning a filter
- Adding a filter as a favorite
- Sharing a filter
- Defining a filter-specific column order
- Subscribing to a filter

#### Searching for a filter

You can find and run any filters that you have created or that have been shared by other users.

- 1. Click the **Search** tab on the 'Manage Filters' page.
- 2. Enter your search criteria and click **Search** to run the search.
- 3. Your search results are displayed on the same page. Click the name of any issue filter to run it.

Tip: If the filter has been added as a favorite by many users, you may also be able locate it on the **Popular** tab of the **Manage Filters** page.

#### **Updating a filter**

You can update the name, description, sharing, favorite of any filters that you created, or have permission to edit. If you want to edit a filter for which you only have the *view* permission, eitherclone (aka copy) the shared filter, or ask your Jira administrator tochange the filter's ownership.

Update the filter's details:

- 1. Click the My tab on the 'Manage Filters' page.
- 2. Locate the filter you wish to update, click the **cog icon** > **Edit**.
- 3. The Edit Current Filter page displays, where you can update the filter details as required.
- 4. Click **Save** to save your changes.

If you have an editor role assigned and want to save changes to a filter, youmustbe a member of all groups that the filter is shared with. Otherwise, you will not be able to save the changes.

Update the filter's search criteria:

- 1. Click the **My** tab on the 'Manage Filters' page.
- 2. Locate the filter you want to update and run it.

- 3. Update the search criteria as desired, and rerun the query to ensure the update is valid. You will see the word *Edited* displayed next to your filter name.
- 4. Click **Save** to overwrite the current filter with the updated search criteria. If you want discard your changes instead, click the arrow next to the save button, and select **Discard changes**.

## **Deleting a filter**

- 1. Click the **My** tab on the 'Manage Filters' page.
- 2. Locate the filter you wish to delete, click the cog icon > Delete.

## **Cloning a filter**

You can clone any filter which is just a way of making a copy that you own that was either created by you or shared with you.

- 1. Locate the filter you wish to clone and run it.
- 2. Update the search criteria as desired. Click the arrow next to the **Save** button, and select **Save** > **Save** as to create a new filter from the existing filter.

## Adding a filter as a favorite

Filters that you've created or that have been shared by others can be added to your favorite filters. Favorite filters are listed in the menu under **Issues > Filters**, and in the left panel of the issue navigator.

- 1. Locate the filter you wish to add as a favorite.
- 2. Click the star icon next to the filter name to add it to your favorites.

## Sharing a filter

Filters that you have created or have permission to edit can be shared with other users, user groups, projects, and project roles. They can also be shared globally. You can choose whether you want to share the filter with the permission to edit, or only to view. Any filter that is shared is visible to users who have the 'Jira Administrators' global permission. SeeManaging other users' shared filters below.

- 1. Click the My tab on the 'Manage Filters' page.
- 2. Locate the filter you wish to share, click the cog icon > Edit.
- 3. Update the Add Viewers and Add Editors fields by selecting the user, group, project, or project role that you want to share the filter with, and clicking Add. Note that you can only share filters with groups /roles of which you are a member.

You need the Create Shared Object global permission to configure sharing for a filter. Contact your Jira administrator to obtain this permission.

4. Click Save to save your changes.

Tip: You can also share your filter by running it, then clicking **Details > Edit Permissions**.

### Defining a filter-specific column order

You can add a defined column order to a saved filter, which displays the filter results according to the saved column order. Otherwise, the results are displayed according to your personal column order (if you have set this) or the system default.

*Tip:* To display your configured column order in a filter subscription, select " for the 'Outgoing email format' in your **User Profile**. If you receive text emails from Jira, you won't be able to see your configured column order.

### To add a column layout to a saved filter:

- 1. Click the My tab on the 'Manage Filters' page.
- 2. Locate the filter you wish to update; click the filter's name to display the results. Be sure you are viewing the filter in the **List** view so that you see the columns.
- *3.* Configure the column order as desired by clicking on the column name and dragging it to the new position. Your changes are saved and will be displayed the next time you view this filter.

# To remove a filter's saved column layout:

- 1. Click the My tab on the 'Manage Filters' page.
- 2. Locate the filter you wish to update; click the filter's name to display the results. Be sure you are viewing the filter in the **List** view so that you see the columns.
- 3. Click the **Columns** option on the top right of the displayed columns, and select **Restore Defaults** in the displayed window.

#### Exporting column ordered issues

When the results of a saved filter are exported to Excel, the column order and choice of columns are those that were saved with the filter. Even if a user has configured a personal column order for the results on the screen, the **saved configuration** is used for the Excel export. To export using your own configuration, save a copy of the filter along with your configuration, and then export the results to Excel.

## Subscribing to a filter

See Working with search results.

## Managing other user's shared filters

A**shared filter** is a filter whose creator has shared that filter with other users. Refer to Sharing a filterabove for details. When a shared filter is created by a user, that user:

- Initially 'owns' the shared filter.
- Being the owner, can edit and modify the shared filter.

If you have the **Jira Administrators** global permission, you can manage shared filters that were created by other users. For instructions, see Managing shared filters.

### Next steps

Read the following related topics:

- Searching for issues
- Basic searching
- Advanced searching
- Working with search results

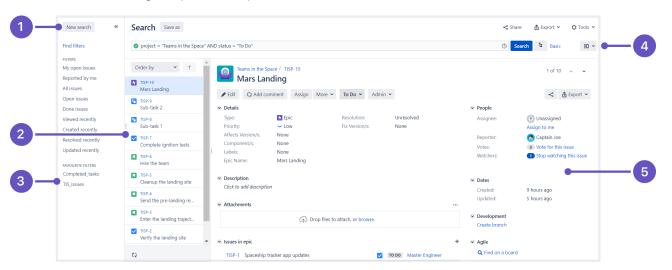
# Working with search results

Once you have run a search, your search results will be displayed in the issue navigator. You may want to triage the entire list of issues or may be looking for just one. This page will show you what you can do with your search results, from changing what you see in the issue navigator to modifying the issues.

## On this page:

- Changing your view of the search results
- Working with individual issues
- Sharing your search results
- Displaying your search results in Confluence
- Displaying your search results as a chart
- Exporting your search results
- Printable views
- Subscribing to your search results
- Bulk modifying issues in your search results
- Next steps

The following screenshot provides an overview of the key features of the issue navigator.



Screenshot: Issue navigator (Detail view)

- 1. Filter panel:Click<< to collapse the filter panel so you can have more space in the detail view.
- 2. **Issue:**Select an issue from this panel to see the details in the detail view window.
- 3. Filters:Select a filter to see all the matching issues in the panel to the immediate right.
- 4. Views:Click to switch between the detail view and list view.
- 5. Detail view: Check out all the details about the selected issue in this detail view.

# Changing your view of the search results

List view or Detail view	<ul> <li>Click the Change view ( ) dropdown to switch between List view and Detail view for your search results.</li> <li>List view: Shows your search results as a list of issues. This view is easiest to scan and is best when you only need to know a few details about each issue.</li> <li>Detail view: Shows your search results as a list of issues, with the right panel showing the details of the currently selected issue. This view is best when you need more information about the individual issues, or you want to quickly edit issues as you go (via inline edit for certain fields).</li> </ul>
Change the sort order	<ul> <li>Click the column name. If you click the same column name more than once, the sort order will switch between ascending and descending. Note:</li> <li>You cannot sort by the 'Images' column nor thesub-taskaggregate columns (i.e. all columns beginning with ").</li> <li>If you sort the search results for anadvanced search, an 'ORDER BY' clause will be added/updated for your JQL query to reflect the order of issues in your search results.</li> </ul>
Columns show /hide and move	<ul> <li>You can create different column configurations for yourself and for specific filters. To switch between different column configurations, click Columns and select one of the following tabs:</li> <li>My Defaults: This is your default column configuration for search results.</li> <li>Filter: This is enabled if you are viewing the search results for a filter. It will override your default column configuration.</li> <li>System (shows if you are a Jira administrator): This is the column configuration that applies to all users. It will be overridden by a user's default column configuration and filter-specific column configurations.</li> <li>You can also modify any of these configurations. Make sure you have switched the desired configuration, then do the following:</li> <li>Show/hide columns: ClickColumns, choose the desired columns, then click Done.</li> <li>Move a column: Click the column name and drag it to the desired position.</li> <li>If you cannot find a column, please make sure that you haven't run in to any of the following restrictions:</li> <li>You can only see columns for issue fields that have not beenhiddenand that you havepermissionsto see.</li> <li>It is possible to add any of the existingcustom fields to the column list, as long as the fields are visible, and you have the right permissions.</li> <li>Some custom fields, even if selected, do not appear in the Issue Navigator for all issues. For example, project-specific custom fields will be shown only if the filter has been restricted to that project only. Issue type.</li> </ul>

# Working with individual issues

You can action individual issues in your search results, directly from the issue navigator. Note that the list of issues will remain constant even if you change an issue, so that it doesn't meet the original search criteria. The advantage of this is thatyou have a constant set of search results that you can work from when triaging issues.

View an issue	Click the key or summary of the issue.	
	<ul> <li>If you are in List view, you will redirected to the issue (leaving the search results page).</li> <li>If you are in Detail view, the issue details will display in the right panel.</li> </ul>	

Action an issue	To action an issue (e.g. edit it, transition it, log work on it, etc):
13506	<ul> <li>If you are in List view, click the cog icon and select from the options.</li> <li>If you are in Detail view, select the issue and action it the issue via the details panel.</li> </ul>
	You can also select an issue and action it via keyboard shortcuts in either views. <i>Tip: use the 'j' and 'k' keys to select the previous/next issue in the issue navigator.</i>

#### Sharing your search results

Click**Share**in the issue navigator toemail a link to asearch resultor shared filter.

- Recipients will receive an email with a link to the search result and the content of the **Note**field (if specified). The subject of the email will state that you (using yourusername) shared the issue.
- If you share the results of a filter, rather than an ad-hoc search, recipients will receive a link to the filter. Note, if the recipient does not have permission to view the filter, they will receive a link to the search results instead.

## Displaying your search results in Confluence

If your Jira applications are connected to Confluence, you can display your search results on a Confluence page using the Jira issues macro. For instructions, seeJira issues macro.

#### Displaying your search results as a chart

Click**Export**> **Dashboard charts**. Choose the desired chart from the dialog that is displayed, then click**Save to Dashboard**.

The chart will be added to your dashboard. For more information on what each chart shows, see Reporting.

#### Exporting your search results

CSV	Click <b>Export</b> > <b>CSV</b> (All fields) or <b>Export</b> > <b>CSV</b> (Current fields), and choose a delimiter to separate the values.
	The CSV file will contain a header row with every applicable issue field, comment, and attachment in your search result.
	<ul> <li>CSV (All fields): this will include every issue field, comment and attachment. The header row may contain multiple values of "Comment" and/or "Attachment" if your issues have multiple comments and/or attachments.</li> <li>CSV (Current fields): this will include only issue fields that are currently displayed.</li> </ul>
	Note, large exports (e.g. many hundreds of issues) are not recommended. You can change the number of issues that are exported, by changing the value of the tempMax parameter in the URL.
	If you're making a lot of exports, your Jira admin can disable the extra dialog that asks about delimiters. In this case, comma will be used as the default delimiter. Learn more

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HTML	Click Export > HTML (All fields) or Export > HTML (Current fields).	
	The HTML file will contain a header row with a value for every applicable issue field in your search result.	
	<ul> <li>HTML (All fields): this will create an HTML file for every issue field (excluding comments). T his will only show the custom fields that are <i>available for all of the issues in the search results</i>. For example, if a field is only available for one project and multiple projects are in the search results then that field will not appear in the HTML file. The same goes for fields that are only available for certain issue types.</li> <li>HTML (Current fields): this will create an HTML file for the issue fields that are currently displayed.</li> </ul>	
	Note, large exports (e.g. many hundreds of issues) are not recommended. You can change the number of issues that are exported, by changing the value of the tempMax parameter in the URL.	
XML	L Click Export > XML.	
	You can use the URL of the XML view in a Confluence Jira issues macro. However, you can also use the JQL or the URL of the issue search, which are easier to get.	
	To restrict which issue fields are returned in the XML export, specify thefieldparameter in your URL. For example, to include only the <b>lssue key</b> and <b>Summary</b> ,add&field=key&field=summa ryto the URL. If thefieldparameter is not specified, the XML output will include <i>all</i> the issue fields. Otherwise, if one or morefieldparameters are specified, the XML output will contain only the <b>lssue key</b> plus your chosen field(s). See the "List of fields for field parameter" below.	
Word	Click Export > Word.	
	The export will include the Description, Comments, and all other issue data, not just the issue fields that are currently configured in your Issue Navigator. Note, large exports (e.g. hundreds of issues) are not recommended.	

# List of fields for field parameter (XML exports):

Value	Sample XML output	Notes
title	<title>[TEST-4] This is a test</title>	
link	<link/> https://extranet.atlassian.com:443 /Jira/browse/TEST-4	This is a 'permalink' to the issue. For links between issues, see * issuelinks * (below).
project (or pid)	<project id="10330" key="TST">Test&lt; /project&gt;</project>	
descrip tion	<pre><description>This is a detailed description of the issue.<description></description></description></pre>	
environ ment	<environment>Sydney network<environment></environment></environment>	
key	<key id="22574">TEST-4</key>	

summary	<summary>This is a test<summary></summary></summary>	
type (or issuety pe)	<type iconurl="https://extranet.&lt;br&gt;atlassian.com:443/Jira/images/icons/task.&lt;br&gt;gif" id="3">Task</type>	
parent	<parent id="22620">TEST-5</parent>	Only relevant if the issue is a sub-task.
priority	<priority <br="" iconurl="&lt;br&gt;https://extranet.atlassian.com:443/Jira&lt;br&gt;/images/icons/priority_minor.gif" id="4">&gt;Minor<priority></priority></priority>	
status	<status iconurl="https://extranet.&lt;br&gt;atlassian.com:443/Jira/images/icons&lt;br&gt;/status_resolved.gif" id="5">Resolved</status>	
resolut ion	<resolution id="1">Fixed</resolution>	
labels	<labels> <label>focus</label> <labels></labels></labels>	
assignee	<assignee username="jsmith">John Smith&lt; /assignee&gt;</assignee>	
reporter	<assignee username="jsmith">John Smith&lt; /assignee&gt;</assignee>	
security	<security id="10021">Private</security>	Only relevant if a security level has been applied to the issue.
created	<created>Mon, 1 Sep 2008 17:30:03 -0500 (CDT)&gt;/created&gt;</created>	
updated	<updated>Mon, 1 Sep 2008 17:30:03 -0500 (CDT)&gt;/updated&gt;</updated>	
resolved (or resol utionda te)	<resolved>Mon, 1 Sep 2008 17:30:03 -0500 (CDT)&gt;/resolved&gt;</resolved>	

due (or d uedate)	<due>Mon, 1 Sep 2008 17:30:03 -0500 (CDT) &gt;/due&gt;</due>	
version (Of versi ons)	<version>2.4.7</version>	
fixfor (Or fixVe rsions)	<fixversion>2.6</fixversion>	
compone nt (Or co mponents )	<component>Documentation</component>	
votes	<votes>1</votes>	
comments (or comme nt)	<comments> <comment <br="" author="jsmith" id="39270">created="Tue, 24 Feb 2009 16:45:02 -0600 (CST)"&gt;this looks familiar</comment> <comment <br="" author="jbrown" id="39273">created="Tue, 24 Feb 2009 16:48:16 -0600 (CST)"&gt;to me too</comment> </comments>	
attachm ents (or attachm ent)	<attachments> <attachment author="yoz" created="Mon, 9 Feb&lt;br&gt;2009 13:32:58 -0600 (CST)" id="30318" name="Issue&lt;br&gt;Navigator - Atlassian Jira-2.png" size="&lt;br&gt;16161"></attachment> <attachment <br="" id="30323" name="Windows&lt;br&gt;XP (with Firefox 3.0).jpg" size="5802">author="vbharara" created="Tue, 10 Feb 2009 00:30:11 -0600 (CST)"/&gt; </attachment></attachments>	Only available if your administrator has enabled attachments.
timeori ginales timate	<timeoriginalestimate seconds="600">10 minutes</timeoriginalestimate>	Only available if your administrator has time tracking enabled.
timeest imate	<timeestimate seconds="300">5 minutes&lt; /timeestimate&gt;</timeestimate>	Only available if your administrator has time tracking enabled.
timespe nt	<timespent seconds="300">5 minutes&lt; /timespent&gt;</timespent>	Only available if your administrator has time tracking enabled.
aggrega tetimeo riginal estimate	<aggregatetimeoriginalestimate seconds="&lt;br&gt;36000">10 hours&lt; /aggregatetimeoriginalestimate&gt;</aggregatetimeoriginalestimate>	Aggregate time for the issue plus all of its sub-tasks. Only available if your administrator has time tracking enabled.

aggrega tetimee stimate	<aggregatetimeremainingestimate seconds="&lt;br&gt;18000">5 hours&lt; /aggregatetimeremainingestimate&gt;</aggregatetimeremainingestimate>	Aggregate time for the issue plus all of its sub-tasks. Only available if your administrator has time tracking enabled.
aggrega tetimes pent	<aggregatetimespent seconds="18000">5 hours</aggregatetimespent>	Aggregate time for the issue plus all of its sub-tasks. Only available if your administrator has time tracking enabled.
timetra cking	<timeoriginalestimate seconds="600">10 minutes</timeoriginalestimate> <timeestimate seconds="300">5 minutes&lt; /timespent seconds="300"&gt;5 minutes&lt; /timespent&gt; <aggregatetimeoriginalestimate seconds="&lt;br&gt;36000">10 hours&lt; /aggregatetimeoriginalestimate&gt; <aggregatetimeremainingestimate seconds="&lt;br&gt;18000">5 hours&lt; /aggregatetimeremainingestimate&gt; <aggregatetimespent seconds="18000">5 hours</aggregatetimespent></aggregatetimeremainingestimate></aggregatetimeoriginalestimate></timeestimate>	This is a convenient shorthand way of specifying all of the above six time tracking fields. Only available if your administrator has time tracking enabled.
issueli nks	<issuelinks> <issuelinktype id="10020"> <name>Duplicate</name> <inwardlinks description="is&lt;br&gt;duplicated by"> <issuelink> <issuelink> </issuelink> </issuelink> </inwardlinks></issuelinktype></issuelinks>  	
subtasks (Of subta sk)	<subtasks> <subtask id="22623">TEST-8</subtask> </subtasks>	
customf ield_xx xxx	<pre><customfields>         <customfield id="customfield_10112" key="com.atlassian.Jira.plugin.system. customfieldtypes:select"></customfield></customfields></pre>	"xxxxx" is the id of a given custom field e.g. this output is the result of specifying &fiel d=customfield_10112

allcust	<customfields></customfields>
om	<customfield <="" id="customfield_10112" th=""></customfield>
	key="com.atlassian.Jira.plugin.system.
	customfieldtypes:select">
	<customfieldname>Department&lt;</customfieldname>
	/customfieldname>
	<customfieldvalues></customfieldvalues>
	<customfieldvalue>Adminstration&lt;</customfieldvalue>
	/customfieldvalue>
	<customfield <="" id="customfield_10111" th=""></customfield>
	key="com.atlassian.Jira.plugin.system.
	customfieldtypes:select">
	<customfieldname>Expenditure</customfieldname>
	Type
	<customfieldvalues></customfieldvalues>
	<customfieldvalue>Operating&lt;</customfieldvalue>
	/customfieldvalue>

## Printable views

Printable	Click Export > Printable.
	Creates a view of your search results in your browser that can be printed 'Landscape'. This view only contains issue Type, Key, Summary, Assignee, Reporter, Priority, Status, Resolution, Created date, Updated date, and Due date.
Full content	Click <b>Export</b> > <b>Full content</b> . Creates a view of your search results in your browser that can be printed. This view contains all issue fields, comments, and a list of attachments (there is no preview) for every issue returned by your search.

# Subscribing to your search results

A subscription provides you with a periodic notification for all issues returned by the search. If you want to be notified when a particular issue changes, you should watch the issue instead.

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Email	<ul> <li>Your search must be saved as a filter, if you want to create an email subscription for it. You can create a subscription of any frequency for yourself and/or other users. Note, only the first 200 results of a filter are sent.</li> <li>1. Run the filter that you want to subscribe to, then click Details (next to filter name).</li> <li>2. Fill in the 'Filter Subscription form' and click Subscribe.</li> <li>More information:</li> <li>If you choose 'Advanced' for your Schedule, see this page for help on constructing Cron expressions.</li> <li>You can choose to specify a group as a recipient, however you can only select a group that you are a member of:</li> <li>You must have the 'Manage Group Filter Subscriptions'global permission.</li> <li>Be aware that the emailed filter results will be specific to each recipient. For example, if the filter uses the currentUser() function, the search results will be evaluated with the recipient as the current user. This does not apply to distribution lists (group email aliases).</li> <li>Be careful about sharing a subscription with a group with many members, as it can take</li> </ul>
RSS	a long time to generate the emails to be sent, since the search needs to be executed for each user (as per the previous point). Click Export > RSS (Issues) or Export > RSS (Comments). The URL of the page that shows can be used in your feed reader.
	<ul> <li>Tips:</li> <li>You can change the number of issues that are returned, by changing the value of thetempMax parameter in the URL.</li> <li>If you only want to receive current comments in an RSS feed, use the Date Updated field when doing a search. For example, to only receive comments created in the last week, add the Date Update field and set it to updated within the last 1 week.</li> <li>You may need to log into your Jira applications to view restricted data in your feed. If so, you can addos_authType=basicto the feed URL <ul> <li>(e.g.http://mycompany.com/anypage?os_authType=basic) to show a login dialog when viewing the feed.</li> </ul> </li> </ul>

## Bulk modifying issues in your search results

Bulk operations let you action multiple issues at once. These actions include transitioning issues, deleting issues, moving issues, and watching/unwatching issues.

ClickTools> Bulk Change:all <N> issue(s) and follow the 'Bulk Operation' wizard.

For more information, seeEditing multiple issues at the same time.

### Next steps

Read the following related topics:

- Searching for issues
- Constructing cron expressions for a filter subscription

# Constructing cron expressions for a filter subscription

This page describes how to construct a cron expression. Cron expressions can be used when creating a subscription to a filter, as described in Working with search results.

A cron expression gives you more control over the frequency, compared to the default schedules. For example, you could define a cron expression to notify you at8:15 am on the second Friday of every month.

## Constructing a cron expression

A cron expression is a string of fields separated by spaces. The following table displays the fields of a cron expression, *in the order that they must be specified (from left to right)*:

	Second	Minute	Hour	Day-of- month	Month	Day-of- week	Year (optional)
Allowed values	0-59	0-59	0-23	1-31	1-12 or JAN-DEC	1-7 or SUN-SAT	1970-2099
Allowed special characters	, - * /	, - * /	, - * /	,-*/?LW C	, - * /	, - * / ? L C #	, - * /

Note, cron expressions are not case-sensitive.

#### Here is an example:

0 15 8 ? JAN MON 2014

This literally translates to 0 second, 15 minute, 8 hour, any day of the month, January, 2014.

In plain English, this represents 8:15am onevery Monday during January of 2014. Note, the ? character means "no particular value". In this example, we've set the Day-of-month to no particular value. We don't need to specify it, as we've specified a Day-of-week value. Read more about special characters in the next section.

More examples of cron expressions are explained in the Examples sectionat the bottom of this page.

## **Special characters**

Special character	Usage
,	Specifies a list of values. For example, in the <b>Day-of-week</b> field, 'MON,WED,FRI' means 'every Monday, Wednesday, and Friday'.
-	Specifies a range of values. For example, in the <b>Day-of-week</b> field, 'MON-FRI' means 'every Monday, Tuesday, Wednesday, Thursday and Friday'.
*	Specifies all possible values. For example, in the <b>Hour</b> field, '*' means 'every hour of the day'.
/	Specifies increments to the given value. For example, in the <b>Minute</b> field, '0/15' means 'every 15 minutes during the hour, starting at minute zero'.
?	Specifies no particular value. This is useful when you need to specify a value for one of the two fields <b>Day-of-month</b> or <b>Day-of-week</b> , but not the other.

L	Specifies the last possible value; this has different meanings depending on context. In the <b>Day-of-week</b> field, 'L' on its own means 'the last day of every week' (i.e. 'every Saturday'), or if used after another value, means 'the last xxx day of the month' (e.g. 'SATL' and '7L' both mean 'the last Saturday of the month). In the <b>Day-of-month</b> field, 'L' on its own means 'the last day of the month', or 'LW' means 'the last weekday of the month'.
W	Specifies the weekday (Monday-Friday) nearest the given day of the month. For example, '1W' means 'the nearest weekday to the 1st of the month' (note that if the 1st is a Saturday, the email will be sent on the nearest weekday <i>within the same month,</i> i.e. on Monday 3rd). 'W' can only be used when the day-of-month is a single day, not a range or list of days.
#	Specifies the nth occurrence of a given day of the week. For example, 'TUES#2' (or '3#2') means 'the second Tuesday of the month'.

# Examples

0 15 8 ? * *	Every day at 8:15 pm.
0 15 8 * * ?	Every day at 8:15 am.
0 * 14 * * ?	Every minute starting at 2:00 pm and ending at 2:59 pm, every day.
0 0/5 14 * * ?	Every 5 minutes starting at 2:00 pm and ending at 2:55 pm, every day.
0 0/5 14,18 * * ?	Every 5 minutes starting at 2:00 pm and ending at 2:55 pm, AND every 5 minutes starting at 6:00 pm and ending at 6:55 pm, every day.
0 0-5 14 * * ?	Every minute starting at 2:00 pm and ending at 2:05 pm, every day.
0 0/10 * * * ? *	Every 10 minutes, forever.
0 10,44 14 ? 3 WED	2:10 pm and 2:44 pm every Wednesday in the month of March.
0 15 8 ? * MON- FRI	8:15 am every Monday, Tuesday, Wednesday, Thursday, and Friday.
0 15 8 15 * ?	8:15 am on the 15th day of every month.
0 15 8 L * ?	8:15 am on the last day of every month.
0 15 8 LW * ?	8:15 am on the last weekday of every month.
0 15 8 ? * 6L	8:15 am on the last Friday of every month.
0 15 8 ? * 6#2	8:15 am on the second Friday of every month.
0 15 8 ? * 6#2 2007-2009	8:15 am on the second Friday of every month during the years 2007, 2008, and 2009.

# Managing your user profile

You can manage your Jira settings (e.g. your password, email address, or the format in which you would like to receive email notifications) in your user profile. Your user profile also displays recent work in the Activity Stream, and contains useful shortcuts to issues you have been working on or reported.

To manage your user profile:

Choose your user name at top right of the screen, then choose Profile.

## On this page:

- Editing your user details
- Changing your avatar
- Choosing your homepage
- Managing email notifications
- Managing your user preferences
- Managing service desk preferences
- Managing your OAuth and login tokens

# Editing your user details

If your instance is using an external user management system like Crowd, these options may not be available to you.

n	

In the **Details** section on the **Summary**page, click theediticon at the top-right of the section to edit your display name, email address, and password. If yourJiraadministrator has configured the user directory with external password management, the **Change Password** link will not be available.

# Changing your avatar

Select for your current avatar to change the image that appears next to your name in Jira. If your administrator hasenabled Gravatar for user avatars, your Gravatar (i.e. the Gravatar associated with the email address in your user profile) will automatically be set as your user avatar. If Gravatar has been enabled, you will not be able to choose Jira-specific user avatars and vice versa.using Gravatar.com.If Gravatar has been disabled, you can choose your user avatar from the ones pre-packaged with Jiraor upload your own.

# **(**)

- Your cropped image is resized to 48x48 pixels before it is savedas your new custom user avatar.
- A separate 16x16 pixel version of your custom user avatar will be generated for use incomments.
- Custom user avatars can only be selected by the user who uploaded them.

# Choosing your homepage

YourJirahome page is the Jirapage you are presented with immediately after youlog in.

You can configure the followingJirapages as yourJirahome page:

- TheDashboard
- TheIssue Navigator
- Boards
- 1. Click on yourprofile icon at the top right of the screen.

- 2. Select the appropriate home page option within the **MyJiraHome**section:
  - Dashboard
    - Issue Navigator
    - Boards (available if you're using Jira Software)
  - •Your page will be reloaded the Jirahome page you selected.
- 3. (Optional)To verify that yourJirahome page has been reset, log out and log back in toJiraagain. You should be taken directly to theJirahome page you selected in the previous step.

# Managing email notifications

In the **Preferences** section on the **Summary** page, click the **edit** icon at the top-right of the section to open the **Updated User Preferences** dialog box. You can then manage the following:

- Change the **Email Type**to change the format (plain text or HTML) in which Jira sends its outgoing email notifications.
- In **My Changes**, Choose between making Jira send you email notifications about issue updates made by either both you and other people (**Notify me**) or other people only (i.e. **Do not notify me**).

## Managing your user preferences

The global defaults for most of the user preferences below can be set by your Jira administrator; however, you can override these default settings by changing the following:

- The Page Size, or number of issues displayed on each Issue Navigator page
- Your preferred **language** from the drop-down list. If you don't see your preferred language in the list, seeTranslating Jirafor more information.
- Your **time zone** specified in your profiledoesn't match the time zone of the computer you are working on, Jira will ask if you want to update this selected time zone setting. All time fields in Jira will now be displayed in your preferred time zone.
- Choose the **Sharing** setting for when you create new filters and dashboards, which can be either shared with all other users (**Shared**) or restricted (**Unshared**).
- Choose to enable or disable Jira'skeyboard shortcuts feature.
- Choose between allowing Jira to make you an **autowatcher** of any issue that you create or comment on.
- Choose how you want your external links to open. They can open in the existing or a new tab.

### Managing service desk preferences

Service desk agents can enable or disable the **Pre-populated commenting**field by editing their user profiles. This setting can help save time by pre-filling conversation greeting text when agents comment on customer issues. When enabled, the text **Hi < Reporter\_name>**, and **< Agent\_name>** appears in the comment field and in the email notification sent to customers.

## Managing your OAuth and login tokens

An OAuth access token is issued by Jira to givegadgets access torestricted dataon an external, OAuthcompliant web application or website (also known as a "consumer"). Check outAllowing OAuth access for recommendations on when to issue or revoke OAuth access tokens.

If you are accessing your Jira applications in a public environment, you can clear you login tokens by clicking the **Clear all Tokens** link in the Details section of your Profile.

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# **Allowing OAuth access**

# About OAuth access tokens

OAuth access tokens allow you to:

- Use a Jira gadget on an external, OAuth-compliant web application or website (also known as a 'consumer')
- Grant the gadget access to the same Jiradata that you can access.

# Before you begin

YourJiraadministrator must link your Jira instance and the consumer using an application link and OAuth. For example, if you want to add aJiragadget to your Bamboo homepage, then yourJiraadministrator must first approve Bamboo as an OAuth consumer.

-	If you want to integrate with OAuth 2.0, see Integrating with OAuth 2.0.

# Issuing OAuth access tokens

To allow a gadget to access the same Jira data that you can, Jira issues it an OAuth access token. The OAuth token is unique to the gadget.

- 1. When you use a Jiragadget on a consumer (such as Bamboo) and this gadget requires access to your Jiradata, you will be prompted to log in to Jira if you have not already done so.
- 2. After you log in to Jira, you will be prompted with a **Request for Access**message.
- 3. To issue the OAuth token and grant the gadget access to your Jiradata, click **Allow**. The gadget can access your Jira data until you revoke the token.
- 4. To view tokens you have issued, go to your **Profile > Tools> View OAuth Access Tokens**:

Auth	orized Applications			
The follo	wing applications are using your account to access JIRA data			
0	Bamboo on server-gdn-bamboo.internal.atlassian.com	Approved on Apr 26, 2016 at 7:09 AM	READ AND WRITE ACCESS	Revoke Access
X	Confluence	Approved on Apr 22, 2016 at 5:53 AM	READ AND WRITE ACCESS	Revoke Access
X	JDOG - JIRA Team Dogfood on jdog.jira-dev.com	Approved on Apr 27, 2016 at 12:43 AM	READ AND WRITE ACCESS	Revoke Access
X	Stash on stash.atlassian.com	Approved on May 12, 2016 at 6:10 AM	READ AND WRITE ACCESS	Revoke Access
Ŷ	Atlassian JIRA Extranet - Special Projects on extranet.atlassian.com	Approved on Jul 15, 2016 at 12:01 AM	READ AND WRITE ACCESS	Revoke Access
Ŷ	Atlassian JIRA on jira.atlassian.com	Approved on May 30, 2016 at 1:06 AM	READ AND WRITE ACCESS	Revoke Access

## Revoking OAuth access tokens

You can revoke an OAuth access token to deny a Jiragadget access to your Jiradata. Whenyou revoke access, the gadget can only access public data on your Jirainstance.

- 1. To view tokens you have issued, go to your **Profile>Tools>View OAuth Access Tokens**
- 2. Next to the application whose OAuth access you wish to revoke, click **Revoke Access**.
- 3. You may be prompted to confirm this action. If so, click **OK**.
- 4. The gadget's access token is revoked and the Jira gadget can only access public Jiradata.

- About OAuth access tokens
- Before you beginIssuing OAuth
- access tokens
  Revoking OAuth access tokens

# **Requesting apps**

The Atlassian Marketplace website offers hundreds of apps that administrators can install to enhance and extend your Jira applications. If the app request feature is enabled for yourinstance, you can submit requests for Marketplace apps directly to youradministrator.

The 'Atlassian Marketplace for Jira' page presents an integrated view of the Marketplace website from within the Jirauser interface. The page offers the same features as the Marketplace website, such as app search and category filtering, but tailors the browsing experience to Jira application users.

This in-product view of the Marketplace gives day-to-day users of the Atlassian applications, not just administrators, an easy way to discover the apps that can help them work. When you find an app of interest, you can submit a request with just a few clicks.

# Submitting an app request

- 1. From anywhere in the application, open your profile menu and choose Atlassian Marketplace.
- In the Atlassian Marketplace page, use the search box to find apps or use the category menus to browse or filter by apps by type, popularity, price or other criteria. You can see what your fellow users have requested by choosing the **Most Requested** filter.
- 3. When you find an app that interests you, click **Request** to generate a request for your administrator.
- 4. Optionally, type a personal message to your administrators in the text box. This message is visible to administrators in the details view for the app
- 5. When ready, click **Submit Request**.
- 6. Click **Close** to dismiss the 'Success!' message dialog box.

At this point, a notification appears in the interface your administrators use to administer apps. Also your request message will appear in the app details view, visible from the administrator's 'Find New apps' page. From there, your administrator can purchase the app, try it out or dismiss requests.

## Updating an app request

After submitting the request, you can update your message at any time. Click the **Update Request** button next to the listing in the 'Atlassian Marketplace' page to modify the message to your administrator.

The administrator is not notified of the update. However, your updated message will appear, as you have modified it in the details view for the app immediately.

# Using keyboard shortcuts

Keyboard shortcuts are a great way for you to speed up editing, navigating, and for performing actions without having to take your fingers off the keyboard.

Some keyboard shortcuts require additional permissions or applications, and depend on how your Jira administrator(s) have configured permissions for your user account and which applications are installed.

## On this page:

- View keyboard shortcuts
- Enabling and disabling keyboard shortcuts

# View keyboard shortcuts

- Choose the question mark icon (2) at top right of the screen, then choose **Keyboard shortcuts**.
- When viewing a page, press **Shift** + *I*.

The Keyboard Shortcuts dialog is displayed and shows commands for the operating system and browser that you are using. The dialog is divided into sections for the following information:

- Global shortcuts- shortcuts that can be used when you are in any part of Jira
- Navigating issues shortcuts for navigating through issues
- Issue actions shortcuts for working with issues
- App specific- any application-specific shortcuts. These shortcuts only work in the listed application.

If you have other Jira applications installed, you may have additional keyboard shortcuts available. For example, if you have Jira Software installed, you will see a series of additionalkeyboard shortcuts in the lower-right of this dialog box (and some additional **Global**keyboard shortcuts specific to Jira Software in the upper-left section). However, the keyboard shortcuts in the **Agile Shortcuts**section only function in Jira Software, and not in a Jira context.

# Enabling and disabling keyboard shortcuts

Keyboard shortcuts are enabled by default. However, you can disable them on a per-user basis in the Keyboard Shortcuts dialog box.

- 1. Ensure you are logged inand open the Keyboard Shortcuts dialog box (seeabove).
- 2. At the bottom of the Keyboard Shortcuts dialog box, click**Disable Keyboard Shortcuts**or**Enable Keyboard Shortcuts**.

You can also disable or re-enable keyboard shortcuts by editing the Preferencessection of your user profile. See Managing your user profile for more information.

## Modifier keys

Some keyboard shortcuts require modifier keys to be pressed simultaneously, along with a single 'action' key.Modifier keys may differ, depending on your combination of operating system and web browser. The following table identifies the modifier keys for some supported web browsers and operating systems:

Web Browser	Mac OS X	Windows	Linux /Solaris	Notes
Firefox	Ctrl	Alt + Shift	Alt + Shift	In Firefox, it is possible to customize 'Modifier key shortcuts'. Please readMozilla's documentationfor more information.
Internet Explorer		Alt		Typing a 'Modifier key shortcut' that leads to a link requires you to press the 'Enter' to complete the action.
Safari	Ctrl + Alt /Option	Ctrl		

Chrome	Ctrl + Alt	Alt + Shift	Alt + Shift
	/Option		

# Adding announcements

Do you need to communicate a system outage, post a message about operating hours, or perhaps offer a prompt at login? Announcements are a convenient way togiveyour customers important information.

#### On this page:

- Help center announcements
- Login screen announcements
   Customer parts
- Customer portal announcements

Here areall the places within Jira Service Management that you can add an announcement:

### Help center announcements

The help center is a collection of all your service projects (customer portals). Customers who go to the help center can see all the service projects they have permission to send requests to. To add an announcement here:

- 1. Go to Jira administration> Applications > Jira Service Management > Configuration.
- 2. BelowHelp center, select the link View and customize.
- 3. On the right hand side, in the customize panel, edit thefollowing fields:
  - Announcement subject (for example, Hours of operation)
  - Announcement message (for example, Mon-Fri: 09:00 to 17:00)
- 4. Choose Save changes to publish your announcement.

Requests 30	Add help center announcements
	Announcement subject
	Hours of operation
	Announcement message
	Mon-Fri: 09:00 to 17:00 Sat-Sun: 09:00 to 12:30
	Links [name http://example.com]
	Add login announcement
	Announcement subject
	e.g. login support, signup instructions
	Announcement message
	Links [name http://example.com]
	Customize help center
	Help center name
	Help center
	(Also included in breadcrumbs)
	Front page title
	Welcome to the help center
	Save changes Cancel

You can give your agents permission to add announcements to the help centre.

- 1. Go to Jira administration > Applications > Jira Service Management > Configuration.
- 2. Under the help center setting Can agents add announcements to the help center? choose Yes.

## Login screen announcements

These announcements are displayed to customers who haven't logged in. The announcement might be a useful login prompt, or contact information in cases of difficulty. To add an announcement to the login screen:

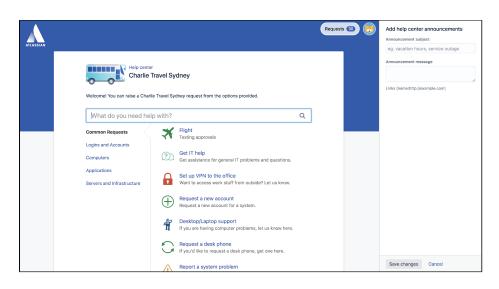
- 1. Go to Jira administration> Applications > Jira Service Management > Configuration.
- 2. BelowHelp center, select the link View and customize.
- 3. On the right hand side, in the customize panel, under **Add login announcement**, edit thefollowing fields:
  - Announcement subject (for example, How to login)
  - Announcement message (for example, Use your employee login as follows...)
- 4. Choose Save changes to publish your announcement.

Requests 30	Add help center announcements
	Announcement subject
	Hours of operation
	Announcement message
	Mon-Fri: 09:00 to 17:00 Sat-Sun: 09:00 to 12:30
	Links [name http://example.com]
	Add login announcement 🔶
	Announcement subject
	e.g. login support, signup instructions
	Announcement message
	Links [name http://example.com]
	Customize help center
	Help center name
	Help center
	(Also included in breadcrumbs)
	Front page title
	Welcome to the help center
	Save changes Cancel

## Customer portal announcements

Every service project comes with an online portal that your customers use to interact with your service team. To add an announcement to a specific customer portal:

- 1. Navigate to the service project you want to update.
- 2. ChooseProject settings > Portal settings.
- 3. Click the linkView and change under the Announcement heading.
- 4. On the right hand side, in the customize panel, under Add help center announcement, edit thefollowing fields:
  - Announcement subject (for example, Holiday hours)
  - Announcement message (for example, The IT team will be out of the office from 20th December to 5th January)
- 5. Choose Save changes to publish your announcement.



You can give your agents permission to add announcements to the customer portal.

- 1. Go to Project settings > Portal settings.
- 2. Under the announcement settingCan agents add announcements to this portal?choose Yes.

# Adding request participants

Request participants are customers and organizations who can view, comment, and receive notifications about a request. Participants receive the same notifications as the reporter and can turn off notifications at any time. Youmight add request participants so they can provide more information about a request, or to notify them of a request's progress.

Both agents and customers can add and remove request participants. Who customers can add as participants depends on the project's customer permissions settings. Read Managing access to your service project to learn more.

#### On this page:

- Add participants to a project
- Add participants to an issue
- Add participants in the customer portal
   Add participants by mentioning them via the customer portal
- Add participants through email
- Add watchers

### Add participants to a project

To add participants to a project:

- 1. From the sidebar, selectProject settings > Users and roles, then select Add users to a role.
- 2. Enter the participant's email address, choose their role type, then select Add.
- (i) Request participants follow issue-level security schemes. For example, if an administrator customizes requests so that only reporters can view them, then request participants won't be able to view the request. Administrators can refer to the instructions in Configuring issue-level security to update the issue security scheme.

## Add participants to an issue

Requests participants can only be added if they have access to the project. Change your customer permissions to set who can access your service desk project.

To add a participant to a request:

- 1. Open the issue you want to add a request participant to.
- 2. Select the Request participants or Organizations field on the right side of the issue view.
- 3. Enter the participant's details, then click the tick.

When you add a request participant they receive an email notifying them that they are participating in the request, depending on the project's notification settings.

The following image shows the request participants in the issue view:

> People	
Assignee:	👩 Karen Bywater
Reporter:	👰 Mitch Davis
Request participants:	🗬 Alana Grant
Organizations:	Charlie Travel
Votes:	0 Vote for this issue
Watchers:	1 Start watching this issue

#### Add participants in the customer portal

Customers in anorganization can share requests when they raise them. If a customer belongs to only one organization, the request is shared with it by default unless you have changed the default settings to keep all new requests private. If the customer is in more than one organization, the request is private by default.

You can choose whether new requests are private or shared by default. To do so, go to Administrati on > Applications > Jira Service Management configuration, and look at Organization management.

If you want to share a request with only some participants, you can add them to your request.

How an agent adds a participant to a request:

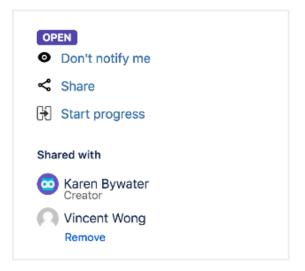
- 1. From the sidebar, select Raise a request.
- 2. Fill out the request form, select Create.
- 3. Select **Share** from the right side panel, enter the name, email address, or organization in the **Share this request** field.
- 4. Select Share.

How a customer adds a participant to a request:

- 1. Access the customer portal from the link provided.
- 2. Fill out the request form, select Create.
- 3. Select **Share** from the right side panel, enter the name, email address, or organization in the **Share this request** field.
- 4. Select Share.

Participants will receive an email notifying them that they are participating in the request depending on the pr oject's notification settings. The participants will appear under the **Shared with** section in the request.

The following image shows the request participants in the customer portal request view:



#### Add participants by mentioning them via the customer portal

You can also add participants by mentioning them in the description or comments. They will be immediately added as a participants and will receive a notification about it (if the Participant added notification is enabled).

- Agents: You can mention anyone in the project.
- Customers: You can only mention customers from your organization. In some projects where
  customers are allowed to share requests with any customer or organization, you'll be able to mention
  anyone in the project.

(i) Actions via customer portal won't result in any Jira mention notification emails.

#### Add participants through email

Customers in anorganization can share requests when they raise them. If a customer belongs to only one organization, the request is shared with it by default unless you have changed the default settings to keep all new requests private. If the customer is in more than one organization the request is private by default.

You can choose whether new requests are private or shared by default. To do so, go to Administrati on > Applications > Jira Service Management configuration, and look at Organization management.

If you want to share a request with only some participants, you can add them to your request.

To add participants through email:

1. Add the participant's email address to either the TO or CC fields.

The participant will receive an email notification that you added them depending on the project's notification settings.

#### Add watchers

Agents can involve other agents or Jira users to get help with an issue. For example, you might want Jira Software developers to help analyze a bug that a customer has reported.

To involve other users, add them as watchers:

- 1. Open the issue you want to add a watcher to.
- 2. Select the **Watchers**field to the right side, under **People**.
- 3. Select the number count, then enter the name or email address in the Add watchers field.

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Assignee:	<ul> <li>Unassigned</li> </ul>				
	Assign to me	Assign to me			
Reporter:	🖸 Alana Grant				
Request participants:	None				
Approvers:	Karen Bvwater				
Organizations:	None Add Watchers	×			
Votes:	0 V(				
Watchers:	<b>1</b> ٤ Start Typing for U	Users			
Approvals	🕺 Karen Byw	vater			
WAITING FOR APPR	0 1 approval needed				

Watchers are notified about internal activity on an issue, and can communicate with you via internal comments.

# Using service project queues

Customer requests become issues that you can view and work on in queues. Jira Service Management comes with default queues that your administrator can update to automatically triage issues for your team. As an agent, you can see how many issues are in each queue, and switch between queues to work on the right issues at the right time.

You can easily navigate to your service project queues at any time by selecting **Queues** from your project sidebar.

Charlie Travel Franchis	QUEUES		All open						()	Edit queue
		2	Time to resolution	т	Key	Status	Summary	Created	Ρ	Reporter
Queues	Unassigned issues	2	-3d 🕔		CTF-1	WAITING FOR SUPPO	What am I looking at?	26/Apr/18	0	Karen
Customers	Assigned to me	0		_						Bywater
Reports	∥ → Waiting on me	0	1h 19m 🕓		CTF-2	WAITING FOR APPRO	3 day trip to Brisbane	02/May/18	¥	Alana Grant
	Incidents	0	1-2 of 2							
Raise a request	⊨ Heported in the I	0								
Knowledge base	∥ └→ Critical	0								
Customer channels	Service requests	1								
Invite team	∥ → Due in 24h	0								
Ø Welcome guide	Change	0								
O Welcome guide	$\parallel \rightarrow$ Ready for imple	0								
PROJECT SHORTCUTS	$\parallel \rightarrow$ Emergency chan	0								
Add a link to useful information for your whole team to see.	Problem	0								
+ Add link	$\parallel \rightarrow$ Completed last 3	0								
	Recently resolved	0								
	+ New queue									

### Switching queues

When you select **Queues** from your project sidebar for the first time, the secondary sidebar menu will open automatically. This sidebar displays all queues in your service project, as well as the number of issues in each queue. Simply select the name of the queue you wish to work from to view its issues.

To expand the view of a single queue, you can minimize your project sidebar by selecting Collapse sidebar (

) and minimize your queue sidebar byselecting in the sidebar's upper right corner. When the queue sidebar is collapsed, a Switch queue dropdown will appear, which you can use to view a different queue or to reopen the queue sidebar:

	All open	Switch Queues ~
ē	Time to resolut	All open Unassigned issues
<u></u>	1h 15m ()	Assigned to me → Waiting on me
⊡	1-2 of 2	Incidents → Reported in the last 60 minutes → Critical
Ģ		→ Critical Service requests → Due in 24h
•		Change
Ø		<ul> <li>→ Ready for implementation</li> <li>→ Emergency change</li> </ul>

#### Sorting issues

To make it easier to find the most important issues, you can sort issues in your queues based on any of the available columns. Click a column to choose it as the primary sorting option, and then click again to refine the sorting. For example, you can change the sorting from oldest to newest, or switch the alphabetical order.

Time to resolution <b>↑</b>	т	Key	Status	Summary	Created	Reporter	Due
3h 36m 🕔		CHARLIE-1	WAITING FOR SUPPORT	What am I looking at?	30/Oct/19	John Williams	
1d 7h 🕔		CHARLIE-2	ESCALATED	Low quality rocket fuel	30/Oct/19	Mr. Jack	
1d 12h 🕔		CHARLIE-3	PENDING	Engine makes weird noises	30/Oct/19		
2d 1h 🕓		CHARLIE-5	IN PROGRESS	Cleaning service in the Mars base	30/Oct/19	Jimmy Hawking	
2d 7h 🕓		CHARLIE-6	WAITING FOR SUPPORT	Red dust gets everywhere	30/Oct/19	Suzy Queue	
2d 12h 🕔		CHARLIE-7	WAITING FOR SUPPORT	Mayday, I'm lost in space	30/Oct/19	Ann	
3d 2h 🕔		CHARLIE-8	WAITING FOR SUPPORT	When can we expect travels to Saturn?	30/Oct/19	Walter Gray	
3d 6h 🕔		CHARLIE-9	WAITING FOR SUPPORT	Requesting discount for Moon tickets	30/Oct/19	Jason Wild	
3d 7h 🕔		CHARLIE-4	IN PROGRESS	Requesting more flights to Mars	30/Oct/19	Alfred Pear	

Some things to keep in mind:

- Sorting is a personal setting. Whatever you choose, it won't affect your teammates.
- Your settings are saved in the local storage, so they won't be available if you access your queues from a different device.
- To reset sorting, select **More** (<sup>…</sup>)> **Reset sorting**.

#### Managing multiple issues at once

You can update multiple issues at once instead of opening and editing them one by one.

0	pen								<b>()</b>	•
	6 selected	🔗 Link	© Comment	Assign	Watch	Telete	Created	Due		
		CHARLIE-1	WAITING F	OR SUPPORT		What am I looking at?	30/Oct/19			
		CHARLIE-4	» IN PROGRE	SS		Requesting more flights to Mars	30/Oct/19			
		CHARLIE-2	> ESCALATE	D		Low quality rocket fuel	30/Oct/19			
		CHARLIE-3	PENDING			Engine makes weird noises	30/Oct/19			
		CHARLIE-9		OR SUPPORT		Requesting discount for Moon tickets	30/Oct/19			
		CHARLIE-7		OR SUPPORT		Mayday, I'm lost in space	30/Oct/19			
		CHARLIE-8	WAITING F	OR SUPPORT		When can we expect travels to Saturn?	30/Oct/19			
		CHARLIE-5	» IN PROGRE	SS		Cleaning service in the Mars base	30/Oct/19			
		CHARLIE-6	WAITING F	OR SUPPORT		Red dust gets everywhere	30/Oct/19			
- 12	of <b>12</b>								< 1	

After selecting multiple issues, youll be able to choose one of these actions:

- Assign issues to a different user
- Watch / Stop watching selected issues. This requires that watching is enabled in your Jira instance.
- **Delete** selected issues
- Add an internal or external comment to your issues. Adding a comment to 50 issues at once might take some time, so watch out for this.
- Link selected issues to other issues

#### Good to know

- You can select a maximum of 50 issues at once because thats what fits on a single page. When you switch to another page, your selections will be cleared.
- Keyboard shortcuts: You can use *up* and *down* arrows to move between issues, and the *space bar* to select them.

# **Raising requests on behalf of customers**

Let's say you're helping a customer resolve an issue over the phone, and you need to follow up with additional information. You can use the customer portal to quickly enter your customer's name, fill in the issue details, and submit the service project request.

If you don't need to create a request but simply want to invite customers to your service project so they know how to get help, you can skip ahead to Inv ite a new customer.

(i) Only agents can raise requests on behalf of customers.

### Raise a customer request

- 1. From your service project sidebar, select Raise a request (
- 2. Select the request type that matches your customer's need.
- 3. In the **Raise this request on behalf of** field, enter a new customer's email address, orsearch for an existing customer:

Raise a reques

$\textcircled{\begin{subarray}{c} \hline \hline$	Help Center / Charlie Travel Franchises Get IT help	
~~~	GetTi help	
Raise t	is request on behalf of	
	na Grant	

- 4. Fill in the request details. If the customer is in an organization, you can choose to share the request with that organization.
- 5. Select **Create**. Your customer is emailed a link to the new request. New customers also receive an invitation to finish creating a service desk account.

#### Invite a new customer

- 1. From your service project sidebar, select**Customers**.
- 2. Select Add customers and enter your customer's email address.
- 3. If they belong to an organization, select it from the Add to organization dropdown.
- 4. Select Add, and you're done!

On this page:

- Raise a customer request
- Invite a new customer

# Adding customers

As an agent, you can add customers to your service project. If your administrator grants you permission, you can also manage organizations in the project.

- Customers raise requests in your service desk.
- **Organizations** are groups of customers that are shared across projects.

#### On this page:

- Add customers
- Add organizations
- Add customers to an organization
- Remove customers from an organization
- Remove organizations from a project

### Add customers

Add customers to a project via **Customers** Add customers. Customers on this list can raise requests in the project, via the portal or email.

Customers are automatically added to the list if your service project is open to users with Jira accounts, or allows customers to create their own accounts.

### Add organizations

Add a new or existing organization to a project via **Customers** Add organizations. Organizations that you add display on the **Customers** list, and their members can raise requests in the project via the portal or email.

### Add customers to an organization

- 1. Go to the **Customers**
- 2. Select the organization in the list.
- 3. Click**Add customers**. The customers you add can raise requests in all projects that use the organization.

Because the organization can be used in multiple projects, the customers are not added to the **Customers**rol e for the project.

### Remove customers from an organization

- 1. Select an organization in the Customerslist.
- 2. Find the customer you want to remove, and then click Xnext to their name.

Customers you remove lose access to projects that use the organization, unless they have access through another organization, or have the **Customers** role for the projects.

#### Remove organizations from a project

- 1. Select an organization in the Customerslist.
- 2. SelectRemove from project.

When you remove an organization from a project, its members lose access to the project unless they have the **Customers** role for the project.

# Organizing work with versions

Versions are points-in-time for a project. They help you organize your work by giving you milestones to aim for. You can then assign the issues in your project to a specific version, and build up the work you need to do to complete that version.

### On this page:

- Managing a project's versions
- Add a new version
- Release a version
- Archive a version
- Delete a versionMerge multiple
- versionsReschedule a

version

You need to have the project-specificAdminister Projectsproject permissionor theJira Administratorglobal permission be able to:

- Add create a new version against which issues can be aligned.
- Release mark a version as released.
- Archive hide an old version from the Releases report, and in the user interface.
- Delete remove a version. You must choose an action for any issues with that version.
- Merge combine multiple versions into one.
- Reschedule re-arrange the order of versions.

Once a version has been created for a project, the 'Affects version' and 'Fix version' fields will become available for your issues. If you cannot see these fields on your issue, your project may not have any version yet, or the fields are hidden from view.

#### Managing a project's versions

The easiest way to manage a project's versions is through the Versions page.

- 1. Choose Administration ( )>Projects, and click the name of the project.
- 2. Choose Versions in the sidebar. The Versions page is displayed, showing a list of versions.

Screenshot: The 'Versions' page

verview Administration	1						
Summary	Versions						Merge
Issue Types Workflows	For software projects, JIRA allow	s you to track different versions, e.g. 1.0, 2.0. Issu	es can be assiç	ned to versions.			
Screens	Name	Description		Start date	Release date		
Fields Project Mappings	9					Add	
	③ 2.1	Bug fix and feature polish			27/Mar/13		
Versions Components		5 New Levels, Android Support			17/Feb/13		
Tempo	② 2.0	UI cleanup			27/Mar/13		
Roles	1.3	The Phantom Nerd			29/Jul/11		
Permissions Issue Security	1.2	Return of the Nerds			15/Jun/11		
Notifications	1.1	The Empire Strikes Nerds			08/Jun/11		
Team Shortcuts	1.0	A New Hope for Nerds			01/Apr/11		
Service Desk							

#### Add a new version

- 1. The Add Version form is located at the top of the 'Versions' page.
- 2. Enter the name for the version. The name can be:
  - simplenumeric, e.g. "2.1", or

- complicatednumeric, e.g. "2.1.3", or
- aword, such as the project's internal code-name, e.g. "Memphis".
- 3. Optional details such as the version description (text not HTML), start date and release date (i.e.thepla nned release date for a version) can be also be specified. These can be changed later if required.
- 4. Click the Add button. You can drag the new version to a different position by hovering over the 'drag'

icon at the left of the version name.

#### Release a version

- 1. On the 'Versions' page, hover over the relevant version to display the cog icon, then select **Release** fro m the drop-down menu.
- If there are any issues set with this version as their 'Fix For' version, Jira allows you to choose to change the 'Fix For' version if you wish. Otherwise, the operation will complete without modifying these issues.

(i) To revert the release of a version, simply select **Unrelease** from the drop-down menu.

# Archivea version

- 1. On the 'Versions' page, hover over the relevant version to display the cog icon, then select**Archive**fro m the drop-down menu.
- 2. The version list indicates the version 'archived' status with a semi-transparent icon. No further changes can be made to this version unless it is un-archived. Also it is not possible to remove any existing archived versions from an issue's affected and fix version fields or add any new archived versions.

(i) To revert the archive of a version, simply select **Unarchive** from the drop-down menu.

#### Delete a version

- 1. On the 'Versions' page, hover over the relevant version to display the cog icon, then select**Delete**from the drop-down menu.
- 2. This will bring you to the 'Delete Version: <Version>' confirmation page. From here, you can specify the actions to be taken for issues associated with the version to be deleted. You can either associate these issues with another version, or simply remove references to the version to be deleted.

#### Merge multiple versions

Merging multiple versionsallows you to move the issues from one or more versions to another version.

- 1. On the 'Versions' page, click the Mergelink at the top right of the page.
- 2. The 'Merge Versions' popup will be displayed. On this page are two select lists both listing all unarchived versions.

In the 'Merging From Versions' select list, choose the version(s) whose issues you wish to move. Versi onsselected on this list will be removed from the system. All issues associated with these versions will be updated to reflect the new version selected in the 'Merge To Version' select list. It is only possible to select one version to merge to.

3. Click the **Merge** button. If you are shown a confirmation page, click **Merge** again to complete the operation.

#### Reschedule a version

Rechedulinga version changes its place in the order of versions.

• On the 'Versions' page, click the licon for the relevant version, and drag it to its new position in the version order.

# Workflows

All Jira projects contain issues that your team can view, work on, and transition through stages of work from creation to completion. The path that your issues take is called a workflow. Each Jira workflow is composed of a set ofstatuses (the state your work can be in) andtransitions (how your work moves between statuses) that your issue moves through during itslifecycle, and typically represents work processes within your organization.

In addition, Jira uses workflow schemesto define the relationship between issue types and workflows. Workflow schemes are associated with a project, and make it possible to use a different workflow for different combinations of project and issue types.

Jira administrators and project administrators have different permissions when it comes to workflows.

#### **Project administrators**

As a project administrator, you can only edit a workflow that belongs to your project if:

- you have the *Extended project administration* permission, which is enabled by default (you can check that in **Project settings > Permissions**),
- the workflow isn't shared with any other projects (it's only available in your project),
- the workflow isn't the default Jira workflow (no-one can edit these workflows).

If the workflow is shared with another project, you'll see that information when you view the workflow. You'll also see how many issue types share the workflow, and would be affected by any changes you may make. You can make the following changes to the workflow:

- Add a status(the statuses must already exist in the Jira instance, you can't create, edit or remove statuses),
- Delete a status (the statuses must not be used by any of the project's issues),
- Create, add, edit or delete transitions(you can't select or update a screen used by the transition, or edit or view a transition's properties, conditions, validators or post-functions).

#### To view a workflow

- 1. SelectProjectsand choose the project whose workflow/s you want to view.
- 2. Select**Project settings**in the sidebar.
- 3. Select **Workflows** to see the list of workflows and issue types they're associated with.
  - Click a workflow to display it as diagram. If you're able to edit the workflow, you'll see anEditbutton. If the workflow is shared with another project or issue type/s, that information will be available, and you can view it by clicking the relevant link.
  - Additionally, you can view a workflow in a simple, text form by clicking**View as text**next to the workflow's name.

#### To edit a workflow

- 1. When viewing a workflow, selectEdit.
- 2. You can add a status or transition by clicking the relevant button. You can edit existing transitions by selecting them.
- 3. **Publish**your workflow to make it active.

If you don't publish the workflow, it'll remain as a draft until such time as you publish it, or discard it.

If you have a draft workflow present on your project, and you want to see the original workflow that's currently active, select**Project settings > Workflows**, and click a workflow.

#### Jira administrators

As a Jira administrator, you can complete the actions listed in the table below. The actions you have available are more extensive, and the documentation links will direct you to the Administrator documentation set.

What you can do	Documentation
-----------------	---------------

<ul> <li>Edit existing workflows</li> <li>Create new workflows</li> <li>Configure existing workflows</li> </ul>	Working with workflows
<ul> <li>Add a workflow scheme</li> <li>Configure a workflow scheme</li> <li>Manage workflow schemes</li> </ul>	Configuring workflow schemes
<ul><li>Import and export workflows</li><li>Activate and deactivate workflows</li></ul>	Managing your workflows
<ul> <li>Add custom events</li> <li>Configure the initial status</li> <li>Work in text mode</li> <li>Configure workflow triggers</li> <li>Use validators and custom fields</li> <li>Use XML to create a workflow</li> <li>Workflow properties</li> </ul>	Advanced workflow configuration

# Using Jira on a mobile device

When you view a Jira page on a mobile device, such as an iPhone or an Android phone, Jira will display an optimized version of the page. Jira chooses the mobile or desktop interface based on your device.

The Jira mobile interface is designed for viewing and interacting with issues on the go. If you need full access to Jira, you can always switch to the Jira desktop interface via the mobile menu (shown in the screenshots below).

#### d to Me JRADEV-18680 D a DEV-1840 v Ma DEV-18407 / Does for new Master documentation issue for JIRA 5.2.7 die filte DEV-18370 / 5.2.6 Doos: U REPORT Andrew Lu Main DEV-18269 / Doce prating to a JIRA inst og data has been rem to desktop v ADEV-19905 / Does for JDK 1.6 E L in 6.0 final Logicu or JIRA 5.2.7. This will be a bug JRADEV-1818 EV-13370 / 5.2.5 Does: U IJRA 6.0

# What does Jira look like on a mobile device?

### What can you do in Jira on a mobile device?

The Jira mobile interface has been designed to give users quick access to their issues on the go. This includes;

- Viewing issues, comments, attachments, issue links and your favorite filters.
- Performing basic operations like adding comments, watching or voting on issues and assigning issues to users.

If you need to create or modify issues on the go, you can still do so by switching to the desktop interface via the mobile menu (shown in the screenshots above).

# **Configuring dashboards**

Your dashboard is the main display you see when you log in to your project. You can create multiple dashboards for different projects, or multiple dashboards for one big project. Each project has adefault dashboard, or you cancreatea personal dashboard and add gadgets to keep track of assignments and issues you're working on. Dashboards are designed to displaygadgetsthat help you organize your projects, assignments, and achievements in different charts.

You can see all dashboards by selecting the **Dashboards** drop-down from your Jira application header.

#### On this page:

- About the default dashboard
- Creating a dashboard
- Managing dashboards and permissions
- Sharing and editing your dashboard
- Adding favorite dashboards
- Note on dashboard permissions
- Setting up a Wallboard

## About the default dashboard

The gadgets on the default dashboard can be reordered and switched between the left and right columns. Additional gadgets can also be added, while some gadgets can be configured. The layout of the dashboard (e.g. number of columns) can also be configured.

All changes made to the default dashboard will also change the dashboards of all users currently using the default dashboard. However, gadgets that users do not have permissions to see will not be displayed to them. For example, the 'Administration' gadget, although it may exist in the default dashboard configuration, will not be visible to non-admin users.

## Creating a dashboard

You can easily create and customize your own dashboard to display the information you need. Note that only administrators can customize the default dashboard for your project.

- 1. At the top right of the Dashboard, select **More** (.....).
- 2. Select either **Create Dashboard**to create a blank dashboard, or **Copy Dashboard**to create a copy of the dashboard you are currently viewing.
- 3. Name and describe your dashboard.
- 4. Fill out the rest of the fields as applicable.
- 5. Click Add.

By default, sharing is set to private if you have not specified a personal preference. You can adjust this setting in the sharing preferences in youruser profile, and change dashboard permissions at any time in the Manage Dashboardspage.

### Choosing a dashboard layout

To choose a different layout for your dashboard page (for example, three columns instead of two):

1. At the top right of the Dashboard, click Edit layout. A selection of layouts will be displayed:

Edit layout	
Choose dashboard layout	
	Close

2. Choose your preferred layout.

#### Managing gadgets

To get the most out of your dashboard, including adding, rearranging, removing, and configuring gadgets, see Adding and customizing gadgets.

#### Managing dashboards and permissions

You can edit, delete, copy, mark favorites, and share your dashboards from the Manage Dashboards page.

- 1. SelectDashboards> Manage Dashboards.
- 2. Choose the dashboard.

#### Sharing and editing your dashboard

You can edit the details for your dashboard, and restrict or share with other users according to the permissions that are set. In addition, you can see all the dashboards you've created, any public dashboards, and any shared dashboards.

- Click Actions ( >> Edit. (If you're viewing the dashboard, go to More ( >> Edit/Share Dashboard).
- 2. Edit the settings.

#### Adding favorite dashboards

If you find a dashboard you like, click the staricon next to its name to add it to your favorite dashboards list. You can also add thedefault dashboardto your favorites list so it's easily available to you.

Manage Dashb	oards		Create new dashboa	rd Restore Defaults
<b>Favorites</b> My	Favorite Dashboards	ge all your favorite dashboards.		0
Popular Search	Name	Owner	Shared With Private Dashboard	* ^ ¥ * <b>0 •</b>

#### Note on dashboard permissions

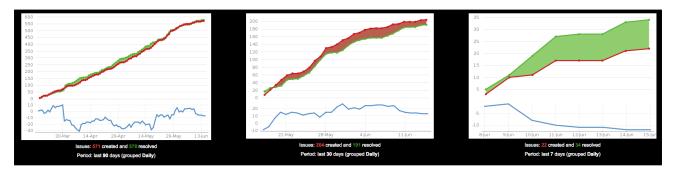
Jira administrators, as set inglobal permissions, can manage their users' shared dashboards in the **Shared dashboards**menu. Administrators can also change the ownership of a dashboard if the creator is unable to maintain the dashboard or its gadgets. See <u>Managing shared dashboards</u> for more information.

#### Setting up a Wallboard

Turn any Jira application dashboard into awallboardby plugging your computer into a TV monitor. The Wallboard is a dashboard **gadget** that acts as an information radiator to provide instant visual insight into

project progress and team accomplishments. With your favorite dashboard selected, select **More** (**box**) > **Vie w as Wallboard**. The dashboard will appear against a black background, and will rotate gadgets if the user enables the slideshow option.

The Wallboard below shows the same Created vs. Resolved Issues gadgets and data above.



# Adding and customizing gadgets

## Adding a gadget to a dashboard

You can add gadgets to your own personal dashboard(s). To add a gadget to the default dashboard for your Jira application, you must be a Jira admin.

Some applications allow dashboards that are shared by groups of people. If you have permission to update a shared dashboard, the other people sharing the dashboard will see your changes, too.

- 1. Go to the dashboard by selecting the **Dashboards** link in the header.
- 2. If you don't already have a dashboard, select **Manage Dashboards** from the dropdown, then **Create new dashboard**.
- 3. Once your dashboard is created, on the dashboard, selectAdd Gadget.
- 4. Use the gadget wizard to choose the gadgets you want to add. You can see a list of these gadgets in Gad gets for Jira applications.

For more information about managing dashboards, see Configuring dashboards.

### Customizing how gadgets look

There are a few ways you can customize the view of gadgets in a dashboard:

То	Do this
Expand or collapse gadgets	Use the <b>More</b> (
Expand a gadget to take up the entire dashboard	Use the <b>Maximize</b> () button in the gadget header. This view often provides more functionality than is available in the standard view of the gadget. Only some gadgets provide the maximized or canvas view. The canvas view setting is stored in a cookie, and is not saved to the dashboard server.
Rearrange gadgets	Use the $\bigcirc$ ( $\stackrel{\textcircled{1}}{\textcircled{2}}$ ) button in the gadget header.
Customize the gadget frames	Use the <b>More</b> ( ) button in the gadget header.
Delete a gadget	

### Custom gadgets

You need administrator privileges to add a gadget to the list of available gadgets. If you have permission to add and remove gadgets from the directory itself, you will see the 'Add Gadget to Directory' and 'Remove' buttons on the 'Add Gadget' screen. This functionality is only available for the Server version of applications; if you would like to add an Atlassian gadget to a directory in your Cloud site, please contact Atlassian Support.

# **Gadgets for Jira applications**

Gadgets let you customize the information you display on dashboards or wallboards in Jira applications. This information may include the number of open and resolved issues, labels used in selected projects, version reports, and many more.

Both Jira admins and users can manage gadgets on dashboards. The Jira admin can make changes to the system dashboard, while users can only create and customize their personal dashboards. What the user can see in gadgets on the dashboard depends on global and project permissions.

On this page, youll find all the gadgets that you can install on dashboards in Jira Core (JC), Jira Software (JSW), and Jira Service Management(JSM), including additional Bamboo, Crucible, and FishEye gadgets.

Gadget	JC	JSW	JSM	Description
Jira Core	gadge	ets		
Assigne d to Me	•	•	0	Shows all unresolved issues assigned to you.
Bubble Chart				<ul> <li>Tracks the correlation of issues in a project or filter during a configured period based on:</li> <li>the number of days issues have been open</li> <li>the number of comments in issues</li> <li>the number of participants or votes in issues</li> <li>The horizontal axis represents the number of days when issues remained open. The vertical axis represents the number of comments in issues.</li> <li>The bubble colors also indicate the correlation between the days when issues remained open and the number of comments. The green indicates low values and the red color indicates high values.</li> <li>Only the first 200 open issues are displayed on the bubble chart.</li> <li>You can configure the following settings for the chart:</li> <li>the period during which issue comments are considered recent</li> <li>the basis of the bubble size (participants or votes)</li> <li>automatic refresh of the bubble chart data every 15 minutes</li> <li>relative coloring to distinguish issues with more comments from issues with fewer comments</li> <li>logarithmic scale (the linear scale is the default) to distribute the bubbles from each other. We recommend that you use the logarithmic scale if the bubble chart contains a large range of data.</li> </ul>
Created vs. Resolve d Chart	0	•	•	<ul> <li>Shows the work progress by showing the number of created and resolved issues for a set period.</li> <li>The chart is based on your choice of project or issue filter. The chart can be either cumulative or show the issue count.</li> <li>An issue is marked as resolved in the time period if its resolution date fits into this period.</li> <li>The resolution date is the last date when the <b>Resolution</b> field was set to any non-empty value.</li> </ul>
Favorite Filters	0		0	Shows a list of all issue filters that you've added as favorite filters.

Filter Results	•	•	0	Shows the results of a selected issue filter on the dashboard.			
Introduct ion	0	0		<ul> <li>Lets you configure a message on the dashboard to say hello to users. The text or HTML displayed in the gadget should be configured by the Ji ra admin.</li> <li>To do this: <ol> <li>Go to Administration &gt; System.</li> <li>In the left panel, go to General configuration.</li> <li>Select Edit settings.</li> <li>In the Introduction field, type the text that will be displayed as the introduction message on the dashboard.</li> <li>At the bottom of the page, select Update to save the changes.</li> </ol> </li> </ul>			
Issue Statistics	0	0	0	Shows issue statistics returned from a selected project or saved filter (grouped by a selected field).			
lssues In Progress	0	0	•	Shows all issues that are currently in progress and assigned to you.			
Labels Gadget	0	0	0	Shows a list of all labels used in a selected project.			
Pie Chart	<b></b>			Shows aggregated data on issues based on a selected filter.			
Quick Links	•	0	•	Adds links to frequently used searches and operations.			
Two Dimensi onal Filter Statistics	0	0	•	Shows data based on a selected issue filter. For example, you can create a filter to retrieve all open issues in a particular project. Then, you can configure the gadget to display the statistical data on this collection of issues in a table with configurable axes.			
Voted Issues	•	0	0	Shows all issues you've voted for.			
Watched Issues	•	0	0	Shows all issues you're watching.			
Atlassian	gadg	ets					
Activity Stream	•	0	0	Shows activity on your instance. (Think of it as of a news feed.)			
Average Age Chart	0	0		<ul> <li>Shows the average age of unresolved issues. This chart is based on your choice of project or issue filter and units of time (hours, days, weeks, months, quarters, or years).</li> <li>For the purposes of this gadget, an issue is defined as unresolved if it has no value in the <b>Resolution</b> field.</li> <li>The age of the issue is the difference between the current date and the date when the issue was created.</li> </ul>			
Heat Map	0		0	<ul><li>Shows the relative weighting of a selected fields values in issues of a selected project or filter.</li><li>For example, this gadget can be configured to show a heat map of issue pri ority in a particular project.</li></ul>			

n Gadget

Jira Road Map	0	•	•	Shows which versions are due for release in a set period, as well as a summary of the progress made towards completing the issues in the versions.			
Projects	0	•	•	Shows information on various issue filters from a selected project.			
Recently Created Chart	0	0	•	Show a rate at which issues are being created as well as how many of these issues are resolved.			
Resoluti on Time	0			<ul> <li>Shows trends in the average time taken to resolve issues. The report is based on your choice of project or issue filter and units of time (hours, days, weeks, months, quarters, or years).</li> <li>The resolution time is the difference between the dates when an issue was created and resolved.</li> <li>If the resolution date isnt set, the gadget wont consider this issue.</li> <li>The resolution date is the last date when the <b>Resolution</b> field was set to any non-empty value.</li> </ul>			
Time Since Chart	0	0	0	<ul> <li>Show the number of issues for which a selected field was set on a selected date (for example, Created, Updated, Due, Resolved, or a custom field).</li> <li>The Resolved field here is the system Resolution Date field. This is the last date when the Resolution field was set to any non-empty value.</li> <li>The report is based on your choice of project or issue filter and units of time (hours, days, weeks, months, quarters, or years).</li> </ul>			
Wallboar d Spacer Gadget	•		0	<ul> <li>Lets you modify the layout of your wallboards by adding custom space between gadgets.</li> <li>You should set the height of a spacer in pixels and place the gadget in the preferred position on the dashboard.</li> <li>You cant modify the gadgets color as it matches the black background color in the wallboard view.</li> </ul>			
Jira Softw	vare g	adgets					
Agile Wallboar d Gadget		0		Helps you see how youre tracking with an agile board on your wallboard or dashboard.			
Days Remaini ng in Sprint Gadget		0		Shows how many working days you have before the current sprint ends.			
Sprint Burndow		0		Shows the burndown for a sprint in a line chart. The vertical axis represents the estimation statistic.			

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The gadget will only display uncompleted sprints.

Sprint Health Gadget		♥		Shows a summary of issues in a sprint in a color-coded bar graph. The colors in this gadget match the colors in the column configuration. The completed work is calculated based on the estimation statistic for a	
				board and is represented with the green part of the progress bar. For example, if you have 50 story points in a sprint and you have 3 resolved issues with 10 story points, the <b>Work complete</b> will be 20% (10 out of 50 story points).	
				The gadget doesnt show the progress of work logged in the <b>Remaining Estimate</b> and <b>Time Spent</b> fields in Jira.	
				Adding or removing an issue from a started sprint is considered a change of scope. The percentage is calculated by using the statistic configured for the board. For example, if you started a sprint with 50 story points and add an issue with 5 story points, the Sprint Health gadget will show a 10% scope change.	
				If you add or remove issues without estimates, the scope change wont be altered.	
				If you're using Jiras time tracking, the scope change wont show.	
				The <b>Blocker</b> field counts all blockers with the statuses <b>To Do</b> or <b>In</b> <b>Progress</b> .	
				For more information, see Configuring estimation and tracking	
Version Report		•		Tracks a projected release date for a version. This helps you monitor whether the version will release on time so you can take action if the work is falling behind.	
Jira charti	ng ga	adgets			
Average Number of Times in Status	<	0	♥	Shows the average number of times when issues had a selected status for a set period. Requires theJira Charting App installed.	
Average Time in Status	•	•	•	Shows the average time that issues have spent in a selected status for a set period. Requires the Jira Charting App installed.	
				Learn more about how to use the gadget	
Time to First Response	•	•	•	Displays the number of hours that it takes to respond to issues in a project or filter. Requires the Jira Charting App installed.	
Workloa d Pie Chart	0	•	•	Uses a pie chart to show matching issues for a project or filter. Requires the Jira Charting App installed.	
Other gad	gets				
Jira Issues Calendar	0	•	•	Generates a calendar-based view of due dates for issues and versions. Requires the <u>Jira Calendar app</u> installed.	
Test Sessions	•	0	0	Shows a list of test sessions.	
				1	

Text	0		<ul> <li>Shows HTML text on the dashboard. This gadget is available if a Jira admin has enabled it. By default, yhe gadget is disabled because it causes a potential security risk. The gadget may contain arbitrary HTML which potentially may make your Jira system vulnerable to XSS attacks.</li> <li>To enable the gadget: <ol> <li>Go to Administration &gt; Manage apps.</li> <li>In the left panel, select Manage apps to view the apps installed on the Jira site.</li> <li>In the dropdown list, select System.</li> <li>Find and select Atlassian Jira - Plugins - Gadgets Plugin.</li> </ol> </li> </ul>
			If you can't enable the gadget, contact Atlassian Support for assistance.
Bamboo g	gadge	ts	
Bamboo Charts			<ul> <li>Shows Bamboo plan statistics in your dashboard. If you want to add the gadget to the dashboard, a Jira admin should con figure the Bamboo plugin on a Jira server. If you have multiple Bamboo servers added in Jira, only one Bamboo Charts gadget will be available per server.</li> <li>When you add the gadget to the Jira dashboard, you may see the following message:</li> <li>The website (container) you have placed this gadget on is unauthorized. Please contact your system administrator to have it approved.</li> <li>To fix this, you should configure the Bamboo site to allow Jira to draw information from it via gadgets on the dashboard.</li> <li>To do this, the Jira admin should first define the Jira site as an OAuth consumer in Bamboo. Then, you should perform a once-off authentication so that the gadget displays correctly.</li> </ul>
Bamboo Plan Summar y Chart			<ul> <li>Shows a graphical summary of a Bamboo build plan.</li> <li>If you want to add the gadget to the dashboard, a Jira admin should con figure the Bamboo plugin on the Jira server. If you have multiple Bamboo servers added in Jira, only one Bamboo Plan Summary Chart gadget will be available per server.</li> <li>When you add the gadget to the Jira dashboard, you may see the following message:</li> <li>The website (container) you have placed this gadget on is unauthorized. Please contact your system administrator to have it approved.</li> <li>To fix this, you should configure the Bamboo site to allow Jira to draw information from it via gadgets on the dashboard.</li> <li>To do this, the Jira admin should first define the Jira site as an OAuth consumer in Bamboo. Then, you should perform a once-off authentication so that the gadget displays correctly.</li> </ul>

Bamboo Plans		0	0	<ul> <li>Shows a list of all plans on a particular Bamboo server and the current status of each plan.</li> <li>If you want to add the gadget to the dashboard, a Jira admin should con figure the Bamboo plugin on the Jira server. If you have multiple Bamboo servers added in Jira, only one Bamboo Plans gadget will be available per server.</li> <li>When you add the gadget to the Jira dashboard, you may see the following message:</li> <li>The website (container) you have placed this gadget on is unauthorized. Please contact your system administrator to have it</li> </ul>
				<ul> <li>approved.</li> <li>To fix this, you should configure the Bamboo site to allow Jira to draw information from it via gadgets on the dashboard.</li> <li>To do this, the Jira admin should first define the Jira site as an OAuth consumer in Bamboo. Then, you should perform a once-off authentication so that the gadget displays correctly.</li> </ul>
Clover Coverage	•	0	0	Shows the clover coverage of plans from a particular Bamboo server. If you want to add the gadget to the dashboard, a Jira admin should con figure the Bamboo plugin on the Jira server. If you have multiple Bamboo servers added in Jira, only one Clover Coverage gadget will be available per server.
				<ul> <li>When you add the gadget to the Jira dashboard, you may see the following message:</li> <li>The website (container) you have placed this gadget on is unauthorized. Please contact your system administrator to have it approved.</li> </ul>
				To fix this, you should configure the Bamboo site to allow Jira to draw information from it via gadgets on the dashboard. To do this, the Jira admin should first define the Jira site as an OAuth consumer in Bamboo. Then, you should perform a once-off authentication so that the gadget displays correctly.
FishEye g	adget	S		
Crucible Charts	⊘	0	•	Shows statistical summaries of your code reviews. If you want to add the Crucible Charts gadget to your dashboard, a Jira admin should configure the FishEye app on your Jira server.
FishEye Charts	•	0	0	<ul> <li>Shows Lines of Code data from a FishEye repository. If you want to add the FishEye Charts gadget to the dashboard, make sure that:</li> <li>1. The FishEye app is bundled with Jira Software and a working FishEye instance is linked to the Jira instance.</li> <li>2. A link to the code repository is available. Only three types of repositories are applicable: subversion, perforce, or cvs. Contact the Jira admin about these steps.</li> </ul>

FishEye Recent Changes ets	•	0	0	Shows two charts about your repository in one: Lines of Code and commit activity. If you want to add the FishEye Recent Changesets gadget to the dashboard, make sure that:
				1. The FishEye app is bundled with Jira Software and a working FishEye instance is linked to the Jira instance.
				2. A link to the code repository is available. Only three types of repositories are applicable: subversion, perforce, or cvs.
				Contact the Jira admin about these steps.

# Using the help center

Your service project comes with an online help center for your customers.

From the help center, customers can browse all the service project portals they have access to. They can do a lot of other things too like:

- View available service projects, and filter them by popularity or alphabetical order.
- Browse a specific service project.
- Search for request types and knowledge base articles.
- See requests they have raised.

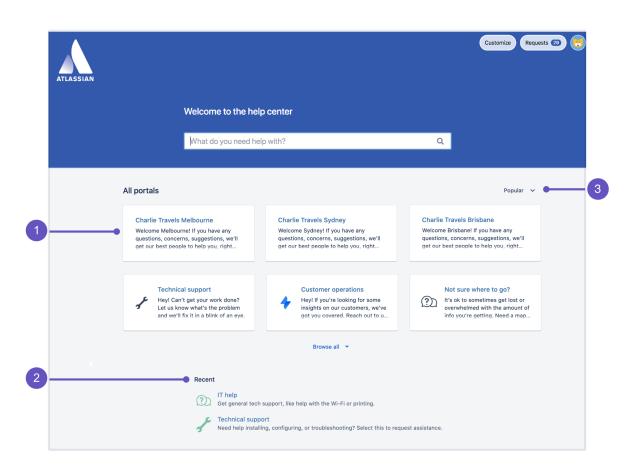
It's good practice to direct your customers to the help center so that they don't have to remember, say, how to submit a request for a new laptop. They simply search for 'new laptop' in the search field and the correct request type will be offered up.

#### On this page:

- Customizing the help center
  - Brand the help center
  - Set up a knowledge base
  - Share the help center with
    - customers
- Manage access to the help center
- How the smart search works
  - What you can do to improve search

### Customizing the help center

Here's a quick look at the help center layout:



1. Portal cards: View all customer portals at a glance and switch between them quickly.

- 2. Recent: View the types of requests that you raised recently.
- 3. Sorting: Sort customer portals by popularity, or the ascending or descending order. The popularity of your portals is based on the number of requests raised.

To help your customers get the most out of your help center, we recommend that you do three things:

- Brand your help center.
- Set up a knowledge base for self-service.
- Share the help center with customers.

#### Brand the help center

Jira admins, project admins, and agents with permissioncan brand the help center in a number of ways. Here's how:

- 1. Go to Jira administration> Applications > Jira Service Management > Configuration.
- 2. BelowHelp center, select the link View and customize.
- 3. In thecustomizepanel on the right hand side do any of the following:
  - Add a help center announcement
  - · Add an announcement to the log in screen
  - Give your help center a name
  - Add a logo
  - Add a banner image or banner background color
  - Change the color of components
- SelectSave changes to publish your announcement.

Requests 30	Add help center announcements
	Announcement subject
	Hours of operation
	Announcement message
	Mon-Fri: 09:00 to 17:00 Sat-Sun: 09:00 to 12:30
	Links [name http://example.com]
	Add login announcement
	Announcement subject
	e.g. login support, signup instructions
	Announcement message
	Links [name http://example.com]
	Customize help center
	Help center name
	Help center
	(Also included in breadcrumbs)
	Front page title
	Welcome to the help center
	Save changes Cancel

Branding doesn't stop at just the help center. You can also brand the customer portal that belongs to a service project. To learn how to do this, check out Configuring the customer portal.

#### Set up a knowledge base

If you have Jira Service Management and Confluence, you can deflect common requests and solve issues faster by setting up a knowledge base. To learn more, check out Set up a knowledge base for self-service.

Customers can read articles in the help center and mark articles as helpful or not. If customers still need to contact your team after reading a knowledge base article, they can select one of the suggested request types or browse all customer portals they have access to.

#### Share the help center with customers

The help center shows all of the customer portals in your Jira Service Management instance. From here, customers can raise requests in any of the portals they have access to. They can also view all the requests they've raised via the **Request** button in the top right hand corner of the screen.

Check out View requests in the help center to learn how this works.

ATLASSIAN				Requests 😨
	Hours of operation Mon-Fri: 09:00 to 17:00 Sat-Sun: 09:00 to 12:30			
	Help center Requests Any status    Cree	sted by me  V Any request type	✓ Bearch for requests	٩
	Type Reference Summary	Service desk	Status Requ	ester
	CTM-1 Printer not working	Charlie Travel Melbour	ne PENDING TRIAGE Kare	n Bywater
	CTB-1 Laptop needs replacing	Charlie Travel Brisbane	PENDING TRIAGE Kare	n Bywater
	CTS-51 New employee set up	Charlie Travel Sydney	PENDING TRIAGE Kare	n Bywater
	(?) CTS-50 Order a keyboard	Charlie Travel Sydney	PENDING TRIAGE Kare	n Bywater
	CTS-49 Flights for conference	Charlie Travel Sydney	WAITING FOR APPROVAL Kare	n Bywater

To share the help center with customers, send them the following link:

http://<computer\_name\_or\_IP\_address>:<http\_port\_number>/jira/servicedesk
/customer/portals

You can also add customers to a service project which gives them an account in the help center.

#### Manage access to the help center

You can choose who can raise requests in your help center and who your customers can share requests with.

To learn more about different access options, check out Managing access to your service project.

The customer portal integrates with Atlassian Crowd, Atlassian's single sign-on (SSO) framework. For information about integrating with third-party SSO providers check out Single sign-on integration with Jira and Confluence.

#### How the smart search works

The smart search algorithm learns from past searches and request types raised, so if a customer has previously raised a hardware request for a laptop and monitor they can search for *laptop* or *monitor* in future to find the same hardware request type. It also performs a similarity search, so if you searched for *Onboard employee*you'd see the *Onboard new employee* request type in the results.

Furthermore, the smart search has been built to be language-agnostic, so can learn from search words or phrases entered in any language. As customers enter more searches and raise more requests, the search algorithm gets smarter regardless of the language used.

#### What you can do to improve search

Your team can help improve search results by updating the request type field when a customer has for example, searched for *new laptop* and raised a software request instead of a hardware request. To learn more, check out Setting up request types.

# View requests in the help center

When a customer raises a request in a service project, they receive a confirmation email and can correspond with the agent via email. Alternatively, if customers have an account they can view all their requests via the help center and customer portals they have access to. Learn more about customer portals

#### On this page

- How to view requests
- How to sort requests
- How to find the help center

### How to view requests

When logged in, you'll see a button in the top right corner that says Requests.

				Requests 29
ATLASSIAN			Approvals	2
	Help center		My requests All requests	27
	Charlie 1	ravel Sydney		
	Welcome! You can raise a Charli	e Travel Sydney request from the options provided.		
	What do you need hel	o with?	Q	
	Common Requests	Flight Testing approvals		
	Logins and Accounts Computers	Get IT help Get assistance for general IT problems and questions.		
	Applications Servers and Infrastructure	Set up VPN to the office Want to access work stuff from outside? Let us know.		
		Request a new account Request a new account for a system.		

Here, a customer can quickly access the following:

- Approvals a request submitted by another person that they are an approveron.
- My requests a request submitted by that person.
- All requests both of the above, as well as a request submitted by another person that theyve been added to as a request participant.

### How to sort requests

From the requests page a customer can filter their requests by the following parameters:

- Request status for example, open or closed.
- Request type for example, software requests or email access.
- Created by for example, created by me or created by someone else, but shared with me.

ATLASSIAN					Requ	ests 30
	Hours of operation Mon-Fri: 09:00 to 17:00 Sat-Sun: 09:00 to 12:30					
	Help center Requests					
	Any status	<ul> <li>Created by me</li> </ul>	<ul> <li>Any request type</li> </ul>	✓ Bearch for request	ts Q	
	Type Reference	Summary	Service desk	Status	Requester	
	⑦) CTM-1	Printer not working	Charlie Travel Melbourne	PENDING TRIAGE	Karen Bywater	
	🖌 СТВ-1	Laptop needs replacing	Charlie Travel Brisbane	PENDING TRIAGE	Karen Bywater	
	(†) стѕ-51	New employee set up	Charlie Travel Sydney	PENDING TRIAGE	Karen Bywater	
	(?) CTS-50	Order a keyboard	Charlie Travel Sydney	PENDING TRIAGE	Karen Bywater	
	🛪 стѕ-49	Flights for conference	Charlie Travel Sydney	WAITING FOR APPROVAL	Karen Bywater	

(i) A request will display on this page only when a customer has created that request, or if they have been added as a participant on someone elses request. Learn more at Adding request participants.

#### How to find the help center

To share the help center with customers, you can link to the following URL:

http://<computer\_name\_or\_IP\_address>:<http\_port\_number>/jira/servicedesk
/customer/portals

You can also add customers to a service project which gives them an account in the help center. Learn more at Adding customers.

# **Configuring request view**

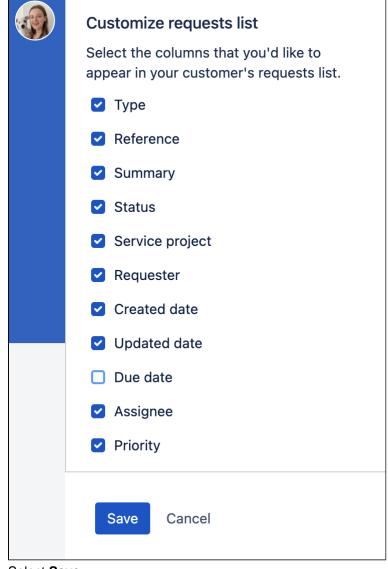
Your customers with accounts can view all their requests in the help center. Its up to you which columns are available to them, though. Selecting specific columns will allow your customers to see and configure those columns in their requests list.

### Customize available columns as an admin



To select columns available to your customers:

- 1. Go to the help center.
- 2. Select Requests > All requests.
- 3. From the top navigation bar select Customize.
- 4. Select the checkboxes next to the columns you want to add or remove.



5. Select Save.

Configure the requests list view as a customer

After you specify which columns are available to your customers, they can configure their requests list view according to their needs. Customers can change:

- · Which columns they want to see in their requests list
- The order of columns
- How columns are sorted

To configure the requests list view, a customer needs to go to the help center, then select **Requests** > **My reque sts**. Selecting the **more actions** menu () will enable them to configure the columns in their requests list and their order.

Jira Service Management				
	Help center			
	Requests   Open requests   Created b	by me  V Any request type	<ul> <li>Search for reque</li> </ul>	ists Q
		nary II 🕑 Status III 🕑 Service project III 🕑 Reques		
	Save Cancel	iary :: 🖬 Status :: 🖬 Service project :: 🖬 Reques	ster :: 🖬 Priority	
	Type Reference Summary	Status	Service project Requ	ester Priority
	C THE REAL PROPERTY AND	a manual second	Harra Dall	- 1.0m
	Annon State - State	-	Harma Dadi	arte 🗧 Birchar
	All Sector And Sector Secto	ar gardi ciure deditore fr	100 000	- 1.00
	<ul> <li>JMCC Laarn more decumentation to r more and content</li> </ul>	tor per available, that and follow	Harra Dadi	- 1.0m

To sort a column, the costumer needs to select the column title.

Open requests	<ul> <li>✓ Create</li> </ul>	d by anyone	~	Any request type	~	Search for requ	ests Q
							•••
Type Reference Status	Summa	ry Service project	1	Requester 🄄 Created date 🕆	Updated date 🗘	Due Assignee 🌣	Priority 🗘

You can sort the following columns:

Column name	Sorting type			
Reference	<ul> <li>Sorted A &gt; Z</li> </ul>			
(i) Also known as Issue key.	<ul> <li>Sorted Z &gt; A</li> </ul>			
Requester	<ul> <li>Sorted A &gt; Z</li> <li>Sorted Z &gt; A</li> </ul>			
Created date	<ul> <li>Sorted oldest &gt; newest</li> <li>Sorted newest &gt; oldest</li> </ul>			
Updated date	<ul> <li>Sorted oldest &gt; newest</li> <li>Sorted newest &gt; oldest</li> </ul>			

Due date	<ul> <li>Sorted oldest &gt; newest</li> <li>Sorted newest &gt; oldest</li> </ul>
Assignee	<ul> <li>Sorted A &gt; Z</li> <li>Sorted Z &gt; A</li> </ul>
Priority	<ul> <li>Sorted in ascending order</li> <li>Sorted in descending order</li> <li>Descending order = highest priority &gt; lowest priority.</li> </ul>

# Organizing work with components

Components are used to organize or group customer requests in a service desk project. You could set up a component for systems that your teams are responsible for (e.g. company intranet), and then set adefault assigneeso that any customer request about that system is assigned to the agent who manages it.

You need to have the project-specificAdminister Projectspermissionor theJ ira Administratorglobal permission to be able to:

- Add create a new component against which issues can be aligned
- Edit change a components details
- Delete remove a component

Once a component has been created for a project, the 'Component' field becomes available for your issues. If you cannot see this field on your issue, your project may not have any components yet, or the field is hidden from view.

# Managing a project's components

The easiest way to manage a project's components is through the Components page.

- 1. Choose Administration (<sup>(C)</sup>)>Projects, and click the name of the project.
- Choose Components in the sidebar. The Components page is displayed, showing a list of components and each component's details. From here, you can manage the project's components as described below.

# Adding a new component

- 1. The Add Component form is located at the top of the 'Components' screen.
- 2. Enter the **Name** for the component. Optionally, enter a **Description** and select a **Component Lead** and **D** efault Assignee (see options below).
- 3. Click Add.

# Selecting a default assignee

You can optionally set a default assignee for a component. This will override the project's default assignee for issues in that component. If an issue has multiple components, and the default assignees of components clash, the assignee will be set to the default assignee of the component that is first alphabetically.

Default assignee option	Description	Notes
Project Default	Issues matching this component will have the assignee set to the same default assignee as the parent project.	
Project Lead	The assignee will be set to the project leader.	If the project leader is not permitted to be assigned to issues in the permission scheme, this option will be disabled and will say "Project Lead is not allowed to be assigned issues".

### On this page:

- Managing a project's components
- Adding a new component
- Selecting a default assignee
- Editing a
- component's detailsDeleting a
- component

Componen t Lead	The assignee will be set to the component leader.	If the component leader is not permitted to be assigned to issues in the permission scheme, this option will be disabled and will say "Component Lead is not allowed to be assigned issues". The Component Lead option will also not be available if the component does not have a lead assigned to the component. Instead, under this option, it will say "Component does not have a lead".
Unassigned	The assignee of the issue will not be set on the creation of this issue.	This option will only be available if "Allow unassigned issues" is enabled in the general configuration.

# Editing a component's details

- 1. On the 'Components' screen, open the menu in the **Actions** column for the component you want to edit, and select**Edit**.
- 2. Edit the component's Name, Description, Lead, and Default Assignee in the Edit component dialog.
- 3. Click the **Save**button to save your changes.

# Searching for a component

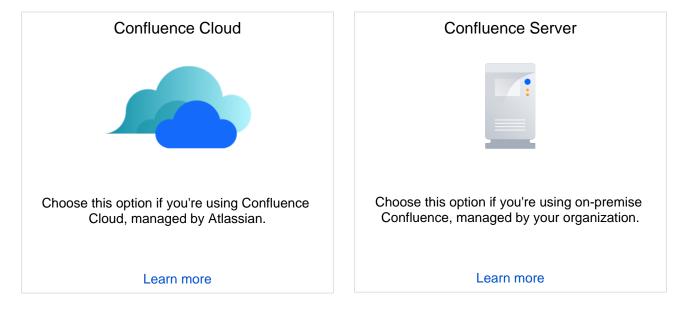
If you need to find a component in a long list, it's easiest to search for it. Start typing text into the search box that you know the component contains, and your list will automatically be filtered for you.

# Deleting a component

- 1. On the 'Components' screen,open the menu in the **Actions** column for the component you want to delete, and select **Delete**.
- 2. You will be prompted to associate any issues assigned to this component with another component if you wish.
- 3. Click the **Delete** button to delete the component.

# Set up a knowledge base for self-service

Linking Jira Service Management to Confluence and using it as a knowledge base lets your agents share their expertise through knowledge base articles and how-tos. They can be linked from requests, searched in Confluence, or shared via direct links. Customers can then help themselves by finding the right solutions, and new agents can quickly get up to speed with the most common problems.



# Set up a knowledge base with Confluence Server

Follow this step by step guide for linking Jira Service Management to a Confluence knowledge base, so that customers can help themselves and agents can share their expertise.

- 1. Install Confluence
- 2. Get the right number of Confluence licenses
- 3. Link Jira Service Management to Confluence
- 4. Learn about knowledge base settings and permissions
- 5. Link your project to a Confluence space
- 6. Write and search for knowledge base articles
- Known issues

1.Install Confluence

User: JIRA ADMINS

You'll need **Confluence 5.10 and above** and **Jira Service Management 3.1 (formerly known as Jira Service Desk) and above** to access knowledge base features. Get the latest versions of each for all the bells and whistles.

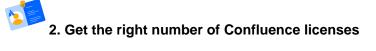
#### Steps

- 1. Install the latest version of Confluence.
- 2. Have the same user base in both Jira and Confluence by one of the following methods:
  - Connect to Crowd or Jira for user management
  - Connect to an internal Directory with authentication
  - Connect to an directory
- 3. Check that you're an administrator in both Jira and Confluence.

### Good to know

• Read Use Jira applications and Confluence together to check version compatibility between products.

Having the same user base in both Jira and Confluence means you won't have to manually create and maintain customer accounts.

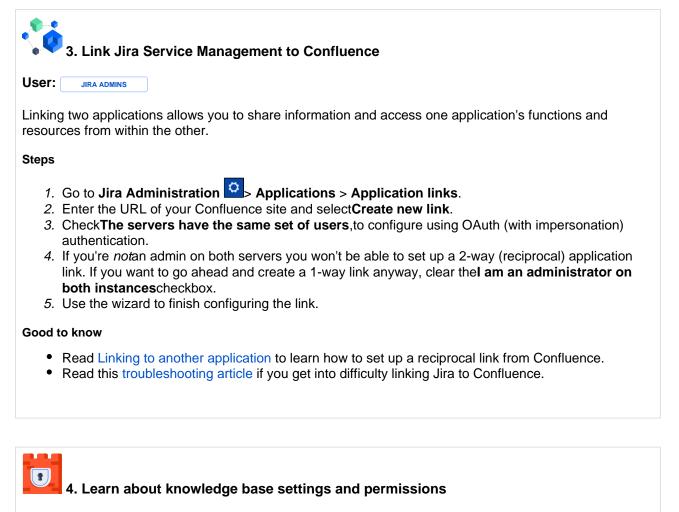


User: JIRA ADMINS

Your **service project agents will need a Confluence license** to create and edit knowledge base articles. However, service project customers won't need a Confluence license to view articles.

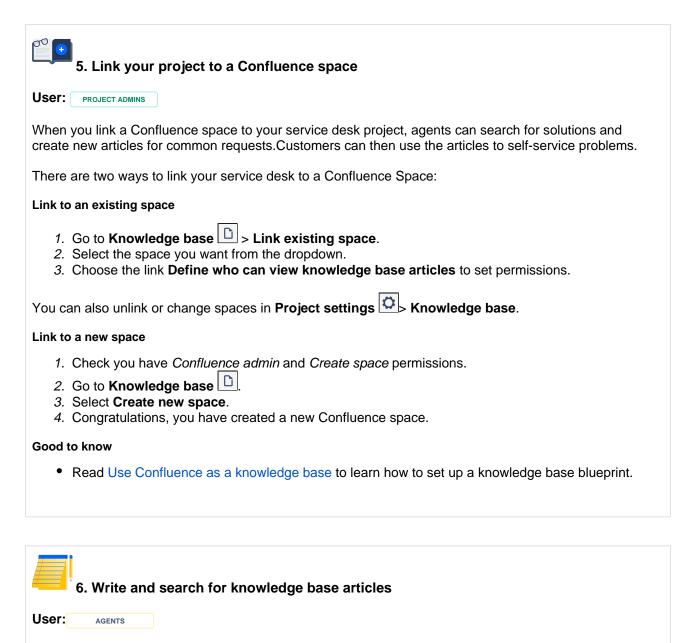
### Good to know

• Read Confluence licensing and pricing to learn more.



The permissions you set in Confluence determine whether (or not) your agents can create articles and if your customers can view them.

Read Knowledge base settings and permissions to decide what you need.



Once you've linked to a Confluence space, agents are ready to start writing and sharing knowledge with customers and teammates.

Read Write and search for knowledge base articles to learn how to do this.



If you run into problems connecting a Confluence knowledge base and Jira Service Management, check out this page. It lists common integration-related issues and explains how to troubleshoot them.

# Knowledge base settings and permissions

Now that you've linked your Jira Service Management project to a Confluence space, you'll need to set your agents and customers up with the right permissions.

### On this page:

- Who needs a Confluence license
- Choose who can view articles
- Check if agents can create articles

# Who needs a Confluence license

If you want your service project agents to create, comment on, and search the spaces on your Confluence site, they'll need a Confluence license. Your service project customers however, don't need a Confluence license to view knowledge base articles.

There are three levels of permissions in Confluence that determine who can view and create articles:

- Global permissions are site-wide and can be assigned by a system or Confluence admin.
- Space permissions are space specific and are managed by the space admin.
- Page restrictions affect both viewing and editing and are managed by space admin.

If you, your agents or your customers are having difficulty viewing articles, check the permissions with your Confluence admin.

# Choose who can view articles

Go to **Project settings** > Knowledge base > Access > Viewing.

### Access

Viewing

Define who can view knowledge base articles through the portal and in the linked Confluence space.

O All active users and customers can access the knowledge base without a Confluence license.

Only licensed users who have access to the space

This setting determines who can view articles via the help center or a link your team shares. You have two options to choose from:

### Option 1.All active users and customers

Users who don't have a Confluence license can view knowledge base articles via the customer portal and help center.

Choose this if:

• You want your team to write articles and share them with customers.

Limitations:

• If your Jira Service Management site and Confluence site have separate user bases, you'll need to create a Confluence user account for each service project customer. If you don't want the customer to use a Confluence license, don't assign the Confluence user to a group.

#### **Option 2. Only licensed users**

Users who don't have a Confluence license can't read knowledge base articles unless you allow anonymous access in the knowledge base space.

Choose this if:

• You only want to use your knowledge base for internal articles.

Limitations:

• Anonymous access is not compatible with SSO using 2-legged OAuth.

A Data privacy

If you choose the **All active users and customers setting**, you'll see the following message in the Confluence space permission screen:

Permissions Restricted Pages

### Any active user can view this space

Any active user can view pages in this space, including users who don't have a Confluence license. This was enabled through JIRA Service Desk so people can view knowledge articles when raising a help request. Edit this permission

This permission overrides all existing space permissions. *Any logged in Confluence user* will be able to see the space (regardless of their group membership).

You can disable this permission at any time, but it can only be re-enabled from Jira Service Management.

#### Login process

If you aren't using SSO or something that passes login information between instances, then users will need to log in to Confluence using their *Jira Service Management credentials* to view articles.

### Check if agents can create articles

Your agents will need a Confluence license to create and edit articles, and permission to create articles in the Confluence space.

### To check if an agent can create articles:

- 1. Go to Project settings > Knowledge base > Access > Authoring.
- 2. Select the **space permissions** link, this will take you to your space permission's page.
- 3. Check that the agent (or a group they are a member of) has the Add page permission.

# Set up a knowledge base with Confluence Cloud

Follow this step by step guide for linking Jira Service Management to a Confluence Cloud knowledge base so that customers can help themselves and agents can share their expertise.

# 1. Set up a Confluence Cloud account

Youll need a Confluence Cloud account to create the integration. If you dont have one already, check out this link:

Try Confluence Cloud



Your service project agents will need a Confluence license to create and edit knowledge base articles. However, service project customers wont need a license to view these articles.

#### Good to know

Read Confluence Cloud licensing and pricing to learn more.



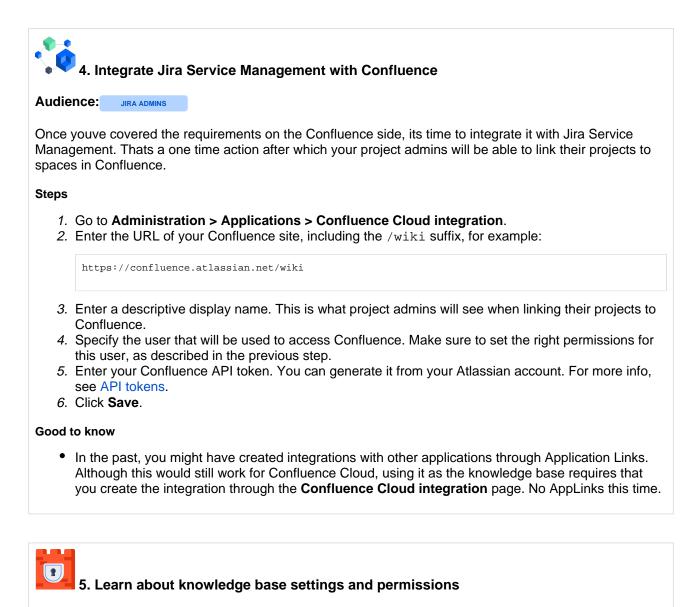
# 3. Create a user with the right permissions to access Confluence

When integrating Jira Service Management with Confluence, youll need to choose a user that will be used to access Confluence. Its important that this users permissions are similar to what youd like customers to have.

### Why are permissions important?

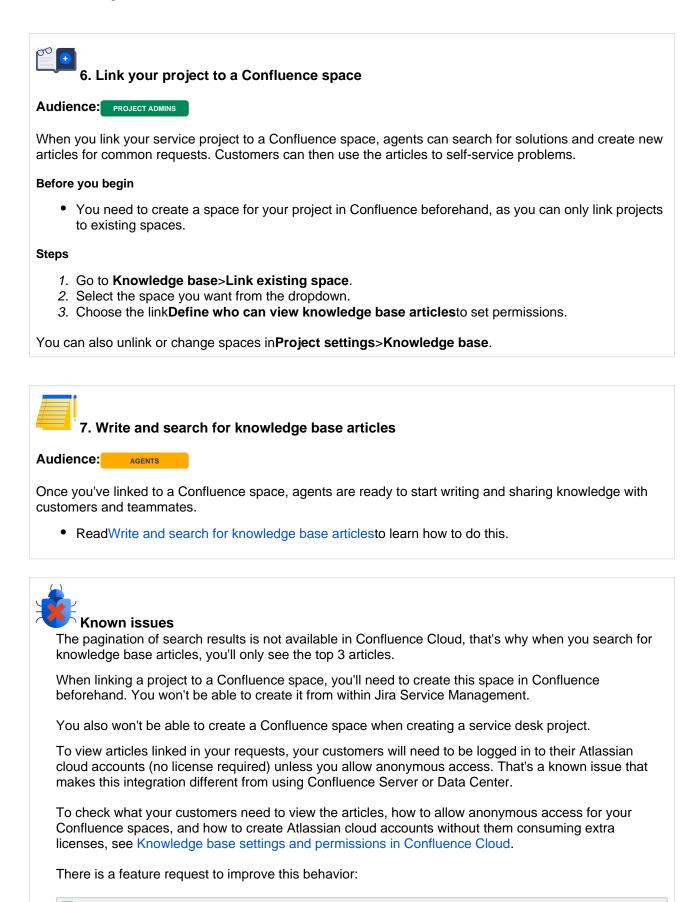
When customers search your knowledge base, they get results based on the permissions of the user youve chosen. If thats an admin or someone with high permissions, customers might see results they shouldnt have access to.

This will include the title and an excerpt of an article (thats whats displayed in the search). If an article is restricted, they wont be able to view it as the articles restrictions are checking permissions of a specific user whos trying to access it. Nevertheless, its easy to reveal more than youd like to, so make sure to set the permissions right.



The permissions you set in Confluence determine whether (or not) your agents can create articles and if your customers can view them.

• ReadKnowledge base settings and permissions in Confluence Cloudto decide what you need.



**JSDSERVER-7175** - Knowledge Base articles can't be opened in the customer portal if Confluence Cloud is not configured with anonymous access **GATHERING INTEREST** 

# Knowledge base settings and permissions in Confluence Cloud

Now that you've linked your Jira Service Desk project to a Confluence Cloud space, you'll need to set your agents and customers up with the right permissions.

Choose who can view articles

First you should decide whether the space linked to your project should be available to all active users and customers (requiring Atlassian cloud account, but not license) or only licensed users, for internal purposes. You can then additionally allow anonymous access for your space.

To configure permissions for your knowledge base:

- 1. Open your project.
- 2. Go to **Project settings > Knowledge base**, and select one of the options.



# Option 1.All active users and customers

Users need to log in to their Atlassian cloud accounts to view articles, but they dont need product access to your Confluence site, and hence dont consume a license. If you dont want users to log in, you can allow anonymous access.

To enable this setting, the user youve chosen when integrating with Confluence Cloud needs admin permissions for your space.

Tasks in Confluence	What your users needs
<ul><li>Create articles</li><li>Comment on articles</li><li>Search the spaces</li></ul>	<ul> <li>Atlassian cloud account</li> <li>Product access to your Confluence site (consuming a license)</li> </ul>
<ul> <li>View articles linked in requests</li> </ul>	<ul> <li>Atlassian cloud account</li> <li>Only site access (not consuming a license)</li> <li>With anonymous access allowed:</li> <li>Nothing</li> </ul>

### **Option 2.Only licensed users**

Users need Atlassian cloud accounts and product access for your Confluence site. Choose this option if youre planning to use your knowledge base for internal purposes and already have licenses assigned to your users. Here you can also enable anonymous access to some Confluence spaces so users dont have to log in to view them.

Tasks in Confluence	What your users needs
<ul><li>Create articles</li><li>Comment on articles</li><li>Search the spaces</li></ul>	<ul> <li>Atlassian cloud account</li> <li>Product access to your Confluence site (consuming a license)</li> </ul>
• View articles linked in requests	<ul> <li>Atlassian cloud account</li> <li>Product access to your Confluence site (consuming a license)</li> <li>With anonymous access allowed:</li> <li>Nothing</li> </ul>

# Configuring anonymous access so customers can view articles without logging in

Even if you give access to your knowledge base to all active users and customers (Option 1 above), they still need to be logged in to their Atlassian cloud accounts to view articles linked in your requests. To avoid creating accounts for your customers and making them log in every time, you can allow anonymous access for your Confluence site and chosen spaces.

A Confluence spaces for which you allow anonymous access will be available to anyone on the web.

### Configure anonymous access

You need to allow anonymous access forboth your site and space:

- To allow it for your site, seeSet up public access. Note that even with anonymous access allowed for the site, your spaces wont be open to public until you specifically allow that.
- To allow it for your space, seeMake a space public.

Creating Atlassian cloud accounts for customers without consuming licenses

If you dont want to enable anonymous access, you can invite your customers to Atlassian cloud so they can log in and view knowledge base articles without consuming licenses. To put it shortly, youll need to make sure their accounts dont have**product access**enabled for Confluence Cloud.

To disable product access for new users:

- 1. Go to your Atlassian cloud sites Adminatadmin.atlassian.com.
- 2. In the sidebar, select**Product access**.
- 3. Clear the New users have access to this productoption next to your Confluence site.
- 4. When inviting new users, make sure that your Confluence site isnt selected in **Product access**, and that users arent added to any groups that have product access (e.g. confluence-users).

To check the product access for existing users:

- 1. Go to your Atlassian cloud sites Adminatadmin.atlassian.com.
- 2. In the sidebar, select**Users**.
- 3. Check the details of your users:
  - *a.* Make sure they dont have access granted for Confluence. They should only have the**Has access on site**option enabled.

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b. Make sure they arent added to any groups that have product access (e.g. confluence-users).

# Write and search for knowledge base articles

Your knowledge base is there for customers, even when you're working on other requests, at home for the day, or away on holiday.

Here are some reasons you might write knowledge base articles:

- You get a lot of similar requests. Like "How do I access office wifi?". When customers search for 'wifi' in the help center, they'll find your article. If they send you a request, you can share the article rather than walking them through the steps in a comment.
- You're upgrading a system. You can write a step by step upgrade guide and link to it from an announcement in the help center.
- You're troubleshooting the same issue with customers. If you normally walk people through a series of steps to diagnose and troubleshoot a problem, such as a broken printer, a troubleshooting guide will save you time.

### On this page:

- How to write articles
- How to share articles
- How the search works
- How to access search help

# How to write articles

After you set up your knowledge base space, the issue view displays a panel called **Related knowledge base articles**:

🖋 Edit	Comment	Assign More -	Resolve this issue	Respond to custom
Details				
Туре:		Service Request	Status:	WAITING FOR
				(View Workflo
Component/s	s: No	one	Resolution:	Unresolved
	No	one		
Labels:				
Description		documents on the file	server and cannot seen	n to be able to conne
Description		documents on the file	server and cannot seen	n to be able to conne
Description		documents on the file	server and cannot seen	n to be able to conne
Description				n to be able to conne
Description			server and cannot seen to attach, or browse.	n to be able to conne
Description I am trying to Attachments		C <sub>↑</sub> Drop files		n to be able to conne
Description I am trying to Attachments Related know	o access some	↔ Drop files	to attach, or browse.	n to be able to conne
Description I am trying to Attachments Related know	o access some	C <sub>↑</sub> Drop files	to attach, or browse.	n to be able to conne

If you don't see a relevant article, you can create a new one from the issue. You'll need the **Add page** permission in the Confluence space. Customers can read any article that doesn't have a red padlock.

								VOIE	es:
Rela	ted kr	owledge base	e articles						
١t	I think that the intranet might be down. What do I					How do I connect to the	e file server?		
Die	dn't find	l a suitable arti	icle? Search	knowledge	base or creat	e an article.	How-To	•	re
Acti	vity						Create Cancel		: .tu
	All	Comments	Work Log	History	Activity				

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#### To create a new article:

- 1. Click the create an article link.
- 2. By default, the issue summary becomes the new article's title, you can edit this.
- 3. Choose either the **How-To** or**Troubleshooting** template.
- 4. Follow the prompts to create the article, then Publish.

= Z Confluence Spaces - People Create	Search by keyword	۹ 🕐	o 🤹	Θ
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Q	2
Knowledge base space / Pages / Knowledge base space 🔓 💊 🚡 DRATT Test wi-fi request			6	+
Describe when someone would need this information. For example "when connecting to wi-fi for the first time" Test				
Step-by-step guide				
Add the steps involved: 1. Insert your steps: 2. You can also copy and paste or drag and drop images into your instructions.				
① Info				
You may also want to use visual panels to communicate related information, tips or things users need to be aware of.				
Related articles           Related articles appear here based on the labels you select. Click to edit the macro and add or change labels.           Content by Label   cql = label = "kb-hom-to-atr				
Page properties   hidden = true				
Related issues # Jira   CTT-42				
	Changes save	d Publish	Close	

5. Check how it displays in the issue view.

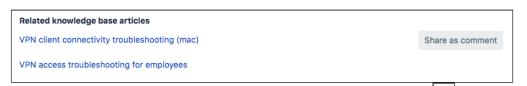
Page labels are essential in knowledge base spaces. These are used to add topics to your articles, and allows your knowledge base to become self-organizing over time.

You can also create articles from the sidebar, then **Knowledge base** > Create article.

# How to share articles

There are two ways you can share articles with customers:

Hover over an article to share itas a comment on a request:



• Share links from a knowledge base article that you access via **Knowledge base** in the sidebar.

When customers click the link from a request or their email, the article opens in the help center:

3

# Teams in Space Help Cen... How to Connect to the WiFi Network from a PC

This guide will help you to understand how to connect your computer to wifi. It's bas procedure is very similar in other versions of Windows and in Mac OS X.

# Follow these step-by-step instructions to connect to wifi

Step 1: Set up your wireless router - an example of which is on the right - (see How instructions). Most internet providers now supply wireless routers as standard. Whe important to provide appropriate security so that your computer can't be entered by for this should be supplied with the router, but if in doubt, consult an expert.

Step 2: Check that your computer has a built-in wireless adaptor ( see left). Up-to-c one, but most desktop computers don't.

To check whether there's a built-in adaptor, follow these steps:

# How the search works

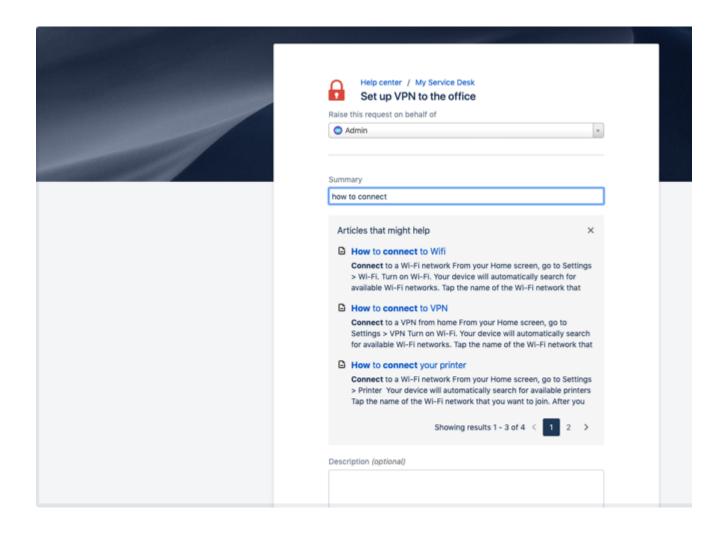
The knowledge base recommends articles to customers and agents using keywords it pulls from the **Summa ry** field of a request.

### Help center and customer portal search results

When a customer types something in the search field on the help center or customer portal, the results return the following:

- Related knowledge base articles. These help customers resolve their own issues, without needing to raise a request.
- Related request types. These are recommended to customers, so they know which request type to fill out based on their issue.

To make it even easier for customers to find what they need, you can recommend articles when they fill out a particular request type.



#### **Recommending articles**

To recommend articles for certain request types, go to **Project settings**> **Knowledge base** > **Auto-search on request types**, then in the**Search KB** column, choose **Yes**:

Auto-search on request forms	6	
Knowledge base articles can be au automatic search can be restricted		ented to customers as they fill in a request form. This
Request form	Search KB	Restrict to articles with labels
Technical support	Yes	Technical_support

You can restrict the search to articles with a certain label. To make life easier for yourself, use a label similar to the name of the request form.

You can't use labels as a way of restricting access to an article. For example, if you create a knowledge base article and add the label "display", and then create another article and don't add the label "display" the page without the label will still display in the search. Adding labels are a way to filter related articles, not assign viewing permissions.

If you need to restrict an article so that only certain users can view it, do this through knowledge base settings and permissions.

#### Using multiple knowledge bases

If you have multiple knowledge bases (Confluence instances) connected to your Jira Service Management instance and are searching through the Help Center, only articles from the primary knowledge base will be returned. This is a known issue related to the Help Center, you can follow a feature request here. Articles from remaining knowledge bases will be returned when searching on individual customer portals.

You can set any Confluence instance as the primary one by going to **Administration > Applications > Application links**.

### Other important information

- Knowledge base vs. request type search: The knowledge base search and the request type search are independent of each other.
  - Request type search: The request type search will display a maximum of 5 results, and:
    - The primary searchpicks up words that the customer is typing in the **Summary** field, and looks for them in the request type's **Name** and **Description**.
    - The secondary search uses JQL queries to find relevant request types based on the request's **S ummary** field.

### Issue view search results

When agents view a request, the knowledge base recommends related articles that they can reference or share with customers. Your service project will search the Confluence space you have linked for any articles that contain keywords in the request's **Summary** field.

Important things to note:

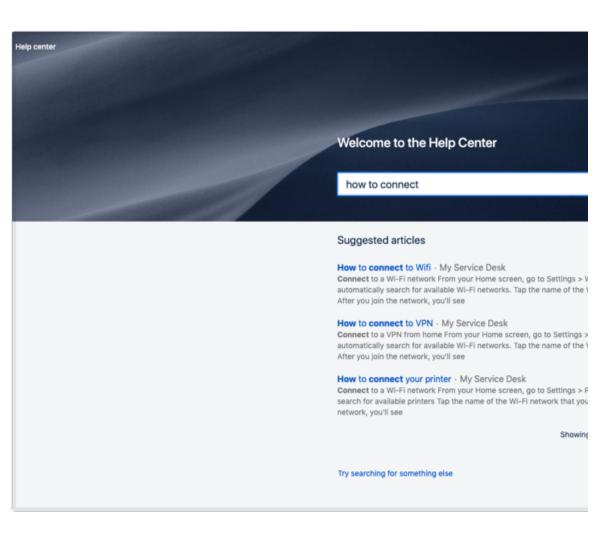
- The search ignores all other fields from the request (only the summary field is used).
- Check that your request types have a visible **Summary** field. Read Setting up request types.
- The search skips articles that the agent doesn't have permission to view.
- The search and ranking follows the same rules as the Confluence search. In short, Confluence identifies all articles that contain keywords matching those in the request's **Summary** field, and sorts them by word frequency.
- Agents can only share articles that the customer has permission to see.

Change the article title to include more keywords from the request summary field, if you dont see an article that you think you should.

Agents can also search for articles via the Knowledge base in the project sidebar.

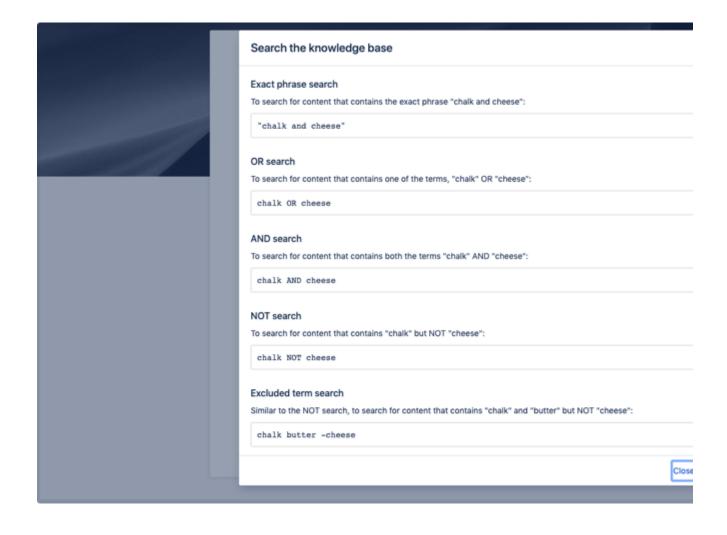
### How to access search help

When you link a Confluence knowledge base to your service project, a **Search help** link appears below the search field.



When you click on this link, you're shown a screen that explains how to create an advanced search query using Confluence search syntax (including wildcards) for more precise knowledge base search queries.

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Check out Confluence Search Syntax for an overview of this function.

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# Setting up incident management

You can set up incident management to allow your agents to view and manage Opsgenie incidents within their Jira Service Management projects. This allows them to quickly respond to disruptions, get up to speed with whats going on, create incidents and provide more context for the Opsgenie teams to resolve them.

# 1. Set up your Opsgenie account

Major incidents are stored and managed in Opsgenie, an Atlassian application used for alerts. Youll need an Opsgenie account to integrate it with Jira Service Management. If you dont have one already, check out this link:

• Try Opsgenie



Integrating Jira Service Management with Opsgenie is a one-time action that will let the two applications exchange information between one another. Once thats done, every project admin can enable incident management for each project separately.

### Before you begin

• Youll need the Opsgenie API URL and API key to create the integration. CheckGetting Opsgenie API information learn how to find them.

### Steps

- 1. Go to Administration > Applications > Opsgenie integration.
- 2. Enter your Opsgenie API URL and API key.
- 3. SelectSave. Your integration is now enabled.

3. Enable incident management for your projects

User: PROJECT ADMIN

If youd like to use incident management in your project, you can enable it in project settings. This will give agents working on a project access to ongoing major incidents, and some special permissions like linking incident to requests.

- 1. Go to Projects settings > Incident management.
- 2. Allow agents to view, link, and manage major incidents within this project.

# 4. Work with ongoing major incidents

User: AGENT

Enabling incident management brings a new screen to your Jira Service Management where you can view ongoing major incidents to be up to date with any disruptions, and link them to requests to help your Opsgenie teams resolve them faster.

Search Incident Q Search messages All inc	sidents Open Past				
A bear of the stages					
P Key Message	Opsgenie service/s	Responders	Status	Linked	Created
P2 #52 Space shuttle won't sta	rt third service	Second team	OPEN	1 request	19/Jul/20 11:47 PM
P3 #51 Problem with rocket thr	usters	Confluence Team	OPEN	5 requests	17/Jul/20 5:45 AM
P3 #50 Someone stole the Moc	n second service	Test Team	OPEN	5 requests	16/Jul/20 3:11 AM
P3 #49 Robot overboard!	second service	Test Team	OPEN	3 requests	16/Jul/20 3:07 AM
P2 #48 Wormhole is down	Trading Service	Athena	OPEN	0 requests	16/Jul/20 1:49 AM
P4 #47 Where's my ship	Translations Service	Translations Team	OPEN	3 requests	16/Jul/20 12:38 AM
P3 #46 Refunds system is down	n Translations Service	Translations Team	OPEN	0 requests	15/Jul/20 1:28 AM
P3 #45 Oxygen depletion		Jira Team	OPEN	3 requests	15/Jul/20 1:25 AM
P3 #44 Mars office is dusty	Confluence Service	Confluence Team	OPEN	3 requests	15/Jul/20 1:19 AM
P1 #43 Incident Management h	as problems Sample Service	Test Team	OPEN	5 requests	14/Jul/20 12:30 AM
P5 #42 Aliens are attacking!			OPEN	0 requests	11/Jul/20 8:07 AM
P1 #41 All your base are belong	g to us Refunds Service	Billing Team	OPEN	1 request	09/Jul/20 4:40 AM

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# **Getting Opsgenie API information**

When integrating Jira Service Management or Jira Software cloud with Opsgenie, youll need to provide the Opsgenie API URL and key.

# **Opsgenie API URL**

Opsgenie can have two different API URLs, and the one you need depends on where your Opgenie instance is located.

US

• https://api.opsgenie.com

EU

• <u>https://api.eu.opsgenie.com</u>

# Opsgenie API key

To generate an Opsgenie API key:

- 1. In Opsgenie, go to Settings > API key management.
- 2. SelectAdd new API key.
- 3. Enter a name for the API key and select the following access rights for this API key:
  - Create and Update Access
  - Read Access
  - Delete Access
  - Configuration Access

For more info, seeAPI key management.

# Working with major incidents

Once you set up incident management, youll get access to a new pageMajor incidents. It shows ongoing major incidents from Opsgenie, and allows your agents to view them, stay up to date, and link requests to these incidents, just to give the Opsgenie teams more context.

# Viewing major incidents

To view major incidents, select Major incidents in the left navigation bar.

	-		najor incidents nowing these major disruptions (incidents) ri Incident status	ight now.				
-	Q Sear	ch m		Past				
<u>L.08</u>				•	•			
÷		ey 52	Message Space shuttle won't start	Opsgenie service/s	Responders Second team	Status	Linked 1 request	Created 19/Jul/20 11:47 PM
0	_	51	Problem with rocket thrusters		Confluence Team	OPEN	5 requests	17/Jul/20 5:45 AM
Ļ.	_	50	Someone stole the Moon	second service	Test Team	OPEN	5 requests	16/Jul/20 3:11 AM
-	_							
	_	49	Robot overboard!	second service	Test Team	OPEN	3 requests	16/Jul/20 3:07 AM
	_	48	Wormhole is down	Trading Service	Athena	OPEN	0 requests	16/Jul/20 1:49 AM
	- 14 #	47	Where's my ship	Translations Service	Translations Team	OPEN	3 requests	16/Jul/20 12:38 AM
	<b>P3</b> #	46	Refunds system is down	Translations Service	Translations Team	OPEN	0 requests	15/Jul/20 1:28 AM
	P3 #	45	Oxygen depletion		Jira Team	OPEN	3 requests	15/Jul/20 1:25 AM
	<mark>P3</mark> #	44	Mars office is dusty	Confluence Service	Confluence Team	OPEN	3 requests	15/Jul/20 1:19 AM
	P1 #	43	Incident Management has problems	Sample Service	Test Team	OPEN	5 requests	14/Jul/20 12:30 AM
	P5 #	42	Aliens are attacking!			OPEN	0 requests	11/Jul/20 8:07 AM
	P1 #	41	All your base are belong to us	Refunds Service	Billing Team	OPEN	1 request :	09/Jul/20 4:40 AM
0 »								

- 1. **Priority, key, and message:**Details about your incident. You can click the incident message to view it in Opsgenie in more detail.
- 2. Affected Opsgenie service: Services are configured on the Opsgenie side and allow you to properly categorize an incident.
- 3. Responders: Thats an Opsgenie team that will be responsible for resolving your incident.
- 4. Linked requests: Requests that are linked to an incident. You can click this link to open a view where you can comment on all linked requests, reassign them, or complete some other actions.

# Creating major incidents

You should create a major incident when you keep getting requests about some service being down, and need someone to take action on resolving it. The incident will be created in Opsgenie (and shown in Jira Service Management), and will alert the right Opsgenie teams right away.

To create a major incident:

1. Open a request and select the plus sign in the Linked major incidents section.



2. Fill in the details of your incident. Well show you ongoing incidents, just in case someone already created a similar incident.

3. When youre ready, click**Create**. The major incident will be linked to your request, and will also appear on the**Major incidents**page.

<ul> <li>Linked major incidents</li> </ul>	ê +
P4 #53 Space shuttle isn't working	⊘ 1 issue OPEN

### Linking requests to major incidents

When you keep getting requests about the same incident, you can link all of them to a major incident. This will help you identify the severity of the problem, and will give the Opsgenie teams more context about an issue. Its also useful for other agents.

### Linking a single request

To link a request to a major incident:

- 1. Open a request and select the Link sign in the Linked major incidents section.
- 2. Search for a major incident or select it from the list.

### Linking multiple requests

You can also link multiple requests to a single major incident at once by using agent queues.

To link multiple requests to a major incident:

- 1. Open your agent queue.
- 2. Select your requests.
- 3. SelectLink to major incident, and choose the incident.

### Linking other related requests

If often happens that a request is linked to other requests (*is blocked by*, *is duplicate*, etc.). When youre linking such a request to a major incident, you can choose whether other linked requests should be linked to this incident as well.

- 1. Open a request that is linked to some other request.
- 2. Link it to a major incident.
- 3. Youll be asked whether you want to link other requests to this incident. Select them, or clickCancel.
- 4. Likewise, when you unlink a request from an incident, well ask you what to do with the related requests.

### Interacting with linked requests

When multiple requests are linked to a major incident, you can easily leave a comment, reassign them, or complete other actions on all of these requests at once, instead of opening them one by one.

- 1. Open the Major incidents page.
- 2. Next to an incident, click the hyperlink in the Linked column.
- 3. Select requests, and choose an action you want to complete.

Х

### **Requests linked to #53**

8 selected	Link to major incident	Link	Comment	e Assig	gn 🔘 Watch 👕 D	elete
CHARLIE-10	There's an old car in the lower orbit		Friendly Robot	Captain Joe	WAITING FOR SUPPO	21/Feb/20
CHARLIE-8	When can we expect travels to Saturn?		Captain Joe	Unassigned	WAITING FOR SUPPO	30/Oct/19
CHARLIE-7	Mayday, I'm lost in space		Master Researcher	Unassigned	WAITING FOR SUPPO	30/Oct/19
CHARLIE-6	Red dust gets everywhere		Master Engineer	Unassigned	WAITING FOR SUPPO	30/Oct/19
CHARLIE-5	Cleaning service in the Mars base		Droid	Unassigned		30/Oct/19
CHARLIE-4	Requesting more flights to Mars		Crazy Scientist	Unassigned	N PROGRESS	30/Oct/19
CHARLIE-3	Engine makes weird noises		Friendly Robot	Unassigned		30/Oct/19
CHARLIE-1	What am I looking at?		Lieutenant Woolf	Unassigned	WAITING FOR SUPPO	30/Oct/19

### Filtering out requests

There are also a few ways that let you find unlinked requests (to check if they need an incident) or requests linked to a specific incident. This can come in handy if you have many requests or incident and cant easily find them on the Major incidents page.

### **Finding unlinked requests**

- 1. Open agent queues.
- 2. In the top-right, change the filter to **Unlinked requests**.

#### Finding requests linked to a specific incident

1. Open an incident in Opsgenie, and copy its ID from the URL. It will look something like this:

```
582f7731-d00f-4827-9a2d-19e380b26205
```

2. In Jira, open the advanced search and use the following JQL query:

```
"Linked major incidents" in ("582f7731-d00f-4827-9a2d-19e380b26205")
```

#### Creating a queue with linked or unlinked incidents

- 1. Go toQueues > New queue.
- 2. Switch to Advanced.
- 3. Use one of the following JQL queries to either find linked or unlinked incidents:

"Linked major incidents" is not EMPTY

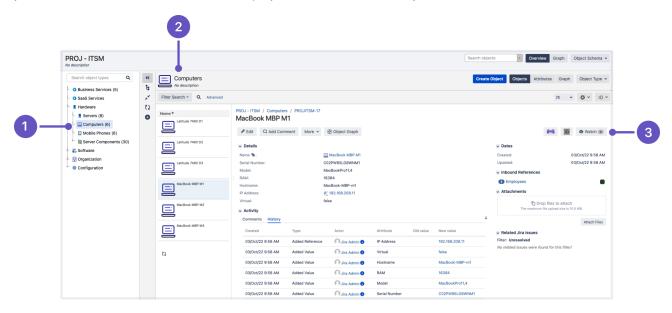
"Linked major incidents" is EMPTY

### More resources

Opsgenie documentation

# Managing your assets with Assets

Assets lets you manage your assets and configuration items in Jira Service Management, and interact with them through requests. Its a database of objects digital representations of your assets, ranging from hardware and software to employees or various configuration items. You can make your objects whatever you need them to be, and have them displayed in and be affected by issues in Jira.



- 1. **Object types:**List of object types grouping your assets, organized into a clear tree structure.
- 2. **Objects:**Your actual assets or configurations items, with all details added through attributes. From simple names to type-specific items, like serial numbers, models, and pretty much anything you need.
- 3. **Object actions:**You can keep your physical assets in check by printing labels and QR codes, view their dependencies with other objects, and see which Jira issues they're on.

### Get started with Assets

Here's list of pages to get you started:

- Getting started with Assets
- Administering Assets
- Working with object schemas
- Working with object types
- Working with objects
- Importing your data
- Searching for objects
- Working with reports

### Advanced usage guides

If you're looking for more advanced knowledge, including Assets app development, REST APIs and Java docs, see Advanced usage guides.

# **Getting started with Assets**

This page will explain the basics of Assets, and it's then up to you how much deeper you'd like to dive in.

# What is Assets?

Assets is used for asset and configuration management. Its like a database that stores everything you own from hardware and software to offices, keyboards and licenses, Assets can store whatever you need it to store. Its really up to you, though were guessing the most popular items will be something like:

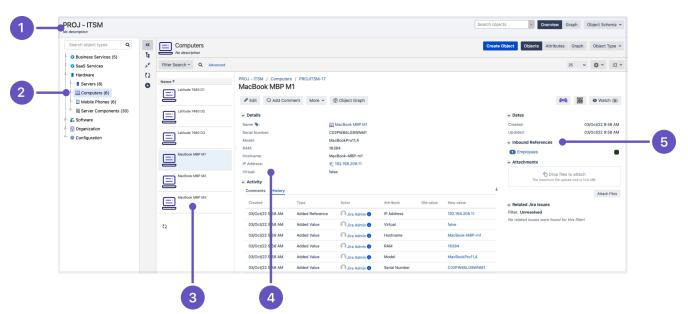
- Business services (billing, email, payroll)
- Hardware and software (servers, computers, mobile phones, software licenses)
- Employees (John, Mary, Mathias)
- Offices (Sydney, Melbourne, Stockholm)
- Server components(RAM, network adapters, hard drives)

### But isnt Jira all about issues? Why assets?

Assets is more than just a Jira app. To be frank, under the hood, it's a perfectly complete and powerful product that brings new features and possibilities. But it looks like an app, and we've bundled it into Jira Service Management, so let's treat it as an app for now.As for the issues imagine you create a Jira issue for your laptop you give it a name, maybe some description, and fill in all these custom fields about brand, model, serial number, RAM, storage, and boom you have an asset. Do you see the similarity?

### So are my assets issues?

They look similar, but theyre not your typical issues. Assets has its ownstructure for data that you put into it. Understanding this structure will help you in the future, but if you want a quick start, its really about object schemas, object types, and objects, together with their attributes and relations between them.



Heres what it looks like in Assets:

- 1. Object schema: It works like a map that holds all of it together. In the Jira world, that would be a project.
- 2. **Object types:**Containers for your objects (assets), each with its own characteristics, like specific issue types (Computers, Mobile phones).
- 3. **Objects:**Your actual assets, whatever they are. Similar to Jira issues or requests. Put them into object types, and get going (MacBook MBP M1, Latitude 7480).
- 4. **Attributes:**What defines your object types (objects inherit them). Like fields or custom fields (Name, RAM, Storage).
- 5. **References:**Relations and dependencies between objects. If you own a laptop, you have a reference to it (you own it). Like issue links, though they serve a different purpose.

The best way to start quickly is to use the starting from scratch tutorial. It will show you the basics, essentially taking you from zero to hero. If you don't have time and want to see a ready object schema, take the ITSM tutorial.

# License

Assets is part of Jira Service Management Data Center 4.15 and later, but you can also download it at no extra cost for earlier versions of Jira Service Management Data Center, and also for Jira Software Data Center. If youre on one of these earlier versions, its best to see our FAQ for answers to any questions you might have.

# Learn more about Assets

If youre curious to learn more, here are some pages for you:

- What is Assets? an overview of the most important concepts and features: object schemas, object types, and objects.
- Assets onboarding guide if you'd rather get a one-pager with everything that matters. We'll guide you through the basic concepts, tell you how to start, and give some tips and tricks on what data to include and how to keep it accurate in the future. That's exactly what you need if you've never used Assets before.

To get some practice, see these tutorials:

- Tutorial: Starting from scratch
- Tutorial: How Jira issues affect Assets objects (ITSM)

# Start working with Assets

If youd rather get working with Assets right away, here are the pages youll need:

- Administering Assets
- Working with object schemas
- Working with object types
- Working with objects
- Searching for objects
- Working with reports
- Importing your data

# Advanced usage guides

If you're looking for advanced knowledge, including Assets app development, REST APIs and Java docs, seeAd vanced usage guides.

# What is Assets?

You can jump right into Assets, but understanding what it's made of and how it's treating your data will make your future work easier. Here you'll find the most important concepts and information about useful features.

### Jump to ...

- Understanding your data in Assets
- Interacting with objects through requests
- Importing your data
- Reporting
- Searching and IQL

# Understanding your data in Assets

To understand how your data is structured in Assets, you'll need to learn about its main building blocks.

### **Object schemas**

An object schema is a collection of object types (groups of objects) and their attributes (fields), as well as underlying objects and references between them. It also includes your configuration items, such as roles, icons, statuses, and automation rules. Object schemas work like maps that hold all of it together, and are the first thing you'll create in Assets. In the Jira world, object schemas would be your projects, but you're not limited to one schema per project.

ITS - ITSM No description		Search objects	<ul> <li>Overview</li> </ul>	Graph	Object Schema 🖌
Search object types <b>Q</b>	<ul> <li>₩</li> <li>¥</li> <li>×</li> <li>52</li> <li>5</li> </ul>	Empty Object Schem Create an object type to start addi Create Object Type			

An empty object schema, without any object types or objects. A fresh start.

Learn more atWorking with object schemas.

# **Object types**

Once you have your schema ready, you'll create a set of object types that will group objects your actual assets. Rather than a single PC, your object types would be Computers, Hardware, Software, Employees, and so on. Object types can be whatever you want them to be as Assets is very open and flexible. In the Jira world, object types would be your issue types configuration (characteristics of bugs, incidents, problems).

An object schema with object types, but without objects yet



Learn more atWorking with object types.

### Attributes

Attributes is what defines your object types (and underlying objects that use these attributes). They work like fields to which you add data. You'd choose attributes for your object types, and then the same attributes need to be filled in for underlying objects, whenever someone creates them. They come in different shapes and sizes: text, dates, references to other objects, and so on. In the Jira world, attributes would be issue fields or custom fields.

#### Attributes defined for an object type Computers

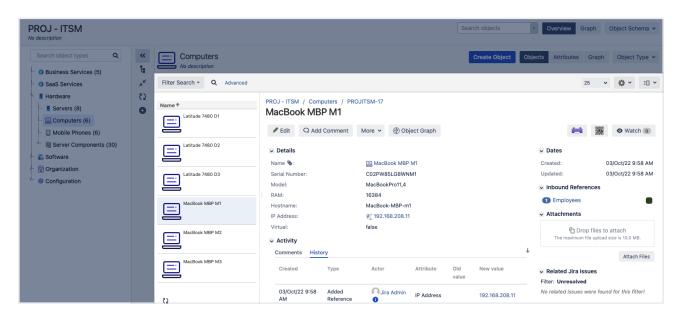
Search object types Q	~	E	Com				Create	o Object	bjects Attrib	utes Graph	Object Typ
Business Services	ů.		No des	cription							
SaaS Services	7 <sup>6</sup>		Id		Name	Description	Туре	Type Va	lue	Additional Valu	e
Hardware	C2		295	9	Key		Default	Text			
Servers	0		296	•	Name	The name of the object	Default	Text			۵.
Computers			297		Created		Default	DateTim	e		
Mobile Phones			298		Updated		Default	DateTim	e		
Software			366		Serial Number		Default	Text			\$.
Grganization			367		Model		Default	Text			¢.
Configuration		2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.1 2.2.	368	8	RAM		Default	Text			<u>م</u>
			369	8	Hostname		Default	Text			<u>ې</u>
			370		IP Address		Object	鑬 IP Ad	ddress	IP Address	¢.
			371	8	Virtual		Default	Text			<u>ې</u>
							Default	✓ Text	~		Add

#### Learn more atAdding attributes.

### Objects

Objects are your actual assets. Every object is a digital representation of anything that you're mapping in Assets, be it a specific computer, employee, office they work at, or even a license for your software. You can create as many objects as you like, and group them within object types that represent their characteristics. In the Jira world, objects would be your issues or requests, and just like you wouldn't mix epics with bugs, you shouldn't put employees into hardware.

Object schema with objects and their details defined through attributes



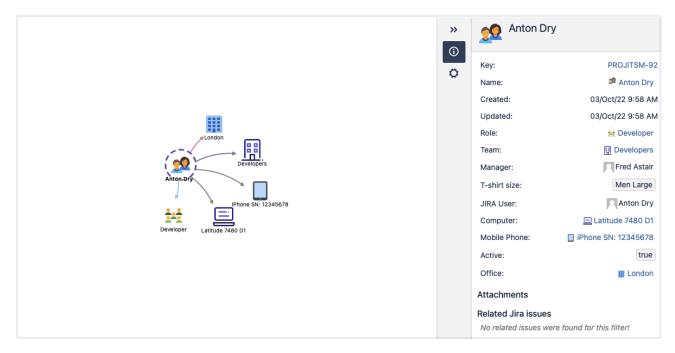
3

Learn more atWorking with objects.

#### References

References are types of attributes that let you create references to other objects. Information about a specific object can be useful, but viewing its relations and dependencies is even better. If you look at references of an employee, you know right away the office they work at, hardware they're using, role they belong to, or mobile phone they've been assigned. You can view them in the graphical viewer that lets you see all of it at a glance. In the Jira world, references would be issue links (blockers, duplicates), but they serve a bit different purpose in Assets.

### An employee with references to other object types and objects



Learn more atViewing references.

While we're at references, you can have two types:

### **Outbound references (outgoing)**

Outbound references are attributes within an object that point to another object. For example, a Host object might have references to other important parts of its system, such as operating system, CPU, network interface, or scanning information.

Computers No description		Create Object	Objects         Attributes         Graph         Object Type ~
Filter Search - Q Advanced			25 🗸 🎇 🖌 🗉 🖌
Name +	PROJ - ITSM / Computers / PR	OJITSM-111	
	Edit Q Add Comment	More 👻 🛞 Object Graph	😝 📓 💿 Watch 💿
Latitude 7480 D1	✓ Details		✓ Dates
	Name 🐚:	Actarus	Created: 04/Oct/22 9:33 AM
Latitude 7480 D2	Virtual:	false	Updated: 04/Oct/22 9:34 AM
	Serial Number:	2152ADFB-7C34D1	<ul> <li>Inbound References</li> </ul>
	Model:	Latitude 7480	No referenced object/s found
Latitude 7480 D3	RAM:	8192	
	Hostname:	Dell-lat7480-d1	✓ Attachments
MacBook MBP M1	IP Address:	<b>€</b> 192.168.208.15	Drop files to attach
	Operating System:	69 Microsoft Windows 10 Pro	The maximum file upload size is 10.0 MB.
	CPU:	🏢 Virtual CPU 🟢 Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz	
MacBook MBP M2	<ul> <li>Activity</li> </ul>		Attach Files
	Comments History		↓ V Related Jira issues
			Filter: Unresolved

#### Inbound references (incoming)

Inbound references are references that come from other objects. Each outbound reference creates an inbound references on the object it's referencing, which lets you see how different objects are connected across your object schema.

For example, in the image above, you had the host Acturus referencing a number of CPUs, including one called *Intel(R)* Core (TM) i7-4700HQ CPU. If you clicked on this CPU reference, you'd see the object itself and a list of its inbound references, including the host Acturus.

Show referenced objects for: Show all references	Search
> 🖻 Actarus	
> 📕 Win 10	
	01
	Close

### Interacting with objects through requests

Having a database of assets is awesome, but there's a reason we've added Assets to Jira Service Management.

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### Showing object details on issues

You can add your objects to Jira issues through Assets custom fields. This could be adding the affected business service to your incident issues or adding a computer to a hardware request. Whatever you do, extra information about affected assets will give everyone involved more context.

r
s
4 442
] aii It: 3-

Learn more atAdding Assets custom fields.

### Affecting your objects

Have you noticed the RUNNING status on the screenshot above? Well, things break. Assets lets you add conditions, validators, and post functions to your workflow transitions so that your issues affect related objects when they transition through the workflow. And what about broken parts that can also be your objects? Decommissioned, for good.

<ul> <li>Details</li> </ul>		
Туре:	Problem	
Status:	WAITING FOR CHA (Vi	ew Workflow)
Priority:	↓ Low	
Resolution:	Unresolved	
Labels:	None 🖍	
Affected Server:	exchange.prod.app1	
	Status	RUNNING
	Environment	Production
	Server Owner	👥 Fred Astair
Affected Server	🗯 Apc Network Manag	ement Card 2
Components:	ID	APC-2-2
	Server	
		exchange.prod.app 1
Affected Business	Email Service	
Service:	Status	RUNNING
	Business Service Owner	👷 Wes Shults
	Service Group Phone	+46 3284 234 442
	Importance	Critical

<ul> <li>Deta</li> </ul>	ils			
Туре		Problem	Status:	
Statu		COMPLETED (View Worl	kflow)	
Prior	ity:	↓ Low	Resolution:	
Reso	lution:	Unresolved		
Labe	ls:	None 🖍		
Affeo	cted Server:	exchange.prod.app1		
		Status	RUNNING	
		Environment	Production	
		Server Owner	👥 Fred Astair	
Affe	cted Server	Management Card 2		
Components:	ponents:	ID	APC-2-2	
		Status	DECOMMISSIONED	
Affected Business		Email Service		
Service:	ice:	Status	RUNNING	
		Business Service Owner	👥 Wes Shults	
		Service Group Phone	+46 3284 234 442	
		Importance	Critical	

Learn more atAdding Assets functions to workflows.

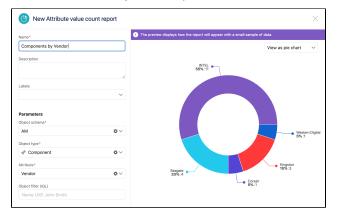
### Importing your data

You're free to handle your objects however you like, but entering everything manually might not be the best idea if you have a lot of assets. To help you get going, we have several tools that will either scan your environment automatically or facilitate your manual imports.

Learn more at Importing your data.

Reporting

You can also use dynamic reports to view information about your object schema in a variety of formats.



Wew Object count report					^
Name*	🕛 The preview di	splays how the report will	l appear with a small sam	ple of data.	
Growth in offices				View as are	a chart 🗸 🗸
Description	28				
	10			_	
Labels					
~	21				
Parameters Object schema*	14			/	
HR OV			/	/	
Object filter (IQL)	7		/		
Name LIKE John Smith					
Period*					
Current week	2019-03-31	2019-04-01	2019-04-02	2019-04-03	2019-04-04
Object types*					
II Office × O V			<ul> <li>Office</li> </ul>		

#### Learn more atWorking with reports.

### Searching and IQL

Searching for and filtering objects in Assets is similar to Jira: you can use basic search (free text) or something that's called Assets Query Language. Although different in use, the idea behind it is similar to the Jira Query Language (JQL). By using IQL and placeholders, you can not only search for objects, but also create advanced queries and decide what objects should be included where.

Learn more at Searching for objects.

## **Tutorial: Starting from scratch**

This tutorial will guide you through the most important aspects of Assets, essentially taking your from zero to hero. Here's what you'll learn:

- Create a basic object schema
- Create object types
- Add attributes to object types
- Create objects for each object type
- Link your object schema to a Jira project
- Add your objects to Jira issues

#### Before you begin

The tutorial takes you through all the basic actions you'll need to know about in Assets. This, however, has some disadvantages:

- You'll be adding custom fields to screens in Jira, which requires admin permissions.
- You'll be creating object types, attributes, and objects manually, which might take some time.

If you don't have sufficient permissions (but can create projects) or want to see a schema pre-filled with data, you can also try the ITSM tutorial that uses sample data to create a nice object type schema.

#### In this tutorial

Here are all the steps you'll follow in this tutorial:

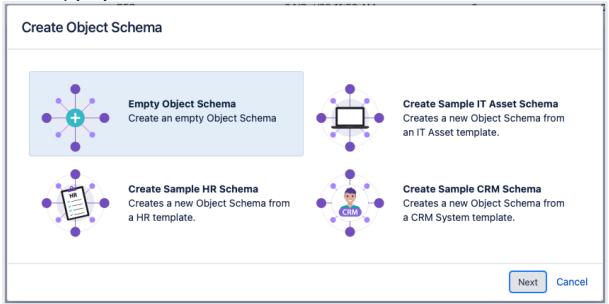
- 1. Build your first object schema
- 2. Create object types
- 3. Add attributes
- 4. Create objects
- 5. View object graphs
- 6. Link your object schema to a Jira project
- 7. Add object to your requests

## 1. Build your first object schema

An object schema is a collection of object types and their attributes, objects, and references between them. It also includes your configuration items, such as roles, icons, statuses, and automation rules. Object schemas work like maps that hold all of it together.

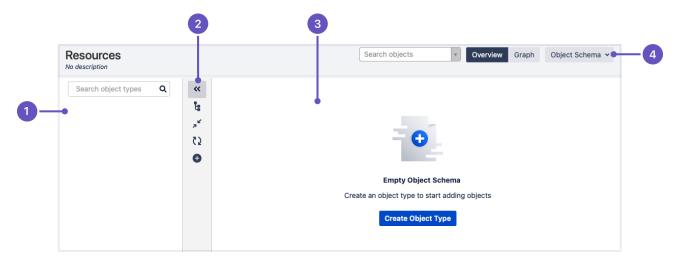
To create a new object schema:

- 1. In the Jira top navigation bar, select Assets > Assets object schemas.
- 2. Select Create an object schema.
- 3. Select Empty object schema, as shown below.



- 4. Give it a name, say "Resources".
- 5. Select Createandvoil! You can now access your object schema under Assets > Object schemas.

Here's some explanation for what you should be seeing on your screen:



- 1. Object types: When you start creating object types, they'll appear here in a tree structure.
- 2. Vertical menu: Some actions for your schema. You can use it to expand or collapse the object type view, or create new object types.
- 3. Create: Here you'll create your first object type.
- 4. Object schema actions: Some configuration and actions for your object schema.

Next up

When you're ready, go to 2. Create object types.

## 2. Create object types

An object type groups objects that use the same kind of information, conveyed through their common attributes. Rather than a single PC, your object types would be Computers, Hardware, Software, Employees, and so on.

### Create your first object type

To create the first object type:

- 1. In your object schema, select Create.
- 2. Call your object type Company assets. You can select an icon for the type and enter a description.
- 3. Set its parent to**None**.We'll make it an individual, stand-alone object type.

Here's what you should see:

Resources				2		5	earch objects	,	3 Overvic w	Graph	Object Schema 🗸
No description Search object types C C C C C C C C C C C C C C C C C C C	λ « Έ		Company No descriptio				Create Obje	ect Obje	cts Attribut	tes Graph	Object Type 🗸
	× 25	1d	21	Name Key	Description		Type Default	Type V Text	alue	Additional	Value
	•	4	22 🏾 🔊 🛢	Name	The name of the object	t	Default	Text			\$ ~
			23 🛢 24 🛢	Created Updated			Default Default	DateTir DateTir			
							Default	✔ Text	~		Add

- 1. Object type: Your first object type, congratulations!
- 2. Attributes: Default attributes (fields) created for your object type. We'll add some more in the next steps.
- 3. **Object type view:** Here you can switch between viewing objects, attributes, and a graph for your selected object type.
- 4. **Object type actions:** Here you can configure your object type, or create a new one.

To create another object type:

- 1. Select the **Object type** dropdown at the top-right, and select **Create**.
- 2. Call your object type Server Type.
- 3. Set its parent to Company Assets. It will be a child object type.
- 4. Select Object Type at the top-right, and again select Create.

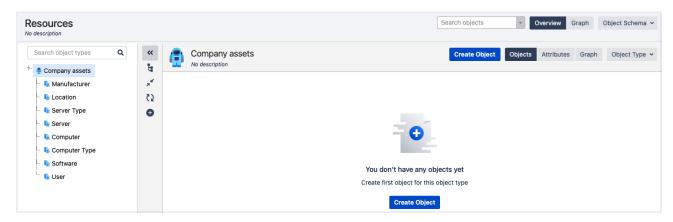
### Create some more

Create more object types, like shown in the image below. Set the parent for all these object types to *Compan y* assets.

Parent object type	Child object types
Company assets	Manufacturer
	Location
	Server Type
	Server
	Computer
	Computer Type
	Software

User

Here's what your schema should look like after creating these object types. Hopefully you've picked better icons than we did:



### Next up

When you're ready, go to 3. Add attributes.

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## 3. Add attributes

Attributes are details that define your object types. You can view all attributes of an object type by selecting **A ttributes** at the top-right. Assets creates a few default attributes when you create an object type.

View attributes for an object type

To view attributes:

- 1. When viewing an object type, switch to **Attributes** at the top-right.
- 2. You'll see the default attributes, and will be able to add new ones by adding them to the list.

Resources							S	earch objects		¥	Overview	Graph	Object Schema
Search object types Q	** 1			npany	assets			Create Obj	ject	Objects	Attribute	s Graph	Object Type
- 📭 Manufacturer	,×		Id		Name	Description		Туре	1	ype Value		Additiona	l Value
- 💺 Location	C 2		421		Key			Default	1	'ext			
- 💺 Server Type	0		422	•	Name	The name of the object		Default	1	'ext			¢ ~
📭 Server			423		Created			Default	0	DateTime			
- 🖣 Computer			424	9	Updated			Default	0	DateTime			
<ul> <li>Lomputer Type</li> <li>Software</li> </ul>		_						Default	~	Text	~		Add
User		_						Object					
- 030i								User					
								Confluence	•				
								Group					
								Version					
								Project					
								Status					

Each attribute needs the following to be defined:

Attribute value	Description
Name	Name of your choice.
Туре	Type of an attribute. Each type does a different thing, but we'll get to that with examples. Just to let you in on some secret, type <i>Object</i> would be responsible for linking to other objects.
Type value	<ul> <li>Value for a type. The options here would depend on the type you've chosen. For example:</li> <li>Default: includes Text, textarea, Date, Email, etc.</li> <li>Object: Other objects or object types (in this tutorial, this would include Location, User, Software, or any other of the object types you already created)</li> </ul>
Additional value	This is some additional information for the attributes, and it also depends on the types you've chosen. For example, if you're configuring an attribute of type <i>Object</i> , in this field you'd specify a specific reference.

Add attributes to your object types

Now, to get a little practice, create attributes for all your object types as shown in the table below.

Object type you have	Attribute name	Туре	Type value	Additional value
-------------------------	-------------------	------	------------	------------------

User	Email Address Phone Number Location	User Default Object	jira-users/any other group Text Location	- - Reference
Software	Manufacturer	Object	Manufacturer	Reference
Manufacturer	Street Address Phone Number	Default Default		-
Server	Warranty Expires Manufacturer System Owner Type Location Installed Software*	Default Object Object Object Object	Date Manufacturer User Server Type Location Software	- Reference Belongs Type Deployed Installed
Computer	Warranty Expires Manufacturer RAM Type Display Size User	Default Object Default Object Default Object	Manufacturer Text Computer Type	- Reference - Type (Enter "Type" to create a new reference type) - Uses

\* Additionally, for the Server > Installed Software attribute, select the cog wheel at the far right and select **Co nfigure**. Under the **Cardinality**tab, select the *Unlimited*checkbox. This allows you to specify more than one software installed on a server.

#### Next up

When you're ready, go to 4. Create objects.

## 4. Create objects

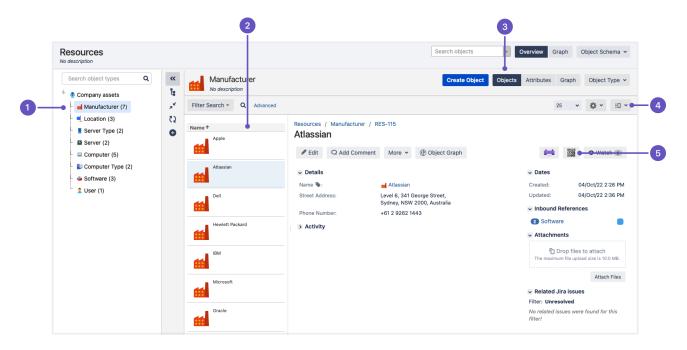
Objects are your actual assets. Every object is a digital representation of anything that you're mapping in Assets, be it a specific computer, employee, office they work at, or even a license for your software.

To create an object:

- 1. Select an object type.
- 2. At the top-right, select **Create object**. You'll need to specify its name and attributes. The required attributes will depend on the object type you've chosen.
- 3. Create objects based on the table below, and try to come up with some sample attributes.

Object type	Objects
Manufacturer	Oracle Atlassian Apple Microsoft Dell IBM Hewlett Packard
Software	JAVA 1.8 Jira Confluence
Server Type	Virtual, Physical
Location	New York Stockholm Madrid
Computer Type	Laptop Desktop
User	[Your Name]
Computer	MacBook Pro (15") MacBook Air (13") ThinkPad (15") Latitude (15") Vostro (13")
Server	Dell PowerEdge VRTX HPE ProLiant DL580 Gen9

And some explanations once you're done creating objects:



- 1. Object count: Now your object types show the number of objects they contain.
- 2. Objects: Objects from the selected object type.
- *3.* **View:** Switch between the different view types.
- 4. Details: Here, you can switch between the detail view and the list view.
- 5. **Printlabel**and **Print QR code**You can print a label or QR code and put it on your physical asset. When you scan the label or code, the asset details will open in Jira.

Next up

When you're ready, go to 5. View object graphs.

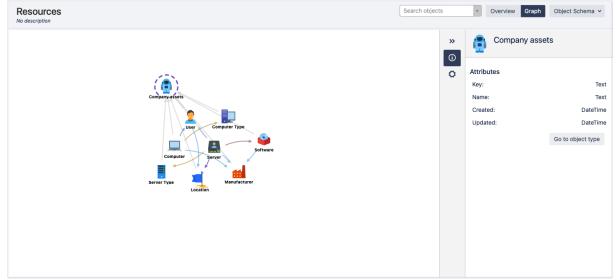
## 5. View object graphs

References are types of attributes that let you create references to other objects. Information about a specific object can be useful, but viewing its relations and dependencies is even better. You can do it by using a graphical viewer.

### Object schema graph

To view a graph for your object schema:

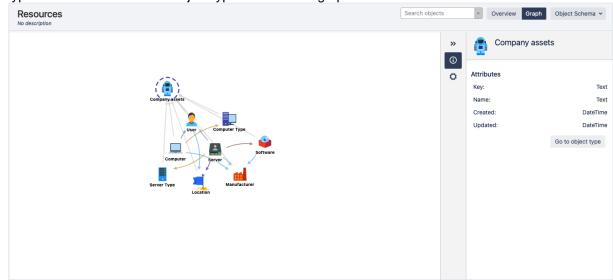
- 1. At the top-right, next to the object schema configuration, select Graph.
- 2. You'll see the object schema graph. It lets you see how all object types are knitted together.



### Object type graph

To view a graph for your object type:

- 1. Select an object type, and select **Graph** next to the object type configuration.
- 2. You'll see the object type graph. It should help you see your object type's relations with other object types. You can select other object types to see their graphs.

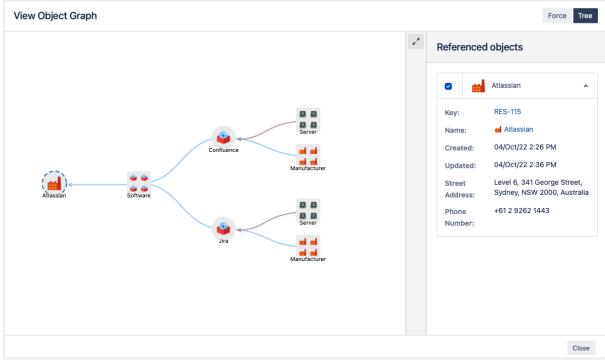


## Object graph

To view a graph for your object:

1. Select an object and select **Object graph**, just below its name in the detail view.

2. You'll see the object graph that shows your object's relations with other objects and object types. Here you can additionally switch to the Tree view.



### Next up

When you're ready, go to 6. Link your object schema to a Jira project.

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## 6. Link your object schema to a Jira project

You can link your object schema to Jira project by adding Assets custom fields to the right screens. These will let you select your objects when creating or editing issues.

### Create a custom field

You'll include objects in your issues by adding a custom field to relevant screens. This custom field will then pull data about your objects (you'll limit the data to only specific objects or object types). In this example, we'll add all objects from the Server object type to the Create Issue screen.

- 1. In Jira, go to Administration > Issues> Custom fields.
- 2. Select Add custom field.
- 3. Select the **Assets object**field.
- 4. Name it "Affected Server", and add it to the Create issue screen for your project. You can add it to other screens, too.

### Configure the custom field

Now, let's limit this custom field to show only a specific object type.

- 1. Select **More** ( ) in the **Actions** column of your custom field (on the Custom fields page), and select **Configure**.
- 2. Select Edit Assets configuration.
- 3. Define the following:
  - Object schema: Mindville resources (or any other that you created)
  - Filter scope (AQL):objecttype = Server
  - Type of interaction: Select.
  - **Object attributes in issue view:** Select which attributes of Server you'd like to see in an issue when you create it.

## Configure Assets Custom Field - Affected Server (customfield\_10133)

Scope		
Object Schema	Resources	i
Filter Scope (AQL)	objecttype = Server order by label ASC	i
Filter Issue Scope (AQL)	Not configured	i
Filter Assign Scope (AQL)	Not configured	(i)
Make Filter Assign Strict		<b>i</b>
User Interaction		
Type of interaction	<ul> <li>Select</li> <li>Checkbox / Radio button</li> </ul>	i
Filter objects with attributes	Label × V	i
Object attributes on Issue view	Name × User × Location × Installed Software × System Owner ×	<b>i</b>
Multiple		(i)
Option to add all objects		i
Jira Service Management		
Show object picker on customer portals		(j)
Force to show on Customer Issue details		(j)
Return to Jira Custom Field		

### Next up

When you're ready, go to 7. Add objects to your requests.

# 7. Add object to your requests

With Assets custom fields added to the right screens, you should be able to use them to select your objects.

#### Create a Jira issue

Create a Jira issue (make sure you've added your field to the Create issue screen for your project). You should be able to see your field like this:

Not configured	Fix Version/s	None			
Not configured	Priority	= Medium	- 0		
	Labels			*	
		Begin typing to find and create label	is or press down to select a suggested la	abel.	
<ul> <li>Select</li> <li>Checkbox / Radio button</li> </ul>	Attachment	C Drop file	es to attach, or browse.		
Label ×	Linked Issues	blocks	\$		
Name × User ×	Issue			- +	
		Begin typing to search for issues to	link. If you leave it blank, no link will be r	made.	
	Assignee	Automatic		*	
		Assign to me			
	Epic Link			*	
		Choose an epic to assign this issue	to.		
	Sprint			*	
		Jira Software sprint field			
	Affected Server	1		- Q	
		All Objects		•	
		Dell PowerEdge VRTX		Сва	te Cancel
		HPE ProLiant DL580 Gen9			

1. **Object picker:** These little icons let you browse Assets objects or create new ones directly from your issue.

### View object details on your issue

Once you created your issue, you should see your custom field on it, as shown below:

<b>e</b>		indville Onboard	-	failed				
	<ul> <li>Edit</li> <li>Details</li> <li>Type:</li> <li>Priority:</li> <li>Labels:</li> <li>Affected</li> </ul>		<ul> <li>✓ Task</li> <li>✓ Low</li> <li>None</li> <li>☑ Dell Pow</li> </ul>	x	In Progress	Admin 🖌 Status: Resolution:	TO DO (View Workflow) Unresolved	
₩ <b>₩</b>		ealth has failed eeds to be resta		Dell P     ketker     Stock	holm	les to attach, or browse.		

#### Create a request from the customer portal

To test your custom field on a customer request, select Raise a request in the left panel. Select "Desktop /Laptop Support", and check if your custom field is available on the form.

Summary		
	4	e.g. My laptop shuts down unexpectedly
Details		
Details		
		Please provide details, such as the model of your laptop (Mac or Windows), or the specific problems you are having (e.g. screen blinks).
Attachment (optional)		
Ø Drag and drop files, paste screenshots, or		
٩		
Dell PowerEdge VRTX		
😰 HPE ProLiant DL580 Gen9		
Search for an object	۹.	

### That's it for this tutorial

Well done, legend! You're now familiar with the basics of Assets and can easily start working with your objects. If you'd like to dive a bit deeper and see how requests can affect your objects, head on to the next tutorial.

• Tutorial: How Jira issues affect Assets objects (ITSM)

## Tutorial: How Jira issues affect Assets objects (ITSM)

Let's dive into how to create a sample IT Service Management (ITSM) project and use it to automate and simplify a typical ITSM problem.

In this tutorial, you'll use the ITSM template, pre-populated with sample data, issue types (incident, problem, change) to see an end-to-end ITSM process. You'll also see how Assets functions can work with Jira workflows and affect objects when a related issue is transitioned through a workflow.

#### In this tutorial

Here are all the steps you'll follow in this tutorial:

- 1. Create an ITSM project
- 2. Create an incident
- 3. Work on the problem
- 4. Work on the change

## 1. Create an ITSM project

Let's start by creating a new project based on the Assets' ITSM template, and include some sample data for out tutorial.

- In Jira, the template will create issue types, issue type scheme, workflows, workflow scheme, screens, screen scheme, and issue type screen scheme. Everything you need.
- In Assets, the template will create an object schema, object types with attributes, and object type references.

Since we'll create an ITSM template with sample data, a few Jira issues and Assets objects are also created and linked together.

### Create your project

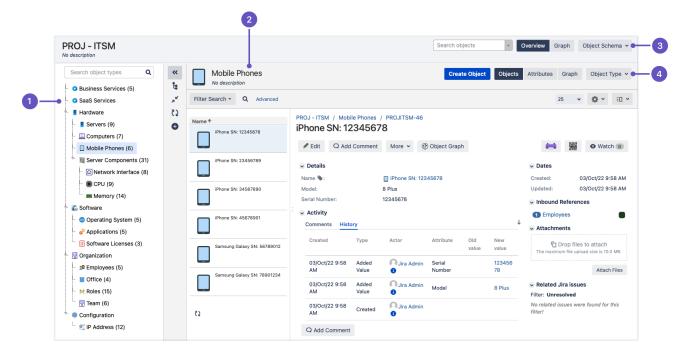
To create a sample project:

- 1. In the top menu, select Projects>Create project.
- 2. At bottom, select Create sample data.
- 3. Under the Businessheader, select the Assets IT Service Management template.
- 4. Review the issue types and custom fields that will be created and select Select.
- 5. Enter aName, Key, and Project Lead for the project.
- 6. Select Submitto create the project.

#### View your project's object schema

Your sample project comes together with an object schema in Assets. Here's how to view it:

- 1. In the top navigation bar, select **Assets**, and select your schema. The name will be similar to the project you created.
- 2. Feel free to play around with the sample data. Check your object types and their attributes, use the visual graph to see the relations between objects.



- 1. **Object types:** List of object types in your schema.
- 2. Objects: Selected object type, its child objects, and object details in the main panel.
- 3. **Object schema actions:** Here you can configure your object schema.
- 4. **Object type actions:** Here you can configure the selected object type, and switch between viewing its objects, attributes, or the visual graph.

When you're ready, let's get some work done! Go to2. Create an incident.

## 2. Create an incident

After you've created your project, you can start working on it right away. Let's imagine we're working as frontline support, and we're reporting an incident.

Create an incident

- 1. Create an issue in your project, and set its type to Incident.
- 2. Write a summary. Let's say, "I can't send emails".
- 3. Set the **Affected business service**field to **Email service**. What you're doing here is actually choosing the affected Assets object.

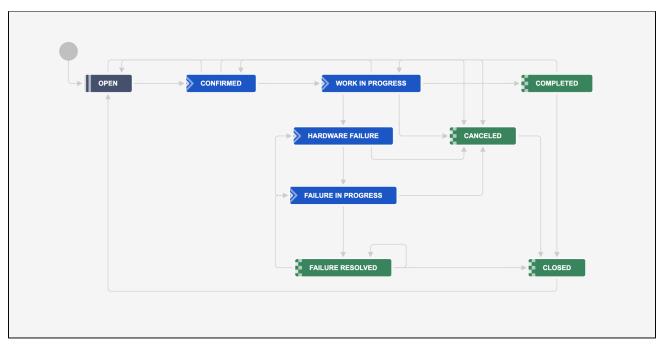
Create Issue	*	Configure Fields 🔻
Project <sup>*</sup> Issue Type <sup>*</sup>	<ul> <li>Mathias ITSM (MI)</li> <li>Incident</li> <li>⑦</li> </ul>	
Summary*	I can't send emails	]
Affected Business Service	Email Service ×	] •
Reporter*	Start typing to get a list of possible matches.	
	Create another	Create Cancel

If you look at the incident you created, you can see that it's linked to an object in Assets. The details of your affected email service automatically appear in the **Affected business service**field.

✓ Details			
Туре:	Incident	Status:	OPEN (View Workflow)
Priority:	↓ Low	Resolution:	Unresolved
Labels:	None 🖍		
Affected Business	Email Service		
Service:	Status	RUNNING	
	Business Service Owner	Wes Shults	
	Service Group Phone	+46 3284 234 442	
	Importance	Critical	

### Related workflow

Here's the workflow that your project uses for incidents, just so you know how the incident will move through it. You can always view it in**Project settings** > **Workflows.** 



### Get the work going

Let's transition the incident through it's workflow to see what happens to the Assets objects.

#### 1. Confirm the incident

- 1. Select **Confirm incident** to confirm it and proceed through the workflow. The status of the affected object changes to Incident in progress.
- 2. Select Investigate incident to start the work. The status of the issue will change.

Гуре:	Incident	Status:	WORK IN PROGRESS
Priority:	↓ Low		(View Workflow)
		Resolution:	Unresolved
Labels:	None 🖍		
Affected Business	Email Service		
Service:	Status	INCIDENT IN PROGRESS	
	Business Service Owner	Wes Shults	
	Service Group Phone	+46 3284 234 442	
	Importance	Critical	

#### 2. Investigate the incident

1. Let's assume that you found the culprit, which is hardware failure. Select Hardware failure.

417

2. Select the **Related Server** that you suspect is the source of the incident and confirm. The current user (you) will be automatically assigned to investigate.

Hardware failure		
Summary*	I can't send emails	
Affected Business Service	Email Service ×	
Related Server	exchange.prod.app1	
	Related Server for Insight ITSM template	
Issue Type <sup>*</sup>	Incident There are no issue types with compatible field configuration and/or workflow associations.	
	The issue type can only be changed by <b>moving</b> this issue.	
Reporter*	👼 jeffery	
	Start typing to get a list of possible matches.	
Comment	Style <b>×</b> B I U A × A° <b>×</b> & ✓ ∴ I I I I ⊙ <b>×</b> + <b>×</b>	^
	An investigation into recent email problems is indicating that an exchange server is intermittently failing.	
	Visual Text 🗠 🔿 🔓 – Viewable by All Users	s
	Hardware failure	Ca

 Now that you've identified the culprit, the Related server from Assets is also linked to the Jira issue. Post-functions built into the template have updated the status of the Affected business service and R elated server.

✓ Details			
Туре:	Incident	Status:	HARDWARE FAILURE
Priority:	↓ Low		(View Workflow)
		Resolution:	Unresolved
Labels:	None 🖍		
Affected Business	Email Service		
Service:	Status	INCIDENT IN PROGRESS	
	Business Service Owner	👥 Wes Shults	
	Service Group Phone	+46 3284 234 442	
	Importance	Critical	
Related Server:	exchange.prod.app1		
	Status	INCIDENT IN PROGRESS	
	Server Owner	👥 Fred Astair	

#### 3. Investigate failure

- 1. Proceed to Investigate failure.
- 2. When enough information has been gathered, resolved the issue with **Resolve**. This indicates that you have determined the incident's cause or that you were unable to reproduce the failure.

3. For the sake of the example, let's assume you can reproduce the incident and have an idea of what's causing it.Change the issue state to **Report problem**to create a new issue of issue type**Problem**to begintracking the underlying cause of this incident.

#### Next up

When you're ready to solve some problems, go to3. Work on the problem.

## 3. Work on the problem

Typically, this is where the role of the front-line support ends. A higher-level support representative might take over the new**Problem**issue, which has its own workflow, reporter and assignee, but includes the information about the affected Assets objects, inherited from the incident.

### Where's the problem?

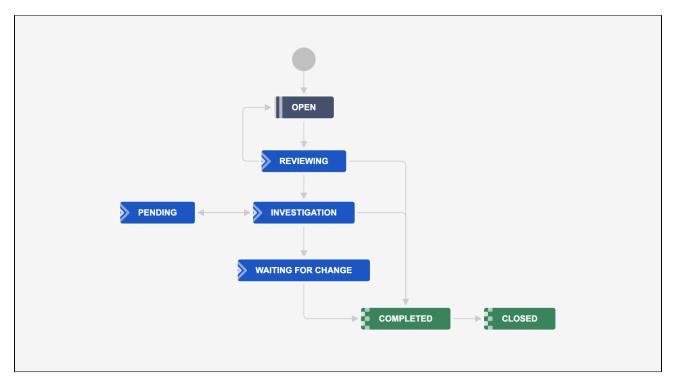
You can see the newly created problem in the issue links of your incident. Select it to see what's it all about.

You should be moved to the problem issue:

	Nathias ITSM / Can't sen	
🖋 Edit	Q Comment	Assign More <b>v</b> Review Admin <b>v</b>
<ul> <li>Details</li> </ul>	;	
Type:		Problem
Status:		OPEN (View Workflow)
Priority		↓ Low
Resolut	tion:	Unresolved
Labels:		None 🖍
Affecte	ed Server:	E exchange.prod.app1
		Status <b>RUNNING</b>
		Environment Production
		Server Owner 💁 Fred Astair
Affecte	ed Business	Email Service
Service	e:	Status <b>RUNNING</b>
		Business Service Owner 💁 Wes Shults
		Service Group Phone +46 3284 234 442
		Importance Critical

## Related workflow

Here's the workflow for the Problem issue type, just so you know how your issue will move through it. You can always view it in**Project settings** > **Workflows.** 



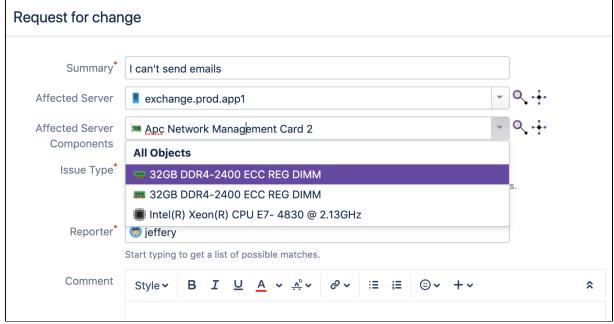
### Get the work going

#### 1. Investigate the problem

- 1. Select **Review** and later **Investigate**. This will move your problem right into the investigation state.
- 2. During the investigation, the assignee could find a component or system that needs to be changed for example, the problems with the exchange server might be caused by a faulty network card. The assignee would change the ticket status to **REQUEST FOR CHANGE** and select the faulty component.

#### 2. Request for change

- 1. Select Request for change.
- 2. Select the component that you think is affected from the drop-down list. It will be the job of another person to replace it. In this tutorial, it will be you.



3. You've selected the faulty component and the status of the issue is now Waiting for change. The affected business service, server, and component are all linked to the issue.

	, and component are an inked	
<ul> <li>Details</li> </ul>		
Туре:	🙆 Problem	
Status:	WAITING FOR CHA (Vi	ew Workflow)
Priority:	↓ Low	
Resolution:	Unresolved	
Labels:	None 🖍	
Affected Server:	exchange.prod.app1	
	Status	RUNNING
	Environment	Production
	Server Owner	👥 Fred Astair
Affected Server	🗯 Apc Network Manag	ement Card 2
Components:	ID	APC-2-2
	Server	
		exchange.prod.app 1
Affected Business	Email Service	•
Service:	Status	RUNNING
	Business Service Owner	Wes Shults
	Service Group Phone	+46 3284 234 442
	Importance	Critical
	inportance	Chuca

### Next up

When you're ready to get your hands dirty, go to 4. Work on the change.

## 4. Work on the change

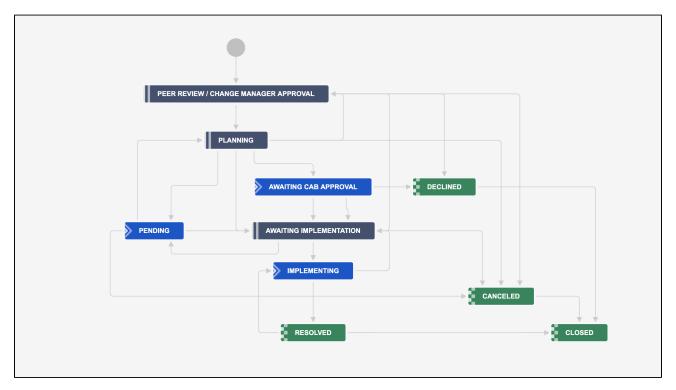
When the Problem issue reaches the Waiting for change status, the new Change issue will be created automatically through Assetsautomation. Since this ticket requires on-site hardware changes, the support representative managing the **Problem** ticket might hand this ticket over to the serverowner to make the changes.

### Where's the change?

Again, you can see the newly created change in the issue links of your problem. Select it to see the details.

### Related workflow

Here's the workflow for the Change issue type, just so you know how your issue will move through it. You can always view it in**Project settings** > **Workflows.** 



### Get the work going

### Approve the change and find a replacement

1. Select **Approve** to approve the change. Here you'll be able to select a replacement component for the malfunctioning server.

2. If there are any **Available server components** identified, they will appear in the dropdown list. But, let's say there aren't any and create a new one by selecting **Create an object** in the dialog.

Create Object					
Object Type <sup>*</sup>	Metwork Interface	•	No description		
Name <sup>*</sup> ID	TP-LINK TG-3468 The name of the object 34366		Avatar Choose File No file chosen		
Server		<b>•</b>			
Status		•	□ Create another	Create	Cancel

- 3. After you've created the object, select it in**Available server component**and progress through the workflow until we reach the**Implementing**state.
- 4. You'll notice when we are implementing the change, the Affected server is automatically stopped.

#### Complete the change

- 1. Select Change completed. Here's what happens when you do it:
  - The change ticket is **Resolved**
  - The Resolution is Done
  - The faulty server component is changed to Decommissioned
  - The Affected Server is running again
  - The server component linked to the server is updated to show the new network card
- 2. And above all, the **change** request is resolved.

Mathias ITSM / I can't sen			
🖋 Edit 🛛 Q Commen	t Assign More	✓ Delete Me Close	Admin 🗸
✓ Details			
Туре:	🔁 Change	Status:	<b>RESOLVED</b> (View Workflow)
Priority:	↓ Low	Resolution:	Done
Labels:	None 🖍		
Available Server	🗯 TP-LINK TG-346	8	
Components:	ID	3434	
	Server	exchange.prod.app1	
Affected Server:	exchange.prod.a	pp1	
	Status	RUNNING	
	Environment	Production	
	Server Owner	👥 Fred Astair	
Affected Server	🗯 Apc Network Mai	nagement Card 2	
Components:	ID	APC-2-2	
	Status	DECOMMISSIONED	

3. Similarly, the **problem** is automatically updated and closed.

Mathias ITSM / I can't ser	nd emails		
Edit Q Comme		Close Admin 🗸	
✓ Details			
Туре:	Problem	Status:	COMPLETED
Priority:	↓ Low	otatuo.	(View Workflow)
	• 1000	Resolution:	Unresolved
Labels:	None 🖍		
Affected Server:	exchange.prod.app1		
	Status	RUNNING	
	Environment	Production	
	Server Owner	👥 Fred Astair	
Affected Server	🗯 Apc Network Manag	_	
Components:		APC-2-2	
	Status	DECOMMISSIONED	
Affected Business	Email Service		
Service:	Status	RUNNING	
	Business Service Owner	👷 Wes Shults	
	Service Group Phone	+46 3284 234 442	
	Importance	Critical	
Ist like the <b>incident</b> the <b>incident the <b>incident</b> the <b>incident</b> the <b>incident the <b>incident</b> the <b>incident the <b>incident the <b>incident</b> the <b>incident the <b>incident the <b>incident the <b>incident the <b></b></b></b></b></b></b></b></b></b>	hat started it all.		
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Mathias ITSM / I can't ser	hat started it all. MI-19 nd emails	Critical	
Mathias ITSM I can't ser	hat started it all. MI-19 nd emails	Critical	COMPLETED
Mathias ITSM / I can't ser	hat started it all. MI-19 nd emails ent Assign More ~	Critical Close Admin ~	COMPLETED (View Workflow)
<ul> <li>Mathias ITSM / I can't ser</li> <li>Edit Q Comme</li> <li>Details</li> <li>Type:</li> </ul>	hat started it all. MI-19 nd emails ent Assign More ~	Critical Close Admin ~	
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Mathias ITSM / I can't ser Can't ser Can't ser Comme Details Type: Priority: Labels:	hat started it all. MI-19 Assign More ✓ Problem ↓ Low None ✓ exchange.prod.app1	Critical Close Admin   Status: Resolution:	(View Workflow)
Mathias ITSM / I can't ser Can't ser Can't ser Comme Details Type: Priority: Labels:	hat started it all. MI-19 nd emails ent Assign More ✓ Ø Problem ↓ Low None ✓ I exchange.prod.app1 Status	Critical Close Admin   Status: Resolution:	(View Workflow)
Mathias ITSM / I can't ser Can't ser Can't ser Comme Details Type: Priority: Labels:	hat started it all. MI-19 nd emails ent Assign More ✓ Ø Problem ↓ Low None ✓ I exchange.prod.app1 Status Environment	Critical Close Admin ✓ Status: Resolution: RUNNING Production ♀ Fred Astair	(View Workflow)
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<ul> <li>Mathias ITSM / I can't ser</li> <li>Edit Q Comme</li> <li>Details</li> <li>Type: Priority:</li> <li>Labels: Affected Server:</li> </ul>	hat started it all. MI-19 Assign More ✓ Problem ↓ Low None Rent Server Owner Apc Network Manag ID	Critical Close Admin ✓ Status: Resolution: RUNNING Production Production Fred Astair gement Card 2 APC-2-2	(View Workflow)
<ul> <li>Mathias ITSM / I can't ser</li> <li>Edit Q Comme</li> <li>Details</li> <li>Type: Priority:</li> <li>Labels: Affected Server:</li> <li>Affected Server</li> <li>Components:</li> </ul>	hat started it all. MI-19 Action More → More → Problem ↓ Low None ↓ Environment Server Owner Apc Network Manag ID Status	Critical Close Admin ✓ Status: Resolution: RUNNING Production Production Fred Astair gement Card 2 APC-2-2	(View Workflow)
<ul> <li>Mathias ITSM / I can't ser</li> <li>Edit Q Comme</li> <li>Details</li> <li>Type: Priority:</li> <li>Labels: Affected Server:</li> <li>Affected Server</li> <li>Components:</li> <li>Affected Business</li> </ul>	hat started it all. MI-19 Assign More ✓ Problem ↓ Low None Environment Server Owner Apc Network Manag ID Status Email Service	Critical Close Admin ✓ Status: Resolution: RESOLUTION Production Production Fred Astair Pement Card 2 APC-2-2 DECOMMISSIONED	(View Workflow)
<ul> <li>Mathias ITSM / I can't ser</li> <li>Edit Q Comme</li> <li>Details</li> <li>Type: Priority:</li> <li>Labels: Affected Server:</li> <li>Affected Server</li> <li>Components:</li> <li>Affected Business</li> </ul>	hat started it all. MI-19 nd emails ent Assign More ✓ ② Problem ↓ Low None ✓ ■ exchange.prod.app1 Status Environment Server Owner ■ Apc Network Manag ID Status © Email Service Status	Critical Close Admin ✓ Status: Resolution: Resolution: Production Production Pred Astair gement Card 2 APC-2-2 DECOMMISSIONED RUNNING	(View Workflow)

That's it for this tutorial

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The IT Service Management (ITSM) template is only an example of how you can structure your ITSM practices with Assetsand Jira. Feel free to use this template, modify it, or start your own from scratch.

## **Administering Assets**

From Assets roles and permissions to configuring Assets custom fields and functions, and making them work with Jirahere youll find administering tasks that will set up your team for success.

### Get started with administering Assets

Here's a list of pages to get you started:

- Installing Assets
- Configuring roles and permissions
- Configuring global Jira settings
- Configuring global Assets settings
- Adding Assets custom fields to screens in Jira
- Enabling Assets custom fields on customer portals
- Adding Assets functions to workflows in Jira
- Adding approvers from Assets to requests in Jira
- Importing and exporting object schemas
- Assets REST API documentation
- Advanced usage guides
- Upgrading Insight with Jira Service Management

## **Installing Assets**

If you're using Jira Service Management Data Center 4.15 or later, Assets is already included and there's no need to download anything. You can find it by selecting Assets in the top Jira navigation.

If you're using Jira Service Management Data Center 4.14 or earlier, you can install the Assets app for free from the Atlassian Marketplace.

Assets is available also for Jira Software Data Center users, but some restrictions apply depending on your Jira version. See our FAQ for details

#### Install the app

To install the Assetsapp from Atlassian Marketplace:

- 1. Log in to Jira as an admin.
- 2. Select Administration > Manage apps.
- 3. Select Find new apps, and search for Assets.
- 4. The appropriate app version appears in the results.
- 5. Follow the instructions to install the app. If you're on Data Center, this version won't need any license.
- 6. Youll be prompted to log into MyAtlassian and Assets will begin to download.
- 7. Once downloaded, you'll seeAssets in the top Jira navigation.

#### System requirements

We strongly believe that your Data Center instance will pull it off, but here's some system requirements, just in case.

Make sure that Jira is configured to handle the amount of data you plan to import into Assets. If you plan to use a lot of scheduling tasks and import a large amount of data we recommend that you follow the table below.

Remember to always test the memory consumption in a test environment for a huge data set, because it's not always the number of objects, but the content of the object attributes as well at play.

Objects in Assets	JVM memory (minimum)	JVM memory (recommended)
~ 1,000,000	16 GB	20 GB
~ 2,000,000	20 GB	25 GB
~ 5,000,000	40 GB	50 GB
~ 6,000,000 + 700k issues with connections	50 GB	60 GB
~ 8,000,000 + 800k issues with connections	70 GB	90 GB

On large installations of Assets, there are some options you can tweak to increase performance.

#### **Garbage collection**

To decrease the pause time we recommend that you switch the garbage collection (GC) algorithm to G1 fr om the default. You can configure it by adding the following JVM argument to your Jira*setenv*script.

-XX:+UseG1GC

#### Assets parallelism

Based on your environment, other options to tune the G1 may be required. Check out the information from Oracle (http://www.oracle.com/technetwork/tutorials/tutorials-1876574.html) and tune your JVM based on your requirements.

Assets executes tasks in parallel (e.g. reindex, imports). On a large instance, you can increase the number of threads that perform the tasks. You can see this here:Configuring global Jira settings. By default, the parallelism is configured to be equal to the amount of cores available to the JVM.

#### **Database pool**

If you have increased the number of threads (Assets parallelism), it is recommended to check the database connection pool monitor and determine if an increased connection pool is required as well.

#### Jira shutdown

On Jira shutdown Assets persists the index on disk for faster startup. In large instances, the index file fails to be saved on disk in time before the force shutdown command is sent. This will cause Assets to do a database reindex on each startup. To prevent this change, you need to change the timeout on force shutdown in the stop-jira script.

Change the value 20 (the unit is seconds) to a value that is more reasonable based on the amount of data in your installation. Below is a snippet from the standard Jira stop-jira.sh and it is the value**20** that should be changed at two places.

```
if [ -z "$JIRA_USER" ] || [ $(id -un) == "$JIRA_USER" ]; then
    echo executing as current user
    exec $PRGDIR/shutdown.sh 20 -force $@
elif [ $UID -ne 0 ]; then
    echo JIRA has been installed to run as $JIRA_USER so please sudo run this to enable switching to
    that user
    exit 1
else
    echo executing using dedicated user
    if [ -x "/sbin/runuser" ]; then
        sucmd="/sbin/runuser"
    else
        sucmd="su"
    fi
        $sucmd -m $JIRA_USER -c "$PRGDIR/shutdown.sh 20 -force $@"
```

fi

If you have configured your heap with the CATALINA\_OPTS in *setenv*, make sure that the JVM configuration (*JVM\_MAXIMUM\_MEMORY*) is not the same value as the max heap configured in CATALINA\_OPTS.

If you are using Assets to accommodate millions of objects and plan to use importers heavily, (e.g, with the Asset Discovery product), then we recommend that you move to Data Center version if you're not already using it. This will offer you the possibility to isolate the importers to only one *import node*with the other nodes being the *user nodes*. With one import node, the import process will have less impact on user interaction. It will also be more robust since any failing import or any over consumption of memory will only affect the import node and not any of your user nodes.

It is difficult for us to set any exact object size or import size recommendation since it's about the data stored on your objects, as well as how often the imports occur. But in general, when reaching millions of objects or memory usage over 32 Gb or if you don't ever want to impact any user interaction, then you should consider using the Data Center version of Assets.

During imports and re-index with Data Center, we need to send messages to other nodes to update the index. This is done through provided Atlassian functionality and the *clustermessage*table is the DB table where all nodes push and pull. The problem we have seen is that Atlassian have a retention period of **30 days**for this table. We think this is a bit too much and recommend that you should remove all Assets related data rows which are older than 24 hours with your own retention scripts.

#### Next steps

Head on right intoAdministering Assets.

## **Configuring roles and permissions**

Learn about roles and permissions available in Assets, and how to grant them to specific users or groups. At the bottom of the page, you can also find a detailed permission matrix that will tell you how permissions correspond to tasks that users can perform.

### Roles

A role is a set of permissions granted to Jira users or groups to view or modify data in Assets. Here's a summary of available roles:

Role	Description
Assets Administrator	<ul><li>This role can perform all actions in Assets. This includes:</li><li>Configuring Assets globally</li><li>Managing individual schemas</li></ul>
Assets Managers	<ul> <li>This role can execute the following tasks on an object schema. This includes:</li> <li>Configuring all schema details</li> <li>Viewing objects</li> <li>Searching for objects using basic and advanced search</li> <li>Creating and editing objects</li> <li>Exporting objects</li> <li>Printing QR codes and labels</li> </ul>
Assets Developers	<ul> <li>This role means builders or creators, rather than e.g. software developers. It can execute the following tasks on an object schema:</li> <li>Viewing objects</li> <li>Searching for objects using basic and advanced search</li> <li>Creating and editing objects</li> <li>Exporting objects</li> <li>Printing QR codes and labels</li> </ul>
Assets Users	<ul> <li>This role can do the following on an object schema:</li> <li>Viewing objects</li> <li>Searching for objects using basic and advanced search</li> <li>Exporting objects</li> <li>Printing QR codes and labels</li> </ul>

### Permission levels

Assets offers three levels of permissions:

Level	Description
Global permissions	<ul> <li>These permissions allow you to configure the entire Assets app.</li> <li>By default, as part of Global permissions, the <i>jira-administrators</i> group is mapped to the Assets administrator role. So, if you're a Jira administrator for your Jira instance, then you can perform all actions in Assets.</li> <li>However, if you remove this default mapping, then you wouldn't be able to execute tasks despite of being a Jira administrator.</li> </ul>

Object schema permissions	These are permissions to configure and execute actions on the object schema level.
Object type permissions	These are permissions to execute actions on an individual object type. You can view a detailed matrix of all tasks and corresponding permissions at the bottom of this page.

### Granting permissions

Assets automatically grants the Assets Administrator role to all Jira admins. However, it might not inherit permissions from any particular active directory running on your Jira instance.

(i) You need to be a Jira admin to be able to assign users or groups to a specific role in Assets.

#### **Granting global permissions**

- 1. In the top navigation bar, select **Assets**> **Configure**.
- 2. Switch to the **Roles** tab.
- 3. Assign users or groups to the administrator role.

#### Granting object schema permissions

- 1. In the top navigation bar, select **Assets**> **Object schemas**.
- 2. Open your object schema.
- 3. In the top-right, select **Object schema > Configure**.
- 4. Switch to the Roles tab.
- 5. Assign users or groups to the roles.

#### Granting object type permissions

- 1. Open your object type.
- 2. In the top-right, selectObject type > Configure.
- 3. Switch to the Roles tab.
- 4. Assign users or groups to the roles.

#### Good to know

- Object type permissions take precedence over object schema permissions. For example, a user might be assigned to the **User** role on the schema (to not make any changes), but then have a more powerful **Developer** role on a specific object type, so they can create objects.
- If you want users to work with object types (and objects) you need to grant them permissions for object types, but also for the schema (at least**User**permissions, so they can view it). Without giving them any permissions for the schema, they won't be able to access it.
- If you don't specify permissions for object types, they will be inherited from the object schema.

### Permission matrix

Here's how roles relate to specific actions users can complete.

Assets functions	Assets Users	Assets Developer <i>s</i>	Assets Managers	Assets Administrat ors	Jira Administr ators
Report Jira issues on Assets objects	0	0	0	0	•
Search for Assets objects and attributes	0	0	0	0	•

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View object graph explorer	0	•	0	0	
View object type graph explorer	0	Ø	0	0	•
View Assets custom field	0	•	0	0	•
Create/Edit Assets objects		Ø	0	0	
Move objects (Object Type <i>To</i> )		Ø	0	0	
<i>Note that this function applies to roles on the Object type level</i>					
Move objects (Object Type From)			0	0	
<i>Note that this function applies to roles on the Object type level</i>					
Delete Assets objects			0	0	
Create/Edit/Delete attributes			0	0	
Modify Assets object schema			0	0	
Delete Assets object schema				0	
Create Assets object schema				0	
Manage icons			0	0	
Manage references			0	0	
Import object schemas			0	0	
Create/Configure/Enable imports			0	0	
Manage global Assets permissions				<b>Ø</b>	Ø
Create/Manage Assets custom field					Ø
Move object type (drag & drop)				<b>Ø</b>	
Delete object type			0	<b>Ø</b>	
Add/edit Assets post-functions in Jira workflows					Ø

# **Configuring global Jira settings**

Global Jira settings for Assets include configuration for the Assets app itself, rather than object schemes, object types, or even objects. Here you can configure log settings, date and time, Assets reindexing, and so on. Read on for more details on available settings.

Accessing global Jira settings

To access global Jira settings for Assets:

- 1. Go to Administration > Manage apps.
- 2. Look for pages in the Assets section.

# **General configuration**

To open general configuration, select Assets configuration.

Administration a	. Search Jira admin		
pplications Projects Issu	es Manage apps User management Latest upgrade report	System	
LASSIAN MARKETPLACE	General Assets Configuration		
nd new apps	- •		
anage apps	This is where you set general configuration for the Asse	ts plugin.	
SETS			
ssets Configuration	User Interaction		
dexing Assets	Attribute default label:	Name	()
-	Attribute default description:	The name of the object	(i) (i)
ssets Script Console	Open Object dialog event	Click	(i)
ssets Allowlist	Default number of objects fetched in custom fields	25	(i)
Assets reports	General configuration		
	Assets Audit Log enabled	No	(i)
	Include attribute values in audit log	No	(i)
	Restore Assets index from file	Yes	<b>i</b>
	Store cache on shutdown	Yes	<b>(i)</b>
	Restrict Assets cache	No	(i)
	Maximum File upload size	10.0 MB	(i)
	Assets parallelism	10	(i)
	Process data sources via temp files during imports.	No	(i)
	Import temp file buffer size	100	(i)
	Import temp file alternative directory		(i)

Setting	Description	
User interaction		
Attribute default label	The text type attribute to be used asdefault label for every object type. You can change this on the specific object type configuration too. Note that this affects only for those object types that are created after this setting has changed.	No
Attribute default description	The description for thedefault label attribute. You can change this on the specific object type configuration too.	No
Open Object dialog event	Determines if the object dialog should open when a user selectsan object link or when the user hovers with the mouse over an object link. This will also apply when you view Assets object fields while you view a Jira issue.	No

Default number

of objects

or objects	each request. The default value is set to 25.	
fetched in custom fields	Once the user starts to search any objects on the custom field, more objects matching the search criteria are fetched from server asynchronously. Hence, the default limit of 25 is recommended and should be enough.	
	If you increase this number, it will affect the performance since more objects would then have to be fetched on every request.	
General configura	ation	
Assets Audit Log enabled	If you check this checkbox, it is ensured that all Assets object events are logged to an audit log file.	No
Include attribute values in audit log	This checkbox is enabled only if the above "Assets Audit Log enabled" is checked.	No
	If checked, this will include all attribute values of an object in the audit log.	
Restore Assets index from file	This will ensure that on start up, Assets index will be restored from a file. This will help increase the startup time.	No
	Assets will perform a consistency check of the file against the database on startup and recreate the index if they mismatch.	
	If you uncheck this, you may experience a slower start up time. However, it could remove the risk of a potential corrupted index file which may cause datainconsistency.	
	By default, this is checked. The file is located at {\$JIRA_HOME/caches /assets_indexes}	
	E.g, path of the file on MacOS will be {/var/atlassian/application-data/jira/caches /assets_indexes}	
Store cache on shutdown	This indicates that the Assets index should be persisted to a file on Assets shutdown (e.g, in cases of a plugin upgrade, Jirarestart, Assets disable etc).	No
	It is recommended that if "Restore Assets index from file" is checked, this property should be switched on too.	
Restrict Assets Cache	This helps to limit the amount of objects allowed to be stored in Assets. This will subsequently limit the memory footprint by allowing only a limited number of objects to reside in thecache.	Y es
	The default and recommended way to use Assets is to not restrict objects in cache. The limit will have negative performance impact.	
Number of	This is enabled only if "Restrict Assets Cache" is checked.	Y
objects allowed in cache	This property indicates the number of Assets objects that will be be stored in the cache.	es
	The recommended way is to not limit objects in cache.	
Maximum File upload size	The maximum file upload size in bytes when uploading files, images, attachments into Assets.	No
Assets parallelism	This is number of threads that Assets will spawn to perform parallel tasks, e.g, importing data, re-indexingetc.	No
	If this number is set to a lower value, Assets will put less strain on Jira. However, it will come at the cost of a low performance speed.	

This indicates the number of objects that Assets will fetch in custom fields for

each request. The default value is set to 25.

No

Process data sources via temp files during imports	Temporarily store data on disk when using the import modules to reduce memory footprint during import.	No
Use a custom locale for Assets	<ul><li>This is used to indicate if the data stored in Assets should be sorted by a locale other than Jira's defaultone.</li><li>Fetching of objects may be slowerifthis option is switched on. Hence, bydefault, this is disabled to avoid performance issues.</li></ul>	No
The locale for Assets	This is enabled only if "Use a custom locale for Assets" is checked. This determines the language Assets should use when sorting data.	No
Service Desk portal search text (single)	Placeholder for the Assets field on the Jira Service Desk portals (Single fields)	
Service Desk portal search text (multi)	Placeholder for the Assets field on the Jira Service Desk portals (Multiple fields)	
Dedicated Scheduling Node	This node will be the dedicated node to execute Assets scheduling tasks, such as Importers, Automation,etc. Notethat, if a node was selected as the dedicated scheduling node and happens to be unavailable at the time of running a scheduled task, then that task will <i>not</i> ru n.	No

#### **Date settings**

All dates in Assets use the Jira administrator settings, and can be changed under the following URL:

https://host:port/secure/admin/AdvancedApplicationProperties.jspa

# Log files

Logs are located in the following directory:

<Jira-shared-home>/log

### Attachments

Assets attachments are stored accordingly in subfolders named avatars, files, icons, and objects in the following directory:

<Jira\_home>/data/attachments/assets

### Indexing

To open indexing configuration, selectIndexing Assets.

ATLASSIAN MARKETPLACE Find new apps Manage apps	Insight Index Information  The Insight index is updated completely. You can still perform a re-index. For more information please see the Insight Documentation. Note: If you plan to do configuration changes, you may wish to complete those changes before performing the re-index.	
INSIGHT	rote a you plan to do complication changes, you may man to complete those changes before performing the to index.	
Insight Configuration		
Indexing Insight	Clean re-index Re-index Persist Insight index to file	
Insight Script Console	Index Path: /var/atlassian/application-data/iira/caches/insight indexes/objects	
Insight reports		
Mindville Analytics		

You can select from the following options for indexing:

#### • Clean re-index

A clean re-index means that all objects will be removed from the index, and then will be indexed again. This is recommended if you want to have a fresh state of the index. Once the indexing is in progress, you won't be able to search for objects or filter them.

#### • Re-index

A re-index means that all objects will stay in the index during the process, and Assets will index them again. You can search for objects during the process.

#### • Persist Assets index to file

You can manually persist (copy) the index on your disk. This is useful if you have a big Assets environment with a large number of objects and are planning to reinstall the app. With the index on your disk, Assets won't have to recreate it from scratch.

#### **Testing Groovy scripts**

To test Groovy scripts, select **Assets script console**. It gives you a quick and easy way to test Groovy scripts that you want to use in Assets automation or post-functions.

ATLASSIAN MARKETPLACE		
Find new apps		ht Script Console
Manage apps	This i	is where you can test groovy scripts that you intend to use in Automation or post functions in Insight.
INSIGHT		
Insight Configuration	-	
Indexing Insight		
Insight Script Console		
Insight reports		
Mindville Analytics		
	Enter your groo	vy code in the textres. Read about examples here
	Issue Key:	
		Using the variable issue, you have access to the issue. Read about it here
	Object Key:	
		Ling the variable object, you have access to the object. Read about the ObjectBean in our Java API here
		_
		Run

#### Syncing reports

To open reports syncing configuration, select**Assets reports**. Here you can set up a cron schedule, which syncs the data in your reports.

Administration a Se	earch Jira admin
Applications Projects Issues	Manage apps User management Latest upgrade report System
ATLASSIAN MARKETPLACE	
Find new apps	1 Insight reports
Manage and	This is where you can set how often Insight report data is synchronized.
Manage apps	
INSIGHT	
Insight Configuration	Data synchronization
Indexing Insight	
Inviolat Covint Coverals	CRON expression 000**?
Insight Script Console	The interval for re-synching reports data. Learn more about cron expression here
Insight reports	
Mindville Analytics	

# Analytics

To open analytics configuration, selectMindville analytics.

Administration • Se	arch Jira admin
Applications Projects Issues	Manage apps User management Latest upgrade report System
ATLASSIAN MARKETPLACE Find new apps Manage apps	Analytics     Analytics collects anonymous data about the usage of Insight and sends it to Mindville. Please see the privacy policy for details.
INSIGHT Insight Configuration Indexing Insight Insight Script Console Insight reports	Mindville Analytics
Mindville Analytics	

# Additional Data Center configuration

#### Configure data retention period for clustermessagetable

Configuring the data retention period helps you avoid performance issues that might result from overloading the *clustermessage* table. If you import large data sets to Assets in a short period of time, the *clustermessage* table will be filled with information and can cause performance issues.

To configure the data retention period, complete the following steps:

- 1. Go to Administration >System.
- 2. Scroll down to the Advanced section and select Services.
- 3. UnderAdd Service, underClass, selectBuild-in services.
- 4. SelectCluster messaging flush service.
- 5. Enter the following information:
  - a. Name- Cluster Messaging Flush Service
  - b. Class -com.atlassian.jira.service.services.cluster.ClusterMessageCleaningService
  - *c.* **Schedule** -0 0 4/12 \* \* ?
- 6. SelectAdd Service.
- 7. Enter the following forRetention Period -2880m
- 8. SelectUpdate.

	Services					
	Name / Class	Properties		Schedule		
	Mail Queue Service com.atlassian.jira.service.services.mail.MailQueueSe rvice			0 * * * * ?	Edit	
	Audit log cleaning service com.atlassian.jira.service.services.auditing.AuditLog CleaningService			Daily at 12:00 am	Edit	Delete
	Backup Service com.atlassian.jira.service.services.export.ExportServ ice	USE_DEFAULT_DIRECTORY: true		0 0 0/12 * * ?	Edit	Delete
A	Add Service Add a new service by entering a name and class below. Aail handlers should be added or edited via our new In Name Class					
	Built-in Services     Built-in Services     Debugging service     Backup service     Replicated index flush service     Cluster messaging flush servic     Audit log cleaning service					
	Schedule Olaily Days p Days p Advanc Interval once per The curren	er Month ced	• am •			

# **Configuring global Assets settings**

Configuring global Assets settings allows you to choose base references, statuses, and permissions for users. These can be later available when creating object types and objects.

To access global Assets settings:

- 1. In the top navigation bar, select **Assets > Configure**.
- 2. Switch tabs to configure the settings you need. You can read more about them below.

#### References

Objects can have references to other objects, and here is where you create, edit, and delete those references on a global level (additional references can be configured in specific object schemes). You can name a reference, specify an outward and inward description, as well as set a color that will be used by the reference arrows in the object graph.

<ol> <li>References can</li> </ol>	be associated with an object type. You can create	, update and delete references here	э.
Name	Description	Color	
			Add
Dependency	Dependency		
Financial	Financial		Delete
Link	Link		
Reference	Reference		
Technical	Technical		Delete

#### Statuses

Objects can have statuses that represent a special attribute type. For example, you can add the attribute **Stat us** to your object and set it to **Active**. Through automation, this status will change to e.g. **Inactive** when a specific event occurs. Here you can configure global statuses, and set their category to Active, Inactive, or Pending. These statuses will be available to use as attributes in objects.

#### Good to know:

You should see the status categories as their state. For example, a new status called **Running** would most likely belong to the **Active** category, while **Broken** to **Inactive**.

0	Statuses can be set as attributes on objects. You can	create, update and delete statuses here.		
Id	Name	Description	Category	
			Active	Add
5	Action Needed		Active	Delete
1	Active		Active	Delete
7	Closed		Inactive	Delete
3	In Service		Pending	Delete
2	Running		Active	Delete
6	Stopped		Inactive	Delete
4	Support Requested		Pending	Delete

#### **Global permissions**

As a member of the Jira-administrators group, you can specify who should have administrative permissions in Assets. Based on the role users have (User, Manager, Developer, Administrator), they might only be able to view existing objects, or also create new objects, object types, and even object schemes. It really depends on how your company works; probably there will be a set of people responsible for creating objects, while the rest can only view them and raise requests against them.

For more info about what each role can do, see Roles and permissions.

#### Importing and exporting object schemas

Here you can import an existing object schema or export that one you're using. This is useful if you'd like to create a backup or have an existing schema in a different instance of Assets.

Available Imports		
•	Object Schema Import	Object Schema Export
	You can import a new object schema from the server.	You can export an existing object schema to a file on the server.
	Select	Select
	ENABLED	ENABLED
Notice!		

For more info, see Importing and exporting object schemas.

# Adding Assets custom fields to screens in Jira

You can have your objects displayed in Jira issues by adding Assets custom fields to Jira screens (just like you would with your usual Jira custom fields). This could be adding the affected business service to your incident issues, adding a computer to a hardware request issue, or adding a set of potentially affected hosts to a change request issue.

✓ Details			
Туре:	Problem		Status:
			Resolution:
Labels:	None		
Affected Server:	exchange.prod.app1	l	
	Status	RUNNING	
	Environment	Production	
	Server Owner	👥 Fred Astair	
Affected Business	Email Service		
Service:	Status	RUNNING	
	Business Service Owner	👥 Wes Shults	
	Service Group Phone	+46 3284 234 442	
	Importance	Critical	

# Quick overview

Here's a video on Assets custom fields if you'd like get a quick overview:

# Creating Assets custom fields

You can create three types of custom fields: Default, Referenced, and Readonly.

- Default Assets custom field
- Referenced Assets custom field
- Read-only Assets custom field

# Enabling access for customers

When you add Assets custom fields to Jira Service Management, you need to enable them for customer portals. Without these steps, customers won't be able to access these fields. Learn more about enabling Assets custom fields on customer portals

# **Default Assets custom field**

The default Assets custom fields gives you the most flexibility, and is what you'll use in most cases. When you're looking to add objects to issues while creating them, the default custom fields will help you achieve that.

# Create a default custom field

To create the default Assets custom field:

- 1. Log in to Jira as an admin.
- 2. Go to Administration > Issues > Custom fields.
- 3. SelectAdd custom field>Advanced.
- 4. Search for Assets object/s, and select it.
- 5. Enter a name and description for your field.
- 6. Once created, associate the custom field with desired screens in Jira.

The Assets default custom field is now created and associated with the right screen in Jira. Now, you need to configure this field so it allows your users to choose specific objects.

### Configure the default custom field

With your custom field created and associated with the right screens in Jira, you can now configure how it will behave.

- 1. Find your custom field on the Custom fields page, and selectConfigure next to it.
- 2. Select Edit Assets configuration.
- 3. Select which object schema the custom field should use.
- 4. Configure other settings. You can check what they mean in the table below.

Scope		
Object Schema	PROJ - ITSM	(i)
Filter Scope (AQL)	objectType in objectTypeAndChildren("Server Components")	(i)
Filter Issue Scope (AQL)	Server IN (\${Affected Server\${0}})	(j)
Filter Assign Scope (AQL)	Not configured	(i)
Make Filter Assign Strict		(i)
User Interaction		
Type of interaction	Select	(i)
Type of interaction	Checkbox / Radio button	0
Filter objects with attributes	Label × V	(j)
Object attributes on Issue view	Server × ID × Status × ·	(i)
Multiple		i
Option to add all objects		(i)
Jira Service Management		
Show object picker on customer		(i)
portals		
Force to show on Customer Issue details		()
Return to Jira Custom Field		

#### Scope

ing
-----

Object schema	Object schema that the custom field should use. If you want this field to refer to specific objects, make sure you point to the right schema.
Filter scope (AQL)	Define the scope of objects that are valid for this field. For example, if you want it to show only specific object types (Applications, but not Hardware), then you could use a query like this one:
	objecttype = Application
Filter issue scope	In the create/edit view, and in the customer portal, you can filter objects based on their attributes, in addition to the filter scope you configured above. This doesn't apply to JQL searches. Placeholders are supported, but only for "Select type".
(AQL)	Example
	This AQL will show objects that are owned by the group selected in the request:
	Server."Owner Group" = \${Group}
	This AQL will show objects that are owned by the reporter:
	Owner = currentReporter()
Filter assign	Allows you to automatically set objects to the custom field. This can be filtered on any issue field values with support for placeholders.
scope (AQL)	Example
	This AQL will show objects that are owned by the group selected in the request:
	Server."Owner Group" = \${Group}
	This AQL will show objects that are owned by the reporter:
	Owner = currentReporter()

For more info on creating your queries, see:

- AQL Assets Query Language
- Advanced: Placeholders

#### User interaction

Setting	Description
Type of interaction	<ul> <li>You can specify what type of interaction the custom field should use:</li> <li>Select</li> <li>Checkbox / Radio buttons</li> </ul>
Filter objects with attribute	You can specify the attributes to filter on, this field is mandatory and at least one has to be configured. Label is default.
Object attributes on issue view	You can specify which of the object's attributes will be displayed in a Jira issue. For example, you might specify only the most important attributes, so as to not clutter your issues, and users can view the rest after opening the object.
Multiple	You can specify if users can choose multiple values for this field.

Option to	If you allowed multiple values (above), you can add an option to select all values.
add all	
objects	

#### Service Desk

Setting	Description
Show object picker on customer portals	This is for Jira Service Management. You can select whether the object picker (which allows to browse and select objects) should be available on the customer portal.

#### Enable access for customers

When you add Assets custom fields to Jira Service Management, you need to enable them for customer portals. Without these steps, customers won't be able to access these fields. Learn more about enabling Assets custom fields on customer portals

# **Referenced Assets custom field**

A referenced Assets custom field allows you to specify a parent custom field and then shows objects that have references to or from the object chosen in the parent field.

### Example

Parent field: Affected server	Reference	Referenced field: Affected part
Biggest server in the server room	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz
	Network interface	Apc Network Management Card 2
	Memory	32GB DDR4-2400 ECC REG DIMM

The objects available in your referenced custom field will change depending on what the user has chosen in the parent custom field.

# Creating a referenced custom field

To create a referenced custom field:

- 1. Log in as the Jira administrator.
- 2. Go to Administration > Issues > Custom fields.
- 3. SelectAdd custom field, and selectAdvanced.
- 4. Search for Assets referenced object, and select either the single- or multi-select field.
- 5. Enter a name and description for your field.
- 6. Associate the custom field with desired screens in Jira.

# Configuring a referenced custom field

With your custom field created and associated with the right screens in Jira, you can now configure how it will behave.

- 1. Find your custom field on the Custom fields page, and select **Configure**next to it.
- 2. SelectEdit Assets configuration.
- 3. Select which object schema the custom field should use.
- 4. Configure other settings. You can check what they mean in the table below.

# Configure Assets Custom Field - Affected Server (customfield\_10200)

Scope		
Parent Custom Field	Affected Server	i
Reference direction	Outbound references	(i)
Reference type	Reference	<u>(</u> )
Restrict to User related objects		i
Restrict to Project related objects		i
Additional Filter Scope (AQL)	Order By Label	i
Filter Issue Scope (AQL)	Not configured	(i)
User Interaction		
Filter objects with attributes	Label × V	i
Object attributes on Issue view	Version ×	<b>i</b>
Option to add all objects		i
Jira Service Management		
Show object picker on customer portals		(j)
Force to show on Customer Issue details		(j)
Return to Jira Custom Field		

Setting	Description
Scope	
Parent custom field	Select the parent custom field. Your referenced custom field will return objects based on what was chosen in the parent custom field.
Reference direction	<ul> <li>Select the direction of the references:</li> <li>Outbound references: All references that exist on the object chosen in the parent custom field. This would typically include all attributes of type Objects, which means references to other Assets objects.</li> <li>Inbound references: All references from other objects that go to the object chosen in the parent custom field.</li> <li>Reference type. You can choose any type that you have configured in Assets or leave it</li> </ul>
Reference type	blank to use all references.
Restrict to user related object	You can restrict this custom field to just show objects related to the Jira users filling in data for this field. You can additionally restrict it to a specific user by using AQL. For more info on creating your queries, see AQL - Assets Query Language.
Restrict to project related objects	You can restrict this custom field to just show objects related to a project where this field is used.

Additional filter scope (AQL)	You can filter objects on attributes to select only those that fit your needs. An example: Status = Active For more info on creating your queries, see AQL - Assets Query Language.
Filter issue scope (AQL)	In the create/edit view, and in the customer portal, you can filter objects based on their attributes, in addition to the filter scope you configured above. This doesn't apply to JQL searches. Placeholders are supported, but only for "Select type". Here's an example: "System Owner".User = currentReporter()
User interactio	For more info on creating your queries, see AQL - Assets Query Language.
Filter objects with attributes	You can specify the attributes to filter on, this field is mandatory and at least one has to be configured. Label is default.
Object attributes on issue view	You can specify which of the object's attributes will be displayed in a Jira issue. For example, you might specify only the most important attributes, so as to not clutter your issues, and users can view the rest after opening the object.
Jira Service Ma	anagement
Show object picker on customer portals	This is for Jira Service Management. You can choose whether the object picker (which allows to browse and select objects) should be available on the customer portal.
Force to show on Customer Issue details	This is for Jira Service Management. You can choose whether the custom field is visible in customer issue details, even if it's not a visible request field.

### Enabling access for customers

When you add Assets custom fields to Jira Service Management, you need to enable them for customer portals. Without these steps, customers won't be able to access these fields. Learn more about enabling Assets custom fields on customer portals

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# **Read-only Assets custom field**

The readonly custom field allows you to include information about objects in your issues, without being able to change this information, as it's read only.

### Example

An example is an employee off-boarding you can use this field to display the employee's current assets on the off-boarding issue, so you know what needs to be collected before they leave.

### Creating a read-only custom field

- 1. Log in as the Jira administrator.
- 2. Go to Administration > Issues > Custom fields.
- 3. Select Add custom field, and selectAdvanced.
- 4. Search forAssets readonly object, and select it.
- 5. Enter a name and description for your field.
- 6. Associate the custom field with desired screens in Jira.

### Configuring the read-only custom field

With your custom field created and associated with the right screens in Jira, you can now configure how it will behave.

- 1. Find your custom field on the Custom fields page, and select **Configure**next to it.
- 2. SelectEdit Assets configuration.
- 3. Select which object schema the custom field should use.
- 4. Configure other settings. You can check what they mean in the table below.

Configure Assets Custom Field - CPU (customfield_10202)				
Scope				
Object Schema	Resources	i		
Filter Scope (AQL)	objectType = "Computer"	(j)		
Filter Assign Scope (AQL)	Not configured	i		
User Interaction				
Object attributes on Issue view	Manufacturer × Display Size × •	i		
Return to Jira Custom Field				

Setting	Description					
Scope						
Object schema	Object schema that the custom field should use. If you want this field to refer to specific objects, make sure you point to the right schema.					
Filter scope (AQL)	This is the "core" scope for this field. Any searching in Jira (JQL) will apply to this AQL.					

Filter assign scope (AQL)	Allows you to automatically set objects to the custom field. This can be filtered on any issue field values with support for placeholders. //Assign objects depending on the reporter Location.Employee = currentReporter() //Can be specified like this as well due to support for place holders Location.Employee = \${reporter}
User interaction	
Object attributes on issue view	You can specify the attributes that should be shown on any object attached to an issue in the Jira issue view.

# Enabling access for customers

When you add Assets custom fields to Jira Service Management, you need to enable them for customer portals. Without these steps, customers won't be able to access these fields. Learn more about enabling Assets custom fields on customer portals

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# **Enabling Assets custom fields on customer portals**

When you add Assets custom fields to Jira Service Management, you need to enable them for customer portals. Without these steps, customers won't be able to use these fields.

Enable custom fields on customer portals

### Add custom field to your service project

- 1. Go to your service project.
- 2. Go to Project settings > Customer portal.
- 3. Select the request type to which you want to add your custom field.
- 4. Select Edit form, and switch to the Fields tab.
- 5. Select Add a field and select your field.

Add	a field	
	g available fields from the linked issue type: <b>Bug</b> n add fields to this issue type by editing the create screen for Select all	this project.
	Affected Server	
	Affected Plugin	
	Assignee	
	Description	
		Apply Cancel

#### Enable and show the custom field

Enable the custom field:

Hidden fields with preset values					
	Name	Preset value		Actions	
	Affected Server	Edit value	This field type cannot be shown - you must provide a preset value	Enable	Remove

Show the custom field:

Hido	len fields with preset values				
	Name	Preset value		Actions	
	Affected Server	Edit value	You must provide a value when a field is hidden.	Show	Remove

#### Enable access for customers

Once your custom field is enabled, you need to configure access on your object schema so that customers can select objects in your field:

- 1. Open your object schema in Assets.
- 2. At the top-right, select **Object schema > Configure**.
- *3.* Switch to the **Roles** tab.
- 4. In the Jira Service Management tooltip, select **Enable**.

-	e Asset [					
General	References	Statuses	Icons	Roles	Import	
(i)	he following role odify.	es have perr	nission t	o manage	e and viev	bject schema. Users can only view the object schema, Developers are able to create/ed
Roles				Us	ers	Groups
Object Sch	nema Managers					<i>ξ</i> <b>≧</b> jira-developers
Object Sch	iema Users					🔏 jira-users
Object Sch	ema Developers	3				🔏 jira-developers
(i) C	RA Service De bject Schema Enable		ssions for	r Service	Desk Cus	are <b>DISABLED</b>

# Adding Assets functions to workflows in Jira

Assets includes several post functions, conditions and validators, and Groovy scripts that let you automate the execution of actions. By adding to workflows in Jira, you can trigger actions on your objects when an issue transitions through a workflow. These actions include updating an asset, sending a notification, or running a script.

For instance, when an issue is created requesting the onboarding of an employee, you can assign necessary assets to the new user including laptop, cell phone and cell phone subscription.

# Get started with Assets functions

- Conditions and validators
- Post functions
- Groovy scripts

# **Conditions and validators**

Conditions and validators allow you to add certain requirements on workflow transitions to make sure that your request can be transitioned only if these requirements are met. Insight introduces conditions and validators that are related to object attributes (for example, you'd allow a change request for a server only if it's not in production).

To view available conditions and validators:

- 1. Open a workflow that you'd like to add the conditions or validators to.
- 2. Select a transition. Conditions and validators are added to a transition rather than a workflow step.
- 3. Select **Conditions** or **Validators**, then select**Add**.
- 4. Select Assets condition or Assets validator.
- 5. Select one of the available options. Learn more about them in the table below.

# Available options

Here are the Assets conditions or validators that you can use:

Name	Туре	Description
Validate on object attributes	Condi tion Valida tor	<ul> <li>Allows to transition a request only if the related object's attributes meet this condition/validator's criteria. For example:</li> <li>Allow change request only if the target server has enough licenses available</li> <li>Allow change request only if the target server is not in production</li> <li>Allow holiday request only if the user has enough remaining vacation days</li> <li>Allow specific hardware request to be approved only if there's enough hardware models available</li> <li>Allow only specific requests on server that have a sufficient SLA level</li> </ul>
		You'd build your queries here using AQL - Assets Query Language.
Run a Groovy script	Condi tion Valida tor	Allows you to run a groovy script within the conditions/validator, which can be useful when you need some specific requirements met. For more info about Groovy scripts and examples, see Groovy scripts.

# **Post functions**

Adding post functions to your Jira workflows allow you to trigger actions against your objects when an issue is transitioned through the workflow. Here you can find available post functions for Assets.

To view available conditions and validators:

- 1. Open a workflow that you'd like to add the post functions to.
- 2. Select a transition. Post functions are added to a transition rather than a workflow step.
- 3. Select **Post-functions**, then select**Add**.
- 4. SelectAssets Post-function.
- 5. Select one of the available options. Learn more about them in the table below.

#### Available options

Here you can find the available post functions.

The selected object will be added, removed, or set to the corresponding attribute of the target object.

Name	Description
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.
Source custom field	Specify the custom field where objects are selected and to be added, removed, or set.
Change type	Specify the change type.
Target custom field	Specify the custom field where objects should be changed.

The selected user custom field will be used to find Assets objects that are associated with that user.

Name	Description			
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.			
Source custom field	Specify the custom field where information (email addresses or Jira users) can be found.			
Target custom field	Specify the custom field where objects should be assigned.			
Assets object type attribute name	Optional object type attribute to filter objects on.			

Select an object attribute value of a selected object and set it to another target custom field. Supported fields are Jira Text fields, Jira user fields, Jira group fields and Assets custom fields (not reference fields).

Name	Description
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.
Source custom field	Specify the Assets custom field from where objects attribute should be fetched.
Assets object type attribute name	Specify the name of the object type attribute where to fetch the value.

Target custom field	Specify the custom field where object attribute should be stored (reference
_	fields can't be selected).

Select an Assets object and specify the attribute the assignee will be fetched from.

Name	Description		
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.		
Source custom field	Specify the Assets custom field from where objects attribute should be fetched.		
Assets object type attribute name	Specify the name of the object type attribute the user will be fetched from. Any type except "User" or "Default / Email" will be ignored.		

Select an Assets object and specify the "User" or "Default / Email" attribute to which an email will be sent.

Name	Description		
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.		
Source custom field	Specify the Assets custom field from where objects attribute should be fetched.		
Assets object type attribute name	Specify the name of the object type attribute the user will be fetched from. Any type except "User" or "Default / Email" will be ignored.		
Email subject	Specify the email subject. Issue placeholders are supported.		
Email message	Specify the email message. Issue placeholders are supported.		

Increase or decrease an object attribute value (of type Integer) by a set amount.

Name	Description	
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.	
Source custom field	Specify the Assets custom field from where objects attribute should be fetched.	
Assets object type attribute name	Specify the name of the object type attribute the user will be fetched from. Any type except "User" or "Default / Email" will be ignored.	
Change type	Specify the change type: Increase or Decrease.	
Change value	Specify the change value. Anything except a number will be set to default (1).	

Selected objects will have their specified attribute set to the predetermined value.

Name	Description	
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.	
Source custom field	Specify the Assets custom field from where objects attribute should be fetched.	

Assets object type attribute name	Specify the name of the object type attribute where to set the value.
Change value	Specify the value to set. Any value not validated to the attribute will be ignored. Issue placeholders are supported. Leaving this field empty will set an empty value.

Write a Groovy script when you have some specific requirements that the predefined Assets post functions can't handle. About parameters into the Groovy engine, you have all the parameters available as in a normal post function. The most common one is "issue" where you may query as you like. Check out Assets Groovy script examples.

Name	Description
Groovy script	Enter your Groovy code.

Select an Assets object schema, object type, and configure the attributes to be populated from a Jira Issue.

▲ The value of the Issue field mapped to an object attribute must be data format compatible, otherwise Assets won't be able to create a new object. An example of a mapping that will fail: A Jira URL picker map ped to an object attribute of typeInteger.

Name	Description
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.
Assign to issue	The newly created object isn't automatically linked to the issue. To assign it to the issue, select the custom field on the issue to contain the reference.
Always create	If selected, Assets will create the object even if mandatory object attributes haven't been mapped correctly.
Object schema	Specify the object schema that contains the object type of interest.
Object type	Specify the object type that corresponds to the type of object that should be created.
Attributes/ Issue fields	Once the object type is selected, the list of attributes will be listed, allowing a mapping against an Issue field.

Supported Jira issue fields:

Field	Jira type	Object type attribute type	Expected object type attribute value
Affected version (s)	Version (s)	<ul><li>Version</li><li>Numeric</li><li>Other</li></ul>	<ul> <li>Jira Version(s)</li> <li>The Version ID(s)</li> <li>Jira Version name(s)</li> </ul>
Assignee	User	<ul><li>User</li><li>Email</li><li>Other</li></ul>	<ul> <li>Jira User</li> <li>Jira User email</li> <li>Jira User display name</li> </ul>

Description	Text	<ul><li>Text area</li><li>Other</li></ul>	<ul><li>Description in Wiki format</li><li>Description</li></ul>
Due date	Date	<ul><li>Date</li><li>Date time</li><li>Other</li></ul>	<ul> <li>Date</li> <li>Date time</li> <li>System/User locale format of Date</li> </ul>
Fix version(s)	Version (s)	<ul><li>Version</li><li>Numeric</li><li>Other</li></ul>	<ul> <li>Jira Version(s)</li> <li>Jira Version ID(s)</li> <li>Jira Version name(s)</li> </ul>
Issue type	Issue type	<ul><li>Numeric</li><li>Other</li></ul>	<ul><li>Issue type ID</li><li>Issue type name</li></ul>
Key (issue)	Text	• Any	The Issue key
Labels	Label(s)	• Any	<ul> <li>The label(s) value(s)</li> </ul>
Priority	Priority	<ul><li>Numeric</li><li>Other</li></ul>	<ul><li> Priority ID</li><li> Priority name</li></ul>
Project	Project	<ul><li> Project</li><li> Numeric</li><li> Other</li></ul>	<ul> <li>Jira Project</li> <li>Jira Project ID</li> <li>Jira Project name</li> </ul>
Reporter	User	<ul><li>User</li><li>Email</li><li>Other</li></ul>	<ul> <li>Jira User</li> <li>Jira User email</li> <li>Jira User display name</li> </ul>
Resolution	Resolution	<ul><li>Date</li><li>Date time</li><li>Other</li></ul>	<ul> <li>Resolution Date</li> <li>Resolution Date time</li> <li>Resolution name</li> </ul>
Resolved	Date	<ul><li>Date</li><li>Date time</li><li>Other</li></ul>	<ul> <li>Date</li> <li>Date time</li> <li>System/User locale format of Date</li> </ul>
Status (Issue)	Status	• Any	<ul> <li>Status name</li> </ul>
Summary	Text	• Any	The summary

customfield_xxxxx	Undefined	• Any	The value of the custom field.
-------------------	-----------	-------	--------------------------------

Make sure that when using custom fields, the custom field value is possible to set to the target attribute. Otherwise, it will be discarded.

Assign objects to custom fields depending on a configured AQL query. Any issue value is available as place holders. Use the common field definitions for Jira fields. The AQL query will run upon the schema which the Assets custom field belongs.

Name	Description
Condition	Specify the Groovy code to use as condition for this post function to execute. Condition ignored on empty value.
AQL	Specify the AQL to filter the objects to set on the specified custom field in next configuration. The AQL supports placeholders from any issue field.
Target custom field	Specify the Assets custom field that the filtered objects should be attached. (Referenced Assets Custom fields aren't supported)

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# **Groovy scripts**

You can run Groovy scripts both in conditions and validators and post functions. They give you more power and flexibility, but are recommended for advanced users.

## Good to know

Each Groovy script has to be whitelisted. To add Groovy scripts to the allowlist:

- 1. Go to Administration **O** > Manage apps > Assets Allowlist.
- 2. Select Edit settings.
- 3. Enter the filename and the full path to the script like in the example below:

Allowlist Configuration Here is where you configur	e general allowlist configuration for Assets
Automation Allowlisted groovy scripts:	/Users/jira/jira-home/atlassian-jira-servicedesk-4.20.0/scripts/Move Object to Archive.groovy
Edit Settings	

4. SelectSave.

Ensure that the directory and the subdirectories where your Groovy script is located are readable by all users and executable by the user running Jira. For example:

```
=$ ls -al ~/Users/jira/jira-home/atlassian-jira-servicedesk-4.20.0/scripts
total 8
drwxr-x--- 3 jira staff 96 Nov 24 21:47 .
drwxr-xr-x 21 jira staff 672 Dec 1 15:48 ..
-rw-r--r-- 1 jira staff 2421 Nov 24 21:47 Move Object to Archive.groovy
```

### Variables

When adding a Groovy script, the Assets workflow functions has the following variables pre-defined, so you can use them in your scripts.

Variable	Description
issue	The issue to be transitioned.
originallssue	The original issue. You can check conditions, like if the assignee has changed by: issue.assignee != originalIssue.assignee
currentUser	The current Jira user. You can check if the reporter is the current user by:

log	A log framework. You can log to atlassian-jira.log by:
	<pre>log.warn("This is a warning!");</pre>

# Examples

If you're looking for some inspiration and examples, see Groovy script examples.

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# Adding approvers from Assets to requests in Jira

(i) You need to have a Data Center license to use this feature.

Jira Service Management allows you to require approvals for a workflow step. This means that a request cant move from one status to another until its approved by the right people. In Assets, the right people are the owners of your assets or groups responsible for their maintenance. You can now add them as approvers when a request is raised against the asset they own or have relations to. The approvers will change dynamically based on the assets selected in your requests.

### Before you begin

To add approvers from Assets, youll need the following items:

- Attribute of type User or Group added to an object type. If you select groups, keep them rather small as bigger groups will affect performance.
- One of the Assets object custom fields mapped to your objects in Assets. Supported types are:
  - Assets objects
  - Assets object (single) (deprecated)
  - Assets object (multiple) (deprecated)

#### If you dont have them already, follow these steps:

When you add the User/Group attribute to your object type, you can then fill it in for the underlying objects by choosing a specific user or group. These people will have relations to your objects and can be assigned as approvers. For more info on attributes, see Adding attributes to object types.

To add an attribute to your object type:

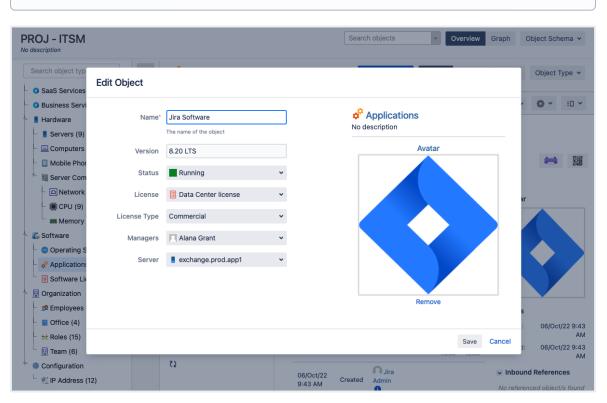
1. In Assets, select an object type, and switch to the **Attributes** tab.

ROJ - ITSM							Search objects	Y Ov	erview Graph Ol	oject Schema 👻
description										
Search object types Q	~	1		plicati			Create Object	Objects /	Attributes Graph	Object Type 🐱
<ul> <li>SaaS Services</li> </ul>	ŧ.	\$	No a	lescriptio	n					
<ul> <li>Business Services (5)</li> </ul>	× .		Id		Name	Description	Туре	Type Value	Additional Valu	ıe
Hardware	<u>2</u> ۵		37		Key		Default	Text		
<ul> <li>Bervers (9)</li> </ul>	0		38	•	Name	The name of the object	Default	Text		¢٠
- 📃 Computers (7)			39		Created		Default	DateTime		
Mobile Phones (6)			40		Updated		Default	DateTime		
* 📓 Server Components (31)			112		Version		Default	Text		ð -
<ul> <li>Network Interface (8)</li> </ul>					Veraion					
- 🏾 CPU (9)			113		Status		Status	IN SERVICE LICENSED		ð -
- Memory (14)					Status			RUNNING		
C Software								Software	A	
<ul> <li>Operating System (5)</li> </ul>			114		License		Object	Licenses	reference	SP.≚
Applications (6)			115		License Type		Default	Select		¢~
<ul> <li>Boftware Licenses (4)</li> <li>Organization</li> </ul>			481		Managers		User		SHOW ON PROFILE	ð~
Employees (5)									A	
<ul> <li>Office (4)</li> </ul>			482		Server		Object	Servers	reference	\$ ×
* Boles (15)							Default 🗸	Text	~	Add
Team (6)										_
<ul> <li>Gonfiguration</li> </ul>									Add p	arent attributes
Econigatation I P Address (12)										

2. Add an attribute of type User or Group. In the following example, we added a User attribute well assign the right user to this object in the next step.

114	License	Object	Software Licenses	A reference	¢ ×
115	License Type	Default	Select		\$\$ ~
482	Server	Object	Servers	A reference	<b>⇔</b> ~
481	Managers	User		SHOW ON PROFILE	<b>\$</b> ~
		Default 🗸	Text	~	Add
				Add	parent attributes

- *3.* You can configure extra details for each of your attributes by selecting the cog icon on the right. One of the useful options is **cardinality** it will let you select how many users can be selected for a field.
- 4. Switch to the **Objects** tab, edit an object, and assign a user or group to the attribute you added.



If you select groups, keep them rather small as bigger groups will affect performance we need to search through every user in the group.

An Assets object field works like a link between Assets and your projects in Jira. The field is configured differently than Jira custom fields, but when it comes to adding it to Jira screens, it behaves like a regular custom field. You will select this field, together with an attribute, when creating an approval step. For more info on the Assets objects field, see Default Assets custom field.

To create the Assets object field:

- 1. In Jira, go to Administration > Custom fields, and create a new custom field.
- 2. Select the type as Assets objects. The object fields marked as deprecated are also supported.
- 3. Select the name, applicable projects and issue types.
- 4. Associate the custom field with the screen that are used by the workflow youre planning to add the approval to. Typically, these would be the *Create* and *Edit* screens, related to the issue type used by your workflow.

To link the Assets object field to your projects and objects:

- 1. On the Custom field page, find the custom field, and select the more options menu > **Configure**.
- 2. Select Edit Assets configuration. Youll now see configuration specific to this field.

3. Select the object schema in which you store your assets. This option should be enough to use the field for the approvals. If youd like to configure more, see the docs linked above.

Configure Assets Custo	om Field - Affected object (customfield_10203)	
Scope		
Object Schema	Resources	i
Filter Scope (AQL)	Not configured	i
Filter Issue Scope (AQL)	Not configured	i
Filter Assign Scope (AQL)	Not configured	i
Make Filter Assign Strict		i
User Interaction		
Type of interaction	Select Checkbox / Radio button	(j)
Filter objects with attributes	Label × v	(j)
Object attributes on Issue view	~	i
Multiple		i
Option to add all objects		i
Jira Service Management		
Show object picker on customer portals		(j)
Force to show on Customer Issue details		i
Return to Jira Custom Field		

### Adding, configuring, and viewing your approvers

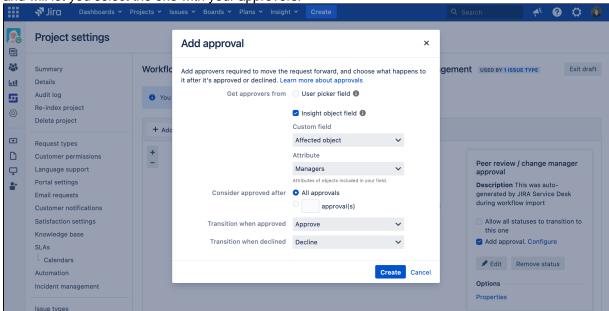
With the attributes and the custom field ready, you can now configure the approval step and add approvers from Assets to your request.

#### 1. Add the approval step to your workflow

To add the approval step to your workflow:

- 1. Edit the workflow to which you want to add the approval.
- 2. Select a status, and selectAdd approval.

3. Select **Assets object field** and selectyour custom field. Well check this field for any valid attributes and will let you select the one with your approvers.



- 4. Select how many approvals are required and which transition your request should use when its approved or declined.
- 5. Select**Create** to add the approval.

#### 2. Enable the Assets object/s field on the customer portal

Approvers change based on the object selected in your request, but someone needs to actually select an object. In this step, youll let customers select objects on the customer portal. If you skip it, your agents can still select objects in the agent view.

To enable the custom field on the customer portal:

- 1. In your project, go to **Project settings** > **Request types**.
- 2. Select the request type.
- 3. If your field isnt in Visible fields already, selectAdd a field, and add it.

#### 3. Raise a request and view approvers

When you raise a request and select an object in it, approvers will be added automatically when the request reaches your approval step.

To raise a request:

1. Open your customer portal and raise a request.

2. The Assets objects field should let you select one of your objects from Assets.

Help center / ITSM Modify a system Raise this request on behalf of Friendly Robot	
Summary We need to upgrade Jira to the latest LTS	
Affected object (optional)	
Powered by 👉 Jira Service Management	

To view approvers for the request:

- 1. Transition the request to the workflow status with your approval step.
- 2. Approvers related to the selected object should be added automatically. They will also receive an email notification asking them to approve or decline this request.

20.	Help center / ITSM / SM-4 We need to upgrade Jira to the latest LTS		
	Your approval	<ul> <li>PEER REVIEW / CHANGE MANA</li> <li>Don't notify me</li> </ul>	
3000000	Approve Decline	< Share	274
	Comment on this request	Shared with	
	Comment on this request	Creator	
	Activity	Approvals	
	Request requires approval. 1 approval needed. Just now LATEST	1 approval needed PEER REVIEW / CHANGE MANAGER APPROVAL	
	Details	MANAGER APPROVAL	
	Affected object Sira Software		

# Importing and exporting object schemas

Importing and exporting schemas can be useful if you're using other instances of Assets and want to move schemas between them, or if you exported a schema in the past, and now's the time to bring it back. You can choose to export only schema structure (including object types and their attributes) or also include objects.

## Importing an object schema

To import an existing Assets object schema:

- 1. In the top navigation bar, select **Assets > Configure**.
- 2. Switch to the **Import/Export** tab.
- 3. Fill in the schema details. You can find descriptions of available fields in the table below.
- 4. Once you're ready, select **Import**.

After importing an object schema, you'll need to reindex Assets (not Jira). You can do it by going to **Administ** ration > Manage apps > Indexing Assets.

Referen	ces Status	ses Icons	Roles Inde	x Import / Ex	xport	
<b>(</b> )	You can imp	ort a new obje	ct schema fron	the server.		
	File name <sup>*</sup>	The file will be i	mported from: /v	r/atlassian/appl	ication-data/jira/import/insight	
	Name*					
	Key <sup>*</sup>	Max. 30 charac				
I	Description				10	
Imp	port objects	Max. 80 charac Yes No	ters.			
	Include	<ul> <li>Attachmer</li> <li>Object Avage</li> </ul>				
	Password				Show password	
		Import C	ancel			
Field	Description	on			Re	equired

File name	List of previously exported object schemas that are available for import. This includes all schemas that are in the import directory specified below this field. If your schema is not on the list, copy it to this directory.	Yes
Name	Name of the object schema that will be created by the import. The name must be unique.	Yes
Кеу	Key of the object schema that will be created by the import. The key must be unique.	Yes
Description	Description of your schema.	No
Import objects	<ul> <li>Choose whether you'd like to import objects that belong to the schema. Here are some details:</li> <li>Yes (default): Objects will be imported.</li> <li>No: Only object schema structure will be imported. This includes object types, object type attributes, etc., but not objects themselves.</li> </ul>	Yes
Include	Choose whether to include attachments and avatars of objects.	No
Password	If the file chosen for the import is protected by a password, then that password must be provided in order to perform the import.	No

# Exporting an object schema

To export an object schema:

- 1. In the top navigation bar, selectAssets > Configure.
- 2. Switch to the Import/Export tab.
- 3. Fill in the schema details. You can find descriptions of available fields in the table below.
- 4. Select Export.

г

References	Statuses Icons	Roles	Index	Import /	Export
(i) You ca	an export an existi	ng object so	chema to	a file on t	he server.
File r	iame*				
Object Sch					to. ation-data/jira/export/insight
Object Sci		schema wit	h objecte		
	-	schema wit	-		
Pass	word				□ Show password
	Export	Cancel			

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Field	Description
File name	File name for your exported schema. The file will be saved in the directory shown below this field.
Object schema	List of object schemas that can be exported.
Object schema with / without objects	Choose whether to export objects together with the schema, or only the schema structure (object types, object type attributes).
Password	If provided, the exported file will be protected by the password entered by the user. Later when importing this file, the same password must be provided in order to be able to perform the import.

# Assets REST API documentation

You can use Assets API to integrate and customize Assets to your needs. You can integrate with an external system to get the data about your assets or create your own post functions.

For Assets 8.10.13 or later and Jira Service Management 5.3 or later, see Assets REST API documentation.

For Insight 8.10.11 or earlier and Jira Service Management 5.2 or earlier, see Insight REST API documentation.

For other advanced information, also check Advanced usage guides.

# Advanced usage guides

If you're looking for advanced knowledge, including Assets app development, REST APIs and Java docs, see Ad vanced usage guides.

# **Upgrading Insight with Jira Service Management**

Insight - Asset Management is part of Jira Service Management Data Center, but its also available as a separ ate app on Atlassian Marketplace so people not ready to upgrade their instances can also get it. This page will help you understand which version of the Marketplace app corresponds to Jira Service Management, and will guide you through some upgrade steps if youre using this app.

### Versions

The built-in functionality and the Marketplace app are essentially the same. Heres how the apps version corresponds to Jira Service Management:

Jira Service Management	Insight - equivalent Marketplace app
4.18	8.8.0
4.17	8.7.9
4.16	8.7.4
4.15	8.6.13

There were some differences in issues resolved and release timeline in versions 4.15-4.17. Since version 4.18, the built-in functionality and the Marketplace app are aligned.

## Upgrading Insight with Jira Service Management

Whether you need to complete any pre-upgrade steps before upgrading Insight or Jira Service Management depends on the Insight version youre using, so lets start with checking that.

### Step 1: Check your Insight version

To check which Insight version youre using:

- 1. Go to Administration > Manage apps > Manage apps.
- 2. Find Insight and expand it to see the version.

- 🖬 Insight		
Insight - Asset Management is now part of	Jira Service Management Data Center.	
	and already have a license for this app, you can continue to the set of Jira Service Management cloud or Data Center to use	
You can learn how to configure, use, and	share this app by getting started below.	
Get started		
No screenshots available	Version: 9.0.11	<sup></sup> 222 of 227 modules enabled
	Vendor: Atlassian	
	App key: com.riadalabs.jira.plugins.ins ight	

If youre seeing Insight in versions 9.x, like on the image above, it means that youre using the built-in Insight functionality in Jira Service Management. You dont have to take any actions and can safely upgrade.

### Step 2: Complete the pre-upgrade steps

Look at the versions below and complete the steps required for your version.

#### Insight 8.4 or later

Youre good to go. Youre on one of the latest versions and there are no breaking changes.

#### Insight 8.x - 8.3

Complete these steps before upgrading: Preparing for Insight 8.4

#### Insight 7.x

- 1. Upgrade to the latest version of Insight 7.x, which is 7.1.4.
- 2. Upgrade to Insight 8.3.
- 3. Complete these steps: Preparing for Insight 8.4
- 4. Upgrade to the latest version of Insight or Jira Service Management, as described below.

### Step 3: Upgrade Insight or Jira Service Management

If you completed all the required steps, your app is ready to be upgraded.

- If youre looking to just upgrade the Marketplace app to the latest version, upgrade it in Administratio n > Manage apps > Manage apps.
- If youre upgrading Jira Service Management that has the Insight functionality built in, your app will be automatically upgraded.

### How to upgrade Insight to specific versions instead of the latest one

When you try to update the app in **Manage apps**, it will be updated to the latest version, which isnt a good idea if you need to upgrade through intermediary versions first.

To download and install a specific version:

- 1. Check the Version history tab on Marketplace.
- 2. Download your version.
- 3. In Jira, in Manage apps, click Upload app. Your version will be uploaded and installed.

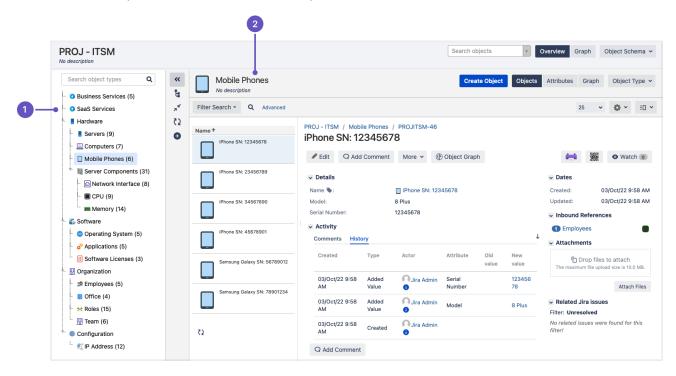
## Working with object schemas

An object schema is your actual CMDB. It's a collection of object types and their attributes, objects and references between them. It also includes your configuration items, such as roles, icons, statuses, and automation rules. Object schemas work like maps that hold all of it together. You can have many object schemas, and refer to objects inside them from your issues and requests.

### Have one, or many

For example, you might have an HR object schema that captures all relevant HR data that adds value to your HR projects. It can contain information about employees, workplaces, and business areas, as well as information about employee assets, such as keyboards, monitors, and laptops. These can be linked together, so when you click on an employee, you immediately see other objects with information about their office, personally-assigned laptop, or even keyboard.

Here's what a sample schema from the ITSM template looks like:



- 1. **Object types:** The list of all object types within a schema, organized in a tree structure.
- 2. **Objects:** The list of objects within the selected object type, and details about them. As you can see, although all these objects are different, they use the same information, like *Name*, *Model*, or *Serial Number*.

## Quick overview

Here's a video on object schemas if you'd like to get a quick overview:

## Get started with object schemas

Here's a list of pages that have all the info you need:

- Creating object schemas
- Configuring object schemas
- Configuring Assets automation rules
- Configuring print labels

# **Creating object schemas**

An object schema is a map on which you add various object types and then underlying objects. You need to have an object schema before you can create any object types and objects. Learn more about object schemas

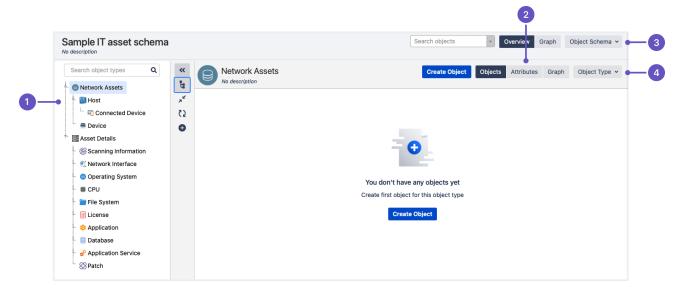
## Create an object schema

To create a new object schema:

- 1. In the top navigation bar, select Assets > Assets object schemas.
- 2. Select Create object schema.
- 3. Select **Empty object schema**. You can also select one of the schema templates that already come with a specific structure, including object types and attributes.
- 4. Give it a name, key, and description.
- 5. Set permissions for your schema, so your users can create object types and objects (see details below).

### Sample IT assets schema

Here's the view of an object schema, based on the sample IT assets schema, pre-filled with data.



- 1. **Object types:**List of object types in a schema.
- 2. **Object type view:**Switch between viewing object type's objects, attributes, or graph the visual representation of its references.
- 3. Object schema actions: Configuration options for the current object schema.
- 4. **Object schema actions:**Configuration options for the selected object type.

### Set permissions for your schema

Permissions let you choose roles that can view or edit your schema.

### Important

If you want your users to later work on object types and objects, they need to have at least theUserrole for the schema itself. Without this role, they won't be able to view or do anything with your schema.

To set schema permissions:

- 1. Open your schema.
- 2. At the top-right, select the **Object Schema** dropdown menu, and select **Configure**.

3. Switch to the Roles tab, and add users or groups to specific roles. For more info about permissions, see Configuring roles and permissions.

### Configure your schema

Object schemas have several configuration options that let you tailor it to your needs and make the future work easier for your users. For available options, see Configuring object schemas.

## **Object schema templates**

Assets comes with default templates for object schemas. They have some basic structure for the most common uses cases, so you can try them out for some inspiration.

Object schema template come with:

- Object type structure
- Attributes for object types
- References between object types

## Sample IT asset schema

Here's the default structure for the IT asset schema:

Search object types Q	** 1	Scan		nformation		Create Object	Objects Attribute	es Graph Ob	ject Typ
Network Assets	ية بلا	Id		Name	Description	Tune	Type Value	Additional Value	
Host					Description	Туре		Additional value	
- Connected Device	C2	503		Key		Default	Text		
Device	Ð	505		Created		Default	DateTime		
Asset Details		506		Updated		Default	DateTime		
Scanning Information		587	•	Scan Time		Default	Text		¢~
<ul> <li>         • • • • • • • • • • • • • • • • • • •</li></ul>		588		Network Interface		Object	Network Interface	Network	¢~
- 🏶 CPU		589		Used Credential ID		Default	Text		¢٠ ~
File System		590		Discovery Version		Default	Text		¢ ~
Application		591		Scanning Time Elapsed		Default	Float		¢~
🗆 🗐 Database		592		PreFix		Default	Text		¢~
Application Service		593		Object Hash		Default	Text		¢~
- 🛞 Patch						Default 🗸	Text 🗸		Add

## Sample HR asset schema

Here's the default structure for the HR asset schema:

Search object types Q	~~ te	Organi No descrip			Create Object	Objects Attribut	es Graph Object Type
	,¥	ld	Name	Description	Туре	Type Value	Additional Value
- 🧟 Employee	<b>2</b> 5	659	🛢 Кеу		Default	Text	
Mobile Subscription	0		Name	The name of the object	Default	Text	\$~
Business Area		661	Created		Default	DateTime	
Infrastructure		662	Updated		Default	DateTime	
- 📻 Keyboard - 📃 Laptop					Default 🗸	Text 🗸	Add
- F Phone							
- 🖵 Screen							
🖞 🕸 Manufacturer							

## Sample CRM asset schema

Here's the default structure for the CRM asset schema:

Search object types Q	**	0		tomer			Create Object	Objects Attribu	utes Graph Object	туре
2 Customer	te -		No des	scriptior	1					
Project	~ <sup>4</sup>		Id		Name	Description	Туре	Type Value	Additional Value	
E Contract	52		734		Key		Default	Text		
- 🖪 Contact	Đ		735	•	Name	The name of the object	Default	Text	4	¢ ~
Type of Contract			736		Created		Default	DateTime		
			737		Updated		Default	DateTime		
			754		Country		Default	Text		<b>0</b> ~
			755		Billing Address		Default	Textarea	-	¢ ~
			756		Visiting Address		Default	Textarea		<b>ö</b> - ~

# **Configuring object schemas**

You can configure your object schema to change permissions, roles, statuses, references, and more.

To configure your object schema:

- 1. Open your schema.
- 2. At the top-right, select the Object Schema dropdown menu, and select Configure.

ITS - ITSM No description		Search objects	-	Object Schema V
Search object types Q	* <sup>20</sup>			Copy Create
	بر 22 10	•		
		Empty Object Schema Create an object type to start adding objects		
		Create Object Type		

## Available configuration

Here's what you can do with your schema.

Tab	Description
General	In the <b>General</b> tab, you can change the schema name and description. You can also customize the following options:
	Shows a 'create object' icon next to the Assets custom field displayed on issues to allow users to create objects directly from issues (if they can't find their objects). Only available for users with at least the Assets developer role.
	Enable the possibility to create referenced objects when editing or creating new objects. Only available for users with at least the Assets developer role.
	If the previous option is enabled, then you can restrict the quick creation of referenced objects to validate all object attributes to respect data consistency.
	You can choose to publish events related to objects on the Assets activity stream.
	This option allows other schemas to select objects from this schema. You can select objects only from schemas that have this option enabled.
References	In the <b>References</b> tab, you can configure references that can be later used when linking objects to one another. When users choose to create a reference in their object, they'll see references that you specify here.
Statuses	In the <b>Statuses</b> tab, you can configure statuses that are displayed on objects. For example, you can have statuses like Running and Problem, and choose to change from one to another when an issue is reported against one of your objects.
lcons	In the <b>lcons</b> tab, you can check available icons to be used for object types and objects, and upload new icons.
Roles	In the <b>Roles</b> tab, you can check permissions for you scheme, and add users and groups to specific roles.

Import	In the <b>Import</b> tab, you can import data into your object schema. This is useful if you'd like to import a CSV files with your assets instead of creating objects manually. For more info, see Importing data into an object schema.
Automation	In the <b>Automation</b> tab, you can add automation rules for your schema. For more info, see Configuring Assets automation rules.
Label templates	Templates for print labels. For more info, see Configuring print labels.
Files	In the <b>Files</b> tab, you can view all files added to your object schema and check their usage. The list will show all files added to the schema itself or any object referenced in it. Those can be user avatars or a CSV file that you imported to your schema.

## **Related pages**

Have a look at these pages:

- Importing your dataWorking with object types

## **Configuring Assets automation rules**

You can create automation rules that automatically perform actions (for example, notify users) based on specific events (for example, object updated) for all objects, or only a group of objects in a schema.

## Before you begin

Make sure you have the right permissions:

- To configure automation rules, you need to have at least the Assets manager role for the schema.
- To run and execute automation rules, the user (either the logged-in user or the user that you select for running scheduled events) needs to have at least the Assets users role for the schema. If this user has a different role for the object types affected by the rule (object type's permissions take precedence over schema's permissions), then also grant them the Assets users role for these object types. This is only needed if a rule affects such object types, otherwise permissions are inherited from the schema.

For more info about permissions, seeConfiguring roles and permissions.

### Create a rule

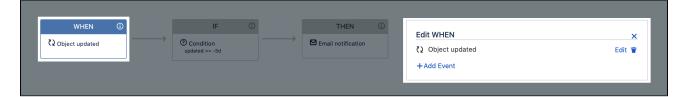
- 1. Open your schema, and select **Object schema > Configure**.
- 2. Switch to the **Automation** tab.
- 3. Create a rule.
- 4. Enter the rule's name and description.
- 5. Select each of the boxes (WHEN, IF, THEN). A panel will appear on the right allowing you to add an event, condition, and action. You can read more about them below.

Any changes to your rule will only be saved after you selectSave. If you've deleted something by mistake, you can selectCancel to revert these changes.

## Configure your rule

Configure your rule by specifying events (WHEN), conditions (IF), and actions (THEN).

## 1.Add events (WHEN)



- 1. Select the WHEN box.
- 2. On the right, selectAdd events.
- 3. Select the desired event, then selectAdd.

### Good to know

- You can add up to five events for a single rule.
- Instead of creating two or more rules with the same actions (for example, email notification), add two or more events to the same rule. It will be easier to maintain later.

### Event types

Event type	Description

User events	Most events, except theScheduled eventare triggered when a logged-in user performs an action on an object (object updated, attachment added, etc.) These events don't require any additional configuration.
Schedu led events	<ul> <li>Scheduled events aren't triggered by an action performed by a user. They run according to the specified cron expression (e.g. once a day, once an hour) and conditions.</li> <li>Here are the required parameters for scheduled events:</li> <li>1. Condition: This is an IQL (Assets Query Language) expression. When the scheduled rule is activated, all objects that match the condition will trigger individual actions.</li> <li>2. Cron expression: This determines when and how often the provided condition will try to match Assets objects. By default, the expression is set to "0 0 12 1/1 * ? *", that is: once a day at noon. Learn more about cron expressions</li> <li>3. Triggered rule will run as: You need to select a specific user here because scheduled events cant be triggered by a logged-in user. You can select the user on the top-right of the page.</li> </ul>

### 2. Add conditions (IF)

You can add a condition if you don't want the configured action to apply to all objects in your schema, but rather a specific set of objects.

WHEN () C) Object updated	IF () © Condition updated >= -5d	 THEN ①	I	Edit IF (*) updated >= -5d + Add Condition	× Edit 🗑
	()			+Add Condition	

- 1. Select the IF box.
- 2. On the right, selectAdd condition.
- 3. Enter an AQL statement and selectAdd.

### Good to know

- A condition (IF) always needs a THEN box. When you add another condition, you'll be able to edit its actions.
- You can configure up to three IF/THEN pairs.

### Example

- A rule is triggered by an object updated event.
- The rule has a condition: "name = Windows server".
- The rule has an email notification action.

The rule configuration in this example means that if a user updates an object whose exact name is Windows server, an email notification is automatically sent.

### 3. Add actions (THEN)



- 1. Select the THEN box.
- 2. On the right, selectAdd action.

- *3.* Select your action and fill in the details. Every action requires different information. For example, details needed for Create a Jira issue will differ from those needed to Execute a Groovy script.
- 4. SelectAdd.

### 🧭 Good to know

• You can have up to five actions for every THEN box.

#### Available actions

Here's a list of actions that you can select:

This action allows the rule to change the value of an object's attribute.

Set an attribute value of the Assets object affected by the event. Multiple values are separated by a comma (,).

Field	Single value example	Multiple values example
Attribute name	Status	Server
Value	Stopped	Server 1,Server2

This action allows the rule to create a Jira issue.

### Good to know

- A The issue type selected must be available for the chosen project, otherwise a Jira issue can't be created.
- If the custom field is populated, the chosen project must be configured to handle this object type, otherwise this field won't have any effect.

Action*	Create JIRA Issue
Project*	DevOps
Issue type*	✓ Task
Priority*	↑ Highest
Assignee	Automatic
Custom field	Maintenance Host
Summary*	Server \${label} stopped!
Description	Server details - name: \${label}, key: \${Key}, id: \${id}
Idle interval	
	The wait time before the action can execute again, once executed.

Fields that support placeholders	Syntax example	Result example
Summary	Server \${label} stopped!	Server \${exchange.prod.main1} stopped!
Description	Server details - name: \${label}, key: \${Key}, id: \${objectId}	Server details - name:exchange.prod. main1, key:WS-5969, id: 17400

This action allows the rule to send email notifications related to the event that was triggered.

Example: For the object updatedevent, an email will be sent showing the changes related to this object.

Note that for the **Recipients by attribute** option you need to select the object type in the rule's condition with attributes of the email, user, or group type.

Action*	Email notification
JIRA Recipients*	Fredrik Karbing [Riada] ×
External Recipients	
	A comma separated list of emails (a@c.com,b@c.com,).
Recipients by	
Attribute	Attribute(s) of type: Email, User or Group
Subject*	Server: \${label} is stopped.
Message*	Server: \${label} (\${Key}) has status: \${Status}
Idle interval	□ (ì
	The wait time before the action can execute again, once executed.

Fields that support placeholders	Example syntax	Example result
Subject	Server: \${label} is stopped.	Server:exchange.prod.main1is stopped.
Message	Server: \${label} (\${Key}) has status: \${Status}.	Server:exchange.prod.main1(WS-5969) has status: Stopped.

Groovy scripts need adequate permissions and must be whitelisted to be executed. Learn how to add Groovy scripts to the Whitelist

This action allows a triggered rule to execute a Groovy script.

Action*	Execute Groovy Script
File path*	/path/to/my/groovyscript.groovy
	Absolute file path, i.e: /Users/MyName/somefile.groovy
Idle interval	
	The wait time before the action can execute again, once executed.

### Data available to the Groovy script by our rule engine

Parameter	Description	JAVA class
object	The object that was directly involved in a user action (like updating an Assets object) or matched by a scheduled rule through AQL, with an"Execute Groovy Script" as an action	com.riadalabs.Jira. plugins.assets. services.model. ObjectBean
	object that was directly involved in a user action (for example, updating an object) or matched by a scheduled rule through AQL, with an "Execute Groovy Script" action.	
currentUser	The user who triggered the rule or a specific user chosen to run the rule.	com.atlassian.Jira. user.ApplicationUser
log	An instance of the Apache Log interface, for convenient logging in a script.	org.apache.commons. logging.Log
objectUpdateList	A list of object attributes that are affected in an object update event that includes an affected attribute in an object, as well as values added or removed for it.	List <com.riadalabs. jira.plugins.assets. services.model. ObjectUpdateBean&gt;</com.riadalabs. 

This action allows a triggered rule to make an HTTP request. It supports the standard HTTP methods: GET / POST / PUT / DELETE.

Action*	Http Request
Url <sup>*</sup>	http://company/service?id=\${id}&name=\${label}
User name	admin
Password	•••••
Http method*	GET \$
Idle interval	The wait time before the action can execute again, once executed.

Fields that support placeholders	Syntax example	Result example
Url	http://company/service? id=\${objectId}&name=\${label}	http://company/service? id=1405&name=exchange.prod.main1
Post Data (POST / PUT)	{ "name":"\${label}","key":"\${Key}"," id":"\${objectId}" }	{ name:exchange.prod.main1,key:WS- 76100,id:76100 }

### 4. Add more conditions and actions

A rule can only consist of one event (WHEN), but it can have up to three pairs of conditions and actions (IF /THEN). This allows you to add more conditions and actions, if the first ones aren't matched.

WHEN () C Object updated	IF () Ocndition updated >= -5d		THEN G	Edit ELSE IF + Add Condition
	ELSE IF Any objects	>	THEN	
	ADD ELSE / THEN			

- 1. Select the ELSE IF / THEN box.
- 2. Add actions, and conditions if needed.
- 3. SelectSave.

### More automation

Automation rules are related to a specific object scheme, but there's way more automation that you can add. Your Jira admin can add conditions and validators, as well as post-functions, to Jira workflows that will make issues affect objects while they're being transitioned through workflows. For more info, see Adding Assets functions to Jira workflows.

# **Configuring print labels**

You need to create at least one print labels template before you can print labels for your objects. Templates are created for each object scheme separately.

To create a template:

- 1. Open your object schema.
- 2. At the top-right, select **Object schema > Configure**.
- 3. Switch to the Label templates tab.

## Template configuration

Here's the explanation for fields that you see when creating a new template or editing an existing one.

### **Responsive height**

You can select this option to give your template responsive height, allowing it to expand to fit the content.

### Border

You can select this option to add a border to your template. Here's an example of a template with and without a border:

### Template

This editors allows you to create a customized template. It supports placeholders and images, and comes with some styling options. When you create a new template, the editor will already include a default template.



**Source** gives you the possibility to edit the html source for the template.

You can use the **Insert placeholders** drop-down to add any of the attributes available for this object schema. One of the first attributes is "Attribute list" when selected, it will add an additional configuration when printing a template, where you can select the attributes you want.

### Some things to watch out for

- Some attributes may be specific to certain object types. Using the same template for other object types will render the text as "No value" on the printed labels.
- Additionally, if you have a language setting enabled for Assets, for example Spanish, the "No value" text will be printed as "Sin valor". Well, at least everybody will get it.

#### Adding images

You can also add images to your templates. This can be pretty much anything you need in your template from QR codes to logos or icons. We've added some default images for you, so feel free to play around.

### Printing labels and QR codes

Once you're ready with the template, you can try printing some labels. For more info, see Printing labels and QR codes.

# Working with object types

An object type groups objects that use the same kind of information, conveyed through their common attributes. Rather than a single PC, your object types would be Computers, Hardware, Software, Employees, and so on. You can create as many different object types as you like, and then group your various objects within. Object types can be whatever you want them to be as Assets is very open and flexible.

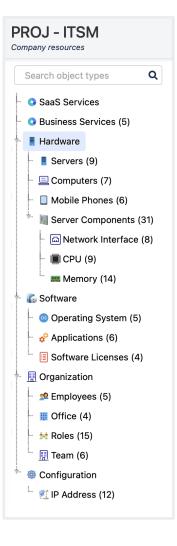
Common object types include:

- Business services
- Hosts
- Laptops
- Software

But they don't have to be IT assets. For example, many people add other useful information, such as:

- Vendors
- Locations
- Employees
- Business priority

You can organize object types in the hierarchy tree in a way that makes sense. This tree is mainly for navigation and readability as you can have empty object types here (e.g. Hardware in the image on the right).



Define your object types with attributes

Attributes is what defines your object types (and underlying objects). They work like fields to which you add dataJira's issue fields would be the best comparison. You'd choose attributes for your object types, and then the same attributes need to be filled in for underlying objects, whenever someone creates them. You can have as many attributes as you need, and they also come in different shapes and sizes: text, dates, references to other objects, statuses, and so on.

Here's a sample object type with its attributes:

				2		(	3			
PROJ - ITSM Company resources							Search object	v vervie	ew Graph O	bject Schema 🗸
Search object types Q	«	Ser No de	Vers escription				Create 0	Object Objects Attri	butes Graph	Object Type 👻
<ul> <li>Business Services (5)</li> </ul>	,×	Id		Name	Description	1	ype	Type Value	Additional Valu	e
Hardware	\$2	13		Key			efault	Text		
Servers (9)	0	14	•=	Name	The name of the object		efault	Text		ō~
- 📃 Computers (7)		 15		Created	,	ſ	efault	DateTime		-
- 🔲 Mobile Phones (6)		16	-	Updated			efault	DateTime		
* Market Server Components (31) I Server Components (31) I Server Components (31)		82	8	Status		5	itatus	INCIDENT IN PROGRESS RUNNING STOPPED		<u> </u>
EPU (9)		83	8	Environment		1	efault	Select		¢ ~
<ul> <li>Memory (14)</li> <li>Software</li> <li>Operating System (5)</li> </ul>		84	8	Operating System		0	Dbject	Operating System	Operating System	\$ v
Applications (6)		85	8	IP Address		(	bject	鑬 IP Address	IP Address	¢٠
· 🔝 Organization		86	8	Server Owner		(	bject	2 Employees	Employee	Q ×
🗠 🚅 Employees (5)		87		Last Serviced		c	efault	Date		Q ×
		420	8	CPU		(	Dbject	EPU	A reference	٥~
🔣 Team (6)							Default 🗸	Text 🗸		Add
<ul> <li>Configuration</li> <li>IP Address (12)</li> </ul>									Add p	arent attributes

- 1. Object types: List of object types within a schema, with Server selected.
- 2. Attributes: List of attributes configured for this specific object type.
- 3. Type: Type of attributes, here you can see the default ones or object (references to other objects)
- 4. **Type and additional value:** Extra values that depend on the attribute type. Note statuses these will change through automation when an incident is raised against one of the underlying servers.

### Quick overview

Here's a video on object types if you'd like to get a quick overview:

## Get started with object types

Here's a list of pages that have all the info you need:

- Creating object types
- Adding attributes to object types
- Configuring inheritance of attributes
- Customizing the object view layout

# **Creating object types**

Object types work like containers, or categories. Depending on your structure, they can group other object types or just objects. For example, you can have an object type Hardware that groups child object types Server, Computer, and Mobile phones. Each of these can then group specific objects. Learn more about object types

## Create an object type

To create an object type:

- 1. Open your object schema.
- 2. At the top-right, select **Object type > Create** (you can also select the plus sign in the vertical menu)
- 3. Choose the name, icon, and description for your object type.
- 4. Select the object type's parent. If you select None, the object type will be at the top of your asset tree.

### Example object type

Here's the view of an object type, based on the sample IT assets schema:

PROJ - ITSM Company resources						Search o	bjects v Overv	ie v Graph Object Schema
Search object types Q	*		Servers	,		Crea	ate Object Objects Attr	ributes Graph Object Type
<ul> <li>SaaS Services</li> <li>Business Services (5)</li> </ul>	ч. "К	Id		Name	Description	Туре	Type Value	Additional Value
Hardware	25	13		Key		Default	Text	
- E Servers (9)	•	14		Name	The name of the object	Default	Text	¢~
- 📃 Computers (7)		15		Created		Default	DateTime	
Mobile Phones (6)		16	-	Updated		Default	DateTime	
* Market Server Components (31) • Image: Server Components (31) • Image: Server Components (31)		82	2	Status		Status	INCIDENT IN PROGRESS RUNNING STOPPED	¢ ~
EPU (9)		83	3 8	Environment		Default	Select	\$ ~
Software		84	. 8	Operating System		Object	Operating System	Operating ₿ ✓ System
Applications (6)		85	5 8	IP Address		Object	IP Address	IP Address
• 🔝 Organization		86	5 8	Server Owner		Object	2 Employees	Employee 🔅 🗸
- 🧟 Employees (5)		87		Last Serviced		Default	Date	¢ ~
- Ⅲ Office (4)		42	20	CPU		Object	CPU	A 🎝 🕹 🗸
🔃 🔃 Team (6)						Default	✔ Text ✔	Add

- 1. **Object types:**List of object types in a schema.
- 2. **Object type view:**Switch between viewing object type's objects, attributes, or graph the visual representation of its references.
- 3. **Object type actions:**Configuration options for the current object type.
- 4. Attributes: List of object type's attributes. These attributes will apply to all child objects.

## Next steps

Object types need attributes that define them, so let's add some:

Adding attributes to object types

# Adding attributes to object types

Attributes are fields that let you add important information to your objectsit can really be anything that you need. You specify attributes for an object type, and then they're passed on to all child objects, requiring users to fill them in. An object type comes with a default set of attributes.

To add attributes to an object:

- 1. Select your object type.
- 2. SelectAttributes to switch to the right view.
- 3. Add an attribute by entering its name, type, and values. You can read more about them below.

Search object types Q	« 4	No desi	ware		C	reate Object Objects	Attributes Graph Object
<ul> <li>SaaS Services</li> <li>Business Services (5)</li> </ul>	ча. "К	Id	Name	Description	Туре	Type Value	Additional Value
Hardware	52	9	S Key		Default	Text	
- 📕 Servers (9)	•	10	Name	The name of the object	Default	Text	0
E Computers (7)		11	Created		Default	DateTime	
Mobile Phones (6)		12	Updated		Default	DateTime	
🐃 🍇 Server Components (31)			Owner		User	~	✓ Show on ✓ A

## Attribute types

You can select the attribute type, this setting determines how the attribute value should be managed (and if its allowed).

Attribute type	Type value	Additional value	Description
Default	Text	-	Data type with text representation, often used to show normal text. Max 450 characters.
	Boolean	-	Data type with only two possible values: true or false.
	Integer	-	Commonly known as a "whole number", is anumberthat can be written without afractional component. For example, 21, 4, and2048 are integers. This Attributes supports the <b>Long Integer</b> and will allow numbers that range from -2,147,483,648 to +2,147,483,647
	Float	-	Data type representing numbers with decimals.
	Date	-	Data type representing a Date field.
	DateTi me	-	Data type representing a Date and Time field.
	URL	-	Data type representing an URL field. May be used for URL Ping service that pings the address every 5 minutes from the server side. Watch object to get email notifications on URL Ping Up /Down.
	Email	-	Data type representing an email field.

	Textar ea	-	Data type with text representation, often used when showing large text. Use Assets rich editor to customize the content.Unlimite d characters in comparison to the Text attribute.	
			For developers: Missing attribute beans	
			Heres some info for developers trying to retrieve beans for this attribute using Java API.	
			When you access an Assets object loaded from a custom field via Java API, attribute beans for this attribute type will be missing. You can read more about this bug here.	
			This is because the textarea attribute is not indexed by default. To solve this issue:	
			<ol> <li>Select Configure for your textarea attribute.</li> <li>In the General tab, select Indexed.</li> </ol>	
	Select	-	Data type to represent text values, predefined as options.	
	IP Address	-	Data type to represent IP Addresses (IPv4)	
Object	Assets object	Reference Type	This type enables a reference to another object.	
User	Jira group	Show on Profile	This type makes it possible to select a user from the selected Jira group and connect objects with users.	
Confluence	Conflu ence instance	Confluence page	This type enables a link to a Confluence page.	
Group	-	Show on Profile	This type makes it possible to select a Jira group and connect object(s) with user(s) in specified groups.	
Version	Jira Project	-	This type makes it possible to reference a Jira Version from a specific Jira Projectto your object(s).	
Project	None	-	This type makes it possible to reference a Jira Projectto your object(s).	
Status	Allowe d Status es	-	This type is used to set a Status of an object. Define the statuses that should be allowed, and left empty means all statuses allowed.	

## Attribute configuration

Some attribute types have additional configurations that lets you specify default suffixes or options, cardinality, and filtering. These configuration options depend on the type of attribute you've added.

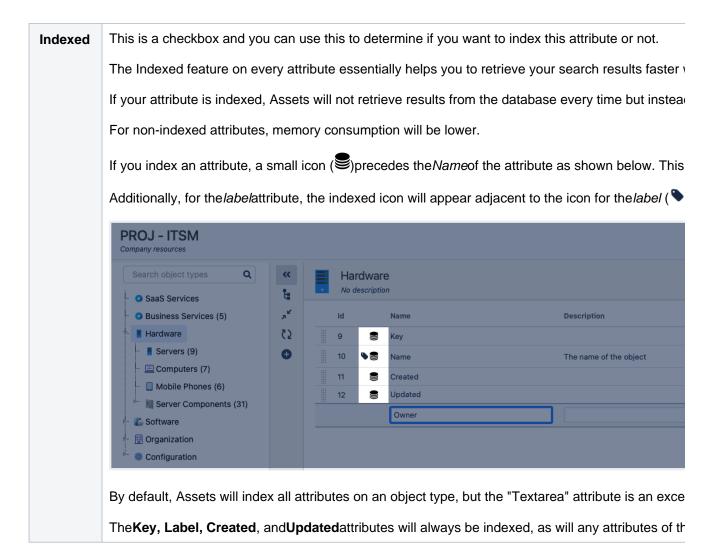
- 1. To configure an attribute, select the **cog icon** next to it.
- 2. Adjust the configuration to your needs. Below you can find some details about each configuration option.

### General

|--|

Suffix	For default type "Integer" and "Float" you can set a suffix for the attribute. Example is "\$" for an att
Hidden	Hide the attribute from users in the "assets-users" role.
Include children	Include objects from a child object type(s).
Unique	Validate attribute values to be unique within the object type.
Show Sum	For default type "Integer" and "Float" you can choose to add the values and display the sum of the

496



### Cardinality

You can specify a minimum and maximum of number of attributes values that can be associated to the attribute. This is common when you need to set an attribute multiple choices or required / mandatory.

For attributes of type "Default" you can only set maximum cardinality to 1, except "URL" and "Email" where you may space separate.

#### Validation

You may validate attributes of default type "Text", "Email" & "URL" with regular expressions. This can be handy if you want to validate specific information, like an IP address, a domain name, a phone number, or anything else that may require validation.

#### Options

You may add multiple Options to a "Select" Type Attribute by adding them here.

#### Filter objects

For attribute of type "Object" you may filter objects to be selected by AQL. By using this filter it is possible to create dependencies to other fields when creating/editing objects.

The following examples shows how to configure an object reference attribute on the object type Employee to reference a Laptop. If a value is entered in the Manufacturer textbox only Laptops with the corresponding Vendor will be choosable. It is possible to combine multiple fields in the AQL to get multiple dependencies.

Example	Example screenshot
description	

The employee	Employee No description	Create Object Objects Attributes Graph Ot
has an	Id Name Description	Type Type Value Additional Value
outbound reference to	29997 Кеу	Default Text
Laptop. The	29998 💊 Name The name of the object	Default Text
employee	29999 Created	Default DateTime
also has an	30000 Updated	Default DateTime
attribute	30001 Computer Manufacturer	Default Text
calledCompu ter	30002 Laptop Enter value	Object Laptop A reference
Manufacture		Default 🔻 Text 🗸
r.		
	Employee No description	Create Object Objects Attributes Graph Object
The AQL for attribute	Id Name Description	Type Type Value Additional Value
Laptop is	29997 Key	Default Text
configured	29998 Nam Configure: Laptop	Text
with:Vendor	29999 Creat	DateTime
=	30000 Upda	DateTime
\${Compute r	30001 Com General Cardinality Filter objects	Text
Manufactu	30002 Lapt IQL Vendor = \${Computer Manufacturer}	Laptop A reference
rer}		Text - Ad
	Update	Cancel
The laptop has an	Laptop No description	Create Object Objects Attributes Graph Object
attribute	Id Name Description	Type Type Value Additional Value
calledVendor.	23314 Key	Default Text
	23315 Name The name of the object	Default Text
	23316 S/N	Default Text
	23318 Purchase Date	Default Date
	23319 Screen Size (inch)	Default Text
	23320 User	Object 2 Employee Uses 4 Details
	23321 Created	Default DateTime
	23322 Updated	Default DateTime
	30003 Vendor	Default Text
		Default <b>v</b> Text <b>v</b> Av

### Next steps

Have a look at these pages:

- Configuring inheritance of attributes
- Customizing the object view layout
  Working with objects

# **Configuring inheritance of attributes**

You can configure object types to inherit attributes from their parent object types. This is useful if you need to create multiple object types, nested in one another, and want them to keep the same structure.

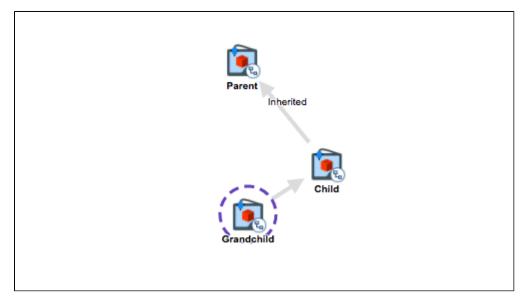
A good example for inheritance is an object type**Host**, with child objects**Linux Host**and**Windows Host**, which inherit common attributes, such as IP Address and Host name.

You won't be able to set the inheritance for an already existing structure of object types. You can only do it when creating a parent, and then child object types.

To enable inheritance of attributes:

- 1. Create the first, parent object type.
- 2. SelectObject type > Configure.
- 3. Select the Let the attributes be inherited by the subclasses checkbox.
- 4. Optionally, set this object type to **Abstract** to prevent creating any objects in it. This can be useful if you want the object type to exist only to pass on the attributes, without grouping any objects.
- 5. Create child object types.

The inheritance will work on the grandchildren and their children and so forth.



### **Related pages**

Have a look at these pages:

- Customizing the object view layout
- Working with objects

# Customizing the object view layout

When you open an object, you'll see some details about it. That's usually some basic information about the object itself, its attributes, connected Jira issues, and so on. This information is presented through widgetsyou can remove these widgets or add some more to always see the info you're most interested in. You make these changes not on objects specifically, but on object typesthe changes then apply to all objects within this type.

Here's an example of an object. We described the panels, actions, and widgets that you can see and customize below:

OBJECT TYPE		exchange.pro	d.app1	© Graph 🗇 ∨ 🖊 Edit 🗄
WATCHERS		Attachment 🛙 Co	mment	
Start watching		Attributes Connecte	ed tickets Comments History	
Inbound references	^	Status	Running	
MEMORY (2)		Environment	Production	
BUSINESS SERVICES (1)	4 🖓	Operating System	Windows Server 2019 Standard	
EPU (1)		IP Address	£ 192.168.208.10	
NETWORK INTERFACE (1)	1.47	Server Owner	👷 Fred Astair	
View all inbound refere	ences			
Attachments	~			
Created 02/Dec/20 12:31 pm Updated 9 days ago				

- 1. **Side panel:**Two widgets are shown on the panelInbound references (expanded) and Attachments (collapsed).
- 2. Attachments and comments: These two actions are enabled, allowing users to add attachments and comments to your object.
- 3. **Main panel:**Several widgets are shown as separate tabs. Users can switch between them to get the info they need.

## Customizing the page layout

- 1. Select the object type for which you want to customize the page layout.
- 2. In the top-right, select **Object type > Configure**.
- 3. In the top-right, select **Configure page layout**.
- 4. Read on for more information on what you can do with specific panels.
- 5. Once you're done with your changes, select **Save changes**.

Here's a brief description on what you can do in specific panels:

Panel	Description
Side panel	Here you can add widgets that will be displayed below each other. To add a new widget, select <b>Add panel</b> , or just edit the widget that's already there. For the list of available widgets, seeAdding widgets.
Attachments and comments	Here you can choose whether users can add attachments and comments to your objects. Clearing any of the check boxes will hide the related buttons from your objects.

Main panel (tabs)	Here you can add widgets that will be displayed in tabs in the main part of your object. To add a new widget, select the plus sign and choose the widget you want.For the list of available widgets, seeAdding widgets.
	Good to know
	<ul> <li>Double-click the tab to change its name</li> <li>Drag &amp; drop tabs to rearrange them</li> </ul>

### Reverting your changes

You can always reset the page layout to the default one by selecting **Reset**. This option will appear only after you save your changes.

## **Related pages**

Have a look at these pages:

- Working with objects
- Viewing objects in the object view

# Adding widgets

Widgets are flexible components that you can insert in different places, such as object type layout page or dashboard. They can help you and your team quickly access information about your objects.

To add new widgets, or edit the settings for existing ones, go to your object schema, go to **Object type > Con** figure > **Configure page layout**.

### Attributes widget

Displays the selected attributes of your object in a customized order. It's useful to show specific information to your team without displaying all attributes at once, overwhelming them with data.

nel content	Attributes		~		Ū	Remove ta
Changing the o	content will reset the config	uration below				
-						
O Settin	ngs					
	oad content only whe	n visible				
Attributes	s to display					
Add at	the start of the list			~	+ Add all	Clear all
Status	5					
Busine	ess Service Owner					
Refere	enced Server/s					
Service	e Group					
Servio	e Group Email					
Servio	e Group Phone					
User A	Access					
Refere	enced Application/s					
Impor	rtance					

- Add: Select attributes from the drop-down list and add them to your widget.
- **Delete:** Hover over an attribute, and delete it.
- Reorder: Drag and drop attributes to change their order in the widget.

### Settings

Settings for the Attribute widget:

Setting

Description

Display content in a collapsible panel	<ul> <li>If ON, displays the attributes in a collapsible panel.</li> <li>If OFF, displays the attributes inline with other page text. Automatically turns "load content only when visible" OFF, since the attributes always displayed.</li> <li>This setting available in the side panel of the object page layout screen ONLY.</li> </ul>
Load content only when visible (Lazy loading)	<ul> <li>If ON,loads the data in the widget only when the widget is displayed. Default setting.</li> <li>If OFF, loads the data in the widget with the page.</li> </ul>

## Connected tickets widget

Displays all Jira issues that are connected to an object.

el content Connected Tickets	~	🗊 Remove tab	
Changing the content will reset the configuration below			
O Settings			
Number of items per page*			
Load content only when visibl	e		

### Settings

Settings for the Connected tickets widget:

Setting	Description
Number of items per page	Set the number of connected tickets displayed on each page.
Load content only when visible (Lazy loading)	<ul> <li>If ON, loads the data in the widget only when the widget is displayed.Default setting.</li> <li>If OFF, loads the data in the widget with the page.</li> </ul>

## Comments widget

You can use this widget to view, edit, and add comments to an object.

nel content	Comments	~	🗑 Remove tab	
Changing the content will reset the configuration below				
O Setting	gs			
Number of	items per page*			
5				
Di	splay the editor			
C Lo	ad content only when visible			

## Settings

Settings for the Comments widget:

Setting	Description	
Number of items per page	Set the number of comments displayed on each page.	
Display the editor	<ul> <li>If ON, display the editor for comments at the top of the widget.</li> <li>If OFF, does not display the widget editor.</li> </ul>	
Load content only when visible (Lazy loading)	<ul> <li>If ON, loads the data in the widget only when the widget is displayed.Default setting.</li> <li>If OFF, loads the data in the widget with the page.</li> </ul>	

## Attachments widget

You can use this widget to view, add, and delete attachments from an object.

Panel content	Attachments	~	🗑 Remove tab
A Changing the c	content will reset the configuration below		
O Settin	gs		
Number of	f items per page*		
D	isplay the dropbox		
	oad content only when visible		

Settings for the Attachments widget:

Setting	Description
Number of items per page	Set the number of attachments displayed on each page.
Display the dropbox	<ul> <li>If ON, display the dropbox for adding attachments at the top of the widget.</li> <li>If OFF, does not display the dropbox.</li> </ul>
Load content only when visible (Lazy loading)	<ul> <li>If ON, loads the data in the widget only when the widget is displayed.Default setting.</li> <li>If OFF, loads the data in the widget with the page.</li> </ul>

## Inbound references widget

You can use this widget to view inbound references to an object.

Inbound References	Comments	Connected tickets	History	+
Panel content Inbound	References	elow	~	<u> </u> Remove tab
© Settings	nt only when visible			
Load conter	nt only when visible	-		

Settings for the Inbound references widget:

Setting	Description
Display content in a collapsible panel	<ul> <li>If ON, displays the inbound references in a collapsible panel.</li> <li>If OFF, displays the inbound references inline with other page text. Automatically turns "load content only when visible" OFF, since the inbound references are always displayed.</li> <li>This setting is available in the side panel of the object page layout screen ONLY.</li> </ul>
Load content only when visible(Lazy loading)	<ul> <li>If ON, loads the data in the widget only when the widget is displayed.Default setting.</li> <li>If OFF, loads the data in the widget with the page.</li> </ul>

## History widget

You can use this widget to view the history of changes to an object, or the history of changes to all connected Jira issues.

5

Panel content History		~	🗑 Remove tab
A Changing the content will reset	the configuration below		
0.0			
O Settings			
History of			
Object	~		
Number of items per page	*		
Load content o	nly when visible		

Settings for the History widget:

Setting	Description					
History of	<ul> <li>If OBJECT is selected, displays the entire history of the object.</li> <li>If CONNECTED TICKETS is selected, displays the history and changes to Jira tickets connected to the object.</li> </ul>					
Number of items per page	Set the number of history items displayed on each page.					
Load content only when visible(Lazy loading)	<ul> <li>If ON, loads the data in the widget only when the widget is displayed. Default setting.</li> <li>If OFF, loads the data in the widget with the page.</li> </ul>					

## AQL query widget

You can use this widget to display objects, and their attributes, returned by an AQL query.

of official	AQL query 🗸	🕅 Remove
hanging the	content will reset the configuration below	
O Settin	igs	
Number of 25	f items per page*	
C La	bad content only when visible	
Descriptio	n	
This is	a list for	li
AQL query	,	
Nam	e LIKE "John Smith"	
	te values from the object are accessible via placeholders	
All attribu		
All attribu Attributes	to display	

Settings for the AQL query widget:

Setting	Description				
Number of items per page	Set the number of objects returned by the AQL query.				
Load content only when visible(Lazy loading)	<ul> <li>If ON, loads the data in the widget only when the widget is displayed. Default setting.</li> <li>If OFF, loads the data in the widget with the page.</li> </ul>				
Description	Enter a description of this query and the information returned.				
AQL query	Enter an AQL query to run in the widget. For more information about AQL, seeAQL - Assets Query Language.				

### **Placeholders**

Placeholders are very handy when used in the AQL query widget, because they can return information that is filtered by the current object. For example, the AQL query on the screenshot below returns all objects that meet the following criteria:

- Have outbound references to the current object
- AreNetwork interfaces

This is a great way of finding more detailed information about objects within an object type.

	AQL query	🕅 Remove
hanging the c	ontent will reset the configuration below	
O Setting	3s	
Number of	items per page*	
25		
	ad content only when visible	
Description		
This is a	list for	
		li
AQL query		
🕑 object	t HAVING outboundReferences(Key = \$[Key]) and objectType = "Network Interface"	
🕑 object	t HAVING outboundReferences(Key = \$[Key]) and objectType = "Network Interface" e values from the object are accessible via placeholders	<i>li</i>
🕑 object	e values from the object are accessible via placeholders	
object     All attribute     Attributes t	e values from the object are accessible via placeholders	Clear all
object     All attribute     Attributes t	e values from the object are accessible via <b>placeholders</b> o display	Clear all
object     All attribute     Attributes t     Add at th	e values from the object are accessible via <b>placeholders</b> o display	Clear all

- For more info about Assets Query Language (AQL), see Advanced search: AQL.
  For more info about placeholders, see Advanced: Placeholders.

# Working with objects

Objects are your actual assets. Every object is a digital representation of anything that you're mapping in Assets, be it a specific computer, employee, office they work at, or even a license for your software. You can create as many objects as you like, and group them within object types that represent their characteristics (an employee wouldn't be the best fit for the hardware object type).

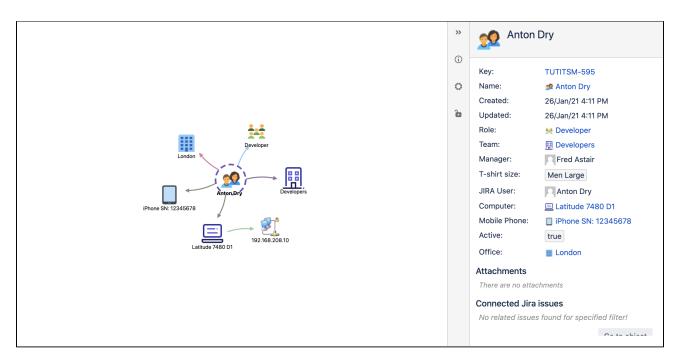
#### Here's an example of an employee:

Anton Dry			③ Graph	₫ ~	🖍 Edit	÷
🖉 Attachment	Comment					
ttributes Con	nected tickets Comments	History				
Role	₩ Developer					
Team	<u> </u> Developers					
Manager	R Fred Astair					
T-shirt size	Men Large					
JIRA User	Anton Dry					
Computer	📃 Latitude 7480 D1					
Mobile Phone	iPhone SN: 12345678					
Active	⊘					
Office	🛄 London					

### **References between objects**

Information about an employee can be useful, but viewing their dependencies is even better. Thanks to this, you can know right away the office they work at, hardware they're using, role they belong to, or mobile phone they've been assigned. You can view references using the graphical viewer that lets you see all of it at a glance.

Here are the references of our example employee:



## Get started with objects

Here's a list of pages to get you started:

- Creating objects
- Adding objects to Jira issues
- Viewing objects in the object view
- Viewing references in a graph
- Printing labels and QR codes

# **Creating objects**

Objects are your actual assets or configuration items. What an object looks like depends on the object type it belongs to. Learn more about objects

## Create an object

To create an object:

- 1. Select the object type where you'd like to add your object. The object will use the object type's attributes, so that's quite important.
- 2. At the top-right, select Create object.
- 3. Enter the details and any required attributes.

#### Example object

Here's the view of an object, based on the sample ITSM schema:

									2			
	Computers No description					Create Object	Objects	Attributes	Gra	bh	Object	Туре 🖌
Filter S	iearch - Q Advanced								25	*	¢ *	:0 *
€ Name*	Latitude 7480 D1		/ Computers / TIT2 e 7480 D1	2ITSM-95								
		🖋 Edit	Q Comment	More 🖌	🕑 Object Graph						• Wa	atch 💿 🌘
	Latitude 7480 D2	✓ Details					1	<ul> <li>Dates</li> </ul>				
	Latitude 7480 D3	Name 🎙 Serial Num	ber	2152	atitude 7480 D1 ADFB-7C34D1			Created Updated				12:31 PM 12:31 PM
_	MacBook MBP M1	Model RAM		Latit 8192	ude 7480		1	<ul> <li>Inbound</li> </ul>	Refere	ences		
		: Hostname			lat7480-d1			Employ	/ees			
	MacBook MBP M2	IP Address			92.168.208.10			> Attachm	nents			
		Virtual > Activity	,	false				Connect	ted Jira	a issue	s	
=	MacBook MBP M3											

- 1. Object: List of objects within an object type.
- 2. Object type actions: Actions for the parent object type.
- 3. **Object actions:**Some of the object actions: printing labels or QR codes, watching.

#### How object keys are generated

All objects have an object key. The key uses the pattern KEY-NUMBER where:

- KEY object schema key
- NUMBER sequence number from the Object table in the database

The KEY is used to categorize objects and easily identify the object schema they belong to.The NUMBER is the MAX(Object Id) + 1 from the Object table (AO\_8542F1\_IFJ\_OBJ). A new object schema (e.g. CRM) could have its first object with a key of CRM-12345 if this is the number of themax(Object ID) + 1 received from the database.

In earlier versions, objects received keys based only on the object schema and the sequence in which they were created, for example KEY-1, KEY-2, KEY-3, and so on. This was changed for the following reasons:

- Data Center support: To ensure the keys are unique through the whole cluster, we switched to a database sequence.
- Performance: By using a database sequence, we can sync fewer steps while creating objects, which improves performance in a multi-threaded environment.

## Using the object view

Here's the same object as seen in the object view:

Computers / Latitude 7480 D1		Find object Q + Create object
OBJECT TYPE		⊕ Graph 🛱 🖌 🖌 Edit
⊟ Computers	Latitude 7480 D1	
WATCHERS		
• Start watching	Attributes Connected tickets Comments History	
Inbound references	Serial Number 2152ADFB-7C34D1	
Se EMPLOYEES (1)	Model Latitude 7480	
View all inbound references	RAM 8192 Hostname Dell-lat7480-d1	
	IP Address (1) 192.168.208.10	
Created 02/Dec/20 12:31 pm	Virtual false	
Updated 2 months ago		

For more info on how you can customize the object view and what you can do in it, see Viewing objects in the object view.

### Next steps

Have a look at these pages:

- Viewing objects in the object view
- Viewing references in a graph
- Adding objects to Jira issues

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# Adding objects to Jira issues

When you add objects to your Jira issues, information about them will be displayed directly on the issues, giving everyone interested enough context. Depending on how your workflows are set up, the added objects can also be affected when an issue is moving through a workflow.

### Before you begin

You'll add objects to your issues by choosing them as values of the Assets custom fields. These custom fields needs to be first added to the right screens in Jira, which needs to be done by your Jira admin. For more info, see Adding Assets custom fields to screens Jira.

### Add an object to your Jira issue

To add an object to a Jira issue:

1. Create or edit a Jira issue, and locate the Assets custom field. It will look just like any other field. In the example below, it's "Affected Server".

	Open issues sv	vitch filter 🐱				View all issues and filters
<b>∿</b> • ⊑	Order by Priority	Create Issue			Configure Fields	1 of 10 🔿 👻 🦨
	TIT2-9 Invoice Service is	Project*	Insight	•		< 🖞 Export 🗸
	TIT2-8 Crowd configurati	Issue Type*	Problem	• ⑦		le
	TIT2-7 Change hardware	Summary*	There's a problem with one of our	servers		inee: - - - - - -
	<ul> <li>TIT2-6</li> <li>External invoice in</li> </ul>	Affected Server			v Q,-∔-	rter: Tomasz Bartyzel
	Confluence user n	Affected Business	All Objects  exchange.prod.app1		Q.+.	5:
	TIT2-4 Email server hard	Service	<pre>exchange2016-prod-db1 mysql-prod-app7</pre>			hers: Start watching this issue
	1 TIT2-3 Invoice Service is	_	Oracle-E-Business-Server			S
	1 TIT2-2 Cant log into Conf		sap-erp-prod sap-hana-prod		Create Cancel	ted: ec/20 12:31 PM
0	TIT2-1		■ wordpress-prod-app1	files to attach, or browse.		Ipdated: 12/Dec/20 12:31 PM

2. Select your object from the drop-down menu. If you can't find it, try using the object picker that will let you browse available objects.

### Select objects with the object picker

The object picker lets you search through Object types (left-side) and Objects (right-side).

- You can expand objects to view their attributes. This should help you make sure you're choosing the right one.
- You can select + Shift an object type to select all object types in its tree structure.

	Oper	1 issues Switch filter 🗸		View all issu	les and filters
*	Orde	Choose Affected Server	Show my related objects Search	Q,	
		Search object types	🗸 🖉 📕 exchange.prod.app1	1	× 2 <sup>×</sup>
	Inv	L ₩ Servers	Key TIT2ITSM-57 Name exchange.prod.app1		🖞 Export 🛩
	Ch		Created     02/Dec/20 12:31 PM       Updated     02/Dec/20 12:46 PM		
	D TIT Ex		Status     RUNNING       Environment     Production		
	о ТІТ Со		Operating System     Image: Operating System       IP Address     192.168.208.10		
	DIT 👩 En		Server Owner Server Owner Server Owner Server Owner	(P)	nis issue
	דוד ַן Inv		mysql-prod-app7	1	
	лтт Са		Cracle-E-Business-Server	1	
	П тіт		Select	Cancel	
o »	+ Crea	te issue			
	C R		<ul> <li>Activity</li> <li>Develo</li> </ul>	pment	

### View object details on your Jira issues

All objects connected to an issue are shown when you view this issue. The amount of details shown depends on how the custom field (responsible for adding the object) is configured. Some custom fields might allow fewer attributes than others, and that's up to how your Jira admin configured them.

<ul> <li>Details</li> </ul>						
Туре:	Incident	9	Status:	CONFIRMED	) (View Workflow)	
Priority:	↑ Medium	F	Resolution:	Unresolved	I	
Component/s:	None					
Labels:	None 🖍					
Affected Business	🔤 Email Service					
Service:	Status	INCIDENT IN PROG	RESS			
	Importance	🕕 2 - High				
	Service Owner	👤 Wes Shults				
	Referenced Host/s	exchange.prod.	main1 🚦 exchang	ge_mssql_2012		
	Service Group Phone	+46 434 121 6572				
	🎾 Marketing Service					
	Status	INCIDENT IN PROG	RESS			
	Importance	🚯 2 - High				
	Service Owner	🧕 Bea Owenstein				
	Referenced Host/s	🚪 exchange.prod.	main1			
	Service Group Phone	+46 434 121 6572				

You can select an object to view all details about it. You can then use the icons to switch between overview, attributes, or graph.

Object Overview		Search Q
👻 📕 exchange.prod.app1		📲 🗎 🕑 🔳
Кеу	TIT2ITSM-57	
Name 🗣	exchange.prod.app1	
Created	02/Dec/20 12:31 PM	
Updated	02/Dec/20 12:46 PM	
Status	RUNNING	
Environment	Production	
Operating System	Output Server 2019 Standard	
IP Address	192.168.208.10	
Server Owner	👥 Fred Astair	
		Clos

# Viewing objects in the object view

The object view lets you see all object details, including comments, attachments, and the history of changes. You can also view and modify object attributes, see all issues connected to an object, or view its references. All in a nice and friendly way.

Computers / Latitude 7480 D1		Find object Q + Create object
OBJECT TYPE	Latitude 7480 D1	
Computers		
WATCHERS	Attachment Comment	
• Start watching	Attributes Connected tickets Comments H	listory
Inbound references	Serial Number 2152ADFB-7C34D1	
Semployees (1)	Model Latitude 7480	
View all inbound references	RAM 8192	
	Hostname Dell-lat7480-d1 IP Address 🔮 192.168.208.10	
Created 02/Dec/20 12:31 pm	Virtual false	
Updated 2 months ago		

### Accessing the object view

You can access the object view in many ways, the easiest one being just selecting the object key (displayed as breadcrumbs when viewing the object):

- Select Assets > Recent objects, and select any object.
- Select any object in the schema and select its object key (displayed in breadcrumbs above the project name)
- Search for objects and select the object key.

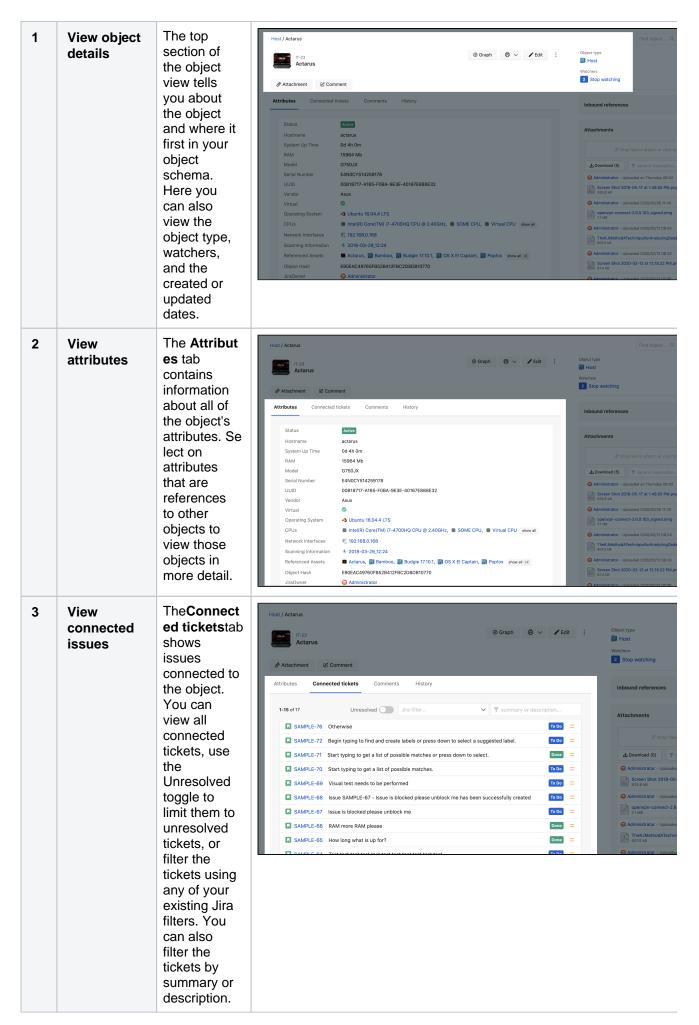
### Customize the object view

If you have the permission to edit the object schema, you can customize the object view to only display the information you need. For more info, see Customizing the object view layout

What you can do in the object view

Here are the actions that you can perform on objects in the default object view:

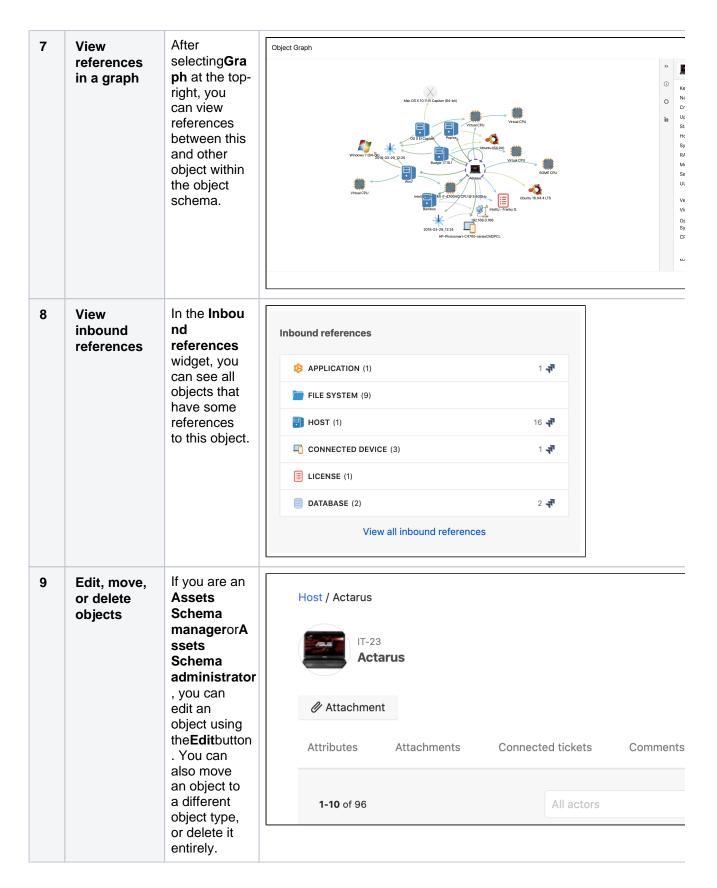
Actio	n Description	Image
-------	---------------	-------



Created in 2022 by Atlassian. Licensed under a Creative Commons Attribution 2.5 Australia License.

4	View comments and attachments	The <b>Comme</b> nts tab lets you view and add comments for the object. You can filter them by author, description, or summary. You can add comments by selecting <b>C</b> omment.	Host / Actarus   It-23   Actarus
5	View attachments	You can see attachments added to the object in the attachments widget on the right.	Host / Actarus   Image: Comment   Attributes   Connected tickets   Comments   History
6	View history of changes	The <b>History</b> ta b shows a time-ordered list of changes made to this object.	Host / Actarus

3



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10	Print labels or QR codes	If you are an Assets Schema managerorA	Host / Actarus
		ssets Schema administrator , you can also print a label or a	IT-23 Actarus
		QR code for this object.	Attachment
			Attributes Attachments Connected tickets

# Viewing references in a graph

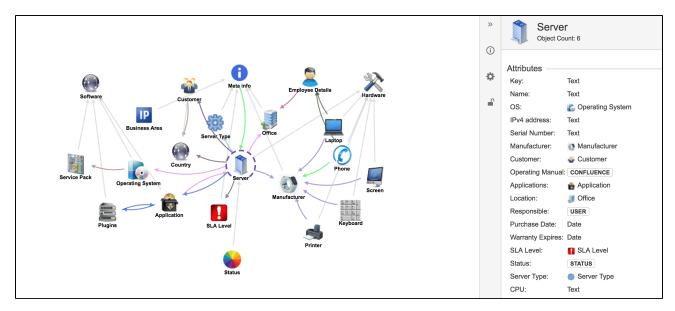
Assets contains four different graphs to help you get a better overview of your data:

- Object schema graph
- Object type graph
- Object graph (including force graph and tree graph)

## Object schema graph

To view an object schema's graph:

- 1. Open your object schema.
- 2. At the top-right, select Graph.



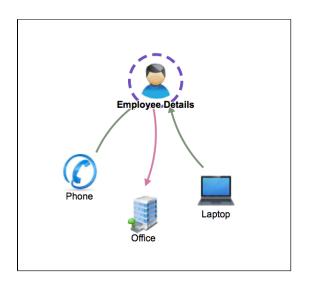
To get information about a certain object type, click on it.

- Gray lines point to the parent object type.
- Colored lines mark object attribute dependency.
- You can click the cog icon in the vertical menu to hide parent lines or visualize the object count.
- You can also create new references directly in the graph by pressing shift and dragging from one object type to another indicated by a purple line as seen in the image below.

### Object type graph

To view an object type's graph:

- 1. Open your object type.
- 2. At the top-right, select Graph.



The object type graph is mostly the same as the object schema graph, but allows you to focus more on a specific part. By double-clicking on the icon for an object type, you can expand the graph and also show the types connected to this one.

#### Object graph

To view an object's graph.

- 1. Select your object.
- 2. Select Object graph.

#### Force graph view

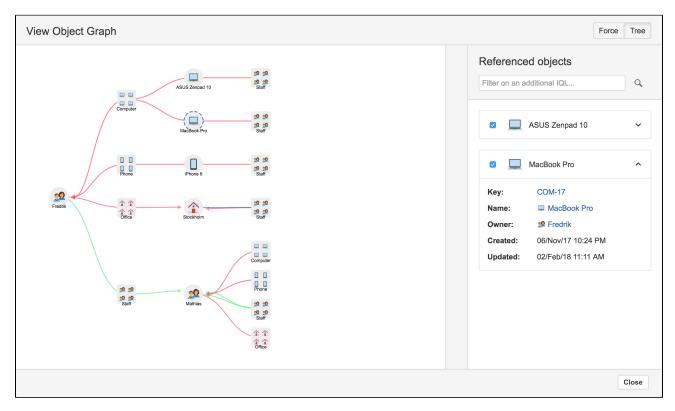
The object graph is used to view specific objects and their relations. On the right, you can see all attributes, issues, and attachments for the selected object. By double-clicking an object, you can expand the graph to include all related objects.



As with the other graphs you can stop the icons moving around by clicking the lock icon. In the configuration, you can set the reference depth which tells how far from the initial object the graph should show, i.e. if you set it to 1 you will only see the selected object and related objects, set it to 2 and you will also see all objects related to the related objects and so on.

#### Tree graph view

This view let you watch your object references in ahierarchical tree structure. Referenced objects are grouped by Object Type to make iteasier to distinguish them.



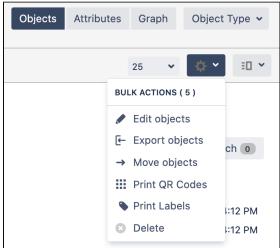
# Printing labels and QR codes

Using labels and QR codes can really streamline the management of tangible assets. For this, Assets lets you print labels and QR Codes for any object. These documents show you how to do that.

### Print labels

The easiest way to print labels is to search for multiple objects and then use bulk actions to print labels for all of them.

- 1. Search for your objects or select an object type (you can also print individual labels by selecting the printer icon on an object).
- 2. Select Bulk actions > Print labels.



3. If there's a template available, select it, and select Print. Otherwise, your admin will need to create a template.

Here's an example of a ready label:



## Print QR codes

You can view an object's QR code after opening your object.

Business Organisation / / Hardware / BO-1 Macbook Air	
✓ Edit  Comment  More →  Cobject Graph	• Watch •

To print QR codes for multiple objects:

- 1. Search for your objects or select an object type (you can also print individual QR codes as shown on the image above)
- 2. Select **Bulk actions > Print QR codes**.

# Importing your data

Entering everything manually could be a lifes work in a large organization. So thats why there are a few tools to help.

Import	Description
Asset Discovery	Asset Discovery is an agentless scanner that picks up network assets. You can choose which of assets, and which attributes, you pull into your Assets object schemas and you can create your own scanning patterns to find more specific details See Importing with Asset Discovery
Integrations	Integrations can be used to connect to other tools, such as cloud services, asset managers, and other CMDBs. These integrations can be downloaded for free from Atlassian Marketplace, and include AWS, Azure, Google Cloud, ServiceNow, and some more. See Importing with Integrations
Built-in importers	Import your data from CSV, database, Jira users, JSON, LDAP, or other object schema. Once you create your import configuration, you can keep it in sync so your assets stay up to date.
	See Importing with built-in importers

## **Importing with Asset Discovery**

(i) Asset Discovery is available for free for Jira Service Management Data Center.

Asset Discovery is an agentless scanner (although there is an agent available to get more detailed information) that picks up network assets. You can select which of assets, and which attributes, you pull into your Insight object schemas and you can create your own scanning patterns to find more specific details. If you run it on a schedule it will pick up changes to keep data updated. With automation rules you can even trigger Jira issues, email notifications, and more based on detected changes.

- Download Asset Discovery from Marketplace
- View Asset Discovery documentation

# Importing with Integrations

Asset Integrations can be used to connect to other tools, such as cloud services, asset managers, and other CMDBs.

While we have all these tools, we dont recommend you bring in every bit of data you have into Assets unless you plan to depreciate the tool. Bring in what you need to use in Jira Service Management, you can always bring in more later.



All Asset Integrations can be installed through the Marketplace for free.

Here is the full list of Asset Integrations:

- Asset Integration AWS
- Asset Integration Azure
- Asset Integration Google Cloud
- Asset Integration SCCM
- Asset Integration Snow
- Asset Integration ServiceNow
- Asset Integration Jamf
- Asset Integration Device42
- Asset Integration NVD
- Asset Integration Jira & Bitbucket
- Asset Integration Tempo

# Importing with built-in importers

Assets has several built-in importers that let you import your data from CSV, database, JSON, LDAP, and so on. You'll use these importers by creating an import configuration, specifying its details, and then mapping the data you're importing to object types and attributes in Assets. Such an import configuration can be then synced on a regular basis, so your assets stay up to date.

(i) You need to be an Assets Manager for an object schema to create, configure, and enable imports.

### Get started with importers

- Understand importing concepts
- 1. Create your import configuration
  - CSV import
  - Database import
  - Jira users import
  - JSON import
  - LDAP import
  - Object schema import
- 2. Create object type and attribute mapping
- 3. Inspect your import configuration
- 4. Enable and sync your import

# **Understand importing concepts**

In Assets, you'll import your data by creating an import configuration, which consists of three elements:

- Base import configuration
- Object type mapping
- Attribute mapping (goes in pair with object type mapping)

Once created, such a configuration keeps importing your data (if synced) from updated data sources, and you can always make edits to it to make it even better. This page will help you understand the parts of your import configuration and the mappings you'll need to create. It's a good start before jumping right into importing your data.

(i) You need to be an Assets Manager for an object schema to create, configure, and enable imports.

### Complete import configuration

Here's what a sample import configuration looks like after it's created in Assets. This should help you understand the concepts described on this page:

Import from File		File			
	n	File computers.csv			
Username		No Value			
Password		No Value			
Timeout		No Value			
Delimiter		,			
Encoding	U	UTF-8			
	Illy synchronize ing Account	False			
Empty Valu		Remove			
Unknown V		Add			
Concatena		-			
Date Forma	it	No Value			
Date/Time	Format	No Value		Create	Object type m
Missing Thresho Thresho Empty V	old Type old Number Values	<i>No Value</i> Remove Days 1 Use default			
Match I	n Values dentifier	Use default Case sensitive			
Identifie	Data Locator	Insight Attribute	Object mapping (IQL)	Description	
	Name	Name 💊			\$
		Computer	Label = {Computer}		¢
	Computer	Computer	Labor (comparer)		

- 1. **Base import configuration:**That is from where, and when, will your data be collected. Your data source.
- 2. **Object type mapping:**Target object type for your data. You need to create a separate mapping for every object type that your data concerns.
- 3. Attribute mapping: Mapping between the data locators in your data source and Assets attributes. This mapping always goes together with the object type mapping, because these attributes are for your specific, target object type.
- 4. **Another object type mapping (collapsed):**Another object type mapping. It also has attribute mapping, when expanded. You can have as many object type mappings (and related attribute mappings) in one import configuration as you need.

### Import configuration

Creating the base import configuration is the first step you do when you access **Import** in your object schema. When following the steps, you'll configure the following details:

If you'd like to see the import types, available fields for each type, and the predefined structure and configuration, head to1. Create your import configuration, and choose the import type.

#### Import types

Import type is the type of your data source. It can be CSV, database, Jira users, JSON, and so on. Depending on which import type you choose, the details you have to fill in will differ.

#### Import fields

Import fields are fields that define your import type. From simple name and description to concatenators and date formats, these fields will instruct Assets how to treat your data source. Import fields are specific to import types.

### Scheduling

Details on whether your data source should be synced on a regular basis to keep the objects up to date. You can always enable it on the ready import configuration.

#### Predefined structure and configuration

The last step before creating your import configuration will be choosing whether you'd like Assets to create a predefined structure and configuration. These are optional and even if created can be modified after importing your data.

- Predefined structure: The import module will create an Assets object type structure, together with attributes, based on your data. This will only be available if you haven't created any object type mapping.
- Predefined configuration: The import module will create mappings between attributes and data locators, AQL references, and any other configuration items.Based on the name of the object type as well attribute names supplied from the import module, Assets will determine which object types(s) that should be added to the configuration. You can use the predefined configuration without using the structure.

### Object type and attribute mapping

Assets needs to know where your data is going. Unless you created the predefined structure and configuration and are happy with it, you'll need to create object type and their related attribute mappings. Even with the predefined structure, you'll most likely need to make some edits and reviews.

If you'd like to have a closer look at what fields are required when configuring the mappings and what they mean, head to2. Create object type and attribute mapping.

#### A pair of object type and attribute mapping

Here's an example of an object type mapping and its attribute mapping. These will always go in pairs.

Emp	oloyees				ENABLED
Missing o Fhreshold	i Type I Number lues Values	No Value No Value Remove Days 1 Use default Use default Case sensitive			
dentifier	Data Locator	Insight Attribute	Object mapping (IQL)	Description	
	Name	Name 🍆			0
	Computer	Computer	Label = {Computer}		ö

In the example above, the mapping is specified for the Employees object type. It means that the attribute mapping will import data from your data source to the mapped attributes only for this object type. If your data is for multiple object types, you'll need to create such mappings for every one separately (still within the same import configuration).

This example is based on a simple CSV file that looked like this:

The CSV headers (Name, Computer) are mapped to related Assets attributes (Name, Computer). "Name" was a text field, so it doesn't need additional object mapping (AQL). As for "Computer", it's a reference to another object type, so we used an AQL with placeholders:

```
<Referenced object type identifier, Label> = {Header from the CSV file where Assets should look for data, Computer}
```

Here's a video that shows how this example was created:

#### Importing objects with references

Although importing data for default attributes (text, dates, etc) shouldn't be an issue, it might get tricky with data for objects that have references to other objects. It helps if you have created a structure of object types in Assets, because you know them, and can map them one by one. If you're having problems, see Object type reference for some examples.

#### Next steps

When you're ready, go to 1. Create your import configuration.

# 1. Create your import configuration

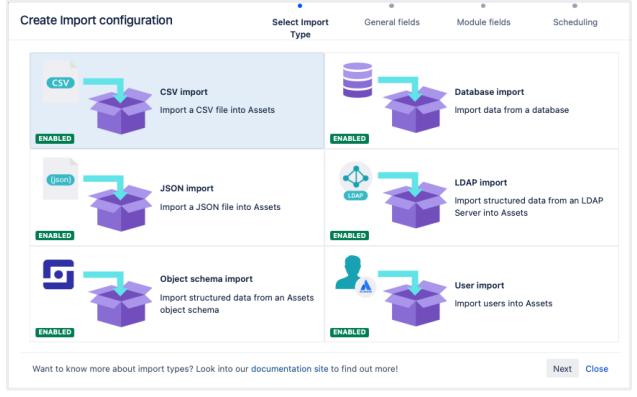
The first step to importing your data is creating an import configuration. The configuration depends on the import type (the source from which you're importing) and some of its configuration fields and options will differ based on what you've chosen. Assets provides some default import types available for configuration.

① You need to be an Assets Manager for an object schema to create, configure, and enable imports.

## Create your import configuration

Your data will be imported into object schemas. To create a new configuration:

- 1. Open your object schema.
- 2. Select**Object schema > Configure**.
- 3. Switch to the **Import** tab.
- 4. SelectCreate configuration. You'll see all available import types, something like this:



## Choose your import type

Once you've decided on your import type, select it and go to one of these pages:

- CSV import
- Database import
- Jira users import
- JSON import
- LDAP import
- Object schema import

### More import types

When you install any of Assets integrations, they will appear as a new import type. You can also create your own import type, but this will require some developer knowledge.

# **CSV** import

Your data will be imported from a CSV file. This is useful if you're still using spreadsheets (not judging) or have CSV files for all of your assets. Learn more about importing

(i) You need to be an Assets Manager for an object schema to create, configure, and enable imports.

## Before you begin

Here are some requirements for your CSV file:

The CSV file needs to have headers, as they are used to create the data locators for the imports. An empty header value is not allowed.

To divide multiple values (for the Assets Attributes with multiple cardinality), use || (2 pipe characters).

### Import fields

Once you've chosen your import type, you'll need to enter details about it. Here's the description of fields you should see in Assets.



Here are general fields, common for every import type:

Name	Description	
Name	The name of the import.	
Description	The description for your convenience.	
Concatenator	You can specify a default concatenator. When joining multiple data locators into one Insight attribute, this will be the default concatenator. One example could be to join two columns like "First name" and "Last name" into one attribute. So "Mathias" (first name) and "Edblom" (last name) will be concatenated as "Mathias Edblom" if using \s as concatenator. Enter \s for space-concatenated. To include a concatenate character, place the value between double quotes (i.e "\s").	
Empty Values	Defines what should happen when a Data Locator is empty. Should the import remove the attribute value or just ignores it and leave the current value as is.	
Unknown Values	Defines what should happen if a Data Locator is unknown to Insight. This could happen with attribute types like "Status" and "Select". The value can be added as an option or just ignore the value.	
Date Format	Format for date fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.	

Date/Time	Format for date/time fields in import source to convert dates into Insight. If left	
Format	empty, Insight will automatically try to find correct format.	
	The format should be specified according to the Java SimpleDateFormat guidelines.	

These fields are specific to an import type (module).

Setting	Description	
Import from	Choose a file or URL.	
• URL	Protocol, Hostname, and Port of where to find the external CSV file. Example: http(s)://example.com/file.csvorfile:///opt/csv/example.csv	
• File	Choose a file to upload.	
Username	Optional username for basic authentication.	
Password	Optional password for basic authentication.	
Delimiter	The delimiter used in the file. Enter \t for tab-delimited. To include a delimiter character, place the value between double quotes. To include a delimiter or a double quote character, place each value between double quotes.	

Scheduling fields are responsible for keeping your data in sync:

Name	Description
Synchronizing Account	The Jira user to use when synchronize data into Insight
Cron Expression	The interval for the automatic synchronization.
Automatically Synchronize	If the import should be scheduled for automatic synchronization.

### Pre-defined structure and configuration

In the next step, after you've filled in the required fields, Assets will ask you whether you want to create a predefined structure (object type mappings) and configuration (attribute mappings). Details of this will differ depending on the import type.

Here's some details for the CSV import:

- Each column from the CSV file will be created as an Assets attribute of type Default Text, and configuration will be mapped accordingly.
- The object type created will always be the same.
- Some object type mappings are disabled by default. Make sure to select the relevant ones.

If you want to have different attribute types created by the import of the data from the CSV file, create the predefined structure and then change the attribute types.

### Import configuration created

You can now view your import configuration, but it's not ready yet. You still need to create or review the object type and attribute mapping, and make sure there are no problems with your import configuration.

When you're ready, go to 2. Create object type and attribute mapping.

Before you go

### **Object type mapping settings**

In the next step, you'll create the object mapping settings. Here are some settings specific to the CSV import type.

Name	Description
Selector	The selector for the CSV import is not used. Use AQL to filter any data from the CSV file

536

# **Database import**

You might want to import data from an internal or third-party system like BMC Remedy or Service Now. This article guides you through importing data from another database.Learn more about importing

(i) You need to be a Jira admin to create and configure database imports.

## Supported databases

We're using a common framework (jdbc) to connect to the database, so we support many databases:

Database Type	Driver
Microsoft SQL Server	com.microsoft.sqlserver.jdbc.SQLServerDriver
Oracle	oracle.jdbc.OracleDriver
PostgreSQL	org.postgresql.Driver
MySQL	com.mysql.jdbc.Driver

### Import fields

Once you've selected your import type, you'll need to enter details about it. Here's the description of fields you should see in Assets.



Here are general fields, common for every import type:

Name	Description	
Name	The name of the import.	
Description	The description for your convenience.	
Concatenator	You can specify a default concatenator. When joining multiple data locators into one Insight attribute, this will be the default concatenator. One example could be to join two columns like "First name" and "Last name" into one attribute. So "Mathias" (first name) and "Edblom" (last name) will be concatenated as "Mathias Edblom" if using \s as concatenator. Enter \s for space-concatenated. To include a concatenate character, place the value between double quotes (i.e "\s").	
Empty Values	Defines what should happen when a Data Locator is empty. Should the import remove the attribute value or just ignores it and leave the current value as is.	
Unknown Values Defines what should happen if a Data Locator is unknown to Insight. This could happen with attribute types like "Status" and "Select". The value can be added as option or just ignore the value.		

Date Format	Format for date fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.	
Date/Time	Format for date/time fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format.	
Format	The format should be specified according to theJava SimpleDateFormat guidelines.	

These fields are specific to an import type (module).

Setting	Description	
URL	The database connection URL. If you want to connect to the Jira database, you can look into the dbconfig.xml in Jira_HOME to find the correct configuration and URL.	
Driver	The driver class to use to connect to the database. Place the JDBC driver (*.jar) to the <jira_install>/libfolder Don't forgetto restart Jiraafter adding the driver to lib folder.</jira_install>	
Username	The username used to authenticate.	
Password	The password used to authenticate. You can enter the password for your database.	

If you want to query the Jira database, you can look into thedbconfig.xmlfound inJira\_HOMEdirectory, to find out the correct configuration.

Scheduling fields are responsible for keeping your data in sync:

Name	Description
Synchronizing Account	The Jira user to use when synchronize data into Insight
Cron Expression	The interval for the automatic synchronization.
Automatically Synchronize	If the import should be scheduled for automatic synchronization.

### Pre-defined structure and configuration

Predefined structure and configuration is not available for this import type.

### Import configuration created

You can now view your import configuration, but it's not ready yet. You still need to create or review the object type and attribute mapping, and make sure there are no problems with your import configuration.

When you're ready, go to 2. Create object type and attribute mapping.

#### Before you go

In the next step, you'll create the object type and attribute mappings. Here are some settings specific to the database import type.

### Object type mapping configuration

Name
------

Selector	the database type. How to build up the sele	abase import is a SQL query. How to build SQL queries depends on ctor (the SQL statement) depends on how you have configured the elow you will see some examples that will hopefully guide you in the ing this up.
	Database Type	Example
	Microsoft SQL Server	<pre>select * from <database.name>.<schema-name>.Application <schema-name> is "dbo" as default so an example could be: select * from dbname.dbo.Application</schema-name></schema-name></database.name></pre>
	Oracle	<pre>select * from <schema-name>.Application If <schema-name> is "Jiraschema" the query will be:     select * from Jiraschema.Application</schema-name></schema-name></pre>
	PostgreSQL	select * from "Application"
	MySQL	select * from Application
		Jira database, you can look into the <b>dbconfig.xml</b> found in <b>Jira_HOME</b> correct configuration, such as <b>schema name</b> etc.

# Jira users import

You might want to collect more information about your Jira users or relate Jira users to customers. For this, you need to import your Jira users or specific user groups in Assets.Learn more about importing

(i) You need to be an Assets Manager for an object schema to create, configure, and enable imports.

## Import fields

Once you've chosen your import type, you'll need to enter details about it. Here's the description of fields you should see in Assets.

Create Import configuration	• Select Import Type	• General fields	• Module fields	Scheduling
CSV Import Import a CSV file into I ENABLED	_		Database Import Import data from a d	database

Here are general fields, common for every import type:

Name	Description
Name	The name of the import.
Description	The description for your convenience.
Concatenator	You can specify a default concatenator. When joining multiple data locators into one Insight attribute, this will be the default concatenator. One example could be to join two columns like "First name" and "Last name" into one attribute. So "Mathias" (first name) and "Edblom" (last name) will be concatenated as "Mathias Edblom" if using \s as concatenator.
	Enter \s for space-concatenated. To include a concatenate character, place the value between double quotes (i.e "\s").
Empty Values	Defines what should happen when a Data Locator is empty. Should the import remove the attribute value or just ignores it and leave the current value as is.
Unknown Values	Defines what should happen if a Data Locator is unknown to Insight. This could happen with attribute types like "Status" and "Select". The value can be added as an option or just ignore the value.
Date Format	Format for date fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.
Date/Time Format	Format for date/time fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.

These fields are specific to an import type (module).

Setting	Description
Restrict Groups	Only users in selected group(s) will be imported.

Scheduling fields are responsible for keeping your data in sync:

Name	Description
Synchronizing Account	The Jira user to use when synchronize data into Insight
Cron Expression	The interval for the automatic synchronization.
Automatically Synchronize	If the import should be scheduled for automatic synchronization.

### Import configuration created

You can now view your import configuration, but it's not ready yet. You still need to create or review the object type and attribute mapping, and make sure there are no problems with your import configuration.

When you're ready, go to2. Create object type and attribute mapping.

#### Before you go

In the next step, you'll create the object mapping settings. Here are some settings specific to the Jira users import type.

### **Object type mapping configuration**

Name	Description
Selector	The selector for the Jira User import isn't used. User AQL to filter any data from the User data.

# **JSON** import

This import type will import objects into Assets with a JSON file that holds the data to import.Learn more about importing

(i) You need to be an Assets Manager for an object schema to create, configure, and enable imports.

## Import fields

Once you've chosen your import type, you'll need to enter details about it. Here's the description of fields you should see in Assets.



Here are general fields, common for every import type:

Name	Description	
Name	The name of the import.	
Description	The description for your convenience.	
Concatenator	You can specify a default concatenator. When joining multiple data locators into one Insight attribute, this will be the default concatenator. One example could be to join two columns like "First name" and "Last name" into one attribute. So "Mathias" (first name) and "Edblom" (last name) will be concatenated as "Mathias Edblom" if using \s as concatenator.	
	Enter \s for space-concatenated. To include a concatenate character, place the value between double quotes (i.e "\s").	
Empty Values	Defines what should happen when a Data Locator is empty. Should the import remove the attribute value or just ignores it and leave the current value as is.	
Unknown Values	Defines what should happen if a Data Locator is unknown to Insight. This could happen with attribute types like "Status" and "Select". The value can be added as an option or just ignore the value.	
Date Format	Format for date fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.	
Date/Time Format	Format for date/time fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.	

These fields are specific to an import type (module).

Setting	Description			
---------	-------------	--	--	--

Import from	Choose a file or URL.
• URL	Protocol, Hostname, and Port of where to find the external JSON file. Example: http(s):// example.com/rest/api/service orfile:///opt/csv/example.json
• File	Choose a file to upload.
Username	Optional username for basic authentication.
Password	Optional password for basic authentication.
Encoding	The encoding used in the file.

Scheduling fields are responsible for keeping your data in sync:

Name	Description
Synchronizing Account	The Jira user to use when synchronize data into Insight
Cron Expression	The interval for the automatic synchronization.
Automatically Synchronize	If the import should be scheduled for automatic synchronization.

## Pre-defined structure and configuration

In the next step, after you've filled in the required fields, Assets will ask you whether you want to create a predefined structure (object type mappings) and configuration (attribute mappings). Details of this will differ depending on the import type.

Here's some details for the Jira users import:

- The predefined structure and configuration will be created based on the JSON file/URL present in the configuration.
- Some object type mappings are disabled by default. Make sure to select the relevant ones.

#### Import configuration created

You can now view your import configuration, but it's not ready yet. You still need to create or review the object type and attribute mapping, and make sure there are no problems with your import configuration.

When you're ready, go to2. Create object type and attribute mapping.

#### Before you go

In the next step, you'll create the object type and attribute mapping. Here are some settings specific to the JSON import type.

#### **Object type mapping settings**

	Name	Description	
--	------	-------------	--

```
      Selector
      The selector for the JSON import.

      Use[Attribute.*[Attribute]]

      Exemple:

      • "items"

      • "items.item"

      • "json.data.systems"

      Only JSON arrays are valid as selector.
```

## Attribute mapping settings

Data locator:

Name	Description
attribute1[*].attribite2 [*]	The data locators provided are depending on the JSON and the selector configured.

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# LDAP import

Maybe you work with a corporate directory that contains your assets or employee-manager relationships used for approval processes. Such LDAP entries can be imported in Assets. To make things easy, Assets has modules that works with popular LDAP directories, which fetch the structure and the assets from your directory. This article shows you how to set this up.Learn more about importing

You need to be a Jira admin to create and configure LDAP imports.

## Overview

An LDAP directory is a collection of data about users and other assets. LDAP (Lightweight Directory Access Protocol) is an Internet protocol that web applications can use to look up information about those assets from the LDAP server.

We provide a built-in connectors for the most popular LDAP directory servers:

- Microsoft Active Directory
- Apache Directory Server (ApacheDS)
- Apple Open Directory
- Fedora Directory Server
- Novell eDirectory
- OpenDS
- OpenLDAP
- OpenLDAP Using Posix Schema
- Posix Schema for LDAP
- Sun Directory Server Enterprise Edition (DSEE)
- A generic LDAP directory server

## LDAPS validation

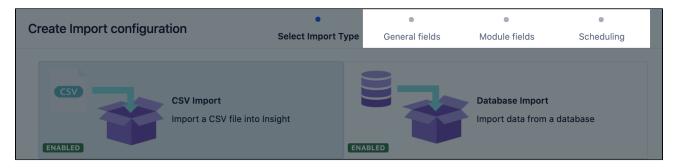
LDAPS (Secure LDAP) is supported and doesn't have any special requirements from Assets to work.

If you are trying to import from an LDAPS source, you can choose to validate the LDAP server certificate with an imported Certificate Authority (CA) certificate. If you select to validate the LDAP server certificate, you must import the root CA certificate from the CA that signed the LDAP server certificate, so your Jira can use the CA certificate to validate the LDAP server certificate. More information is explainedhere.

**Be sure to change the port to 3269**. This is due to the fact that a GC (global catalog) server returns referrals on 389 which refers to the greaterAD "forest", but acts like a regular LDAP server on 3268 (and 3269 for LDAPS) when changing from LDAP to LDAPS.

#### Import fields

Once you've chosen your import type, you'll need to enter details about it. Here's the description of fields you should see in Assets.



Here are general fields, common for every import type:

Name	Description
Name	The name of the import.
Description	The description for your convenience.
Concatenator	You can specify a default concatenator. When joining multiple data locators into one Insight attribute, this will be the default concatenator. One example could be to join two columns like "First name" and "Last name" into one attribute. So "Mathias" (first name) and "Edblom" (last name) will be concatenated as "Mathias Edblom" if using \s as concatenator.
	Enter \s for space-concatenated. To include a concatenate character, place the value between double quotes (i.e "\s").
Empty Values	Defines what should happen when a Data Locator is empty. Should the import remove the attribute value or just ignores it and leave the current value as is.
Unknown Values	Defines what should happen if a Data Locator is unknown to Insight. This could happen with attribute types like "Status" and "Select". The value can be added as an option or just ignore the value.
Date Format	Format for date fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.
Date/Time Format	Format for date/time fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.

These fields are specific to an import type (module).

Setting	Description
URL	Protocol, Hostname and Port of the server running LDAP. Example:ldap://ldap. example.com:389
User DN	The distinguished name of the user that the application will use when connecting to the directory server. Examples: • cn=administrator, cn=users, dc=ad, dc=example, dc=com • cn=user, dc=domain, dc=name • user@domain.name
Password         The password of the user specified above.	
Base DN	<ul> <li>The root distinguished name (DN) to use when running queries against the directory server. Examples:</li> <li>o=example, c=com</li> <li>cn=users, dc=ad, dc=example, dc=com</li> <li>For Microsoft Active Directory, specify the base DN in the following format:dc=dom ain1, dc=local. You will need to replace thedomain1andlocalfor your specific configuration. Microsoft Server provides a tool calledldp.exewhich is useful for finding out and configuring the the LDAP structure of your server.</li> <li>If you want specific Base DN in your object type see the Selector value below</li> </ul>

Search filter	Defines the scoop of the filter search, default is <b>(objectClass=*)</b> which will give you all entries. If you only want Jira Users for example, you can set (objectClass=person). Note that the Users in LDAP need to have the the "objectClass" set to "person". The search filter is important in the way that it can affect the synchronization time.
Search scope when importing	Search scope determines how objects should be fetched from the LDAP. Default setting is ONE_LEVEL while the locators and structure are created with SUBTREE.
Follow Referrals	LDAP functionality to make sure you always get the correct data, even in a distributed LDAP environment.
Include namespace	This option is only applicable when creating an Assets object structure from an LDAP server. The option will append the namespace e.g. <i>cn=users,ou=company,=dc=examle, dc=com</i> to the object type description. The value is not used while performing synchronizations.

ABe sure you test the synchronization in a test environment before doing it in production.

Scheduling fields are responsible for keeping your data in sync:

Name	Description
Synchronizing Account	The Jira user to use when synchronize data into Insight
Cron Expression	The interval for the automatic synchronization.
Automatically Synchronize	If the import should be scheduled for automatic synchronization.

## Pre-defined structure and configuration

In the next step, after you've filled in the required fields, Assets will ask you whether you want to create a predefined structure (object type mappings) and configuration (attribute mappings). Details of this will differ depending on the import type. Some object type mappings are disabled by default, so make sure to select the relevant ones.

You can import users or groups from only one Organizational Unit (OU) during an Assets LDAP import. For more information, see How to import users or groups from specific OUs with Assets LDAP import.

Here's some details for the LDAP import:

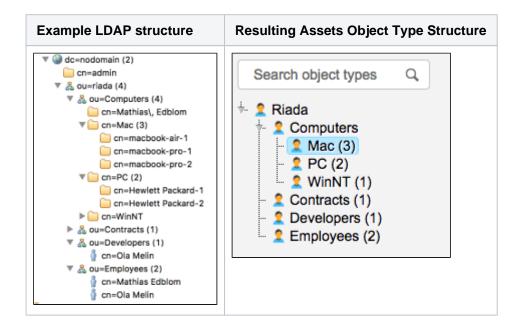
The structure will be created based on the result from the LDAP server. When creating the predefined structure a query will be sent to the LDAP server with the configuration specified and fetch the result. Based on the result an object type hierarchy will be created. Each node (identified by DN) that has children will be treated as an object type and created. The attributes belonging to the Assets object type will be the attributes found on the node in the LDAP server.

If the result returned by LDAP server retrieves objects that don't have children, then it will be not possible to create a predefined structure automatically and it should be created manually.

The predefined structure will create two additional attributes for each object type. The attribute CN (Common Name) will be used as label and the attribute DN (Distinguished Name) will be set with the property hidden.

All attributes created by the predefined structure in the LDAP import will be of type*Default Text*. If the data represent something else review the attributes and change them accordingly.

#### Example



The predefined configuration will query the LDAP server and create a configuration mapping based on the same criteria as the structure described above. As data locators all attributes found will be choosable with the addition of the CN (Common Name) and the DN (Distinguished Name).

The identifier will be set to DN for each object to uniquely identify each object from the LDAP server.

Since the predefined configuration will be different based on the connected LDAP server the following is one example mapping the Employees as seen in the previous example

#### Example

👤 Empl	oyees		
Selector IQL Missing obj Empty Value Unknown Va	es	ou=employees "DN" endswith "ou=employees,ou=riada,dc=nodor Ignore Use default Use default	nain"
Identifier	Data Locator	Insight Attribute	Object mapping (IQL)
	DESCRIPTION	DESCRIPTION	
	SEEALSO	SEEALSO	
	SN	SN	
	TELEPHONENUMBER	TELEPHONENUMBER	
	OBJECTCLASS	OBJECTCLASS	
	DN	DN	
	CN	CN S	

If the LDAP import is configured to import users one can use the REGEX configuration to split users in order to create multiple users.

#### Import configuration created

You can now view your import configuration, but it's not ready yet. You still need to create or review the object type and attribute mapping, and make sure there are no problems with your import configuration.

When you're ready, go to 2. Create object type and attribute mapping.

#### Before you go

In the next step, you'll create the object mapping settings. Here are some settings specific to the LDAP import type.

## **Object type mapping**

Name	Description
Selector	In the LDAP import type the Selector is prepended to the Base DN value before the search in LDAP is executed. The value is used to narrow down the structured tree in the LDAP to specific nodes.
	The search filter will be the same as specified in the general configuration but the selector will narrow the scope where the search filter is applied.
	For example:
	If the Base DN is <i>dc=ad, dc=example, dc=com</i> and the Selector is <i>cn=users</i> the resulting LDAP search base will be <i>cn=users, dc=ad, dc=example, dc=com</i> .

# **Object schema import**

Import structured data from an Assets object schema (Object Types, Attributes, and Objects). You can import data from another schema on the same server, or from an object schema on an entirely different server.Learn more about importing

Some use cases could be:

- Synchronize two different servers, each running a different object schema.
- Create a staging instance containing a subset of the full data from an object schema.
- Synchronize data between a master server and a set of child servers that contain a subset of the full data.

This import type won't include your schema's automation rules, roles, or any other configuration.

(i) You need to be an Assets Manager for an object schema to create, configure, and enable imports.

## Import fields

Once you've chosen your import type, you'll need to enter details about it. Here's the description of fields you should see in Assets.

Create Import configuration	• Select Import Type	• General fields	Module fields	Scheduling
CSV Import Import a CSV file into I ENABLED		ABLED	Database Import Import data from a	database

Here are general fields, common for every import type:

Name	Description	
Name	The name of the import.	
Description	The description for your convenience.	
Concatenator	You can specify a default concatenator. When joining multiple data locators into one Insight attribute, this will be the default concatenator. One example could be to join two columns like "First name" and "Last name" into one attribute. So "Mathias" (first name) and "Edblom" (last name) will be concatenated as "Mathias Edblom" if using \s as concatenator. Enter \s for space-concatenated. To include a concatenate character, place the value between double quotes (i.e "\s").	
Empty Values	Defines what should happen when a Data Locator is empty. Should the import remove the attribute value or just ignores it and leave the current value as is.	
Unknown Values	Defines what should happen if a Data Locator is unknown to Insight. This could happen with attribute types like "Status" and "Select". The value can be added as an option or just ignore the value.	
Date Format	Format for date fields in import source to convert dates into Insight. If left empty, Insight will automatically try to find correct format. The format should be specified according to theJava SimpleDateFormat guidelines.	

Date/Time	Format for date/time fields in import source to convert dates into Insight. If left
Format	empty, Insight will automatically try to find correct format.
	The format should be specified according to the Java SimpleDateFormat guidelines.

These fields are specific to an import type (module).

Setting	Description	
URL	The URL of the server that is running Jira with Assets.	
Username	The username for authentication with the other server.	
Password	The password for authentication with the other server.	
Object Schema	TheNameorObject Schema ID for the target server.	

Scheduling fields are responsible for keeping your data in sync:

Name	Description
Synchronizing Account	The Jira user to use when synchronize data into Insight
Cron Expression	The interval for the automatic synchronization.
Automatically Synchronize	If the import should be scheduled for automatic synchronization.

#### **Object collision**

Because of the possibility the two synchronizing servers might contain objects with the same name, every object imported from another server is assigned an **External Hash Key**as an attribute. This hash key is built by appending the URL, schema ID, and the object key to create a longer, unique hash.

### Pre-defined structure & configuration

In the next step, after you've filled in the required fields, Assets will ask you whether you want to create a predefined structure (object type mappings) and configuration (attribute mappings). Details of this will differ depending on the import type.

Here's some details for the object schema import:

- The predefined structure and configuration will be based upon the existing configuration of the target Assets object schema.
- Some object type mappings are disabled by default, so make sure to select the relevant ones.

#### Import configuration created

You can now view your import configuration, but it's not ready yet. You still need to map any object references or attributes between your source and Assets.

When you're ready, go to2. Create object type and attribute mapping.

# 2. Create object type and attribute mapping

Once your base import configuration is created, you need to map your data to object types and their attributes. You might not need to create full mappings if you've chosen to create a predefined structure and configuration, but this page will help you to review and edit them, if needed.

## View your import configuration

Just to make it easier to see where you are, here's a sample import configuration without mappings created (it's invalid because it doesn't have any object type mappings).

Employees CSV IMPORT		NEVER SYNCHRONIZED INVALID CONFIGURATION	¢
Import from File Username Password Timeout Delimiter Encoding	File computers.csv No Value No Value No Value UTF-8		
Automatically synchronize	False		
Synchronizing Account			
Empty Values	Remove		
Unknown Values	Add		
Concatenator	-		
Date Format	No Value		
Date/Time Format	No Value	Create Object type mapping	

## Create object type mapping

To create object type mapping:

- 1. When viewing your import configuration, selectCreate object type mapping.
- 2. Specify the required fields.
- 3. Remember that every object type mapping imports your data into a single object type. If you have more object types, you'll create more object type mappings on the same import configuration. Before you start adding another object type mappings, complete the attribute mapping, as described below.

Field	Description
Object type	The Assets object type you want to import your data into. This value can't be changed, you need to create a new object type mapping to import into another object type.
Selector	<ul> <li>This will differ based on your import type. See your type for details:</li> <li>CSV import (doesn't use the selector)</li> <li>Database import</li> <li>Jira users import</li> <li>JSON import</li> <li>LDAP import</li> <li>Object schema import</li> </ul>
Filter data source by AQL	You can filter the data to be imported by AQL before it's actually imported. For example, if you're importing data into Computers object type, you can choose to only import PCs, and not Macs. <b>Filter on object references</b> You can't filter based on object references. These are handled separately after the object is created or updated. Here's a video that explain how to split your import source into different object types using AQL:

S
Ζ

Missing objects	<ul> <li>Choose what to do if an object is missing in the data source (but exists in Assets):</li> <li>Update: Update the object with a predefined value to a specified attribute. The Threshold configuration will apply.</li> <li>Delete: Delete the object from Assets. The Threshold configuration will apply.</li> <li>Ignore: Just let the object be.</li> </ul>
Missing objects outbound references	Choose what to do if a referenced object (referenced from an existing object in your data source) is missing in the data source. For example, if an import is configured to import the referenced Host and Application object types, and one of them is missing.  Remove: The outbound reference to a missing object will be removed. Ignore: Leave the reference as is. Assets will only consider data from the <b>same</b> import so if you have multiple import configurations, this functionality will not work.
Threshold type	<ul> <li>When objects are missing in the data source, you can specify a threshold for the Update and Delete configurations. This means that Assets will wait with performing these actions until the conditions specified in the threshold are met (days or synchronizations).</li> <li>When you set the Threshold type toSynchronizationsand the Threshold number to1, missing objects will only be removed starting from the second synchronization. Similarly, if you set the Threshold number to2, missing objects will be removed from the third synchronization onwards.</li> </ul>
Threshold number	The number of days or synchronizations before performing the actions described above. If you want to remove missing objects from the first synchronization onwards, set the Threshold number to0.
Empty values	Defines what to do if a Data locator is empty. Should the import remove the attribute value or just ignore it and leave the current value? This overrides the 'General fields' configuration of your import type for this object mapping.
Unknown values	Defines what to do if a Data locator is unknown to Assets. This can happen with attribute types like "Status" and "Select". The value can be added as an option or just ignored. This overrides the General fields configuration of your import type for this object mapping.
Match identifier	Case sensitive - Identifier AQL will be built up with STRICT_EQUAL (==) which means that for text attributes, identifiers will be compared respecting case, 'Data Value' will NOT be considered the same as 'data value'. Case insensitive -Identifier AQL will be built up with EQUAL (=) which means that for text attributes, identifierswill be compared ignoring case, 'Data Value' will be considered the same as 'data value'.

## Create attribute mapping

Once your object type mapping is created, you can expand it to see the attribute mapping. Attribute mapping is created for each object type mapping separately, as you'll map data locators from your data source to the object type's attributes in Assets. There needs to be at least one attribute mapping for every object type mapping.

Emp	bloyees				ENABLED	٥
Selector Filter data Missing o Threshold Threshold Empty Va Unknown Match Ide	d Type d Number lues Values	No Value No Value Remove Days 1 Use default Use default Case sensitive				
Identifier	Data Locator	Insight Attribute	Object mapping (IQL)	Description		
	Name	Name 🍆			0	
	Computer	Computer	Label = {Computer}		٥	

Specifies if the attribute should be considered a part of the object identifier. If multiple attributes are used as identifiers, the combined value will be used to identify the object and duplicates. This is used to construct an internal AQL responsible for identifying objects.

For example, if two import attributes are configured for Assets attributes First Name and Last Name, and specified as identifiers, the following AQL will be used to identify objects in Assets:

"First Name" == <first name value from source> AND "Last Name" == <last name value from source>

All attributes can be identifiers. But, for best performance, try to use the default attribute types as much as you can. For example, if using "User" attribute as identifier, we will have to query the Jira API to find users from the data source for the configured data locator. This means that Jira might be a bottle neck in this case if you have a large User directory. Try in this case to add another attribute for the user key (Default / Text) and the import will be much faster.

If you are importing objects from a CSV file into Assets, you must identify the objects by the attribute that is assigned as a label, not their name or key. The object key is generated automatically when an object is created manually or via import. Even if the object key is present in the source file (say CSV or JSON), a new object and its key will be generated instead of using the one in the source file, especially if the object key is the identifier. This could result in multiple duplicates.

Every import type needs to provide data locators. It's what Assets recognizes as a category that holds your data. For example, in CSV import, all columns are data locators.

The Assets attribute to which you want to map the data locator, and import its data.

Only used for Assets attributes of type Object (references between objects).

In this case, you need to provide an AQL to fetch the objects to set, depending on the data provided by the Data Locator. In the examples that follows, *Name* is a reference to the value in Assets that the referenced object has, in the attribute *Name*.

You can use place holders in the AQL like:

For single attributes (max cardinality equals 1) the AQL with the placeholder could look like this:

Name =  $\{DATA LOCATOR\}$ 

For multiple attributes (max cardinality larger then 1) the AQL with the placeholder could look like this:

Name IN ( $\{DATA LOCATOR\{0\}\}$ )

The "0" (zero) stands for all values, and 1 for the first value, 2 for the second value and so on.

For more info, see Understanding import concepts.

Description for the attribute mapping, just for convenience.

You can access other configuration by selectingthe cog icon next to your attribute mapping.

#### Concatenator

When joining multiple data locators into one Assets attribute, this works as the default concatenator.

#### **Regular expression**

You can use regular expressions to edit the value from the import source.

For the regular expression we use Java syntaxhttps://docs.oracle.com/javase/7/docs/api/java/util/regex /Pattern.html. If the regular expression does not find any match the attribute is left empty. It is possible to extract from the value given by the Data Locator by making what you wish to extract the first group in the regular expression, for example using the regular expression "(\w\*)\W" (quotation marks excluded) on the value "Blue Whale" yields "Blue" to the corresponding attribute. If there is no group present and the regex finds a match the whole value is given.

Some examples:

Purpose	Pattern	Example
Validate that input contains at least one digit	\d	"foo 123 bar" is returned as is but "foo bar" gives empty attribute value
Extract first digit	(\d)	"foo 123 bar" gives 1 but "foobar" gives empty attribute value
Extract only first word of text	(\w*)\W	"Blue whale" becomes "Blue"
Shorten number to show only two decimals	(\d*\. \d\d)	12.3456 becomes 12.34

#### Next steps

When you're ready with your mappings, go to 3. Inspect your import configuration.

# 3. Inspect your import configuration

You can quickly view any elements of your import configuration that have been changed or are missing (from the expected configuration). Although you should strive for perfection, any problems here doesn't necessarily mean that your configuration is wrong, if you mapped things differently on purpose.

To inspect your import configuration,

- 1. Open your import configuration.
- 2. Select the cog icon next to it, and select **Inspect configuration**.

## Results

Here are some sample results:

- Changed:Data locator is called differently in your data source and the attribute it's mapped to. This doesn't break your import (if the mapping is done properly), but you might want to have a look why you have these differences.
- **Missing:**The expected attribute mapping is missing.

If you're seeing problems, go back to your import configuration and check what's wrong. Make sure the data you're importing is mapped to the relevant attributes.

### Next steps

When your import configuration looks fine, go to 4. Enable and sync your import.

# 4. Enable and sync your import

When your import configuration is ready (you're just about starting to import your data), you can enable your mappings and the configuration itself, and sync them.

## Enabling object type mappings

To enable the object mappings:

- 1. Select the cog icon next to the object type mapping, and select Enable.
- 2. You can keep some mappings disabled if you're not ready to import the related data.
- 3. You can also synchronize only some of your object type mappings. In any case, you need to enable your import configuration before you can sync any mappings.

## Enabling and syncing your import

To enable and sync your import configuration:

- 1. Select the cog icon next to the object type mapping, and select **Enable**.
- 2. If your mappings are ready, also select **Synchronize** for your whole configuration. This will sync any object type mappings that are enabled.
- 3. To configure regular synchronization for your import (if you haven't done that when creating your import), go to **Configure**, and move to **Scheduling fields**.

## Finishing up

If everything went ok, your data should be imported to your object types. If you're missing something, go back to your configuration and edit the fields or the mappings. It might be useful to watch some of our videos on importing to get a better understanding of how imports work. Learn more about importing concepts

# Searching for objects

To open the object view search, selectAssets>Search for objects. You can either AQL or FreeText in the text box:

- FreeText will search the text of all objects and object attributes for relevant strings, but will not search any non-string data.
- AQLcan be used to create more advanced queries using logical statements, placeholders, and references. In the object search screen, the built-in autocomplete will assist you in creating AQL searches. For more info, seeAQL Assets Query Language.

When you launch any of your favorite search filters, you get a smoother search feedback when the results are being displayed.

		2		3	
+ Create object	« E	PRO All Obje	J - ITSM Y		Clear sea
FILTERS	AG	QL search 🗸	Name LIKE "John S	mith"	Q Save as
All Objects	1-5	<b>0</b> of 115			Columns Bulk V 🕫
With unresolved tickets	к	ley	Object Type	Label	
Find more filters	P	ROJITSM-77	🐮 IP Address	192.168.208.10	
★ FAVORITES	P	ROJITSM-78	🐮 IP Address	2192.168.208.11	
All iPhones	P	PROJITSM-79	No. IP Address	192.168.208.12	
Fred's Team	P	ROJITSM-80	NIP Address	🐒 192.168.208.13	
Running Objects	P	ROJITSM-81	🐒 IP Address	🐒 192.168.208.14	
	P	ROJITSM-82	ntering IP Address	192.168.208.15	
	P	ROJITSM-83	2 IP Address	192.168.208.16	
	P	ROJITSM-84	2 IP Address	192.168.208.17	
	Р	ROJITSM-85	2 IP Address	2192.168.208.18	

- 1. Filters: List of saved and favorite filters, just like in issue search.
- 2. Type of search: Here you can switch between basic (FreeText) and advanced (AQL) search.
- 3. **Objects:** Search results, or the list of objects found.
- 4. Bulk actions: Actions that you can perform on your search results.

## Manage your search results

Here's what you can do with your search results:

Action	Description
Rearrange columns	Drag and drop columns to rearrange them. Use the <b>Columns</b> option to show or hide specific columns, and pin them so they're permanently displayed.
View object's graph	Create a new object from your search by selecting Create object in the panel at top-left.
Edit, move, or delete objects	Edit, move or delete objects that are the results of your search using the <b>options</b> button that appears on the right when you hover over your results.
Share or export search results	When viewing your search results, just select <b>Share</b> or <b>Export</b> to share your results or export them into CSV.
Save search results	Save your search results for later use by selecting <b>Save as</b> at the top-right. Saved search results become filters, and are displayed in the left-hand side menu.

## Manage your filters

Searches that you saved, or filters that have been shared with you, appear as filters in the panel on the left. You can select the **Options**menu next to a filter name to edit, delete, or remove it from your favorites.

FILTERS	~		<b>∨</b> nnes		
All Objects		IQL search	<pre>objectType == "Cel</pre>	llular Phone"	
With unresolved tickets					
		<b>1-1</b> of 1			
Find more filters		Кеу	Object Type	Label	
★ FAVORITES		IT-22	Cellular Ph	Pixel XL 2	
Pixel Phone		<b>1-1</b> of 1			
Phones	÷				
Confluence Links	Remov	e from favorites			
Asset Details	Edit				
My objects	Delete				

#### Modify multiple objects with bulk actions

You can also modify multiple objects from your search results.

- 1. When viewing your search results, select **Bulk**, and choose one of the bulk actions.
- 2. In the next step, you'll be able to select specific objects by selecting them. This helps you to further limit the objects you want to complete a bulk action on.

Filter	Update	e Discard changes	5				Clear sear
IQL search 🗸	ObjectType IN	"Host" AND Name LIK	E "canal"			۹ :	Save as
<b>1-2</b> of 2					Col	umns Bulk 🗸	* 4
Key	Object Type	Cores Per Proce	Created	Label	Updated	Edit	
IT-27	🖥 Host		03 Apr 2019 11:29	🗐 canalpub.tv	25 Apr 2019 12:01	Move Delete	
IT-28	🗐 Host		03 Apr 2019 11:29	🗐 canalpub.tv-10.10	25 Apr 2019 12:01	Print labels	
-2 of 2						Print QR codes	

## Advanced search: AQL - Assets Query Language

Ready for some more advanced information? AQL can be used to create advanced queries using logical statements, placeholders, and references. You'll see it not only to search for your objects, but also to call them out when configuring custom fields and relations between objects.

- Advanced searching: AQL Assets Query Language
- Advanced: Placeholders
- Assets AQL functions

# Advanced searching: AQL - Assets Query Language

AQL (Assets Query Language) is a language format used in Assets to create search queries for one or more objects. Using AQL, you can return any object or group of objects in Assets in a search, filter objects, modify objects, create custom fields, automations and post-functions, and more.

### Basic syntax

The basic syntax of an AQL query is**<attribute> <operator> <value/function>**. One or more objects is returned by the query when the attributes of these objects match the operator and value specified.

### Example

• A basic AQL query that returns all objects for which the Owner is "Jennifer Evans". Note the quotations around "Jennifer Evans" they're needed because of a space in the value name.

+ Create object 《	PROJ - ITSM V Search Clear search				
FILTERS	AQL search $\checkmark$	AQL search V Owner = "Jennifer Evans"			
All Objects With unresolved tickets	1-2 of 2 Columns		Columns Bulk $\lor \propto_{o}^{o} \stackrel{\bullet}{\perp}$		
	Key	Object Type	Label		
Find more filters	PROJITSM-46	Mobile Ph	iPhone SN: 12345678		
★ FAVORITES	PROJITSM-17	Computers	E MacBook MBP M1		
All iPhones	<b>1-2</b> of 2				
Fred's Team					
Running Objects					

#### Syntax for special characters

AQL has a defined syntax and must be entered exactly.

- AQL is case-sensitive.
- If you are using an expression where the value or attribute contains a space, you must include quotations surrounding the value, for example "Ted Anderson".
- If you are using an expression where the value or attribute contains quotation marks, you must escape the quotes by surrounding them with backslashes. For example, if you have an object name such as 15" Screen, to search for it enter:"15\" Screen"
- The attribute name that you specify in the AQL must exist in your Assets schema. If not, the AQL will be considered invalid. The attribute name is case sensitive.

## Dot notation

Dot notation is used in AQL to travel down a reference chain of objects. The format<attribute>.<attribute> <operator> <value/function>will return information based upon objects referenced by the parent object.

#### Example

In this case, the Employee object type has a referenced attribute called "Belongs to Department". The query returns all the Employees which belong to the "Management" department.

Note that since the referenced attribute contains spaces, it has been enclosed with a pair of double quotes.

+ Create object 🔍	PROJ - ITSM ~ Clear search				Clear search
FILTERS	AQL search $\checkmark$	"Belongs to Depart	ment".Name="Management"		Q Save as
All Objects Columns				Bulk ∨ ∝₀° ≛	
	Кеу	Object Type	Label		
Find more filters	PROJITSM-93	🙎 Employees	👥 Fred Astair		
★ FAVORITES	PROJITSM-94	🙎 Employees	👷 Sara Peen		
All iPhones	1-2 of 2				
Fred's Team					
Running Objects					

## Keywords

You can use keywords in AQL to return one or more objects based upon properties of those objects instead of the object's attributes. The syntax looks like this:<**keyword><operator> <value/function>.** 

For example, you could return all objects of a specific object type using the**objectType**keyword, or all objects of any type with a certain attribute by using the**anyAttribute**keyword. The table below describes the keywords supported along with their respective examples.

Keyword	Description
objectType	You can limit the search result to a specific object type name, e.g. objectType =" Employment Start Date". Note that the since the attribute contains spaces, it is enclosed within a pair of double quotes.
objectTypeld	You can limit the search result on object type ids. e.g. objectTypeId in (1, 2).
anyAttribute	You can searchall attributes on all objects for a relevant match. e.g. "anyAttribute = 123.123.123.123".
	Note that the use of this keyword may cause delays in searching results. The larger the Assets installation, the more time it will take to execute a query with this keyword.
object	You can limit the search to the object, e.g. "object having inboundReferences()" will search all objects having any inbound references to it.
objectId	You can find an object by object Id, e.g. "objectId = 114". Note that the object id is the number from the Key of the object, but without the prefix. E.g. if the Key of your object is ITSM-1111, then the prefix is ITSM and the object id is 1111. Note that the Key could change when you move objects across schemas.

#### Example

• An AQL query that returns all objects with the "Computers" object type

+ Create object 《	PROJ - ITSM ∽ <sub>Search</sub>			Clear se	arch		
FILTERS	AQL search $\checkmark$	objectType = "Com	puters"		۹	Save as	B
All Objects With unresolved tickets	<b>1-7</b> of 7			Columns	Bulk 🗸	a <sub>0</sub> 0	Ţ
	Key	Object Type	Label				
Find more filters	PROJITSM-111	Computers	E Actarus				
★ FAVORITES	PROJITSM-14	Computers	E Latitude 7480 D1				
All iPhones	PROJITSM-15	Computers	E Latitude 7480 D2				
Fred's Team	PROJITSM-16	Computers	E Latitude 7480 D3				
Running Objects	PROJITSM-17	Computers	MacBook MBP M1				
	PROJITSM-18	Computers	MacBook MBP M2				
	PROJITSM-19	Computers	E MacBook MBP M3				
	<b>1-7</b> of 7						

## Operators

Operators allow you to create more detailed logical expressions.

The table describes the operators supported in AQL.

Operator	Description	Example AQL query
=	Equality test for case insensitivev alues.	"Office = Stockholm"
	alues.	Checks if the Officeattribute has a value equal to Stockhol m or STOCKHOLM
==	Equality test for <i>case sensitive</i> val	"Office—Stockholm"
	ues.	Checks if the Officeattribute has a value equal to Stockhol mconsidering the case of the input provided.
!=	Inequality test	objecttype-Employee and Office!=Stockholm
		Checks if the <i>Employee</i> object has an attribute <i>Office</i> whos evalue is NOT equal to <i>Stockholm</i> .
<	Less than test.	"Price < 2000"
		Checks if the Price is less than 2000 dollars.
>	Greater than test.	"Price > 2000"
		Checks if the Price is greater than 2000 dollars.
<=	Less than or equal to test	"Price <= 2000"
		Checks if the Price is less than or equal to 2000 dollars.
>=	Greater than or equal to test.	"Price >= 2000"
		Checks if the <i>Price</i> is greater than or equal to 2000 dollars.
like	Matches a value with any subset of input in the query. It is case insensitive.	"objecttype=Employees and Office like Stock"

		Returns all objects of <i>Employees type</i> which have an <i>Office</i> attribute value that contains the characters ' <i>Stock'</i> or ' <i>STOCK</i> '
not like	Excludes values which match with any subset of input in the query.	"objecttype=Employees and Office not like Stock" Returns all objects of Employees typewhich have an Office attribute value that DO NOT contain the characters 'Stoc k'
in()	Finds a match in the given arguments and returns results.	Office in ("Stockholm", "Oslo", "San Jose") Returns all objects of Officetypewhich HAVE one of these values: Stockholm, Osloor San Jose.
not in()	Excludes the results for which a match is found in the given arguments.	Office not in ("Stockholm", "Oslo", "San Jose") Returns all objects of Officetypewhich DO NOT HAVE one of these values: Stockholm, Osloor San Jose.
startswith	Finds a match whose value starts with the given input. It is case insensitive.	"Office startsWith St" Returns results which match values of Officetype starting with the characters "St" or "ST"
endswith	Finds a match whose value ends with the given input. It is case insensitive.	"Office endsWith St" Returns results which match values of Officetype ending with the characters"St" or "ST"
is	Helps test whether a value exists or not.	"Office is EMPTY" Checks whether the value of the Officetype exists and returns results accordingly. "Office is not EMPTY" Checks whether the value of the Officetype is not empty.
dot operator (.)	Helps navigate the <i>Referenced</i> ty pes attributes for an object. This operator is commonly used in: inboundReferences() or inR() functions. outboundReferences() or outR() functions. Order by clause.	"Country.Office = Stockholm" The dot operator here navigates to the referenced object Officein the attributeCountryand comparesOfficewith the valueStockholm.
having	Used with either theinboundReferences() ORoutboundReferences() functions	"object havinginboundReferences()" Returns all objects having inbound references.
not having	Used with either theinboundReferences() ORoutboundReferences() functions	"object not havinginboundReferences()" Excludes all objects having inbound references and returns results.

#### Example

An AQL query that uses the IN operator and objectType to return objects of three different object types.

+ Create object 《	PRO. Search				Clear sea
FILTERS	AQL search $\checkmark$	objectType IN ("Co	mputers", "Employees", "CPU")		Q Save as.
All Objects With unresolved tickets	<b>1-21</b> of 21			Columns	Bulk ∨ ∝₀
	Key	Object Type	Label		
ind more filters	PROJITSM-111	Computers	E Actarus		
r FAVORITES	PROJITSM-92	🙎 Employees	👷 Anton Dry		
II iPhones	PROJITSM-93	🙍 Employees	👥 Fred Astair		
red's Team	PROJITSM-1	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz		
Running Objects	PROJITSM-2	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz		
	PROJITSM-3	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz		
	PROJITSM-4	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz		
	PROJITSM-5	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz		
	PROJITSM-6	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz		
	PROJITSM-7	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz		
	PROJITSM-8	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz		
	PROJITSM-14	Computers	📃 Latitude 7480 D1		
	PROJITSM-15	Computers	E Latitude 7480 D2		
	PROJITSM-16	Computers	📃 Latitude 7480 D3		
	PROJITSM-17	Computers	E MacBook MBP M1		
	PROJITSM-18	Computers	E MacBook MBP M2		
	PROJITSM-19	Computers	MacBook MBP M3		
	PROJITSM-94	🙎 Employees	👷 Sara Peen		
	PROJITSM-95	🙎 Employees	👷 Tess Aguila		
	PROJITSM-112	CPU	Virtual CPU		
	PROJITSM-96	2 Employees	👷 Wes Shults		

## Combination operators

You may use operators such as AND/OR to create larger and more complex AQL expressions.

#### Example

An AQL query that includes two statements linked with the AND operator

AQL search ∨	objectType = "Com	puters" AND "Operating System" = "Microsoft W	indows 10 Pro"	Q Save as
<b>2</b> of 2			Columns	Bulk ∨ ≪ 1
Key	Object Type	Label		
PROJITSM-111	Computers	📃 Actarus		
PROJITSM-14	Computers	Latitude 7480 D1		

Functions

You can use different functions to supply dynamic values to AQL expressions.

Туре	Function name	Description	
Date	now() startOfDay	You can use a range of functions to write queries which involve date and time.	
	() endOfDay()	We usemfor minutes, hfor hours, dfor days and wfor weeks to represent relative time.	
	startOfWe ek() endOfWee	e.g. A query with a condition like: <i>Created</i> > "now(-2h 15m)" returns all objects created in the last 2 hours and 15 minutes.	
	k() startOfMon	e.g. A query containing something like:objectType = <i>Employees and</i> " <i>Employment End Date</i> " < <i>endOfMonth(-90d)</i>	
	th() endOfMont h()	returns all Employee objects whose <i>Employment End Date</i> falls before 90 days from the current month's end date.	
	startOfYea r() endOfYear ()	e.g. You may also check for an upcoming date, e.g. check when the license of a software expires by the end of the year. Your query can then include something like : <i>licenseEndDate</i> = <i>endOfYear()</i>	
		You can use all other date functions in a similar manner.	
IP Address	CIDR(IP RANGE)	CIDR(IP RANGE)-Filter on IP ranges	
		e.g. "IP Address" IN CIDR("192.0.0.0/8") "IP Address" IN CIDR("192.168.0.0/16")	
User currentUse r()		You can filter on user attributes connected to the current (logged in) user by invoking this function in your AQL query. Note that the attribute used in the query for filtering needs to be of type User.	
		e.g.objecttype = Computer and User = currentUser()	
		This function will work when a currentUser is selected, ie. the user is logged in.	
	currentRep orter()	You can filter on user attributes connected to current reporter in custom fieldsby invoking this function in your AQL query.Note that the attribute used in the query for filtering needs to be of type User.	
		e.g. <i>User = currentReporter()</i>	
		This function will only work when an issue is selected, and refers to the reporter that appears in the current issue.	
	user (user1, user2,)	You can filter on objects which have areference to the users that you provide in the argument list of the function. The attribute used to filter must be of User type.	
		This function will work with multiple arguments only if the <i>User</i> type attribute that you filter on allows multiple values i.e, the cardinality for it is more than one.	
		e.g. An object type <i>Team</i> has an attribute <i>Member</i> . This attribute is of <i>User</i> type. Additionally, this attribute has been configured to have a cardinality of 3. If you want to search a set of <i>Team</i> objects where the users: <i>admin</i> and <i>manager</i> are its members, you can write the following query:	
		objecttype=Team and Member having user("admin", "manager")	

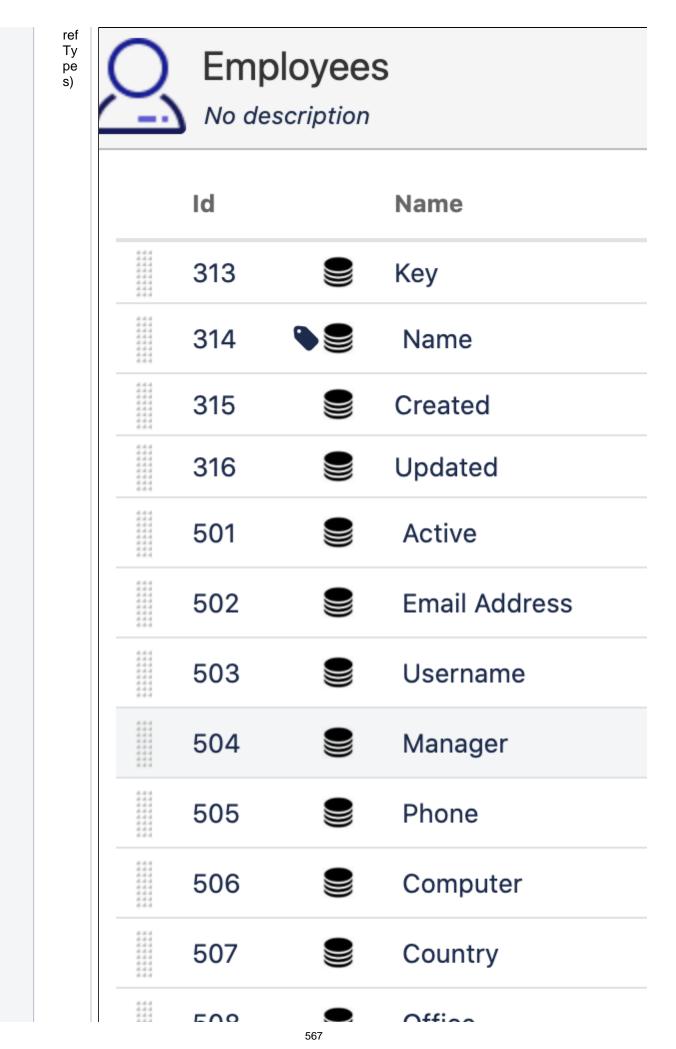
Group	group (group1, group2,)	You can filter on any object connected to a user within a specific group. The attribute used to filter has to be of <i>User</i> type. e.g. <i>User in group("jira-users", "jira-administrators")</i>	
	user (user1, user2,)	<ul><li>Filter on any object connected to a user within a specific group. The attribute used to filter has to be of <i>Group</i>type.</li><li>e.g.<i>Group having user("currentReporter()")</i></li></ul>	
Project	currentProj ect()	<pre>Filter on any object connected to the currently selected Jira project. Works only in the context of a ticket. e.g.Project = currentProject()</pre>	

## **Reference functions**

Reference functions are functions that take two arguments - AQL and/or a reference-type argument. Essentially, you can use reference functions to run an AQL query on a subset of objects of a particular reference type. Such a query will run on a small subset of the total objects, which allows you to limit results and/or processing time.

- The AQL argument can be an arbitrary AQL including an AQL with reference function.
- The Reference Type argument is optional.

Sr. no	Name	Description
а	<ul> <li>inb ou nd Ref ere nc es (A QL)</li> <li>inR (A QL)</li> </ul>	Filter objects having inbound references where the referenced objects match the AQL query pre- e.g. An AQL query like: object having inboundReferences() will return all objects having inbou But an example query like: <i>object having inboundReferences(Name="John")</i> will returnall object
b	<ul> <li>inb ou nd Ref ere nc es (A QL , ref ere nc eT yp es)</li> <li>inR (A QL ,</li> </ul>	This is a variant of the inboundReferences(AQL) function described in (a) Using this, you can filter the inbound referenced objects further by providing the <b>Reference T</b> } Reference Type is the <b>Additional Value</b> field that you provide on an attribute when you define



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				000		Unice
				509		Action Status
		will Sir	l return obj nilarly, an .	ects which have in AQL query like: <i>obj</i>	boundreferenced	ectType = "File System", refType IN ("Deper- objects of "File System" and only for those File jectType = "File System", refType IN ("Depe objects of File Systemand for those File System
C	<ul> <li>out bo un dR efe ren ces (A QL)</li> <li>out R (A QL)</li> </ul>	Filt e.g	er objects J. An AQL	having outbound r query like: object h	eferences where t	the referenced objects match the AQL query eferences() will return all objects havingoutb dReferences(Name="John")will returnall objects
d	<ul> <li>out bo un dR efe ren ces (A QL , ref ere nc eT yp es)</li> <li>out R (A QL</li> </ul>	Us Re e.g will Sin	ing this, yo ference Ty g. An AQL I return obj nilarly, an a	ou can filter the out ype is the <b>Addition</b> query like this: <i>obje</i> fects which haveou AQL query like: <i>obj</i>	bound referenced al Valuefield that act having outR(ob atboundreferenced act having outR(o	) function described in (b) objects further by providing the <b>Reference</b> 1 you provide on an attribute when you define bjectType = "Employees", refType IN ("Locat dobjects of Employeesand only for those Emp bjectType = "Employees", refType IN ("Loca dobjects of Employeesand for those Employe

|--|

## Example

An AQL query that uses the inR function to return all objects that are of object type "Computers", and have inbound references of type "A reference" or "IP Address"

AQL search $\checkmark$	object having inR(c	objectType="Computers", refType IN ("A reference", "IP	Address"))	۹	Save as	s
<b>10</b> of 10			Columns	Bulk ∨	α <sub>0</sub> ο	ć
Key	Object Type	Label				
PROJITSM-77	🐒 IP Address	192.168.208.10				
PROJITSM-78	IP Address	💐 192.168.208.11				
PROJITSM-79	🐒 IP Address	192.168.208.12				
PROJITSM-80	IP Address	192.168.208.13				
PROJITSM-82	2 IP Address	192.168.208.15				
PROJITSM-83	IP Address	192.168.208.16				
PROJITSM-87	2 IP Address	2192.168.208.2				
PROJITSM-2	CPU	Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz				
PROJITSM-5	CPU	🛄 Intel(R) Xeon(R) CPU E7- 4830 @ 2.13GHz				
PROJITSM-112	CPU	Virtual CPU				

## Using the connectedTickets() function

The**connectedTickets**()function is used to filter objects having ticketsconnected to them. Specific Jira issues may be selected by providing a proper Jira Query Language(JQL) query. If no JQL query is provided, all objects having Jira issues connected are returned.

Name	Description
connectedTickets()	All objects having tickets connected to them are returned.
connectedTickets(JQL query)	Object having tickets connected to them that match given JQL queryare returned.

## Example

This query runs a JQL query (labels IS empty) on all connected issues, and then returns objects based on the results

AQL search ∨	object HAVING cor	nnectedTickets(labels is empty)	Q	Save as
•9 of 9			Columns Bu	lk ∨ ∝° i
Кеу	Object Type	Label		
PROJITSM-97	Memory	E 32GB DDR4-2400 ECC REG DIMM		
PROJITSM-34	Network I	Apc Network Management Card 2		
PROJITSM-72	Business	O Billing Service		
PROJITSM-73	O Business	C Email Service		
PROJITSM-74	Business	ERP Service		
PROJITSM-26	Servers	exchange.prod.app1		
PROJITSM-30	Servers	oracledb-11g-prod		
PROJITSM-75	Business	Payroll Service		
PROJITSM-31	Servers	sap-erp-prod		

## Using the objectTypeAndChildren() function

This function is used to return objects (and their children) of a specific object type.

Name	Description
objectTypeAndChildren (Name)	Filter objects based on the object type specified by theNameand its children. If the name contains spaces, make sure you enclose it within a pair of double quotes.
objectTypeAndChildren (ID)	Filter objects based on the object type specified by the IDand its children.

### Example

An AQL query that returns all objects and child objects from the "Hardware" object type

PRO. Search	J-ITSM 🗸		Clear searc
AQL search $\checkmark$	objectType IN obje	ctTypeAndChildren("Hardware")	Q Save as
<b>1-50</b> of 53			Columns Bulk V 🗠 🖞
Key	Object Type	Label	
PROJITSM-97	Memory	E 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-98	Memory	M 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-99	Memory	32GB DDR4-2400 ECC REG DIMM	
PROJITSM-100	Memory	E 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-101	Memory	E 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-102	Memory	E 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-103	Memory	S2GB DDR4-2400 ECC REG DIMM	
PROJITSM-104	Memory	E 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-105	Memory	32GB DDR4-2400 ECC REG DIMM	
PROJITSM-106	Memory	E 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-107	Memory	E 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-108	Memory	E 32GB DDR4-2400 ECC REG DIMM	
PROJITSM-109	Memory	32GB DDR4-2400 ECC REG DIMM	
PROJITSM-110	Memory	32GB DDR4-2400 ECC REG DIMM	
PROJITSM-111	Computers	Actarus	
PROJITSM-34	Network I	Apc Network Management Card 2	
PROJITSM-35	Network I	Apc Network Management Card 2	

Functions, references, and AQL can be combined in powerful ways. For example, you could add multiple object references to a custom field attached to an object, and then search those references for a specific key:

object HAVING inboundReferences(Key IN ( $\{MyCustomField\{0\}\}$ ))

Or a specific label, by using dot notation:

object HAVING inboundReferences(Label IN (\${Portfolios.label\${0}}))

Note that the above two queries make use of Assets placeholders.

#### Ordering

You can order the results of your query by adding the following suffix to any AQL:

order by [AttributeName|label] [asc|desc]

#### Good to know

- If you do not specify an order by clause, the default will be ascending order by the *label*attribute of an object type.
- If the attribute specified in the order by clause is of the object reference type you can use dot notation to order by attributes on the referenced object. E.g. if you want to order by the referenced *Department*o bjectof an *Employee*object, you can mention the clause like: order by Employee.Department. This can

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be done in unlimited depth. However, note that the every dot in the order by clause will decrease the performance of that particular AQL.

- Missing values will appear at the top of the list. This will hold true if the order in the query is ascending order : "asc".
- The attribute name specified in the AQL must exist in Assets. If not, the AQL will be considered invalid. The attribute name is case sensitive.
- If the results**do not**contain the attribute specified in the "order by" clause the order of the objects returned will be arbitrary.
- The placeholder label can be used instead of the attribute name to order the objects by their configured label.

#### Example

These search results are ordered in descending order by their keys

PROJ - ITSM → <sub>Search</sub>					
AQL search 🗸		Q, S	ave as		
<b>1-7</b> of 7			Columns	Bulk ∨	∞° ±
<b>↓</b> Key	Object Type	Label			
PROJITSM-111	Computers	Actarus			
PROJITSM-19	Computers	A MacBook MBP M3			
PROJITSM-18	Computers	MacBook MBP M2			
PROJITSM-17	Computers	MacBook MBP M1			
PROJITSM-16	Computers	E Latitude 7480 D3			
PROJITSM-15	Computers	E Latitude 7480 D2			
PROJITSM-14	Computers	😑 Latitude 7480 D1			
<b>1-7</b> of 7					

# **Advanced: Placeholders**

Assets supports a wide range of different placeholders that allow you to dynamically replace a specified placeholder with anything from an Issue field value, Assets Object attribute value or other Assets related information depending on the context.

## When to use placeholders?

Here are some use cases that will show you how placeholders work:

- Get an email when a license is about to expire, with the **name** and **end date** of that specific license.
- Set/update an object attribute with the value from an issue field when issue is transitioned to a specific status.

What these use cases have in common is that you know where to find the value, but not what the value will be at the time when you'll need it. Placeholders will find the right value.

## Placeholder structure

The placeholders are structured like this:

```
${Name of placeholder}
or
${Name of placeholder${Number}}
```

#### The following table describes how placeholders are used, with some examples:

Placeholder	What it does	Example placeholder	Replaced with value
\${Name of	Replaces the content \${Name of placeholder} with the	\${Name}	One object
placeholder}	value matched by Name of placeholder	\${Email}	myemail@f akse.se, anotherem ail@fakse. se
\${Name of	Replaces the content \${Name of placeholder\${0}} with	\${Price\${0}}	12
placeholder\${0}}	all values matched by <i>Name of placeholder</i> . This is used to match multiple values e.g. when populating an attribute with multiple cardinality and all values will be one instance of that attribute. When replaced as text this is similar to the above example but when replaced in a multi value context this notation will render multiple values but the above will render one value as a comma separated string.	\${Email\${0}}	myemail@f akse.se, anotherem ail@fakse. se
\${Name of	Replaces the content \${Name of placeholder\${1}} with	\${Price\${1}}	12
<pre>placeholder\${1}} the first value matched byName of placeholder.This is used when only the first value is required</pre>		\${Email\${1}}	myemail@f ake.se
\${Name of placeholder\${n}}	Replaces the content \${Name of placeholder\${n}} with the n:th value matched by <i>Name of placeholder</i> .This is	\${Price\${2}}	<empty value&gt;</empty 
	used when only the n:th value is required	\${Email\${2}}	anotherem ail@fakse. se
		\${Email\${4}}	<empty value&gt;</empty 

### Placeholder context

Placeholders can replace different data for different contexts (custom fields, automation, post functions).

#### Automation rules

For more info on automation rules, see Automation rules.

Placeholder name	Value	Description
Attribute Name	The attribut e value	The value of the attribute with the same name as the placeholder. This will render the attribute in the human readable form.
Attribute Name.id	The attribut e value as stored	The value of the attribute with the same name as the placeholder. This will render the attribute in the form that is stored. e.g. if the attribute is an object reference this will render the referenced object id. This will only work on attributes that are stored with another value than presented.
label	The label of the object	The value is replaced by the configured label for the object.
objectType	The object type name of the object	The value is replaced by the object type name.
objectTypeld	The object type id	The value is replaced by the id of the object type of the current object.
objectId	The objects id (not the key)	The integer that identifies this object.
Кеу	The key of the object	The key value of the current object.

## **Object create / edit**

When creating or editing objects with object reference attributes you can specify an AQL that is used to limit the selection of objects. The placeholders available are all the attributes available in the create/edit dialog.

	Example	1				Create Object	Objects Attributes Graph	Object Type -
	No description	1						
	Id	Name			-		Additional Value	
	Id	Name	Description		Туре	Type Value	Additional value	
	5223913	Key			Default	Text		
***	5223914 <b>\</b>	Name	The name of the object		Default	Text		0
	5223915	Created			Default	DateTime		
	5223916	Updated	Configure: Computer		Default	DateTime		
	5224017	Manufacturer			Default	Text		0
	5224033	Computer	General Cardinality Filter objects		Object	Computers	Dependency	0
			IQL Vendor = \${Manufacturer}		Default	- Text -		Add
		Atlassi	an J		a problem			
				Update Cano	el			
				· · · ·				

Placeholder name	Value	Description
Attribute Name	The attribute value	The value of the attribute with the same name as the placeholder. This will render the attribute in the human readable form
Attribute Name.id	The attribute value as stored	The value of the attribute with the same name as the placeholder. This will render the attribute in the form that is stored. e.g. if the attribute is an object reference this will be the id of the object that is referenced.

Here's a video if you'd like to see how this can be done:

#### **Post-functions**

For more info on post-functions, see Post-functions.

The following post-functions support placeholders:

- Email user(s) based on attribute in a selected Assets object
- Set the value of an object attribute with a predefined value
- Assign object/s based on an AQL query

#### **Custom fields**

For more info on custom fields, see Assets custom fields.

The standard Assets custom field "Assets Object/s" supports placeholders for any issue field data. This is configured in the "Issue Scope AQL" and can be constructed as the following example:

```
Organisation = ${customfield_12345.name} AND Location = ${Country} AND "Issue Type" like ${issuetype.
name}
```

The placeholders will be replaced with the identifiers for the specific underlying objects. Remember to use IN in the AQL if you have multiple values.

Custom field key	Custom field name	\${placeholder.id} / \${placeholder. key}		
------------------	----------------------	----------------------------------------------	--	--

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\${customfield_xxxxx}	<custom field<="" th=""><th>The identifier</th><th>The label /</th></custom>	The identifier	The label /
	Name>		name

The table below shows the keys for issue placeholders to use for Jira fields. Make sure to use IN for multi values to not break the AQL:

lssue key	Label / Description	Multiple	Туре	\${key.id}	\${key. label}
key	The Issue Key	false	String	key	key
affectedVersions	Affected Versions	true	Version	ld	Name
assignee	Assignee	false	ApplicationUser	userKey	Display Name
description	Description	false	String	description	description
duedate	Due Date	false	Date	duedate	duedate
fixVersions	Fix Versions	true	Version	ld	Name
issuekey	Issuekey	false	String	key	key
environment	Environment	false	String	environment	environment
issuetype	Issue Type	false	IssueType	ld	Name
creator	Creator	false	ApplicationUser	userKey	Display Name
labels	Labels	true	String	labels	labels
components	Components	true	ProjectCompone nt	ld	Name
attachments	Attachments	true	Attachment	ld	filename
priority	Priority	false	Priority	ld	Name
pid	Project	false	Project	ld	Name
reporter	Reporter	false	ApplicationUser	userKey	Display Name
resolution	Resolution	false	Resolution	ld	Name
votes	Votes	true	Long	votes	votes
watchers	Watchers	true	Long	watchers	watchers
resolutiondate	Resolution Date	false	Date	resolutiondate	resolutiondate
created	Created	false	Date	created	created
updated	Updated	false	Date	updated	updated
status	Status	false	Status	ld	Name
summary	Summary	false	String	summary	summary

The *issuetype* placeholder won't work for Jira Service Management requests. You must use a custom field instead:

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#### Wrong: issuetype

"Related Jira Projects" = currentProject() AND "Related Jira Issue Types"."Name" in (\${issuetype.label}) AND Status = "Active"

#### **Right: customfield**

```
"Related Jira Projects" = currentProject() AND ("Related Jira Issue Types"."Name" in (${issuetype.
label}) OR "Related Jira Issue Types"."Name" in (${customfield_10654})) AND Status = "Active"
```

# **Assets AQL functions**

We provide a number of JQL functions that can be in handy when searching for issue in Jira. Below we will describe how they work and what you can do with them. If you have any request for additional JQL functions, please let us know and we will add it to our backlog.

#### (i) What is issueFunction below?

In the JQL examples below you will find something called **customField.** It is your custom field that you may add to your Jira instance. Remember that the name is of your own choice, so use the ones that you have created.

# aqlFunction

using the AQL function with object schema or specifying an object type in the AQL will increase performance by a lot. If the AQL function is used when calculating JSD SLA's for instance, try to limit the AQL by adding object type name, schema id or object key since this will decrease the execution time of the query.

## aqlFunction(aql)

aql is the AQL to filter on.

#### Example:

customField in aqlFunction("Customer.\"Account Manager\" = \"Mathias Edblom\"")

#### or

customField in aqlFunction("Host.Virtual = true")

This will filter any issues where an application is reported and where the application is installed on a virtual server.

#### aqlFunction(object schema name/id, aql) (Deprecated)

This one is deprecated since the object schema/s are determine by the custom field configuration it self. This possibility will be removed in future releases.

Object Schema Name/ID is the name (or id) of an object schema.

aql is the AQL to filter on.

# attributeValue (Deprecated)

() This JQL function is deprecated. Use the **aqlFunction** instead!

#### attributeValue(attribute, operator, value)

Attribute is the name of an object type attribute.

Operator can be one of the following: "=", "!=", "<", "<=", ">", ">=", "like", "startswith", "endswith"

Value is the value to search on.

Example:

customField in attributeValue("salary", ">", "70000")

This will return all issues with an insight object connected and the object has an attribute "salary" and the value is more then 70000.

Example:

```
customField in attributeValue("Expiration Date", "<", "28/Jun/14")</pre>
```

This will return all issues with an insight object connected and the object has an attribute "Expiration Date" and the date is earlier then 28/Jun/14.

You may use now() to use current date. Use now(90) to add 90 days from today and similar query's like now(-30).

#### Example:

```
customField in attributeValue("Name", "like", "joh")
```

This will return all issues with an insight object connected and the object has "joh" somewhere in the name.

Example:

```
customField in attributeValue("Owner", "=", "Mathias Edblom")
```

This will return all issues with an insight object connected and the Jira user "Mathias Edblom" is the owner of the object/s.

(i) For User type, you may use "currentUser()" to filter on the current user. Ex: customField in attributeVal ue("Owner", "=", "currentUser()")

Note that attribute name are case-sensitive in the attribute Value function!

# Working with reports

You can use dynamic reports to view information about your object schema in a variety of formats. You can create a report based on any of the default report types.

# Creating a report

- 1. In the top navigation bar, select **Assets** > **Reports.**
- 2. Select New Report.

Report manage	er					New report
FILTERS	~~	1-13 of 13		Group by	✓ Order by A-Z	~ =
<ul> <li>My favorites</li> <li>Shared with me</li> </ul>		Deleted quick search filter Object search report		G Administrator		:
Shared by me		Employes per state     Attribute value count report		😡 Administrator		* 1
Report Name		Host vendors Attribute value count report		😡 Robert Lance	apple banana orange	★ ∃
Labels		Two-dimensional report		Administrator		
All labels Owned By	~	Issues associated to objects Issue count report	For the current year	😡 Erika Smith	apple	:
All authors	~	IT - My objects Object search report		😡 Erika Smith	banana	:
		Object search report		🧒 John Bell		:
Clear filter		Objects created Object count report	For the current month	💿 Robert Lance	orange	:
		Office Contacts Object search report		G Administrator		:
		Office contacts chart Attribute value count report		G Administrator		:
		Roles Attribute value count report		Administrator		<b>*</b> :

Once you start creating reports, they'll appear in the report manager. Here you can order and filter them, or do many other things, such as printing, sharing, and syncing your reports. To see the list of available actions for your reports, select**Options**next to each report.

## Report types

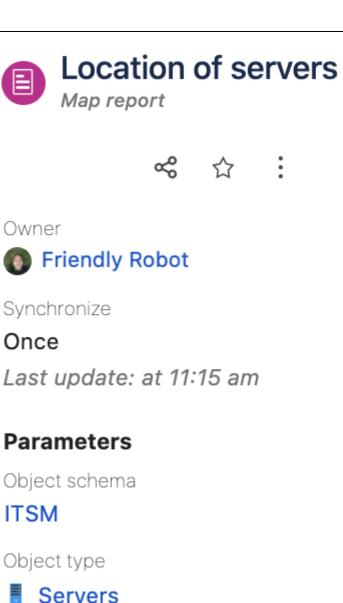
Here are all report types that you can create in Assets:

Report	Description	Example
Attribut e value count report	Pie chart showing how the objects of an object type are distributed based on attributes.	Image: Components by Vendor!       Image: Components by Vendor!         Description       Image: View as pie chart         Image: Components by Vendor!       Image: View as pie chart         Description       Image: View as pie chart         Object schema*       Object schema*
		AM Vietem Digital Object type*
		<ul> <li>              Component</li></ul>

Attribut	Chart	🔝 New Attribute value report 🛛 🕹
e value	showing	
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	reported for	
	one or more	Synchronize Once  V
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		Parameters Period*
		Current week O V
		Prequency*
		Object schema* Sample IT Asset Schema
		Object type "
		■ File System ● ✓
		Numeric attributes* 3000
		Size x Used x OV
Catalog	Catalog of	Editing ITSM - Demo Catalog
report	objects and	
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		Description I DEMOITSM-185006 - exchange.prod.app1
	attributes.	Updated 31 Oct 2019 14:24 Status
		Synchroniza Environment Restanten Once V Opensforg System @ OnceAnnex SYSTEM (1)
		DEMOTISM-150053-Windows Server 2019 Standard     Labels     Updated 31 Cet 2019 1424
		Learnie Stoffward LChange () B 0EMOTSM-115036 - Windows Server 2019 Standard
		Parameters Updated 31 Oct 2019 1424
		Object techema*         Status           DBMO- rTSM         Q ✓         IP Address         E( yr Address (r))
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		🗓 Officienz Licensez 🗵 O V
		Object liker (IQ) Updated 31 Oct 2019 M24 Name LIE: "John Smith"
Issue	Line or bar	
count	chart	New Issue Count Report
		Name *
report	showing	My Report
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	totals of	20/11/2018 📋 03:30pm
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		Scope with IQL Time Period
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Мар		Time Period
Map		Time Period
Map report		Time Period
		Time Period

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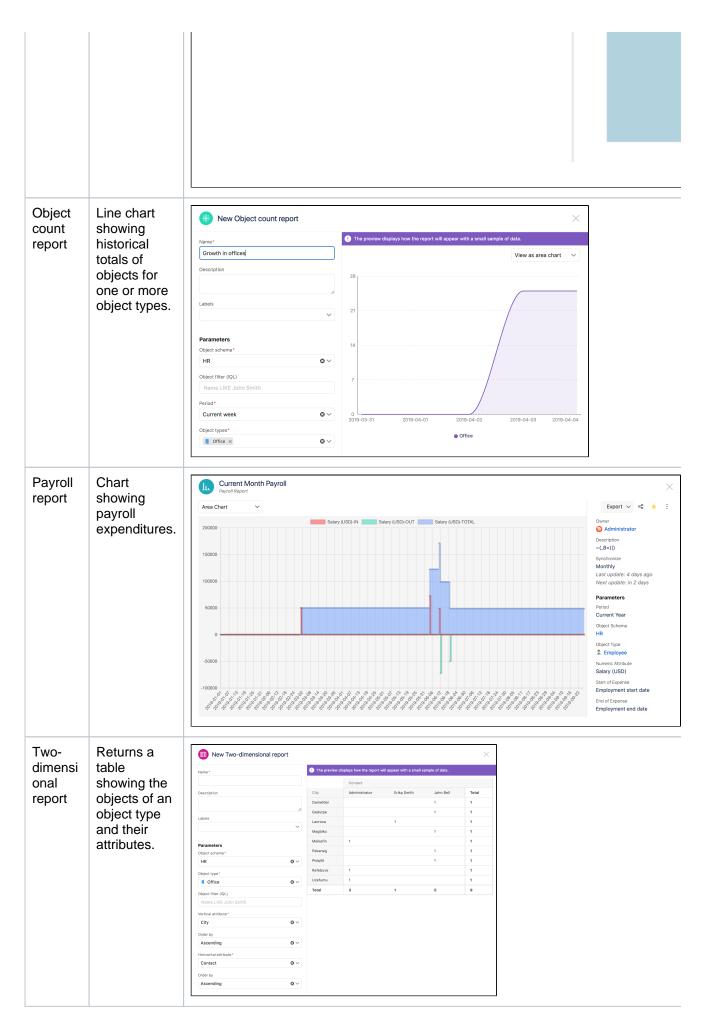
World map showing the location of objects based on an attribute with geographical data. The objects must have a text attribute with a commaseparated latitude and longitude, for example -33.8,151 . 2 (Sydney).



Location

Location





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Showing the total of one or more objects assigned to one or more users.       Image: status diagenergy to the sum and of dis sum and of diagenergy to the sum and of diagenergy to	Showing the total of one or more objects assigned to one or more users.       Image: Showing the total of one or more users.         Object       Report is based on as saved quick search report         saved quick search field the search report         (filter) from the Assets Object s far able showing the object sform the field the search report         (filter) from the Assets Object search report         (filter) from th	User	Returns	New User report						$\times$
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# Providing help in multiple languages

You can meet your customers language preferences by adding additional languages to your service project. This translates the language they receive when theyre using your portal and help center to their preferred language.

You need to be a Jira Service Management project admin to change the language settings.

## What is language support?

When you create a serviceproject, itdisplays in the default language inherited from your Jira instance. To meet your customer's language preferences, you can add multiple languages to their service projects.

You can translate your:

- request types (names, descriptions, fields, and groups)
- portal names
- announcements (login, help center, and portal)
- customer notifications

#### Limitations

Here are some things that aren't included right now:

- Linking a Confluence space to a chosen language
- Translating the customer satisfaction survey
- Translating the Approve and Reject buttons for approvals
- Searching for translated request types and portals on the customer portal

## Add languages to your service project

Your team can add and edit translations based on the languages of your service project customers. Adding translations is especially important for customized content, such as help center announcements, which will otherwise appear in your default service project language.

To add languages and translations:

- 1. From your service project, go to **Project settings** > Language support.
- 2. Select Add language.
- 3. Select the language and select Add.

Your languages appear in the languages table. New languages dont come with ready translations, so youll need to edit and update them. We disable newly added languages by default. We do this so you can quality check your new language and its translations before customers see them.

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	- Service Request								

#### Review or update translations

You can add custom translations to your service project to enhance your customers experience. Custom content may include translations of request types, portal names, and announcements.

To review or update custom language translations:

- 1. From your service project, go to Project settings > Language support.
- 2. Select the language's entry in the Language column.
- 3. Review or update the languages content.
- 4. Select Save.

We group your customer-facing content into sections in the translation space. Use the service project sidebar to jump between sections. For most sections, the service project default language appears in the left column and the translated text appears in the right.

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#### Announcement banner translations

To prevent inconsistencies when you delete your announcement banner for the help center or the customer portal, well check if there are any translations attached to it. If there are, the translations for the deleted fields will be cleared and youll see a warning message to confirm the change.

When you update the announcement banner, well keep the existing translations. However, if there are any translations attached to it, youll see a warning message for reviewing existing translations.

To review your announcement translations:

- For global announcement translations, go to **Project settings** > **Language support**. We recommend consistently using only one selected project to manage all your global announcement translations.
- For customer portal announcement translations, select the project that is linked to the specific portal. Next, go to **Project settings** > Language support.

💠 Jir	a Service Management	Dashboards 🛩 Projects 👻 Issues	<ul> <li>Insight - DbConsole</li> <li>Create</li> </ul>	Q Search	* <b>?</b>	0
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## Change your service project's default language

We recommend setting the service projects default language to match the language of the majority of your customers. Setting your serviceprojects default language to be the same as your customers, allows them to effectively use their service project.

Customers will see the service projects default language if the project admin hasn't added their preferred language or the preferred language is disabled.

To set the default service project language:

- 1. From your service project, go to Project settings > Language support.
- 2. Select your preferred language.
- 3. Review your language's translations and confirm they are up to date.
- 4. Select Save.
- 5. Toggle the slider so the language is Available to customers.
- 6. Select Change default language.
- 7. Select your required language.
- 8. Select Change.

Stop supporting a language

If you'd like to stop supporting a language, we recommend you disable rather than remove it. That way, you can keep up with translations in case you re-enable it. Removing a language would also remove its translations.

To stop supporting a language:

- 1. From your service project, go to **Project settings** > Language support.
- 2. Find the language's entry in the Language column.
- 3. In the Available to customers column, toggle the slider off.

As a result of disabling a language, customers whose preferred language is no longer supported will see the portal text in their preferred language (for example, **Log in** or **Profile**), and the serviceproject request types and notifications in the service project default language.

#### Let customers know how to set their language preference

Customers can change their own language preference in their help center profile.

To assist customers to change their language preference, recommend the following:

- 1. From the help center, select the avatar.
- 2. Select Edit preference under Preferences.
- 3. In the Language dropdown, select the preferred language.
- 4. Select Save.

#### Translate customer notifications

You can also add languages for notifications sent to customers. In this case, you wont be able to provide custom translations the notifications will use the translations provided with Jira.

See Translate Jira Service Management notifications.

# **Collecting customer satisfaction (CSAT) feedback**

Measuring customer satisfaction can help you better understand your customers and improve service levels.

Jira Service Management provides a simple, built-in mechanism to collect customer feedback. Key features include:

- Simple customer workflow to provide feedback on resolved issues
- Customer satisfaction scores are visible within resolved issues and on agent queues for resolved issues
- Single-click to view customer satisfaction report for a service project
- Easily create and view custom reports and trend graphs based on satisfaction scores.

Customer feedback data can be used to identify strengths and weaknesses in the service quality, engage and motivate the team to improve satisfaction scores, and provide mentoring and training where required.

# Enabling the customer satisfaction feature

This feature is enabled by default for new serviceprojects; however, it must be enabled for each existing service project. To enable customer satisfaction settings for an existing project:

- 1. Log in as a service project administrator.
- 2. Select the service project you wish to configure.
- 3. Select **Project settings > Satisfaction settings**.
- 4. Enable Collect customer satisfaction feedback.
- 5. Optionally, edit the **Question** phrase to suit yourenvironment. This phrase appears in the resolved issue notification message that customers see.

You can send satisfaction rating email notifications to your customers whenever a request is resolved. To do so, you need to enable the Request resolved rule:

- 1. Go to Project settings > Customer notifications.
- 2. Next to Request resolved select Edit.
- 3. SelectEnable, then selectSave.

When you enable satisfaction settings for a service project and enable the Request resolved rule, the resolved issue notifications will contain a satisfaction rating scale. Customers can select the rating scale to indicate their level of satisfaction. A confirmation page is displayed on the customer portal, where they can change the rating, and optionally provide any additional comments that they would like to convey to the team.

On this page:

- Enabling the customer satisfaction feature
- Viewing and reporting on customer feedback

****	
Awesome! We got it.	
If you have a moment, tell us how it went so we can keep it up!	
Thank you for your speedy response.	
Add a comment	
Powered by 👉 Jira Service Desk	

Viewing and reporting on customer feedback

Customer satisfaction scores and comments are displayed in the issue view for resolved issues. Agents can also view thesatisfaction scores on their own recently resolved queues.

Service project administrators and agents can view the default Satisfaction report, which displays the average customer satisfaction scores for the team.

Customer satisfaction								
2.6 Average rating								
Rating	Comment	Key	Agent	Received				
****	Thanks for coming down to my desk to help me print in A3	IT-1384	🛃 Will Turner	Yesterday				
****		IT-997	🚵 José Vela	2 days ago				
****	I had to wait 3 days for a solution. I replied on Wednesday but nobody got back to me until this morning.	IT-1216	🕅 Mia Kennedy	3 days ago				
1-3 of 3								
	Past 7 days							

A service project administrator can also create and view custom reports analyzing satisfaction trends. Agents can also view any custom satisfaction reports created for their service projects.



Useful examples of custom reports include:

- A trend graph of the average satisfaction rating for a specific period to view changes in service levels.
- Satisfaction scores based on the type of service request. This would identify issues for which the team could provide knowledge articles.
- Satisfaction scores for an individual agent compared to team scores to help identify agents who would benefit from further training.

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# Jira Service Management best practices

Check out the following best practice articles:



- Best practices for designing the customer portal
- Best practices for IT teams using Jira Service Management
- Best practices for software teams using Jira Service Management

# Best practices for designing the customer portal

Every service project comes with an online portal that your customers can use to interact with your service team.

Here are some best practices on how to design a customer portal that makes it easy to find help, and work effectively.

On this page:

- Brand your help center
- Brand your customer portal
- Help customers find request types
- Group similar request types together
- Set up a knowledge base

# Brand your help center

Customers can use the global help center to browse all the service projects they have access to. You can brand your help center in a number of ways:

- Add a company logo
- Name your help center
- Add a banner image across the top
- Change the color of some components.

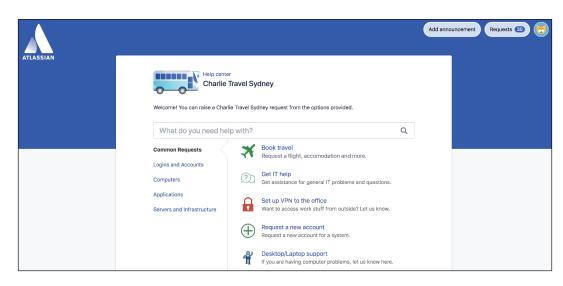
ATLASSIAN		Customize Requests 29
	Welcome to the help center	
	What do you need help with? Q	
	Hours of operation Mon-Fri: 08:00 to 17:00 Sat-Sun: 09:00 to 12:30	
	Popular         Recent           Premier Support Req Charlie Travel Sydney         IT help · Charlie Travel Melbourne Get general tach support, like help with the Wi-Fi or printing.           Customer Operations         Image: Charlie Travel Brisbane Need help installing, configuring, or troubleshooting? Select t           Browse all         Image: Cert Thelp · Charlie Travel Sydney Get assistance for general IT problems and questions.	

What's more, your customer portals will inherit these design changes making the experience consistent across all of your service projectchannels.

To learn how to do this check out Using the help center.

## Brand your customer portal

Add a name and logo to your customer portal so that people know they're sending requests to your team and organization. It will look something like this:



To learn how to do this check out Configuring the customer portal.

## Help customers find request types

You can set up request types in a way that makes it easier for your customers to find them. Here's how:

- Name your request type something that your customers will understand. For example, *Access to a system* instead of *VPN access*.
- Use different icons for each request type so customers can recognise IT help from, say, Book a flight.
- Add contextual help. For example, say what size and format is accepted in the attachment field.
- Use examples in your request type descriptions. For example, *If you need a software license such as Microsoft Office, raise a request here.*
- Link to helpful information in the request type description. For example, if you have a list of available Microsoft Office license numbers on your intranet, add a link so they don't need to open a request.

To learn how to do this check outSetting up request types.

#### Group similar request types together

If you have a lot of request types (more than seven), we recommend grouping some of them together to help customers find what they need. Grouped request types appear as tabs in your customer portal.

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Summary	Request
Details	
Re-index project	GROUPS
Delete project	Comr
	E Logins
Request types	Comp
Customer permissions	Applic
Portal settings	
Email requests	Servei
Customer notifications	Tester
Satisfaction settings	
Knowledge base	Hidde
SLAs	+ Add g

To add groups:

- 1. Select +Add group from the sidebar.
- 2. While viewing a group, select Add existing request type to add your request types to it.
- 3. Change the order that the groups appear on the customer portal, by drag and drop.

To learn more about request types, check outSetting up request types.

To prevent a request type from showing on the customer portal, move it to the Hidden from portal group, underneath the other groups. Removing a request type won't impact requests that have already been created.

### Set up a knowledge base

Over time, your service team will accumulate a lot of knowledge that can be shared with your customers so that they can solve their own problems without needing to open a request. You can set up a knowledge base by integrating Jira Service Management with Confluence.

Help center My Service Desk	
Welcome! You can raise a My Service Desk request from the options provided.	
how to connect	0
	Search he
Suggested articles	
How to connect to Wifi Connect to a Wi-Fi network From your Home screen, go to Settings > Wi-Fi. To automatically search for available Wi-Fi networks. Tap the name of the Wi-Fi net After you join the network, you'll see	
How to connect to VPN Connect to a VPN from home From your Home screen, go to Settings > VPN To automatically search for available Wi-Fi networks. Tap the name of the Wi-Fi net After you join the network, you'll see	
How to connect your printer Connect to a Wi-Fi network From your Home screen, go to Settings > Printer 's search for available printers Tap the name of the Wi-Fi network that you want to network, you'll see	
Showing result:	s1-3 of 4 < 1 2 >
Try searching for something else	

To learn how to do this check out Set up a knowledge base for self-service.

# Best practices for IT teams using Jira Service Management

Information Technology Infrastructure Library (ITIL) is a framework for ITSM (IT service management). ITIL recommendations have been an industry standard for20 years. Adopting these practices takes time. You can seek formal training on how to make ITIL recommendations work best for your business.

If you're interested in more general information about ITSM or other guides, check out our ITSM resources.

We recommend starting with processes that are essential to your business goals. Jira Service Management provides workflows for IT teams in our IT Service Management project template. We created the following ITIL workflow add-ons, available in the Atlassian Marketplace:

- Change management for Jira Service Management
- Jira Service Management incident management
- Problem management for Jira Service Management
- Service requests for Jira Service Management

Jira Service Management isconfigurable. We recommend you start with an ITIL framework and then adjust to your specific business needs.

What follows is an overview of some best practices for your IT service desk. This guide covers:

- Fulfilling service requests with your IT service desk
- Managing changes with your IT service project
- Managing incidents with your IT service desk
- Managing problems with your IT service desk
- Calculating priority automatically
- Manage changes with your IT service management project 1

## Use the IT Service Management template

Only Jira administrators can create projects.

To create a project using the IT Service Desk template:

- 1. SelectProjects>Create Project.
- 2. Choose theIT Service Management template and selectNext.
- 3. Name your project.
- 4. Select**Submit**.

#### Provide a robust service catalog

Using simple forms, your customers can do a lot of the early leg work for your service project. Jira Service Management provides them with clear and concise options for requesting help.A robust service catalog makes sure that service requests are prioritized and get to the correct service agent. And, your agents get the information needed to fulfill the request before beginningwork.

The IT Service Management template comes with a service catalog of common requests. We call these forms "request types" and you can customize them to suit your needs.

To start, identify the most common and urgent IT tasks for yourservice project.Doublecheckthat there's a corresponding request type for each of these.

Go to **Project settings**>**Request types**to view or edit your service catalog. The entries there appear in your customer portal.Read more about request types.

#### Help your customers serve themselves with a knowledge base

Mature IT service desks solve common problems without ever seeing a ticket. We recommend providing your customers a knowledge base.

Link your Jira Service Management site to a Confluence knowledge base.Keep a record of known solutionsand two important things happen:

- 1. Your customersfind and view relevantarticles when they search the customer portal. They may find the answers they need without ever raising a request.
- 2. Your service agents can find relevantarticles when working on issues. This saves them time hunting down answers or workarounds to common IT requests.

Learn more atSet up a knowledge base for self-service.

#### Start with ITIL recommended workflows and adapt to your needs

ITIL recommendations are a framework, a set of ITSM best practices meant for you to adapt from and grow.

In Jira Service Management, we associate your service catalogwith workflows by assigning a request type to an underlying*issue type*.Our recommendations for IT teams use four ITIL-inspired workflows. To learn more about how these issue types and workflows work to streamline your service project, check out our guides for handling:

- Fulfilling service requests with your IT service desk
- Managing changes with your IT service project
- Managing incidents with your IT service desk
- Managing problems with your IT service desk
- Calculating priority automatically
- Manage changes with your IT service management project 1

These allow you to have many customer request forms that follow the same workflow. For example, new hardware requests and password resets use the same service request workflow.

Our default workflows make your service project effective, out of the box. You can customize them as you go, scaling to the needs of your business.

# Fulfilling service requests with your IT service desk

The scope of service requests in Information Technology Infrastructure Library (ITIL) is large. Tasks can range from resetting a password to onboarding a new hire. Service requests include customer comments, complaints, or other requests for information.

The IT Service Desk template comes with a few pre-built service request types. Weset these up to help your service desk agents handle common service requests.

The service request fulfillment process:

- manages customer expectations
- speeds up request resolution
- standardizes any approval processes

Effective service request management reduces the bureaucracy and cost ofmaintaining IT services.

This page describes some best practices for fulfilling service requests using Jira Service Management. You mayseek formal training in how to make ITIL recommendation work best for your business.

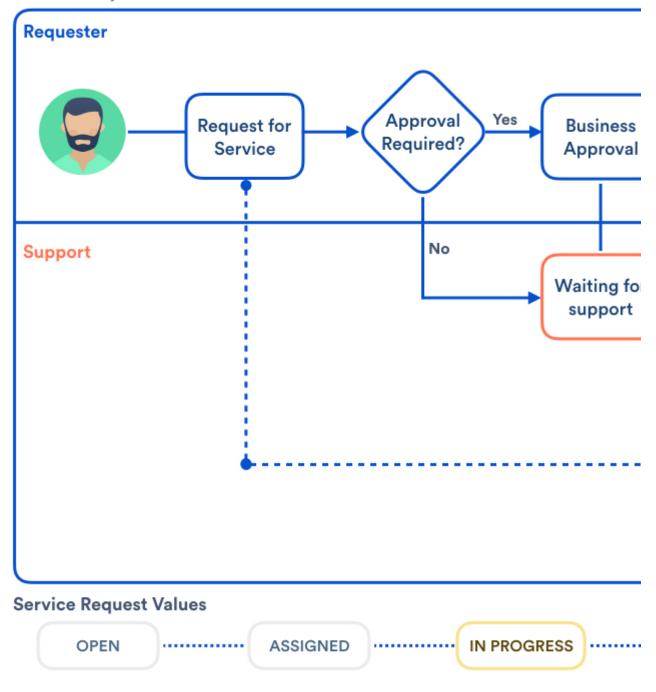
#### Service request fulfillment process

The information needed to capture and resolveservice requests varies.But, you canstandardize the process for fulfilling these requests.

The IT Service Desk template associates certain requests with a service request fulfillment workflow. We set up the workflow to complement the following service request fulfillment process. Use it as a jumping off point for your service desk.

The service request fulfillment process, inbrief:

Service Request Fulfilment



- 1. A customer requests help from your service catalog or via email.
- 2. The service desk assesses the request alongsidepre-defined approval and qualification processes. If needed, they send the request for financial or business approval.
- 3. A service desk agent works to fulfill the service request, or forwards the request to someonewho can.
- 4. Afterresolving the request, the service desk closes the ticket. The agent consults the customer to make sure they are satisfied.

# Setup for service request fulfillment in Jira Service Desk

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#### Configure the workflow and fields with the service request workflow add-on

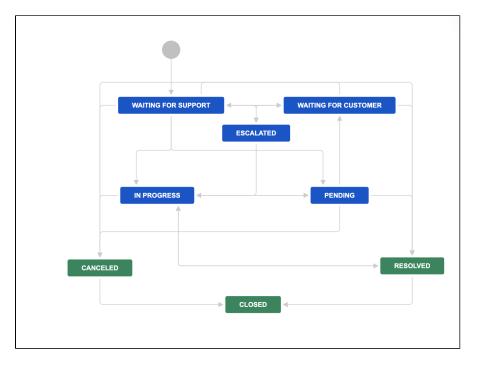
We used the ITIL framework for change management to build a workflow for Jira Service Management:https://marketplace.atlassian.com/plugins/com.atlassian.servicedesk.servicerequest/server/overview.

You can use this add-on as a template to help you build your own service request fulfillment process.

#### To use the workflow from the Marketplace:

- 1. Log in as a user that has the Jira administrator global permission, and follow the instructions listed here toimport a workflow.
- 2. To add the workflow fields to your change issues, activate the screen by following the instructions here: Defining a screen.

#### Service request fulfillment workflow



#### Tipsfor creating service request forms on your portal

- Begin with the most commonrequests. Choose ones that are simple and easy tofulfill. This delivers immediate value to customers. Itallows theservice desk team to learn as they build out future phases of the servicecatalog.
- Document all the requirements for a service request before adding it to the catalog. These include question data, the approval process, fulfillment procedures, the fulfillment team, process owners, SLAs, reports, and so on. This allows the IT team to better manage therequest typeover time.
- Capture the data needed to start fulfilling the request.But,don'toverload the customer with too many questions.
- Work with stakeholders to standardize the approval process, where possible. For example, preapprove all requests for new monitors.Or, assignsoftware approvals to the customer's manager.
- Document any knowledge base information that might allow customers to service their own request. Record this in a linked Confluence space. If you do, customers can view articles while they search your portal. Read more about creating a knowledge base.
- Review your team's performance in fulfilling requests. Adjust your SLAs, requirements, and training to improve customer satisfaction.
- Create reports to help manage the lifecycle of a service request offering. These trends can uncoverformsthat are no longer needed, too complex, or insufficient.

#### Read more about creating reports.

Default form fieldsfor service requests

Jira Service Management allows you to customize the fields of information collected from customers. Additionally, you can customize the fields of information used by your agents. Jira Service Management does this through issue type fields and screens. Fields help agents fulfill the request, discusswith vendors, and categorize requests.

Field name	Description		
Summary	A short description of the request.		
Reporter	The person who submitted the request.		
Compone nt/s	Segments of your IT infrastructure that relate to the request. For example, "Billing services" or "VPN server". These are used for labeling, categorization, and reporting.		
Attachme nt	Files or images added to the request.		
Description	A long, detailed description of the request.		
Linked Issues	A list of other requests that affect or are effected by the request. If your business uses other Atlassian products, this list may include linked development issues.		
Assignee	The service desk agent assigned to fulfill the request.		
Priority	The importance of the request's resolution, usually in regards to your business needs and goals. Sometimes, priority is calculated by impact and urgency.		
Labels	A list of additional custom labels used for categorizing or querying records.		
Request participants	A list of extra customers or vendors who take part in resolving the request.		
Approvers	A list of business or financial contacts responsible for approving the service request.		
Organizati ons	A list of customer or vendor groups interested in the request's resolution.		

#### Extra form fields recommended by ITIL

ITIL recommends a few more fields for their in-depth processes. The IT Service Desktemplate doesn't include these by default. This isbecause IT teams who use Jira Service Management don't oftenuse these fields. If needed, you can include these fields or add custom fields. Find out more about fields in Jira.

Field name	Description	
Impact	The effect of the service request, usually in regards to service level agreements.	
Urgency	The time available before the business feels the service request's impact.	
Pending reason	A short description or code that indicates why the service request is not progressing.	
Product categorization	A category of IT asset or system that the request effects.	

Operational	A category of action or function required to fulfill the request.	
categorization		

# Learn more aboutIT service management (ITSM)

Get more tips and tricks for successful ITSM, view case studies, and learn how to take your service desk to the next level.

Check out the ITSM resources on IT Unplugged.

# Managing changes with your IT service project

Effective service teams plan and control changes, as they understand their impact to their business. Although Jira Service Management provides default change management workflows and fields, weve now updated them to better follow the Information Technology Infrastructure Library (ITIL) best practices. Weve also added a few additional steps that will let you create an inventory of assets and open changes against them by using the built-in asset management functionality.

### (i) Learn more about ITIL and change management

If youre not familiar with the ITIL best practices, check out our resources. Theyll explain you the basic concepts, definitions, and processes. Learn more about change management

# Set up change management in Jira Service Management

Have a look at the list of customizations weve made to the change management process. If youd like to use them, youll need to adjust your individual projects manually.

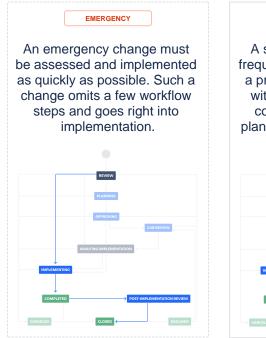
### Change management workflow

The workflow follows the ITIL best practices and terminology, and makes sure your changes are approved and accounted for. Extra steps let you properly plan and assess the most important and risky changes, at the same time not slowing down critical changes that must be implemented right away. All this with the right stakeholders sharing their expertise and approving your changes along the way.



## Different types of changes using different workflow paths

Thanks to automation rules, different types of changes can take different paths. Just so emergency changes dont have to wait for all of the approvals theyre emergencies after all.



STANDARD

A standard change occurs frequently, is low risk, and has a pre-established procedure with documented tasks for completion. It needs less planning and fewer approvals.





Automation rules handling repetitive tasks for you

Automation rules will also take some burden off your back and automate repetitive tasks, just so you dont have to think about them:

- Determine change risk based on the importance of affected asets
- Calculate priority based on Impact and Urgency
- Escalate Emergency changes
- Auto-approve Standard changes

#### Change plans

With custom fields, each change requests can store detailed plans, just to make sure everyone working on it knows what theyre doing or can quickly roll back if it turns out they dont.

- Implementation plan
- Test plan
- Backout plan

#### Inventory of assets and configuration items

Jira Service Management lets you create an inventory of assets and configuration items, together with their details and relations between them. You can then open changes against these assets and get them linked together. Thanks to that, details about an asset are included in the change request and everyone involved has enough context to decide how risky or important a change is.



Selecting an asset



Viewing an asset

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Viewing more details

#### Approvals from the right stakeholders

Make sure the most important and risky changes are approved by the right people. You can include change managers, CAB, and approvers that are directly responsible for your assets the right people at the right time. By using Insight custom fields, these approvers will change dynamically depending on the asset affected by your change request.

- Change managers (user picker field)
- Change Advisory Board (user picker field)
- Owners of your Insight assets (Insight field)

#### Get started with improved change management

To get started, follow these steps. Theyll help you adjust your projects to all of these changes and provide some explanations about what these changes do:

- What to expect: Sample lifecycle of a change
- 1. Update the change management workflow
- 2. Create resolutions, post-functions, and priorities
- 3. Create and update custom fields
- 4. Link your project to Insight asset management
- 5. Add approvals to your workflow

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- 6. Create and update automation rules7. (Optional) Set up a calendar to coordinate your changes

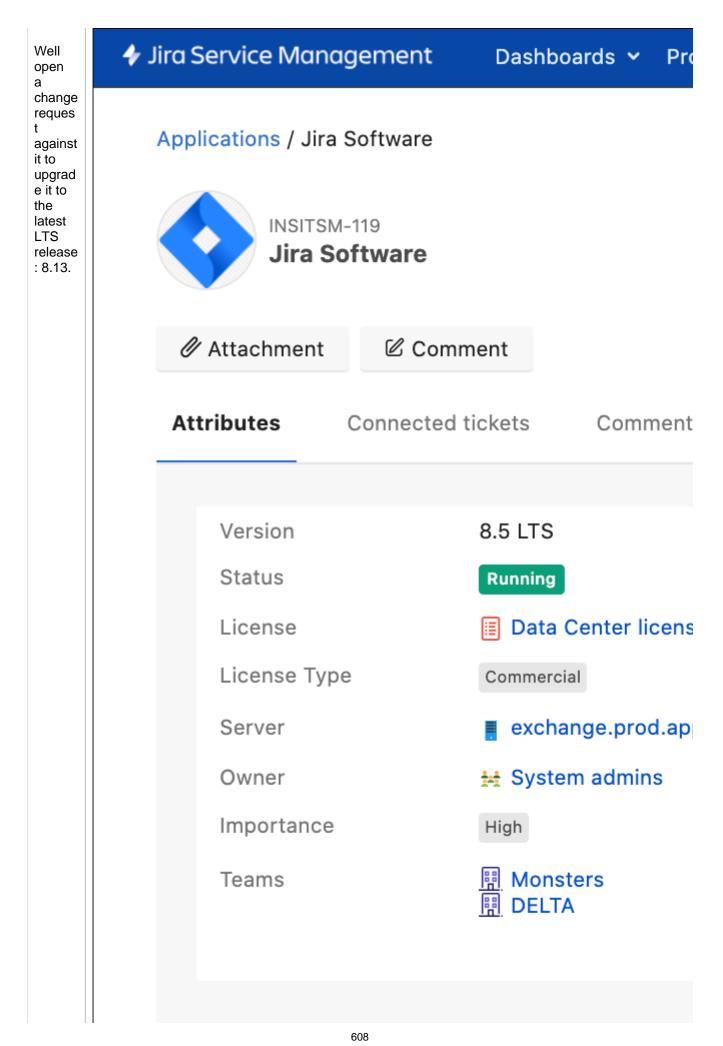
# What to expect: Sample lifecycle of a change

Heres an example of how a change request could look like, and how it progresses through the change management workflow. This should help you understand the changes youll be making to your projects.

## Requesting a software upgrade Jira Software

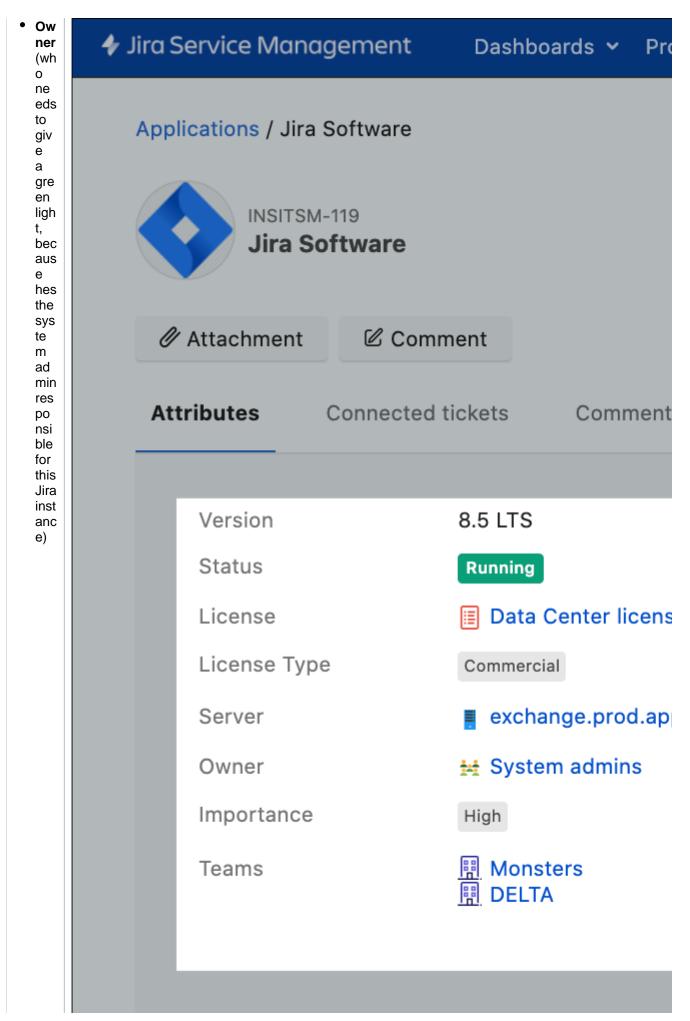
This example shows a request for a software upgrade of our Jira Software instance that lives as an asset in Jira Service Management.

What we're doing	What it looks like in Jira
Viewin g an asset in Insight	
Lets have a look at our Jira instanc e (asset) in Insight. Its quite an old version and we want to get it upgrad ed to get new feature s, securit y update s, and all the other bug fixes.	



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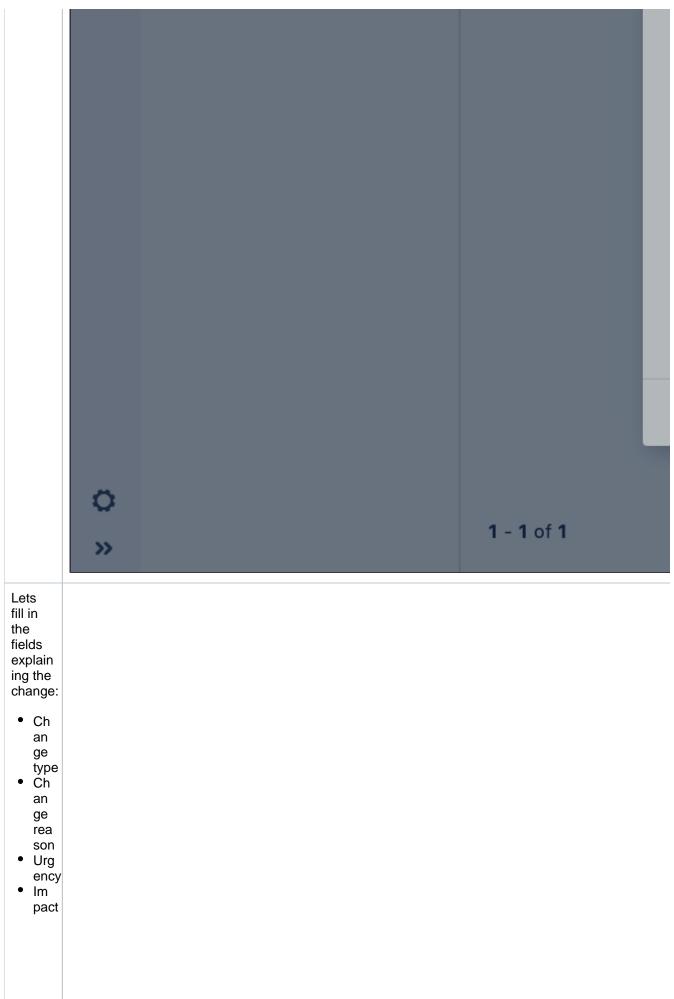
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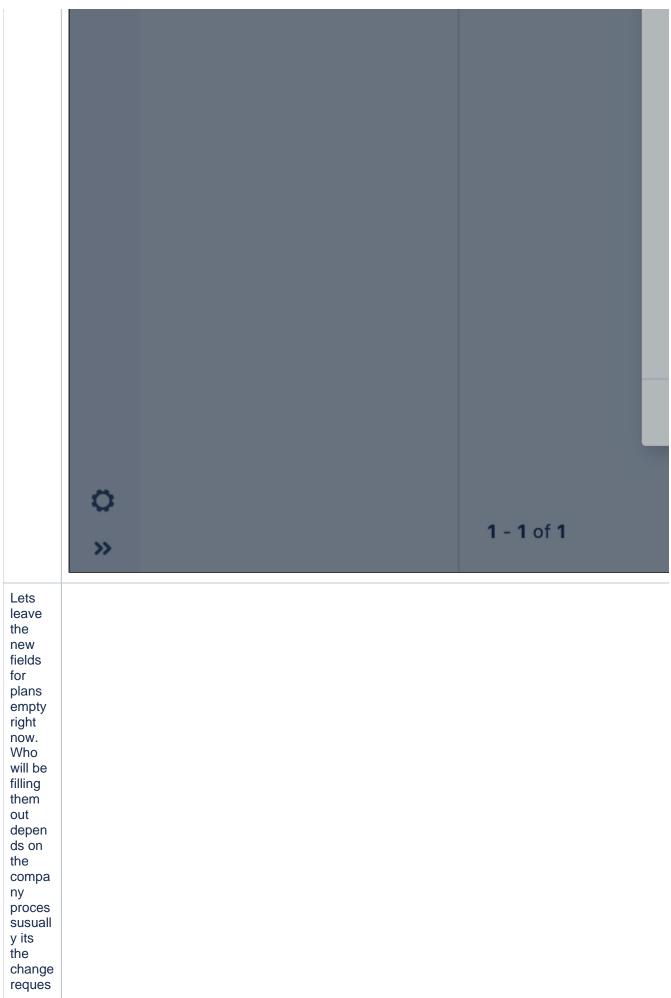
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🔸 Jira S	ervice Management	Dashboards 🖌 Projects
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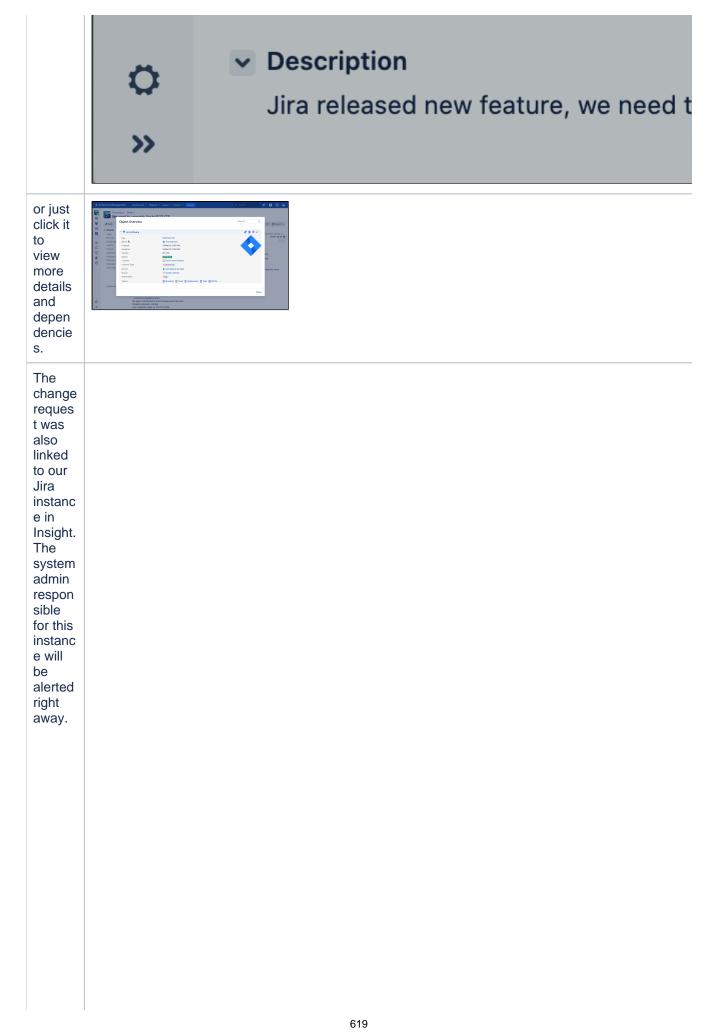
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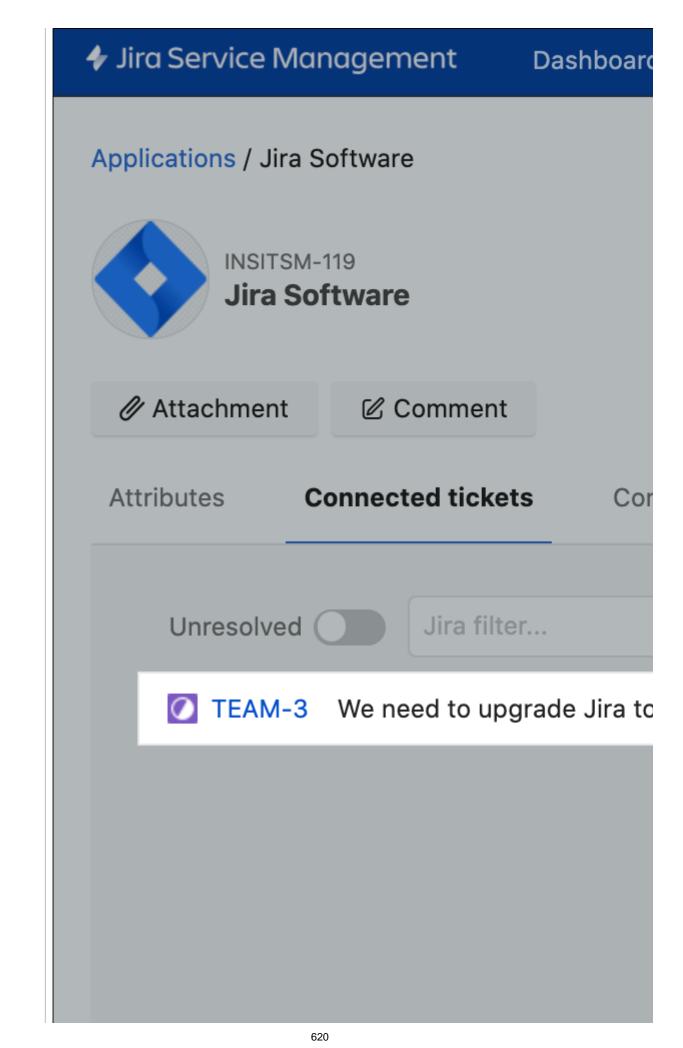
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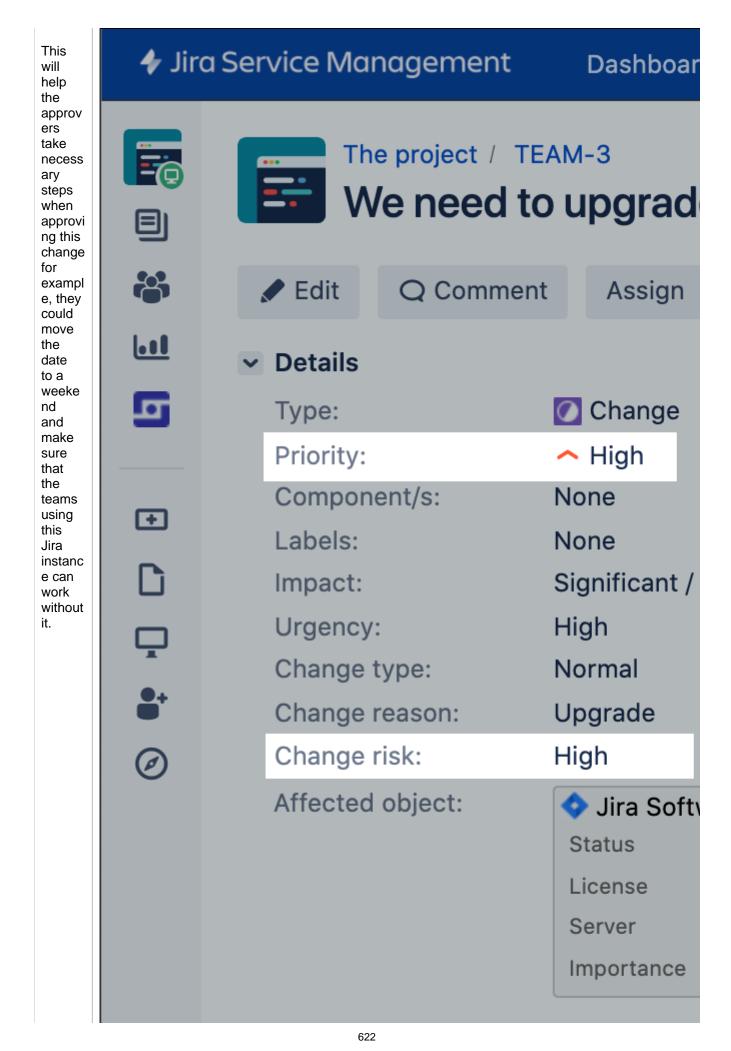
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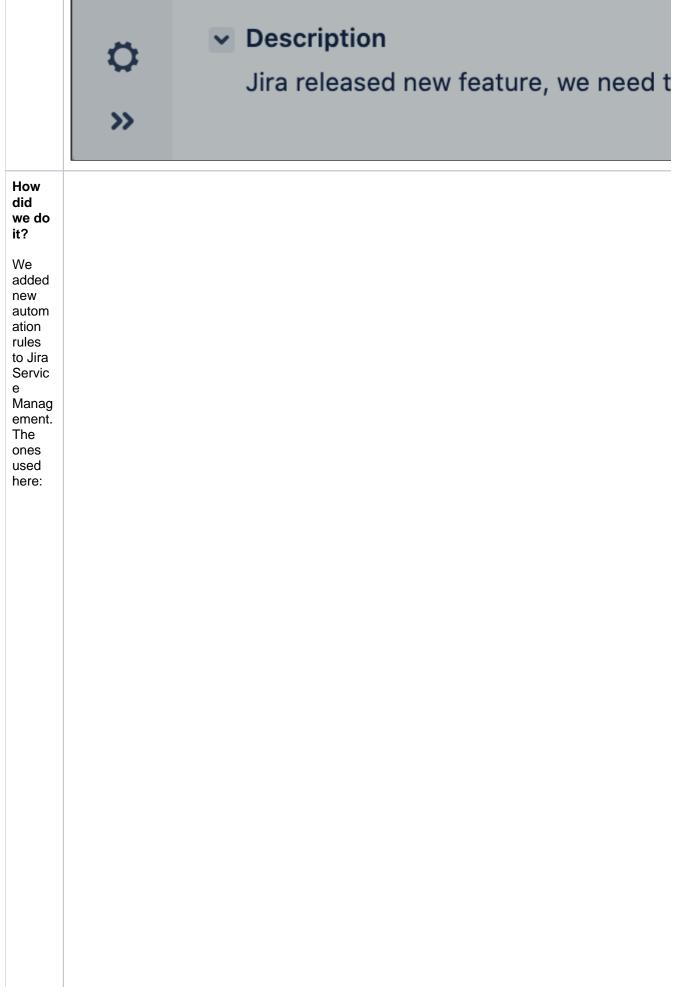
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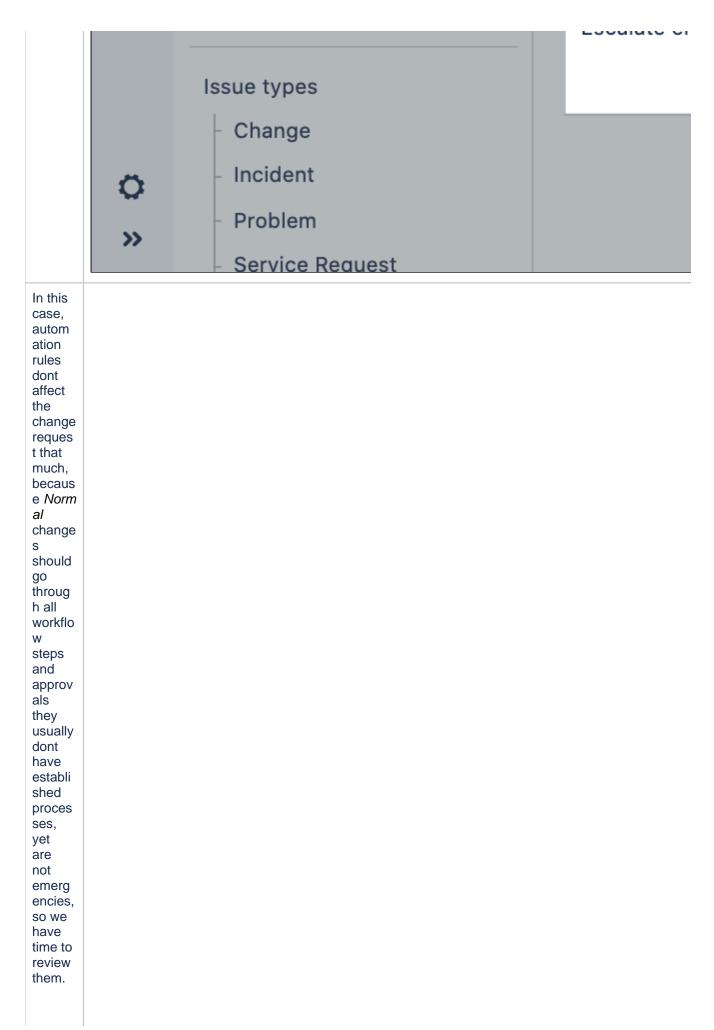


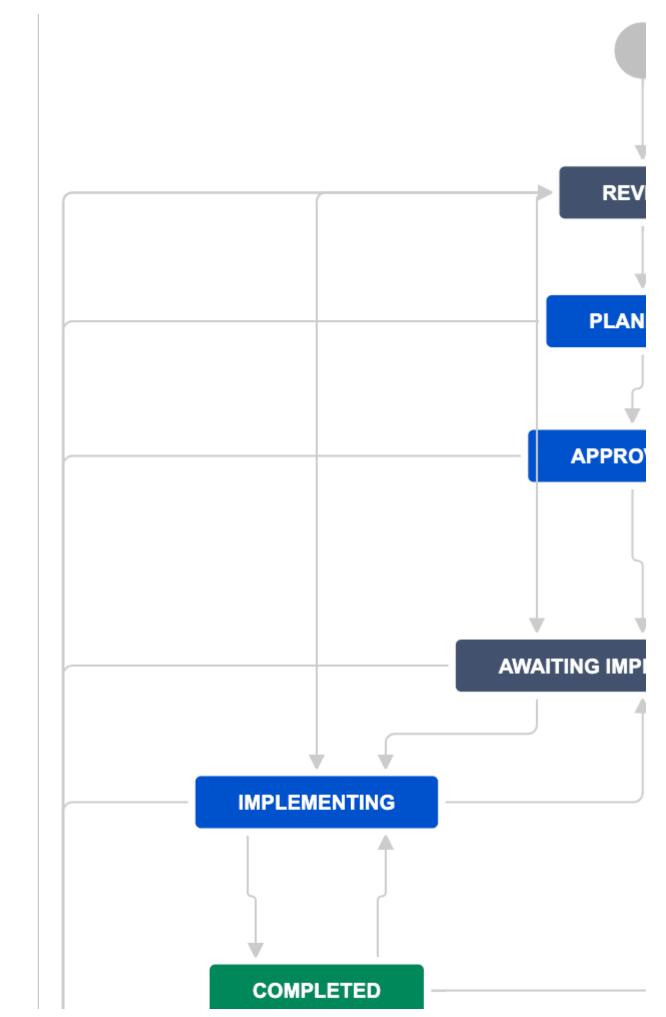


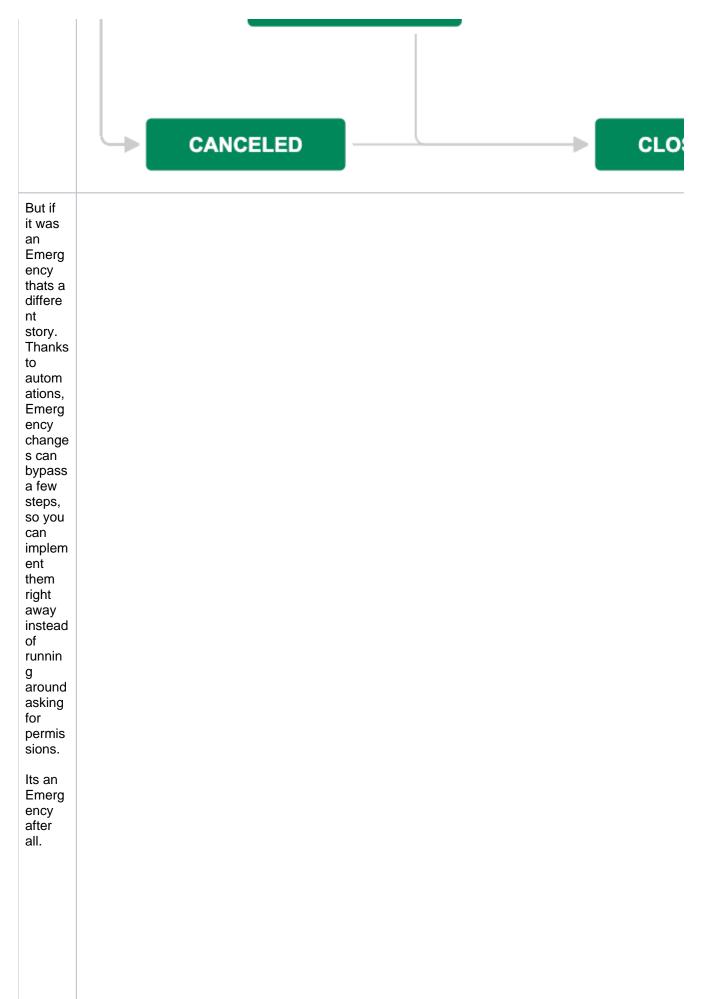


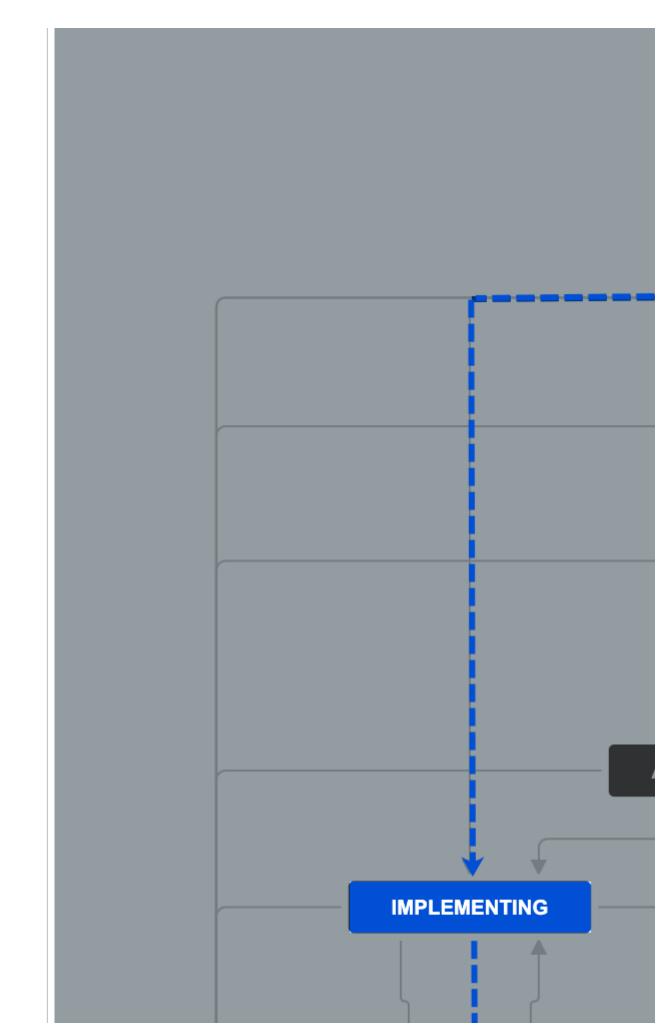
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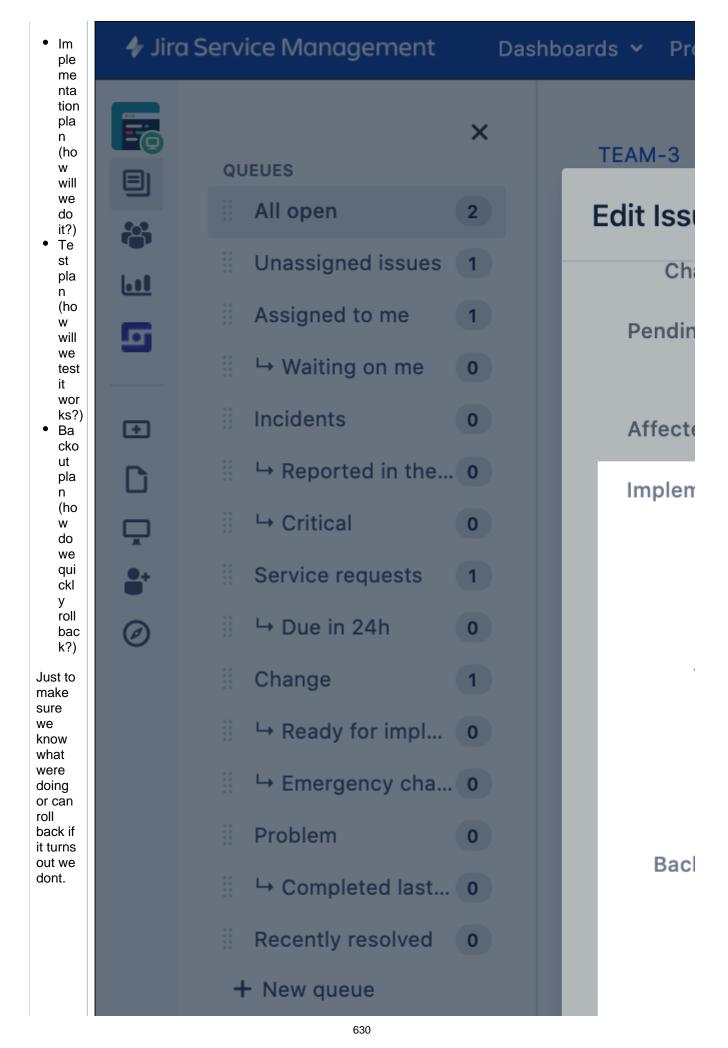




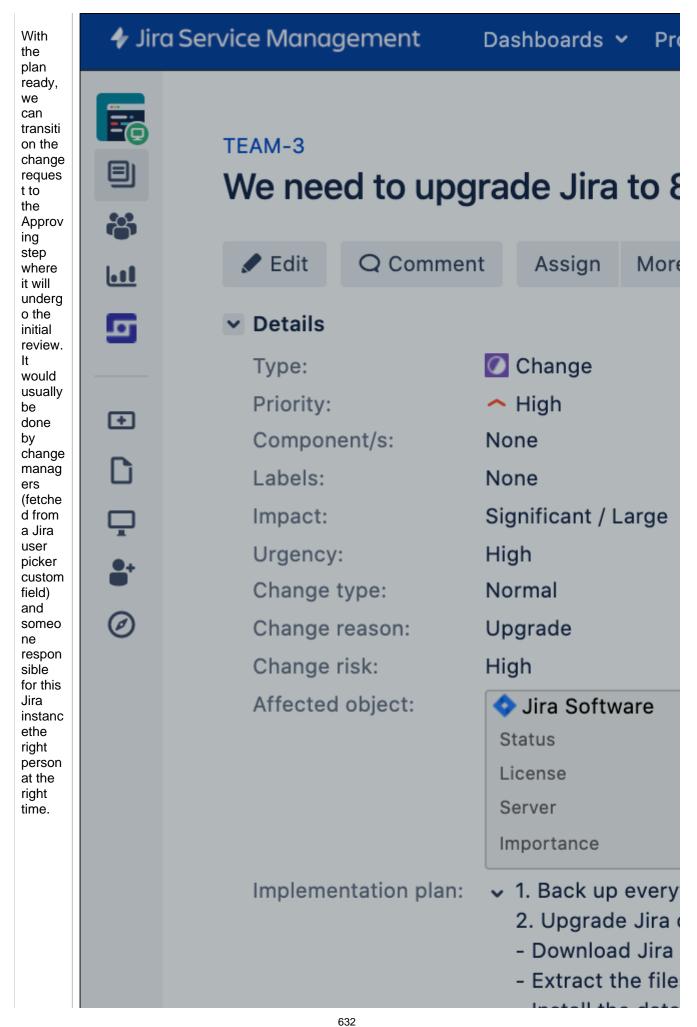




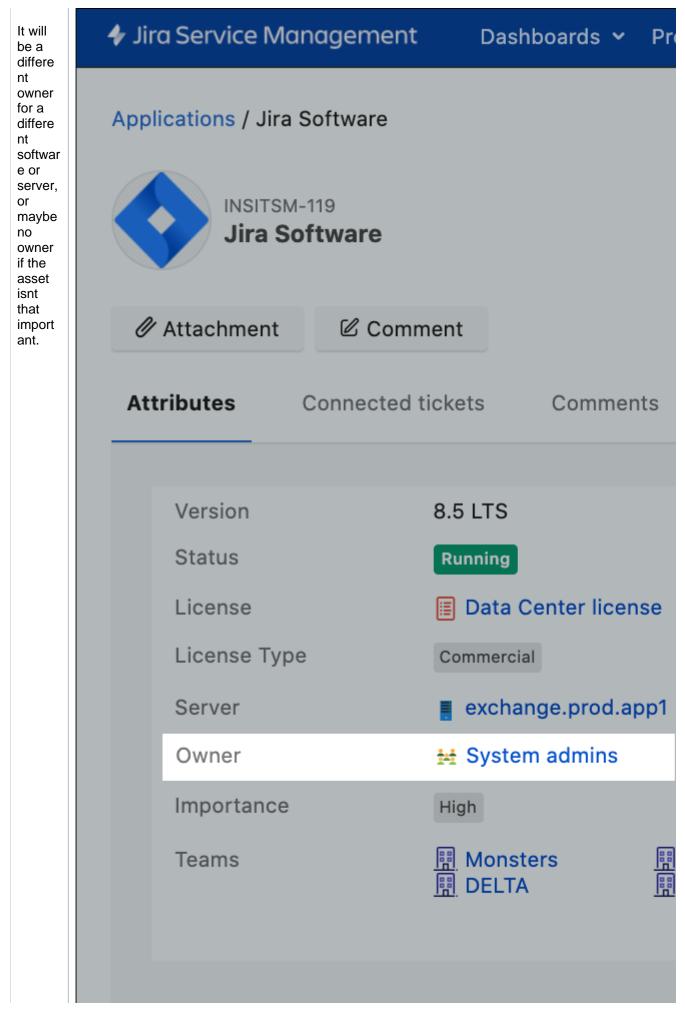
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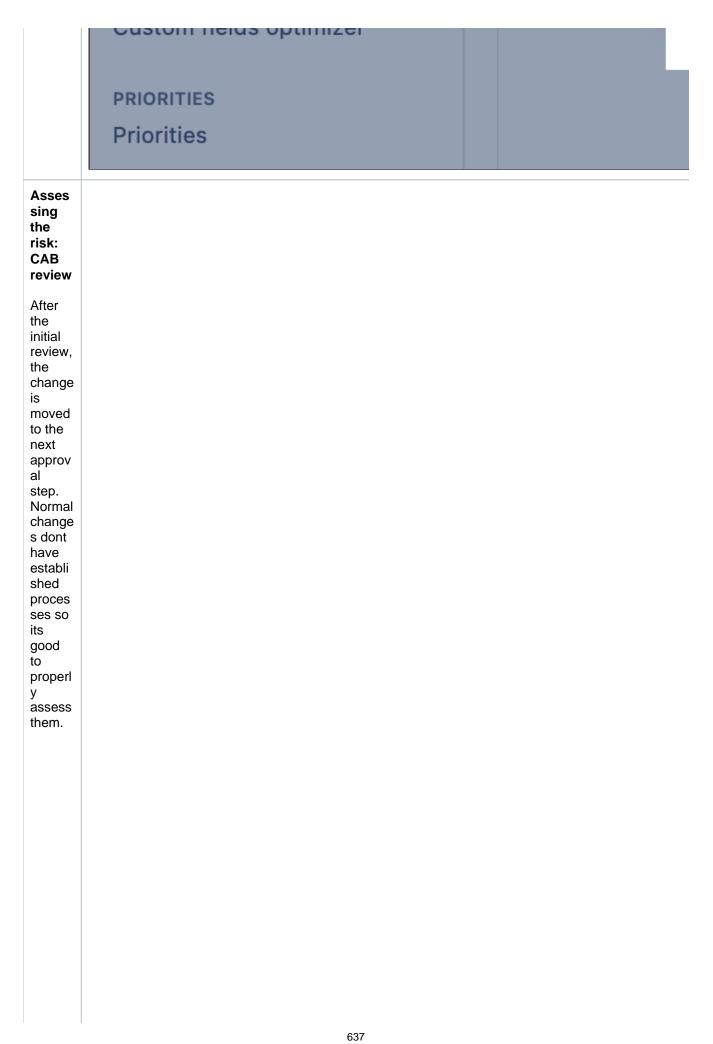


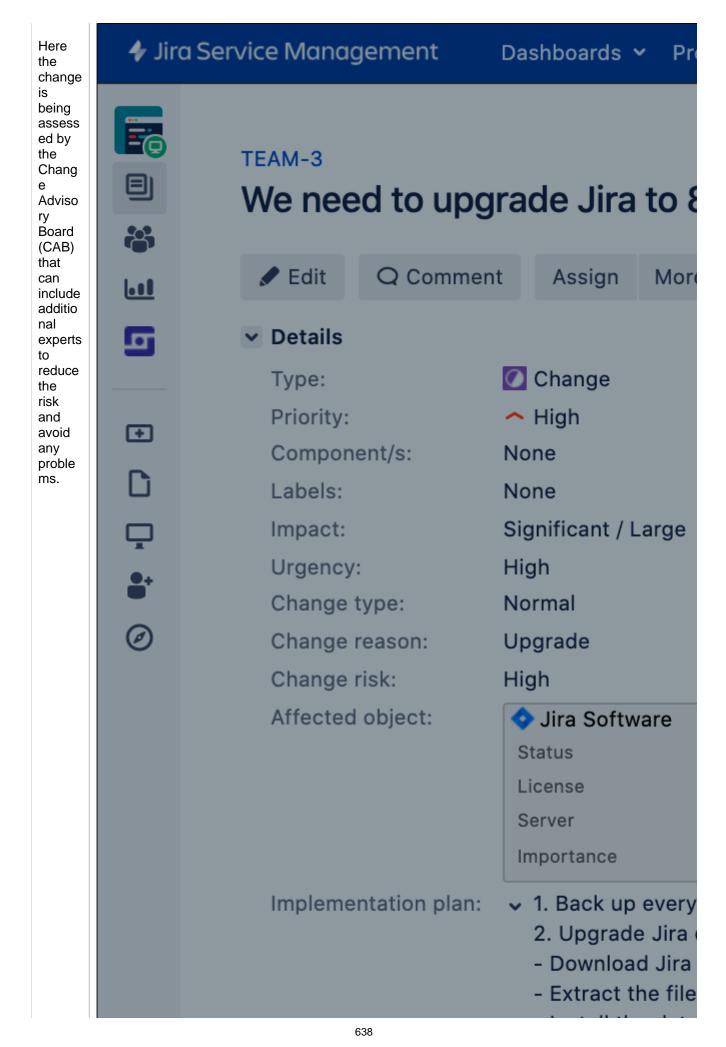
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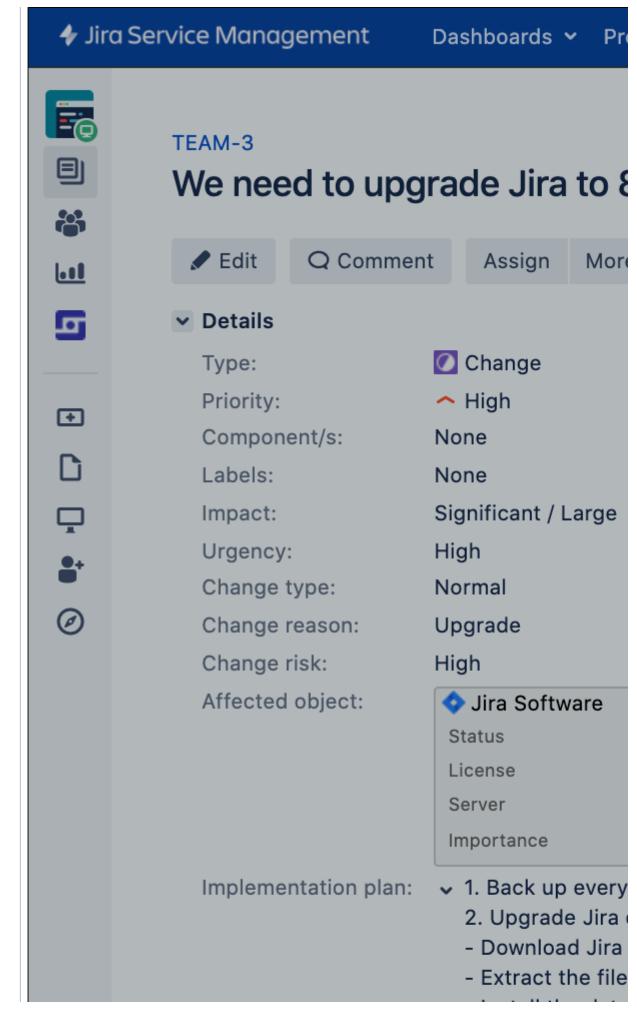
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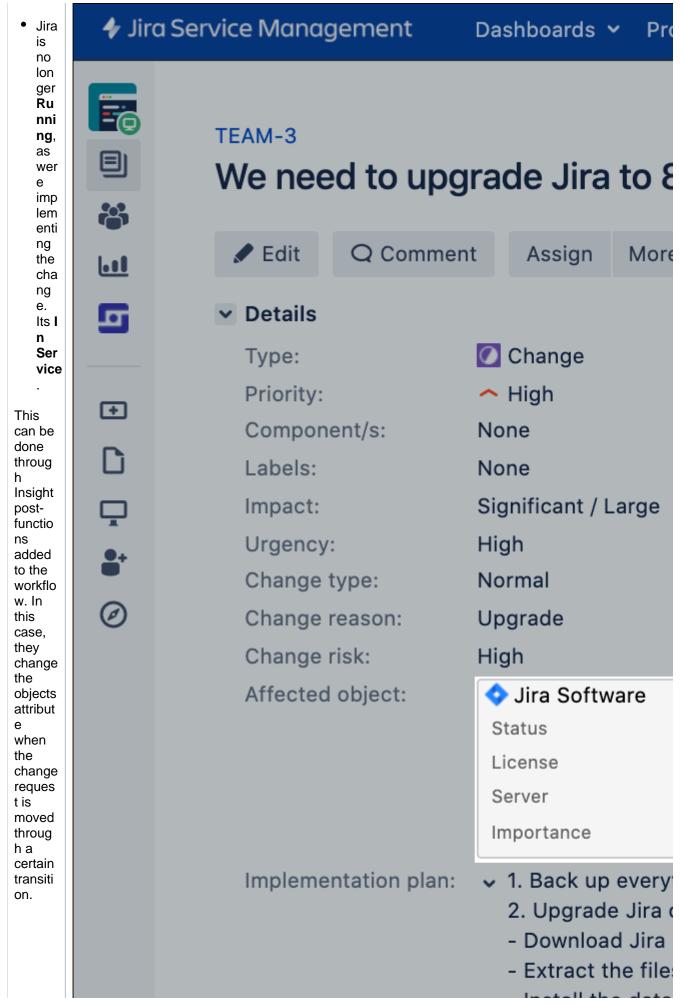


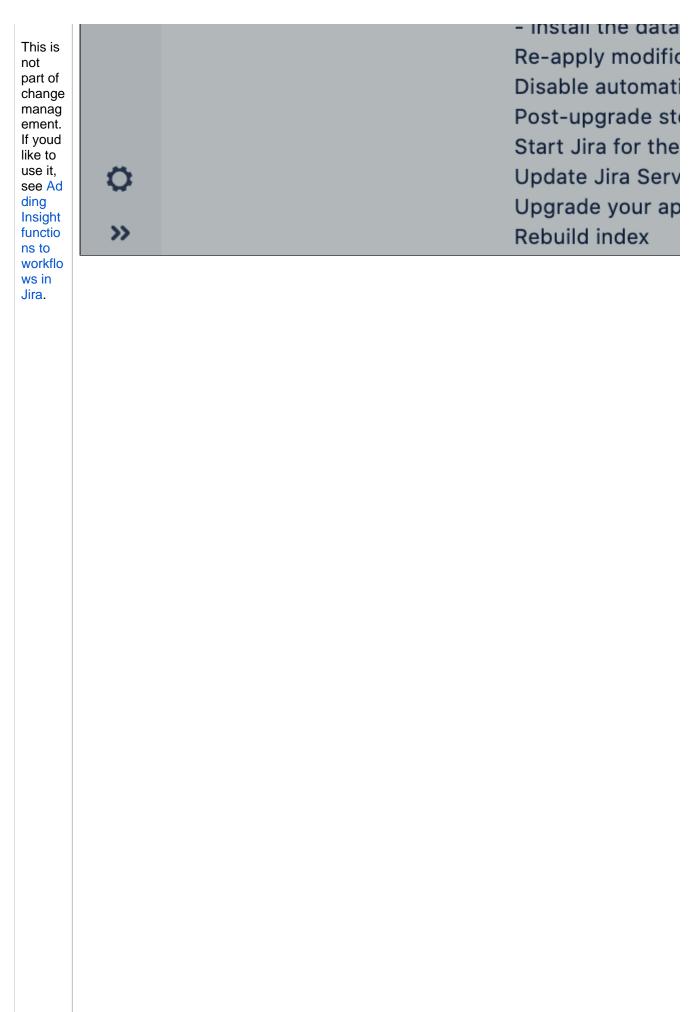


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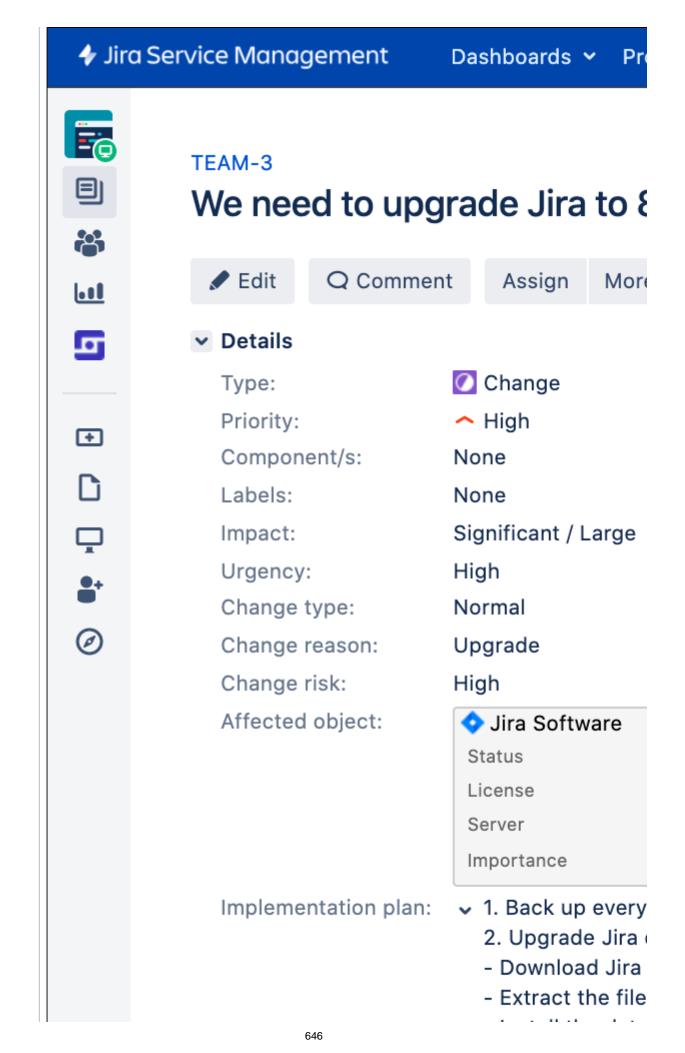
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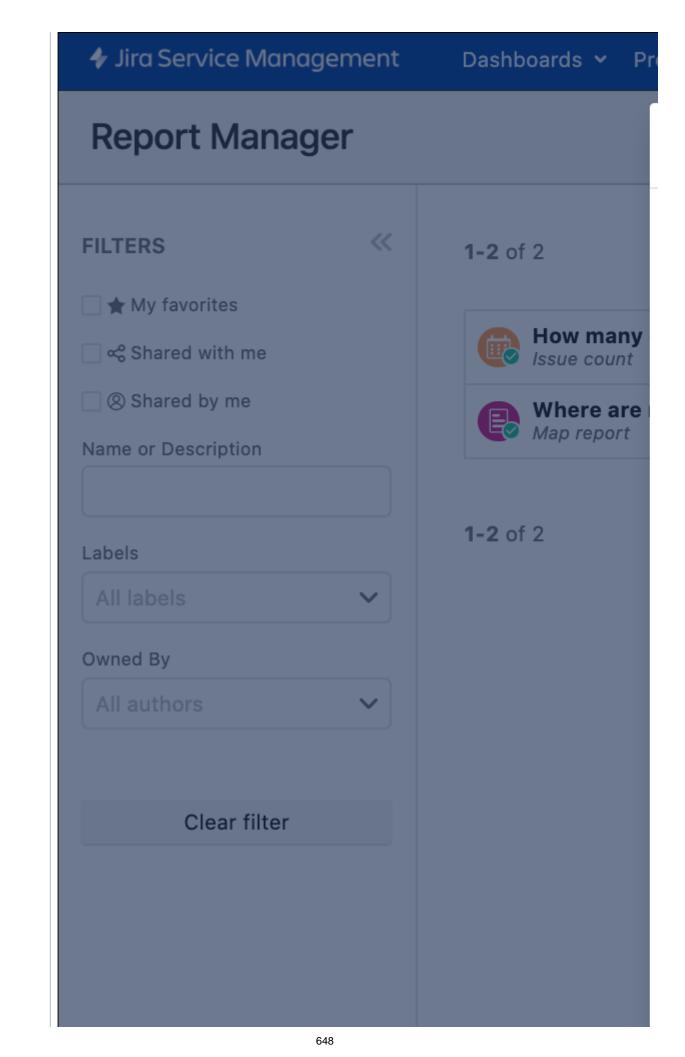


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When closing the change reques t, you can select the resoluti on: <i>Ch</i> <i>ange</i> <i>succes</i> <i>sful</i> or <i>Chang</i> <i>e failed.</i>		



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Once the change is comple te, you can also view some Insight reports for your assets and change s that affecte d them.			



For exampl e, you can check how many issues	
were raised against your assets how many inciden ts,	
proble ms, or change s. And if	
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its time to buy a new asset.	

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# Ready?

If youd like your changes to use this flow, lets get started with 1. Update the change management workflow.

# 1. Update the change management workflow

Jira Service Management has a default change management workflow, but weve updated it with additional statuses and transitions. You can download the ready workflow from Atlassian Marketplace, and have all the missing statuses created automatically.

## Your new workflow at a glance

Heres what the new workflow looks like. The statuses closely follow the ITIL best practices and terminology:



## Download the workflow

To download the change management workflow:

- 1. Go to Administration > Issues > Workflows.
- 2. Select Import > Import Workflow.
- 3. Select **From Atlassian Marketplace**, and search for *Change management for Jira Service Management*.
- 4. Click **Select** and enter the workflow name.

Select a work	cflow	From Atlassian Marketplace	From My Computer
Search for	change management		
workflows Change Manag Management	Search for the workflow that you are looking tement for Jira Service	for in the Atlassian Marketplace.	
A change manageme	ent workflow built by the Jira Service or Jira Service Management		CAB REVIEW
Select Learn mo	re		

After importing the workflow, Jira will automatically match the statuses to the ones that already exist in your instance and suggest creating new ones. We recommend that you do it as presented on the screen.

The following statuses would be created in a default Jira instance:

- Approving
- CAB Review
- Post-implementation review
- Review

If youre happy with them, just click **Next** and then **Import**. Alternatively, you could try mapping these missing statuses to some similar ones that you already have.

#### Associate the workflow with your project

To associate the workflow with your project:

- 1. Open your project, and go to **Project settings > Workflows**.
- 2. Select Add Workflow > Add existing.
- 3. Select the new Change management for Jira Service Management workflow.
- 4. Assign the Change issue type to this workflow.
- 5. When you publish the workflow, your issues will be migrated and your project will start using it.

#### Next steps

When youre ready, go to 2. Create resolutions, post-functions, and priorities.

# 2. Create resolutions, post-functions, and priorities

The change management workflow, and the whole process youll be using, needs some additional configuration items, such as new resolutions, post-functions, and priorities.

#### Create and associate resolutions

For more info about resolutions, see Defining resolution field values.

The result of the change should be reflected on the requests resolution when it transitions to *Closed*. To make it happen, create the resolutions *Changed failed* and *Change successful* and make them available when resolving a change.

To create the resolutions:

- 1. Go to Administration > Issues > Resolutions.
- 2. Create the following resolutions:
  - Change successful
  - Changed failed

To make the resolution available when resolving a change:

- 1. Go to Administration > Issues > Workflows, and open your change management workflow in the Te xt mode.
- 2. Select one of the Close transitions, and click Edit.
- 3. In the **Transition View** field, select your **Resolve Issue Screen**(you can use the one with this name in a default Jira instance), and save. The screen will be added to the transition and users will be able to select a resolution when closing a change through this transition.

Update Workflo	ow Transition	
This page allow	vs you to update the <b>Close</b> transi	ition.
Transition Name*	Close	
Description		
Destination Step	Closed	~
Transition View	JIRA Service Desk Resolve Issu	
	The screen that appears for this transiti	ion (if any).
	Update Cancel	

- 4. Repeat these steps for the remaining *Close* transitions. There are four in total.
- 5. Remember to publish the workflow to apply these changes.

#### Add post-functions to clear resolutions when the change is reopened

For more info about post functions, see Advanced workflow configuration.

It might happen that youll need to reopen a change or just move it back on the workflow. These postfunctions will make sure that the resolution is cleared when that happens, just to avoid confusing your users.

To add post-functions to your workflow transitions:

- 1. Edit your workflow in the **Text** mode.
- 2. Select one of the transitions going out of the status *Closed*. Here are all of them for your reference:
  - Back to post-implementation review
  - Back to Completed
  - Back to Canceled
  - Back to Declined
- 3. Select **Post-functions**, and click **Add post function**. Use the following details when adding one:

- Name: Update Issue Field
- Issue field: Resolution
- Field value: None
- 4. Repeat the steps for the remaining transitions.
- 5. Remember to publish the workflow to apply these changes.

#### Create the Critical priority

For more info about priorities, see Defining priority field values.

Jira comes with the default Highest priority, but it doesnt have the Critical priority. Create one to follow the ITIL terminology. **It is also required** for other steps to work automation rules that youll configure later will use this priority.

To create the Critical priority:

- 1. Go to Administration > Issues > Priorities.
- 2. Select Add priority.
- 3. Call your priority Critical, give it some description and icon. Click Add.

To associate the priority with your project:

- 1. Go to Administration > Issues > Priority schemes.
- 2. Find the scheme used by your project and select **Edit**.
- 3. Move the Critical priority to the list of Selected priorities.

Scheme Name*	TEAM - Jira Service Manager	nent P	
Description			
elect priorities			
	priorities by dragging and drop	ping them into the desired order.	
milarly, drag and dr	op priorities from one list to th	e other to add or remove them.	
elected priorities		Available priorities	
Remove all		Add all	
Blocker		≓Highest	
Critical		l≫Lowest	
High			
Medium			
Low			
OMinor			
Default priority	None	~	
	Lindate Cancel		
	Update Cancel		

#### Next steps

When youre ready, go to 3. Create and update custom fields.

# 3. Create and update custom fields

Most of the custom fields used for change management already exist in Jira so you can reuse them, but well still need to create a few theyre needed so your team has the right fields to share their plan and approach for tackling the changes.

## Review existing custom fields

Here are existing custom fields that youll reuse. Were listing them for reference:

- Change type
- Change start date
- Change completion date
- Impact
- Urgency
- Change risk
- Change reason
- Change managers
- CAB
- Approvers (optional)

## Update existing custom fields

Here are some recommendations on what to do with existing custom fields:

Custom field	Description
Change managers	They will be used to get your change requests approved, well do it in the next step. At this point, you can decide whether you want to include a list of approvers or let agents or customers add them manually.
САВ	<ul> <li>Here are your options:</li> <li>Agents can add or edit approvers for these fields when they fill in the details of a change request. To let customers do it, youll need to enable and show these fields on the customer portal.</li> <li>You can add approvers as default values of these fields. After the change request is created, the approvers can be modified up until the request reaches the approval steps.</li> <li>You can pull a list of approvers for these fields automatically only on the customer portal. To do it, enable these field on the customer portal, but keep them <i>Hidden</i>.</li> <li>For more info, see Configuring Jira Service Management approvals.</li> </ul>
Approvers	This a default field and works just like the fields mentioned above. You can keep it, but weve removed it and used the Insight object/s field instead. The Insight field lets you add approvers that are related to the assets youre changing, and they are the best approvers of your requests. Regardless of what youll do with this field, youll also create the Insight field in the next step.

#### Create new custom fields

The best practice of ITIL is to have the implementation, test, and backout plans for your changes. These fields are text fields and will let you enter and store these plans when creating or editing a change.

#### Create the custom fields

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To create the planning custom fields:

- 1. Go to Administration > Custom fields.
- 2. Select Add custom field.
- 3. Create the fields as described in the table below.

- 4. Associate each field with the Change issue type and your project.
- 5. Associate each field with the Create and Edit/View screens for your Change issue type.

(i) Just to give you some tips in a default Jira instance, these screens would be called:

- Project key: Jira Service Management: Change Create Issue Screen
- Project key: Jira Service Management: Change View/Edit Screen

Custom field	Туре
Implementation plan	Text field (multi line)
Test plan	Text field (multi line)
Backout plan	Text field (multi line)

#### View the new fields

Heres how these fields should look on your changes:

🔸 Jirc							🕂 😯 🗘 👦
	QUEUES	×	TEAM-3				Return to queue
	All open	2	Edit Issue : TEA	M-3	Configure Fields		Neturn to queue
	Unassigned issues	1	Change risk	High 🗸		ow 🗸 🖂 Adr	nin 🖌
G	Assigned to me	1	Pending reason	None 🗸			< 🖞 Export 🖌
	Waiting on me	0		Specify the reason for moving the issue to the Pending status			
•	Incidents	0	Affected object	💠 Jira Software	✓ Q,	ld 7h 🗸	Time to approve nor
D	□ Heported in the	0	Implementation	1. Back up everything!			within 4d 8h 🛅
-	iii → Critical	0	plan	2. Upgrade Jira on the first node - Download Jira			
<b>.</b>		1		- Extract the files - Install the database driver		ee:	Master admin
Ø	iii → Due in 24h	0			1.	er:	Waster admin
	Change	1	Test plan	<ol> <li>Spin up the staging environment.</li> <li>Repeat the "Implementation plan" in the staging environment.</li> </ol>		ers:	1 Stop watching this
	<ul> <li>         → Ready for impl         → Emergency cha         </li> </ul>			<ul><li>3. Once upgraded, test these actions:</li><li>- Transitioning issues</li></ul>			issue
	Problem	0		- Assigning users	11	e project req	uest
	Generation → Completed last		Backout plan	Make sure you have the following backups from your previous version	on:		
	Recently resolved			<ul> <li>The Jira database (created with the database's native tools)</li> <li>The Jira home directory</li> </ul>		d:	19 minutes ago
	+ New queue			- The Jira installation directory To roll back an upgrade, do this:	4	ed:	3 minutes ago
			_	С			
					Update Cancel		
			<ul> <li>Attachments</li> </ul>				
0				Drop files to attach, or browse.			
»							

#### Enable the fields on the customer portal

By default, all these custom fields are available only in the agent view. If youd like customers to create change requests through customer portal, you need to enable and show them on the portal.

To enable fields on the customer portal:

- 1. Open your project and go to **Project settings > Request types**.
- 2. Create or select a request that will work as a change request for your customers.
- 3. Select Edit fields.
- Select + Add a field, and add your fields. After saving, they should appear in the Visible fields section.

Next steps

When youre ready, go to 4. Link your project to Insight asset management.

# 4. Link your project to Insight asset management

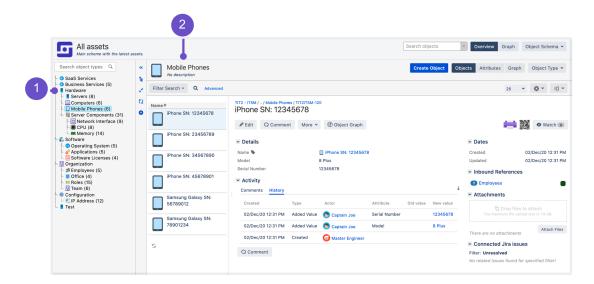
A change request should be opened against something be it a configuration item, physical server, or some other asset that you need to change or improve. Well help you create a basic inventory of assets in Jira Service Management and then link it to your project so you can start including assets in changes.

Over time, you can improve your inventory and make any adjustments to this configuration you need.

#### Insight at a glance basic overview

This is a basic overview of Insight, just to show you how it all works and connects together. If youd like to learn more, heres a getting started guide.

If youre not so familiar with the basics, assets in Insight are called objects. This is what it looks like in Insight:



- 1. **Object types:** These work like categories that group your actual assets. They would typically be offices, computers, or devices.
- 2. **Objects:** These are your assets, grouped within object types. Each asset has attributes that help identify and describe it, just like issue fields.

#### Linking your inventory and including assets

Objects can be selected and included in issues through Insight custom fields that link projects to your Insight inventory. Such a custom field can be linked to your whole inventory or only parts of it this will affect the objects that can be selected by users.



🖋 Edit	Q Comment	Assign More ~	Approve Decline	Workflow - Admin -		< 🖞 Export
✓ Details					✓ SLAs	
Type: Priority:		Change	Status:	PEER REVIEW / CH (View Workflow)	4d 7h 🕚	Time to approve norma within 4d 8h
Compor		None	Resolution:	Unresolved		
Labels:		None			<ul> <li>People</li> </ul>	
Impact:		Significant / Large			Assignee:	Unassigned
Urgency		High				Assign to me
Change		Normal			Reporter:	🧑 Master admin
Change		Upgrade			Votes:	0
Change		High			Watchers:	1 Stop watching this issues
Affected	l object:	💠 Jira Software				
			RUNNING			
		License Server	Data Center license		Service project req	uest
		Server	exchange.prod.app1			
		Importance	High		V Dates	

Selecting an object

Create a basic Insight inventory

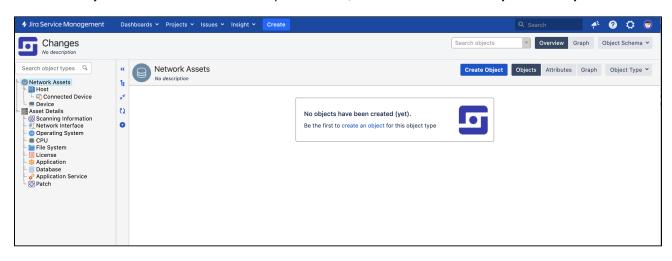
Viewing the object in your issue

Create the object schema

To create a basic Insight inventory:

- 1. In the Jira top navigation bar, select Insight > Insight Object Schemas.
- 2. Select Create Object Schema.
- 3. Choose Create Sample IT Asset Schema.
- 4. Give it a name and click Create.

Your inventory has been created with a sample structure, but it still needs some objects and adjustments.



#### Add attributes needed for approvals and automation rules

Approvals and automation rules that you will add in the next steps rely on the *Importance* and *Owner* attributes of your objects in Insight. Lets add these attributes, you can make the adjustments later.

To add attributes:

- 1. Select the *Applications* object type in the list on the left. You can select any other, but well use this one in the examples.
- 2. In the top right, select Attributes.
- 3. Add an attribute by specifying fields in the last line of attributes. You can choose a name, type and type value, as well as configure additional items by selecting the cog icon.
- 4. Click **Add**. Your attribute will be added to the object type, which means it will be used by all objects within this object type.

Need more details? See Adding attributes to object types.

Add the following attributes to the *Applications* object type, which is under *Asset details*. You can choose other object types, but well use this one in examples:

Attribute name	Type and Type value	Values
Importance	<ul> <li>Type: D efault</li> <li>Type value: Select</li> </ul>	To add the options, click the <b>cog icon &gt; Configure</b> . <ul> <li>Critical</li> <li>High</li> <li>Medium</li> <li>Low</li> </ul>
Owner	<ul> <li>Type: User or Group</li> </ul>	You can choose the value when you edit an underlying object. Choose a user or group who will be responsible for this particular object.

660

#### Create some objects

Add a Jira Software object to the Applications object type. You can add more objects if you wish.

To create objects:

- 1. Select any of the object types in the list on the left.
- 2. In the top right, select **Objects**.
- 3. Select **Create objects**, and fill in the attributes (fields). All these attributes have been inherited from the parent object type.

Need more details? See Creating objects.

Heres a sample Jira Software object you can create:

**Object type:** Asset details > Applications.

#### **Object details:**

- Name: Jira Software
- Vendor: Atlassian
- Version: LTS
- Importance: High
- Owner: jira-administrators, or any other user

#### Link your inventory to your Jira project

Your Insight inventory can be linked to Jira projects by using the Insight custom fields. They behave like regular Jira custom fields but have additional configuration that lets you map it to your inventory, or some parts of it.

So For more details, see Adding Insight custom fields to screens in Jira.

#### Create the Insight object/s custom field

To create the Insight custom field:

- 1. Go to Administration > Custom fields.
- 2. Select Add custom field.
- 3. Select All, and choose Insight Object/s.
- 4. Give it a name Affected object and associate the field with change requests and your project.
- 5. Click Create.
- 6. Associate the field with the Create and View/Edit screens, like you did in one of the previous steps.

#### Configure the field

Well map the field to your whole inventory, just to have access to all assets. You can adjust it later if you wish to.

To configure the Insight custom field:

- 1. On the Custom fields page, search for your custom field.
- 2. Select > Configure.
- 3. Select Edit Insight Configuration.
- 4. Set **Object Schema** to the object schema you created. Thats your inventory.
- 5. Leave the remaining fields as they are.

Configure Insight Custom Field - Affected object (customfield\_10134)

Scope			
Object Schema	All assets		i
Filter Scope (IQL)	Not configured		(i)
Filter Issue Scope (IQL)	Not configured		i
Filter Assign Scope (IQL)	Not configured		i
Make Filter Assign Strict			i
User Interaction			
Type of interaction	● Select ○ Checkbox / Radio button		(i)
Filter objects with attributes	Label ×	~	i
Object attributes on Issue view		~	i
Multiple			i
Option to add all objects			i
Jira Service Management			
Show object picker on customer portals			(j)
Force to show on Customer Issue details			(i)
Return to Jira Custom Field			

#### Enable the field on the portal

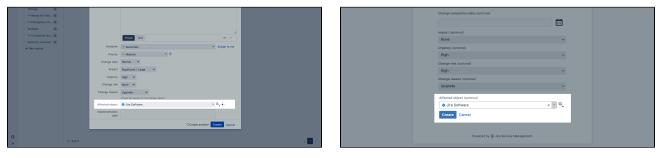
Like with other custom fields, if youd like your customers to be able to select a value for this field, you need to enable and show it on the customer portal.

To enable the field on the customer portal:

- 1. Open your project and go to Project settings > Request types.
- 2. Find a request that works as a change request for your customers.
- 3. Select Edit fields.
- 4. Select + Add a field, and add your field. After saving, it should appear in the Visible fields section.

# View the field

When you create a new change, your custom field should be displayed on the screen. You should also be able to select objects from your inventory.



Agent view

Customer portal

#### Next steps

When youre ready, go to 5. Add approvals to your workflow.

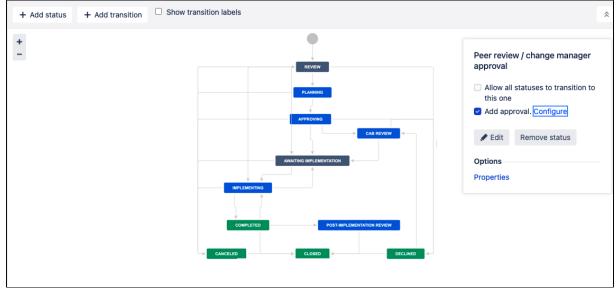
# 5. Add approvals to your workflow

Every change should be approved and accounted for. In this step, well show you how to add approvers to your workflows. Well use approvers from Insight objects (people responsible for your assets) and Jira users (CAB and change managers), and well add them to two workflow steps.

Add approvals to your workflow

To add an approval:

- 1. In your project, go to **Project settings > Workflows**.
- 2. Select your change workflow and edit it.
- 3. Select the right workflow steps, as described in the next sections. Youll do it separately for the **Approv ing** and **CAB review** steps.
- 4. Select Add approval, and click Configure next to it.



#### Workflow step: Approving

This workflow step is only used by *Normal* changes. Its an initial review by change managers and asset owners that are overseeing changes made to production services.

Configure approval for the **Approving** step in the following way:

Administration Q Se	arch Jira admin				🖷 😁 Back to project: Tomek change mgmt
Applications Projects Issues	Manage apps	Add approval		×	
ISSUE TYPES Issue types Issue type schemes Sub-tasks	Workflows TCM: Chang This Jira Service	Add approvers required to move the it after it's approved or declined. Lea Get approvers from		at happens to	SED BY 1 PROJECT ⑦
	<ol> <li>You are eq</li> </ol>		Change managers	~	Publish Discard View Original
WORKFLOWS Workflows			Insight object field ()		
Workflow schemes	Diagram Te		Custom field		
SCREENS	+ Add statu		Affected object Attribute	*	*
Screen schemes	+		Owner Attributes of objects included in your field.	~	
Issue type screen schemes FIELDS Custom fields		Consider approved after	<ul> <li>All approvals</li> <li>approval(s)</li> </ul>		Planning Description Planning the implementation of the change and
System fields		Transition when approved	Awaiting CAB review	~	verifying the change Show more
Field configurations		Transition when declined	Decline	~	Allow all statuses to transition to this one
Field configuration schemes Custom fields optimizer				reate Cancel	<ul> <li>Add approval. Configure</li> <li>Edit Remove status</li> </ul>
PRIORITIES Priorities				а <mark>скожо</mark> андария Э	Options

Field	Value
Get approvers from	User picker field <ul> <li>Custom field: Change managers</li> </ul>
	Insight object field <ul> <li>Custom field: Affected object</li> <li>Attribute: Owner</li> </ul>
Consider approved after	Up to you, usually 1 or 2 approvals are enough.
Transition when approved	Awaiting CAB review Note: Not all teams are using CAB reviews and we also treat it as an optional step. If youd like to omit it, you can set this transition to <i>Ready for implementation</i> .
Transition when declined	Decline

#### Workflow step: CAB review

This workflow step is only used by *Normal* changes. Its a thorough review by Change Advisory Board (CAB) to assess the change and reduce the potential risk.

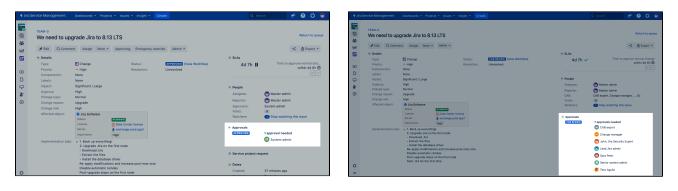
Configure approval for the **CAB review** step in the following way:

Administration Q Sea	arch Jira admin				👎 Back to project: Tomek d	change mgmt
Applications Projects Issues	Manage apps	Add approval		×		
ISSUE TYPES Issue types Issue type schemes Sub-tasks	Workflows TCM: Chang This Jira Service	Add approvers required to move the it after it's approved or declined. Lea Get approvers from		hat happens to	SED BY 1 PROJECT	0
WORKFLOWS	You are ed		CAB	~	Publish Discard	/iew Original
Workflow schemes	Diagram Te + Add statu	Consider approved after	<ul> <li>All approvals</li> <li>approval(s)</li> </ul>			*
Screens Screen schemes Issue type screen schemes	+	Transition when approved Transition when declined	Ready for implementation Decline	~	Planning	
FIELDS Custom fields				Create Cancel	<b>Description</b> Planning the implementation of the chan verifying the change Sh	
System fields Field configurations					Allow all statuses to tran this one	sition to

Field	Value
Get approvers from	User picker field
	Custom field: CAB
Consider approved after	Up to you, usually 1 or 2 approvals are enough.
Transition when approved	Ready for implementation
Transition when declined	Decline

#### Result

Heres a sample change request with approvals, in two different workflow steps that you configured:







## Next steps

When youre ready, go to 6. Create and update automation rules.

# 6. Create and update automation rules

Automation rules will do the repetitive tasks for you and make sure your change requests behave as they should. The rules youll create will do the following actions:

- Determine and assign the proper change risk
- Calculate the priority
- Escalate Emergency changes
- Auto-approve Standard changes

Create automation rules

- 1. Open your project.
- 2. Go to **Project settings > Automation**.
- 3. Select Add rule and choose Custom rule.
- 4. Add the following rules:

#### Rule 1: Determine risk based on affected objects importance

This rule will check the value of the *Importance* attribute of the affected Insight object and adjust the change risk accordingly. For example, if the objects importance is Critical, the risk will be set to Critical, and if its High the risk will be set to High as well.

When	lf	Then
Trigger: Issue created	<pre>Condition: Issue matches Advanced query:     issuetype = Change AND "Affected object" in iqlFunction     ("Importance = \"Critical\"")</pre>	Action: Edit issue Field: Change risk Replace with value: Critical
	Else if	Then
	<pre>Condition: Issue matches Advanced query:     issuetype = Change AND "Affected object" in iqlFunction     ("Importance = \"High\"")</pre>	Action: Edit issue Field: Change risk Replace with value: High
	Else if	Then

<pre>Condition: Issue matches Advanced query:     issuetype = Change AND "Affected object" in iqlFunction     ("Importance = \"Medium\"")</pre>	Action: Edit issue Field: Change risk Replace wit value: Medi
Else if	Then
Condition: Issue matches	Action: Edit issue
Advanced query:	Field:

## Rule 2: Calculate priority based on changes impact and urgency

This rule will check the values of the *Impact* and *Urgency* fields of the change and update the priority accordingly.

When	If	Then
Trigger: Issue	Condition: Issue matches	Action: Edit
created	Advanced query:	issue
	<pre>issuetype = Change AND (Impact = "Extensive / Widespread" AND Urgency in (High, Critical)) OR (Impact = "Significant / Large" AND Urgency = Critical)</pre>	<b>Field:</b> Priority
		Replac e with value: Critical
	Else if	Then
	Condition: Issue matches Advanced query:	Action: Edit issue
	<pre>issuetype = Change AND (Impact = "Moderate / Limited" AND Urgency = Critical) OR (Impact = "Significant / Large" AND Urgency = High) OR (Impact = "Extensive / Widespread" AND Urgency = Medium)</pre>	<b>Field:</b> Priority
		Replac e with value: High
	Else if	Then

Condition: Issue matches	Action Edit
Advanced query:	issue
<pre>issuetype = Change AND (Impact = "Minor / Localized" AND Urgency = Critical) OR (Impact = "Moderate / Limited" AND Urgency in (High, Medium)) OR (Impact = "Significant / Large" AND Urgency = Medium) OR (Impact = "Extensive /</pre>	<b>Field:</b> Priorit
Widespread" AND Urgency = Low)	Repla
	value Mediu
Else if	Then
Condition: Issue matches	Actio
Advanced query:	Edit issue
<pre>issuetype = Change AND (Impact = "Minor / Localized" AND Urgency in (High, Medium, Low)) OR (Impact in ("Moderate / Limited", "Significant / Large") AND Urgency = Low)</pre>	<b>Field</b> : Priorit
	Repla e with value

#### Rule 3: Escalate emergency changes

This rule will transition Emergency changes right to the *Implementation* status on the workflow. Also, a public comment about it will be added.

When	lf	Then
Trigger: Iss	Condition: Issue matches	Action: Transition issue
ue created	Advanced query:	Transition: Emergency override
		Action: Add comment
	issuetype = Change AND "Change type" = Emergency	Comment text:
		This is an automated message to tell you that your request has been transitioned to Implementing.
		Comment type: Public

#### Update existing automation rules

Edit the following rule to make it work with the new workflow.

#### Rule: Auto-approve standard changes

With these updates, Standard changes will be automatically approved and transitioned to the Implementing status. Also, a public comment about it will be added.

When	lf	Then
Trigger: Issu e created	Condition: Issue matches	Action: Transition issue
	Advanced query:	Transition: Ready for implementation
	issuetype = Change AND "Change type" = Standard	Action: Auto approve/decline
	"Change type" = Standard	Answer: Approve
		Action: Add comment
		Comment text:
		This is an automated message to tell you that your request has been pre-approved.
		Comment type: Public

## Next steps

When youre ready, go to 7. (Optional) Set up a calendar to coordinate your changes.

# 7. (Optional) Set up a calendar to coordinate your changes

Team Calendars is part of Confluence Data Center, and you can optionally use it to view your planned changes in a calendar. It will let you track changes and schedule them so they coincide with business events. Learn more about Team Calendars

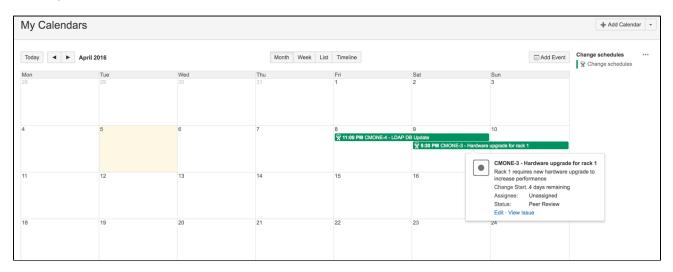
Toset up a change calendar with Confluence:

- 1. In Confluence, go to your teams space.
- 2. From the sidebar, select**Calendars**.
- 3. SelectAdd calendar.
- 4. Viewing the calendar, selectAdd event.
- 5. Select the Event Typedrop down and choose Jira Issue Dates.
- 6. UnderDisplay, select theJQL (advanced) and enter the following:

project = "Your IT service desk project name" AND issuetype= Change

- 7. UnderDate range, selectAdd start and end dateSelectChange start dateas the start date. SelectCh ange completion dateas the end date.
- 8. SelectOK.

The calendar automatically picks up the start and end dates of change requests fromyour service project. Then, itplots them on the calendar.



#### You're good to go

These are all the steps needed to adjust your project to new change management. If you havent checked it already, see Sample lifecycle of a change for an overview of how your changes will behave.

# Managing incidents with your IT service desk

An incident model helps service desksinvestigate, record, and resolve service interruptions or outages. An Information Technology Infrastructure Library (ITIL)incident management workflow aims to reduce downtime and negative impacts.

Incident management focuses on short-term solutions. To managereoccurringincidents or underlying problems, seeManaging problems with your IT service desk.

The IT Service Desk template comes with an incident management workflow. This workflow ensures that youlog, diagnose, and resolve incidents. We recommend you start with this workflow and adapt it to your business needs.

When managed well, incident records can identify:

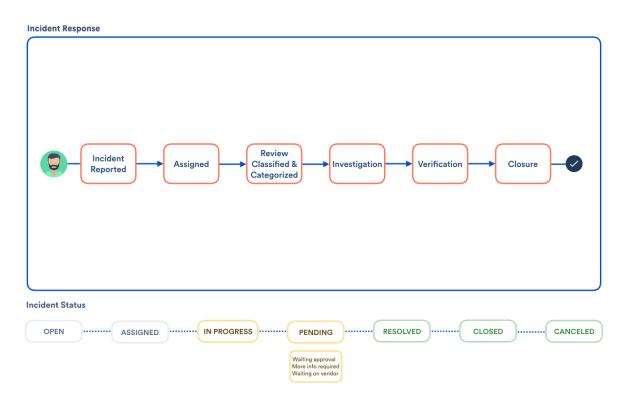
- missing service requirements
- potential improvements
- future team member training

This page describes some best practices for managing incidents using Jira Service Management. You mayseek formal training in how to make ITIL recommendation work best for your business.

#### Incident management process

The IT Service Desk template associates certain requests with an incident workflow. We set up the workflow to complement the following incident management process. We recommend you start with this workflow and adapt it to your specific needs over time.

The ITIL incident management process, inbrief:



- 1. Service end users, monitoring systems, or internal IT members report interruptions.
- 2. The service desk describes and logs the incident. Theylinktogether all reports related to the service interruption.
- 3. The service desk records thedate and time, reporter name, and a unique ID for the incident. Jira Service Management does this automatically.
- 4. A service project agent labels the incidents with appropriate categorization. The team uses these categories during post-incident reviews and for reporting.
- 5. A service desk agent prioritizes the incident based on impact and urgency.

- *6.* The team diagnoses theincident, the services effected, and possible solutions. Agents communicate with incident reporters to help complete this diagnosis.
- 7. If needed, the service project team escalates the incidenttosecond-line support representatives. These are the people whoworks regularly on the effected systems.
- 8. The service project resolves the service interruption and verifies that the fix is successful. The resolution is fully documented for future reference.
- 9. The service desk closes the incident.
- 10. Team members should carry outpost-incidentreviews for major incidents. These investigations can help determine:
  - a. missing requirements
  - b. potential changes to service level agreements
  - c. potential service improvements or focus areas

#### Set up incident management in Jira Service Management

#### Configure the workflow and fields with the Incident Management workflow add-on

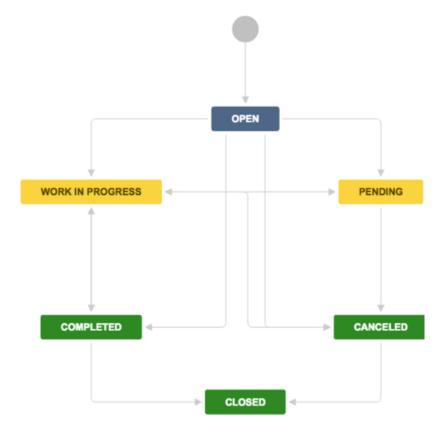
We used the ITIL framework to build the following workflow add-on for incident management:https://marketpl ace.atlassian.com/plugins/com.atlassian.servicedesk.incident/server/overview.

You can use this workflow as a template for your own incident management process.

To use the workflow from the Marketplace:

- 1. Log in as a user that has the Jira administrator global permission, and follow the instructions listed here toimport a workflow.
- 2. To add the workflow fields to your incidents, activate the screen by following the instructions here: Defining a screen.

#### Incident management workflow



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#### Default form fieldsfor incident reports

Jira Service Management allows you to customize the fields of information collected from customers. Additionally, you can customize the fields of information used by your agents. Jira Service Management does this through issue type fields and screens. Fields help agents investigate, assess, and categorize the incident for reporting or querying.

By default, we include the following fields in your agents' view of an incident. If needed, you can add custom fields. Find out more about fields in Jira.

Field name	Description
Summary	A short description of the request.
Reporter	The person who submitted the request.
Component/s	Segments of your IT infrastructure that relate to the request. For example, "Billing services" or "VPN server". These are used for labeling, categorization, and reporting.
Attachment	Files or images added to the request.
Description	A long, detailed description of the request.
Linked Issues	A list of other requests that affect or are effected by the request. If your business uses other Atlassian products, this list may include linked development issues.
Assignee	The team member assigned to work on the request.
Priority	The importance of the request's resolution, usually in regards to your business needs and goals. Sometimes, priority is calculated by impact and urgency.
Labels	A list of additional custom labels used for categorizing or querying records.
Request participants	A list of extra customers who take part in the request, for example, people from other teams or vendors.Read more about participants.
Approvers	A list of people responsible for approving the request, usually business, financial or technical contacts .
Organizations	A list of customer groups interested in the request's resolution.
Impact	The effect of the incident, usually in regards to service level agreements.
Urgency	The time available before the business feels the incident's impact.
Pending reason	A short description or code that indicates why the incident is not progressing.
Product categorization	A category of IT asset or system that the request effects.
Operational categorization	A category of action or function required to fulfill the request.
Source	The asset or system where the incident originated.

Learn more aboutIT service management (ITSM)

Get more tips and tricks for successfulITSM, view case studies, and learn how to take your service project to the next level.

Check out the ITSM resources on IT Unplugged.

# Managing problems with your IT service desk

Information Technology Infrastructure Library (ITIL) distinguishes between incidents and problems. Incident management serves to quickly restore services or broken experiences. For more information on incidents, seeincident management.

Problem management seeks to prevent incidents from happening again. Problems are typically reported by internal IT members and not their customers.

An ITIL problem management workflow aims to investigate, record, and preventIT infrastructure problems. The IT Service Desk template comes with a built-in workflow for handling problems. We recommend you start with the template's default workflow and adapt it to your business needs. When correctly managed, problem records prompt agents to detail knownerrors and workarounds in your knowledge base. These documents:

- help service agents resolve issues and restore services
- reduce downtime
- increase the quality and trust of your IT infrastructure

This page describes best practices for managing problems using Jira Service Management. You mayseek formal training in how to make ITIL recommendation work best for your business.

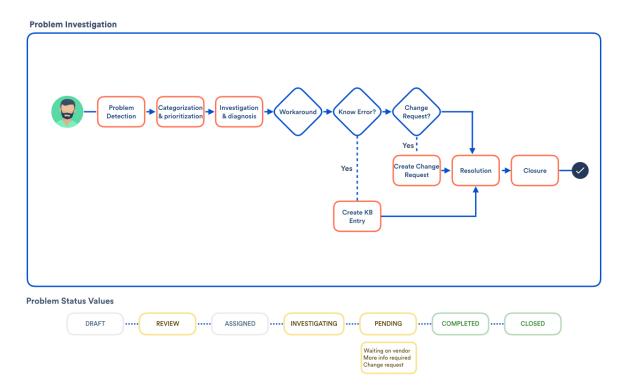
#### Problem management process

The IT Service Desk template comes with a problem-management workflow. We set up this workflow to complement the following problem management process. Use the workflow to transition problem registers alongside these ITILrecommended activities:

- problem investigation
- identification of workarounds
- recording of known errors

We recommend you start with our default workflow and adapt it to your specific needs over time.

The ITIL problem management process, inbrief:



- 1. Incident trends, vendors, or technical support staff report problems to the service desk.
- 2. A service desk team member records the details of the problem and links all related incidents.

- 3. A service desk agent labels the problem with appropriate categorization. They may reuse the labels of the incidents linked to the problem. The team uses these categories during review and for reporting.
- 4. A service desk agent prioritizes the problem. They base priorityon the frequency of related incidents and their impact.
- 5. The service desk team determines the root cause of the problem.
- 6. The service desk team records the workarounds used to resolve related incidents. These workarounds to reduce service interruptions until the service desk fully resolves the problem.
- 7. The service desk team adds known errorsto their knowledge base. Theyincludesymptoms of related incidents and relevant workarounds.
- 8. The service desk team proposes a change to the infrastructure to resolve the problem.
- 9. The service desk closes the problem.
- 10. Team members should carry out in-depth reviews of major problems.

#### Set up problem management in Jira Service Management

#### Configure the workflow and fields with the problem management workflow add-on

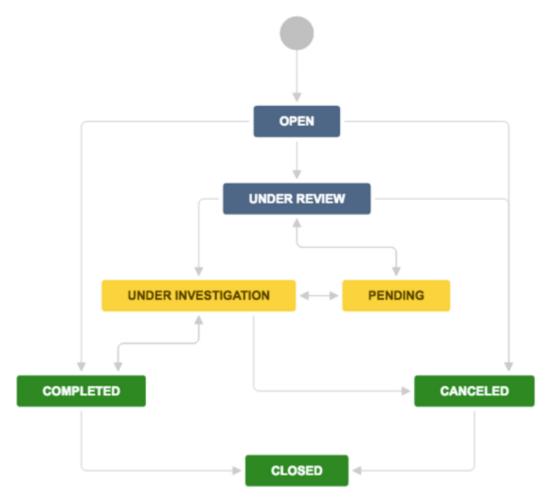
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#### Problem management workflow



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#### Default form fieldsfor problem reports

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Labels	A list of additional custom labels used for categorizing or querying records.
Request participants	A list of extra customers who take part in the request, for example, people from other teams, or vendors.Read more about participants.
Approvers	A list of people responsible for approving the request, usually business, financial or technical contacts .
Organizations	A list of customer groups interested in the request's resolution.
Impact	The effect of the problem, usually in regards to service level agreements.
Urgency	The time available before the business feels the problem's impact.
Source	The asset or system where the problem originated.
Investigation reason	The trigger for prompting an investigation. For example, reoccurring incidents, non-routine incidents, or other.
Pending reason	A short description or code that indicates why the problem is not progressing.
Product categorization	A category of IT asset or system that the request effects.
Operational categorization	A category of action or function required to fulfill the request.
Root cause	The original cause of the incidents related to the problem.

Workaround The detailed description of a temporary, known solution to restore a service. If you have Confluence, we recommend you document your workaround in your knowledge base.

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# **Calculating priority automatically**

Jira Service Management comes with some powerful automation tools. IT teams can set up their service project to calculate a request's priority automatically.

Removing manual processes gives time back to your team. Your team spends less time triaging and prioritizing requests. And, they spend more time resolving IT service tasks. Calculating the correct priority helps put requests into the correct SLA.

Some IT teams use an impact-urgency matrix to determine the priority of an issue. This page walks through an example for defining this matrix. Then, it discusses using these decisions to automate how priority calculation with these fields.

At the end, you should know a bit more about automation and how it can help you remove all sorts of manual processes. Automation frees up your agents' time and makes your service desk more efficient.

## Create a priority matrix using impact and urgency values

Work with your team to determine how your service desk prioritizes incidents. Below is a sample matrix for how our team thinks about priority. Yours may differ depending on your resources and other factors.

Here's an example matrix:

Impact	Urgency			
	Critical	High	Medium	Low
Extensive / Widespread	Highest priority	Highest priority	High priority	Medium priority
Significant / Large	Highest priority	High priority	Medium priority	Low priority
Moderate / Limited	High priority	Medium priority	Low priority	Lowest priority
Minor / Localized	Medium priority	Low priority	Lowest priority	Lowest priority

Note that the priority values listed above are just examples for this tutorial. You can also create priorities that are specific to your service desk. SeeDefining priority field values and Associating priorities with projects for more details.

## Before you begin

Make sure you have the following twocustom fields of the type **Select List (single choice)**, each containing the values listed in the previous table:

- Urgency:Critical, High, Medium, Low
- Impact: Extensive, Significant, Moderate, Minor

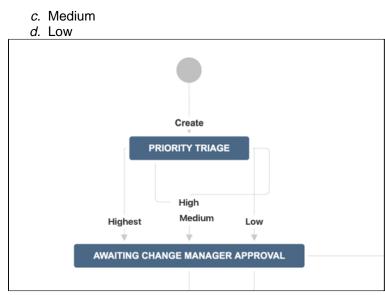
## Automating the calculation

After Step 1, the workflow transitions a change to **Priority triage**status as soon as an issue is created. You will also have 4 transitions to set the **Priority** to a value.

With Step 2, you will set up an automation rule that checks the value of the Urgency and Impact fields and fires off the corresponding transition according to the matrix.

#### Step 1: Configure the workflow

- 1. Go to the workflow that is used by your**Change**issue type.
- 2. Between the Create transition and your first status, add a new status and name it Priority Triage.
- 3. Add the following four transitions from this status:
  - a. Highest
  - b. High



- 4. In each of these transitions, add a post function.
  - a. Select the Update Issue Field post function.
  - b. In the post function, update the Priorityfield to match the transition, for example, the Highest transition will have a post function that changes the Priorityfield to Highest. Similarly, the Hightr ansition will have this post function to set the Priorityfield as High, and the Medium transition to set the value to Medium.and Low to Low.

Transition: Highest					
PRIORITY TRIAGE	Highest				
Screen: None - it will happen instantly Triggers 0 Conditions 0 Validators 0 Post Functions 6					
The following will be processed after the transition occurs					
1. The Priority of the issue will be set to Highest.					
2. Set issue status to the linked status of the destination workflow step.					
3. Add a comment to an issue if one is entered during a transition.					
4. Update change history for an issue and store the issue in the database.					
5. Re-index an issue to keep indexes in sync with the database.					
6. Fire a Generic Event event that can be processed by the listeners.					

5. Publish the workflow.

#### Step 2: Configure the automation rule

After the post function is set, let's create an automation rule that triggers theappropriate transition depending on the urgency and impact selected during request creation.

The rules should follow the following pattern:

- When: Issue created
- If, orElse if:Specify the urgency and impact value pair according to the matrix, for example:

status = "Priority triage" AND Impact = "Extensive / Widespread" AND Urgency = Highest

• Then: Transition issue, and select the transition that matches the value pair according to the matrix.

**Note:** If your**Urgency**or**Impact**value is optional on the request type form or issue create screen, then there might be cases where these fields are empty. In this case, make sure that you add a**Elseif**condition that caters for this scenario, for example:

• Else if:

status = "Priority triage" AND Impact is empty OR Urgency is EMPTY

• Then: Transition issue, Low.

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# Manage changes with your IT service management project 1

Effective service teams plan and control changes, as they understand their impact to their business. Although Jira Service Management provides default change management workflows and fields, weve now updated them to better follow the Information Technology Infrastructure Library (ITIL) best practices. Weve also added a few additional steps that will let you create an inventory of assets and open changes against them by using the built-in asset management functionality.

#### Learn more about ITIL and change management

If youre not familiar with the ITIL best practices, check out our resources. Theyll explain you the basic concepts, definitions, and processes. Learn more about change management

## Set up change management in Jira Service Management

Have a look at the list of customizations weve made to the change management process. If youd like to use them, youll need to adjust your individual projects manually.

#### Change management workflow

The workflow follows the ITIL best practices and terminology, and makes sure your changes are approved and accounted for. Extra steps let you properly plan and assess the most important and risky changes, at the same time not slowing down critical changes that must be implemented right away. All this with the right stakeholders sharing their expertise and approving your changes along the way.

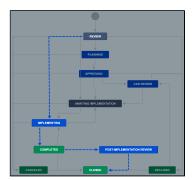


#### Different types of changes using different workflow paths

Thanks to automation rules, different types of changes can take different paths. Just so emergency changes dont have to wait for all of the approvals theyre emergencies after all.

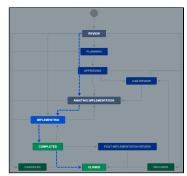
EMERGENCY

An emergency change must be assessed and implemented as quickly as possible. Such a change omits a few steps and goes right into implementation, but it includes an extra review once it's done.





A standard change occurs frequently, is low risk, and has a pre-established procedure with documented tasks for completion. As such, it needs less planning and fewer approvals.



NORMAL

A normal change typically requires an important change to a service or infrastructure, but you might not have a well established process for it. Its good to properly plan and approve it.

#### Automation rules handling repetitive tasks for you

Automation rules will also take some burden off your back and automate repetitive tasks, just so you dont have to think about them:

- · Determine change risk based on the importance of affected asets
- Calculate priority based on Impact and Urgency
- Escalate Emergency changes
- Auto-approve Standard changes

#### Change plans

With custom fields, each change requests can store detailed plans, just to make sure everyone working on it knows what theyre doing or can quickly roll back if it turns out they dont.

- Implementation plan
- Test plan
- Backout plan

#### Inventory of assets and configuration items

Jira Service Management lets you create an inventory of assets and configuration items, together with their details and relations between them. You can then open changes against these assets and get them linked together. Thanks to that, details about an asset are included in the change request and everyone involved has enough context to decide how risky or important a change is.

Viewing an asset

Selecting an asset

Approvals from the right stakeholders

Make sure the most important and risky changes are approved by the right people. You can include change managers, CAB, and approvers that are directly responsible for your assets the right people at the right time. By using Insight custom fields, these approvers will change dynamically depending on the asset affected by your change request.

- Change managers (user picker field)
- Change Advisory Board (user picker field)
- Owners of your Insight assets (Insight field)





Viewing more details





To get started, follow these steps. Theyll help you adjust your projects to all of these changes and provide some explanations about what these changes do:

# Best practices for software teams using Jira Service Management

(i) This guide helps teams using server versions of Jira Service Management and Jira Software.

Software teams that develop with Jira Software can give technical support and get customer feedback using Jira Service Management. Teams using Jira Software can view and comment on Jira Service Management bug reports *without any additional licensing or billing cost*. Read more about collaborating on Jira Service Management.

You can use this guide and Jira Service Management's customer service project template to:

- collect user bugs and feedback via a built-in web portal
- give users technical support
- help users with licensing and billing

Jira Service Management is highly configurable, and the template is just a starting point. Over time, you can finetune the template to your specific business needs.

This guide covers how to:

- Get set up for customer service
- Collect effective bug reports from customers
- Customize Jira Service Management's bug report workflow
- Collaborate with other Jira teams on Jira Service Management issues
- Escalate Jira Service Management issues to other Jira teams

# Collaborate with other Jira teams on Jira Service Management issues

Software teams can get context from your service project agent's conversations with customers. You can set up your service project to allow Jira Software teams to view and comment on Jira Service Management issues.

By default, Jira Service Management agents can:

- view Jira Software issues
- comment on Jira Software issues
- transition Jira Software issues

By default, Jira Software and Jira Core users:

- can't view Jira Service Management requests in the customer portal
- can't view Jira Service Management issues in a Jira Service Management project
- can't comment on Jira Service Management requests in the customer portal
- can't comment on Jira Service Management issues in a Jira Service Management project
- can't view links to Jira Service Management issues in Jira Software or Jira Core project

If you plan to work with other Jira teams, you should change your project's permissions. We recommend giving all logged-in users permission to view and comment on service desk projects.

The table below contains a breakdown of three different types of permissions. These permissions make collaboration between service desk agents and software development teams possible:

	Request participants	View permissions on Jira Service Management projects	Comment permission on Jira Service Management projects		
Permissions	<ul> <li>These users can:</li> <li>view requests in the portal</li> <li>add public comments in the portal</li> <li>add attachments in the portal</li> <li>transition the request through customer visible statuses in the portal</li> </ul>	<ul> <li>These users can:</li> <li>view issues in service projects</li> <li>view linked service project issue information in Jira Software projects</li> </ul>	<ul> <li>Add internal comments on service project issues</li> </ul>		
Effect on Jira Service Management licensing and billing	None	None	None		

The easiest way to collaborate (out of the box)

Jira Service Management agents can add other Jira team members as request participants. Then, Jira Software or Jira Core members can interact with customers in the web portal.

Request participants can:

- view requests in the portal
- add public comments in the portal
- add attachments in the portal
- transition the request through customer visible statuses in the portal

Agents can add request participants to service desk issues. Look for the **People** section in the issue and select the **Request participants** field to add members from other Jira teams.

#### Read more about request participants.

Modify your permissions to let other teams view and comment on service project issues

To view and edit the permission scheme for your service project, go to **Project settings** ()> **Permissions**.

() You need to be a Jira admin to change project permission schemes. Changes to permission schemes affect all projects that share that scheme. Be careful!

Read more about configuring project permission schemes.

#### Give developers permission to view service project issue

To let all Jira Server users on your site view issues on your service project:

- 1. On the project permission scheme page, select Actions > Edit permissions.
- 2. Under Project Permissions, select Edit in the Browse Projects entry.
- 3. In the Granted to selection, choose Application access.
- 4. From the dropdown, select **Any logged in user**.
- 5. Select Grant.

This allows other Jira users to:

- view service project issues
- view links to service project requests in their own projects

#### Give developers permission to comment on service project issues

To let all Jira Server users on your site comment internally on service project issues:

- 1. On the project permission scheme page, select Actions > Edit permissions.
- 2. Under Comment Permissions, select Edit in the Add comments entry.
- 3. In the Granted to selection, choose Application access.
- 4. From the dropdown, select **Any logged in user**.
- 5. Select Grant.

Agents, not customers, will see these comments. Only Jira Service Management agents and admins can comment directly to customers. Other Jira users may comment publicly if the agent adds them as request participants.

#### Share your development teams' custom fields

Bug issues in Jira Software and Jira Service Management can stay in sync if they share custom fields and screens. We suggest you replicate the issue fields and screens from your development teams' bug issues in your Jira Service Management request types.

Work with your development teams' and Jira administrators to share custom fields between your request types and development projects.

Read more about custom fields.

# **Collect effective bug reports from customers**

Jira Software is an issue and bug tracker that helps developers plan, build and ship their work. Jira Service Management is a simple way for customers to send your team bugs and feedback about shipped software.

Your users are your best friends. Their bug reports can help you:

- · resolve issues before other users encounter them
- investigate and fix problems that slip through QA or automated testing
- catch issues from platforms you don't prioritize during testing
- show your users you care about quality and their experience

Issues can happen in any part of software development, not just the code. If your designers, documentation writers, product managers, or other team members track their work in Jira, you can escalate bugs related to their work directly to their teams, too.

#### The bug reporting and resolution process

The information needed to replicate and resolve bugs varies. But, you can standardize your process for collecting bug reports.

The customer service template associates certain requests with a bug report workflow. This workflow complements the bug report process. Use it as a jumping off point for your service project.

Requests that follow a bug report process have the same workflow in Jira Service Management and Jira Software. But, the teams' processes for handling bug reports have significant differences.

Bug process for agents working in Jira Service Management	Bug process for developers working in Jira Software
<ol> <li>A user reports a problem with their software or service.</li> <li>A service project agent investigates to see if they can provide any known solutions to the customer:         <ul> <li>If the problem has a known solution, the service project agent works with the customer to fix the problem.</li> <li>The problem may be new or the service project agent can't find an answer from a knowledge base or development point of contact. In this case, the service project agent escalates the bug report to the development team for fixing. Read more about escalating issues to other Jira teams.</li> </ul> </li> <li>The service project agent liaises between the customer and development team to collect any extra information needed to fix the bug. They communicate the development team's progress.</li> <li>The service project agent verifies with the customer that they fixed the problem. Then, the agent resolves the customer's bug report.</li> </ol>	<ol> <li>The development team receives a bug report.</li> <li>The project manager determines the bug's priority. They assign the issue to a developer.</li> <li>The developer investigates the bug and either verifies or rejects the report.</li> <li>The developer fixes the problem and transitions the issue to a QA tester.</li> <li>The tester verifies they fixed problem and resolves the ticket. They notify the service project agent that development is complete. They may provide extra information, like when the fix will reach the customer.</li> </ol>

#### Collect specific information from users with custom fields

Work with your development team and Jira administrators to share a custom field set. Define what custom fields you want to collect to aid developers fixing bugs. Your Jira administrator can maintain these fields in a single screen scheme. They can apply the scheme to both development and service projects. Read more about custom fields and screen schemes.

Developers note incomplete information as the biggest blocker to investigating and fixing bugs. The most common information that developers use are:

- the steps to reproduce
- observed and expected behavior
- screenshots

You might want to collect other information to categorize, report, or automate actions related to the bug report. For example:

- operating system
- version
- component
- URL
- user agent string

The more information you can collect, the easier diagnosing the problem will be. Your development team with thank you.

By default, the **Report a bug** request type comes with these fields:

- Summary
- Symptom
- Attachment

To add pre-created custom fields to your request types:

- 1. In your service desk project, select **Project settings** (C) > **Request types**.
- 2. In the Report a bug request type entry, select Edit fields.
- 3. Select Add a field.

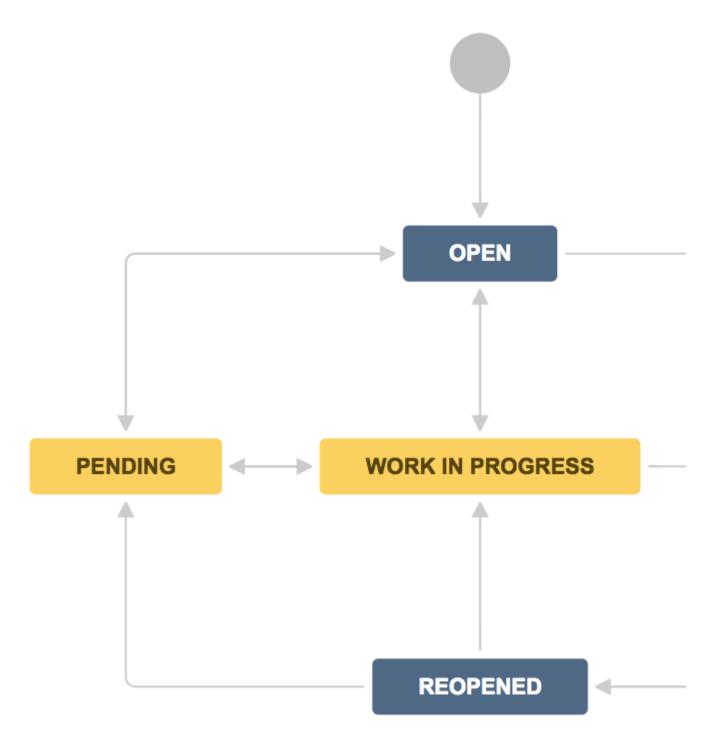
Read more about adding custom fields.

#### Tips for creating bug report forms on your portal

- You can add help and instructions to your bug report request type. Encourage your customers to report each problem on a separate request. This helps tracking bugs in reports and development sprints.
- Use natural language when asking for information. For example, if you add a field to collect expected behavior, ask your customer to report these in plain terms: "What did you expect to happen?"
- Check in with your development teams every so often. Ask if there's any more information they need to squash bugs in your software.
- Check in with your Jira administrators every so often. Ask if there's any changes to screens that you should reproduce in your request types.

# Customize Jira Service Management's bug report workflow

When a customer reports a bug using the portal, Jira Service Management assigns the request to your organization's **Bug** workflow. By default, this workflow is the same for both Jira Service Management and Jira Software issues.



This workflow follows the basic process above. Jira administrators can customize it to adapt to the needs of your customers, developers, and service desk agents.

Customize your bug report and resolution workflow

Jira's default **Bug** workflow is a good starting point for most teams. As your organization grows, you may want to update your workflow to suit the specific needs of your business. For example, you can add steps for approvals or QA verification.

2

You need to be a Jira admin to make changes to workflows. Changes to workflows affect all projects that use the workflow. Be careful!

To edit the bug workflow:

- 1. In your service project, select **Project settings** (C) > Workflows.
- 2. Select the edit icon ( ) next to the entry titled **<Project key>: Jira Service Desk default workflow**.
- 3. Use the workflow editor to add or remove steps and transitions.

#### Read more about working with workflows.

#### Add a "waiting on development" step to the request's workflow

You may want to add a stage to your bug workflow for when a development team investigates the issue. This status helps your service team track which bugs are being handled by a development team. And, it informs customers when the issue is being looked at by developers.

To add a new step in the workflow:

- 1. Follow the above steps to customize the <Project key>: Jira Service Desk default workflow.
- 2. Select + Add status.
- 3. Give the status a name. For example, Waiting on development team and select Add.
- 4. Give the status a description. This helps administrators who manage workflows across Jira Server apps.
- 5. Switch the category to **In progress**.
- 6. Select Create.

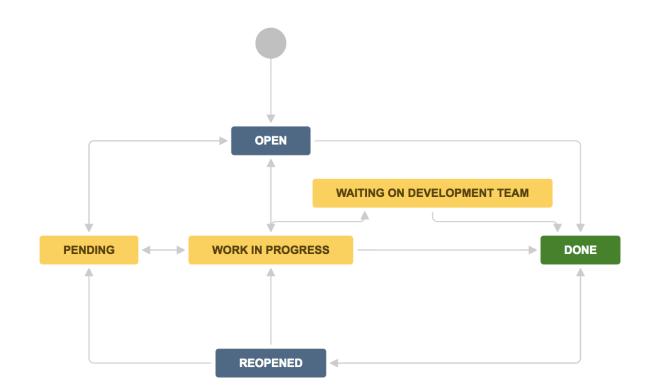
To add an incoming "escalate to development team" transition:

- 1. Select the Waiting on development team status.
- 2. Select Add Transition.
- 3. In the From status drop down, select Work in progress.
- 4. In the To status drop down, select Waiting on development team.
- 5. In the Name field, provide the call to action. For example, Escalate to development team.
- 6. In the Screen drop down, select Workflow Screen.
- 7. Select Add.

To add a transition to allow the agent to mark the request as done:

- 1. Select + Add transition.
- 2. In the From status drop down, select Waiting on development team.
- 3. In the To status drop down, select **Done**.
- 4. In the Name field, provide the call to action. For example, Mark as close.
- 5. In the Screen drop down, select Resolve Issue Screen.

Publish your draft workflow.



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# Escalate Jira Service Management issues to other Jira teams

As agents investigate bug reports, they may need to escalate issues to the development team. For example, the agent may not find a fix from the knowledge base or a development contact. In this case, they may escalate the issue to a development team to fix in the software.

The development team should use an issue on their software board or backlog to track the fix. To make this easier, Jira Service Management agents can create these issues for them. Here's how the process works:

- 1. A service project agent receives a bug report from a customer.
- 2. The agent verifies that the bug needs a developer to fix the issue.
- 3. The service project agent creates a linked issue in the development team's Jira Software project.
- 4. The development team lead prioritizes and assigns the software issue to a developer to fix.
- 5. The developer works in their Jira Software project while fixing the issue.
- 6. The developer resolves the issue and Jira Service Management automatically updates the service agent about the fix.

Agents can pass on feature requests or improvement suggestions to project planning teams. They can also create issues with public-facing websites for marketing or documentation teams that use Jira Core.

#### Create linked issues

Service project agents can escalate a Jira Service Management issue to a Jira Software of Jira Core project by creating a linked issue. To create a linked issue:

- 1. View the issue.
- 2. Select the **More** option.
- 3. Select Create linked issue.
- 4. Choose the appropriate project where the issue needs to be escalated to.
- 5. Select Create.

Linked issues created this way use a "causes" link by default. This means:

- The service desk issue is "caused by" the linked development issue.
- The development issue "causes" the linked service desk issue.

Jira Software and Jira Core teams get the most use of this technique when they can view and comment on issues in your service project. Read more about collaborating with other Jira teams on Jira Service Management issues.

#### Automatically update Jira Service Management agents about the progress of a linked issue

Service projects come with an automation rule that updates agents on the status of linked issues. The rule adds an internal comment on the service desk issue whenever another team transitions a "caused by" linked issue.

So, when a developer looks into a bug and resolves it as "fixed", they notify the service desk agent in the process. Then, the agent can follow up with the customer to make sure the fix works for them.

We enable the **Update when a linked issue changes** automation rule by default. To view or edit this rule:

In your service desk project, select **Project settings** () > Automation.

Read more about automation.

# Get set up for customer service

#### Create a customer service project

You need to be a Jira administrator to do this step.

To create a project using the customer service template:

- 1. Select **Projects > Create project**.
- 2. Choose the **Customer service** template and hit **Next**.
- 3. Name your project.
- 4. Select Submit.

Your new project comes with a service catalog, recommended workflows, and basic reports. If you bundle Jira Service Management with Confluence, we also create a Confluence knowledge base. We recommend using this to record known solutions, FAQs and other articles that your customers can use to serve themselves. Try Confluence for free.

#### Create forms to collect the right information from your users

Our web forms make sure users give you all the details you need to give support or collect feedback. If you get all the information up front, you can:

- prioritize requests
- get them to the right agent
- give development teams the information they need to investigate and fix bugs quickly

We call these customizable web forms *request types*. To start, find the most common and urgent requests that users have sent your way, then make sure there's a corresponding request type for each of these.

To view or edit your request forms:

1. In your service project, select **Project settings** () > **Request types**. The forms there display in your web portal.

The customer service template comes with the following request types:

- Technical support
- Licensing and billing questions
- Product trial questions
- Other questions
- Report a bug
- Suggest a new feature
- Suggest improvement

#### Read more about request types.

#### Fill a knowledge base so customers can help themselves

A knowledge base stores how-tos, FAQs, and other short articles. Customers can use these to solve problems without contacting support. And, agents can use these to share knowledge and solve requests faster.

The easiest way to add a knowledge base to your service desk is to link your project to a Confluence knowledge base space. When you add a knowledge base to your service project, it benefits both your users and your agents:

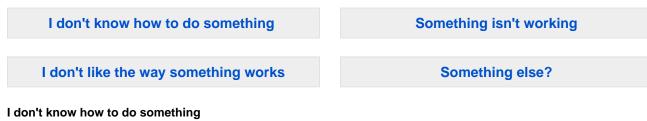
- 1. Customers search and view relevant articles when they search the customer portal. They may find the answers they need without ever raising a request.
- 2. Agents find relevant articles when they work on issues. This saves time finding and writing common answers or onboarding new team members.

Learn more atSet up a knowledge base for self-service.

## **Getting help with Jira Service Management**

### How can we help you?

We have a number of help resources available. You can get your problem resolved faster by using the appropriate resource.



- 1. Search theAtlassian Community.
- 2. Raise asupport request\*.

#### Something isn't working

- 1. Check the 'Jira Service Management' (previously Jira Service Desk) knowledge base athttps://conflue nce.atlassian.com/display/JiraKB.
- 2. Search theAtlassian Community.
- 3. Raise asupport request\*.

If you've identified a bug but don't need further assistance, raise abug report(https://Jira.atlassian.com).

#### I don't like the way something works

• Raise asuggestion(https://Jira.atlassian.com).

#### Something else?

• If you need help with something else, raise asupport request\*.

\* Tip: If you are the **Jira system administrator**, you have a number of additional support tools available. See Raising support requests as an administratorfor details.

#### About our help resources

#### **Atlassian Support**

Our support team handles support requests that are raised in oursupport system. You need to log in using yourAtlassian accountbefore you can raise support requests.

For information on our general support policies, including support availability, SLAs, bugfixes, and more, see Atlassian Support Offerings. Note, you'll find anything security-related atSecurity@ Atlassian.

#### 🕑 Tip:

If you are a Jira system administrator, you have a number of additional support tools available. These include the ability to raise a support request from within your Jira applications, create zip files of key Jira application information, and more. For details, see theAdministering Jira Applicationsdocu mentation.

#### Atlassian Community

Atlassian Community is our official application forum. Atlassian staff and Atlassian users contribute questions and answers to this site.

You may be able to find an answer immediately on the Atlassian Community, instead of having to raise a support request. This is also your best avenue for help if:

- you are using an unsupported instance or an unsupported platform,
- you are trying to perform an unsupported operation, or
- you are developing an app for Jira Service Management.

You can also have a look at themost popular Jira Service Management answersand the most popular Jira answers.

#### Jira Service Management knowledge base

If there are known issues with a version after it has been released, the problems will be documented as articles in ourknowledge base.

#### Atlassian issue tracker

Our officialissue trackerrecords our backlog of bugs, suggestions, and other changes. This is open for the public to see. If you log in with your Atlassian account, you will be able to create issues, comment on issues, vote on issues, watch issues, and more.

#### 🕑 Tip:

Before you create an issue, search the existing issues to see if a similar issue has already been created.

# Automate your project

 Automation is now part of Jira Service Management Data Center. To start using it in your projects, upgrade to Jira Service Management Data Center 5.0 or later. Can't upgrade yet? Download the equivalent Marketplace app free of charge.

Automation lets you set up rules to automate repetitive tasks around Jira, such as closing stale issues, autoassigning issues to the right people, or sending notifications to your teammates.

#### Create a rule

Each rule is made up of atriggerthat kicks off a rule, conditions that refine the rule, and actions which execute it.

To create a rule:

- 1. In your project, go to Project settings.
- 2. Select Automation.
- 3. Select Create rule. Youll then add triggers, conditions, and actions.

Read more about the rule components below.

Automation	ENABLED		
When a story is added to the sprint → then send email ⊙ Rule details Actor: Automation for Jira	Name •	S added to the current sprint $\rightarrow$ then send email	
Audit log	This is a good ru	le for project managers and scrum masters who on any new work that gets added to the sprint.	want to
1 When: Value changes for Sprint	r Scope Single project		
2 If: Issue matches JQL sprint in opensprints()	Projects *	Scrum (SLS)	~
3 Then: Send email jan@example.com issue ((issue.key)) was add current sprint	you need this notify on error	w other rule actions to trigger this rule. Only ena rule to execute in response to another rule. er once when rule starts failing after success	ble this if
	Owner*		
<ul> <li>Add component</li> </ul>	Steve Ruler		~

#### 1. Triggers

Every rule starts with a trigger. You can choose from many triggers including issue transitioned, scheduled trigger, or issue created. If you wish, you can customize your trigger before moving on to your next component and completing your rule. Learn more about triggers

#### 2. Conditions

Conditions allow you to narrow the scope of the rule. For example, only escalate an issue if it's high priority. Rules don't have to have conditions, but if you want to include them, they can be placed anywhere in the rule chain. If one condition fails, the rule will stop running. Learn more about conditions

#### 3. Actions

Actions run once a rule is triggered and all conditions are met. You can perform many tasks, such as editing issues, sending notifications, creating sub-tasks, or adding audit messages. Learn more about actions

#### Use automation at scale

To give you an overview of what you can achieve with automation, weve prepared three examples of rules you can use to make the work go smoother.

#### Keep response times on track

This rule reduces the number of times you need to go over your SLAs by notifying the assignee that they need to take an action when an SLA threshold is about to breached. This way you get more time to focus on other things while your customers receive a response to their requests on time.

Notify assignee when SLA is ENABLED about to breach Rule details							
Rule details	Notify assignee when SLA is about to breach	Notify assignee when SLA is about to breach					
Audit log	Description						
When: SLA threshold breached Time to first response will breach in the next 30 minutes	Scope						
Then: Add comment to issue	Allow rule trigger Check to allow other rule actions to trigger this rule. Only enable thi need this rule to execute in response to another rule.	is if you					
Hey [~{{assignee}}], This ticket will	Notify on error						
breach its SLA in 30 minutes. You should action or reassign it as soon as possible.	E-mail rule owner once when rule starts failing after success	~					
	Owner*						
Add component	Maria Sobińska	~					
	The owner will receive emails when the rule fails.						
	Created						
	2 months ago						
	Updated						
	a few seconds ago						
	Actor*						
	A Maria Sobińska	~					
	Actions defined in this rule will be performed by the user selected as the actor.						
	Cancel	Save					

The rule consists of:

- A trigger: An SLA threshold will be breached in the next 30 minutes.
- An action: Add a comment to the issue notifying the assignee about the breach.

#### Balance the workload

Ensure that your team shares the workload so you can respond as quickly and effectively as possible. Whenever an issue is created, this rule searches for a member of your team with the least amount of open tickets.

<ul> <li>Rule details</li> <li>Audit log</li> <li>Audit log</li> <li>When: Issue created Rule is run when an issue is created.</li> <li>When: Issue created Rule is run when an issue is created.</li> <li>Then: Assign the issue to Member of user list using balanced workload assignment</li> <li>Add component</li> <li>Add component</li> <li>Canard Tue owner once when rule actions to tri meed this rule to execute in response Notity on error</li> <li>Canard Tue owner once when rule starts to Owner*</li> <li>Maria Sobińska</li> <li>The owner With control and a few seconds ago Actor*</li> <li>Maria Sobińska</li> </ul>		
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<ul> <li>Scope</li> <li>Then: Assign the issue to Member of user list using balanced workload assignment</li> <li>Add component</li> <li>Add component</li> <li>E-mail rule owner once when rule starts for Owner*</li> <li>Maria Sobińska</li> <li>The owner will receive emails when the rule fails. Created a few seconds ago Actor*</li> <li>Maria Sobińska</li> </ul>		
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Actions defined in this rule will be performed by th	ser selected as the actor.	
	Cancel	Save

The rule consists of:

- A trigger: An issue is created.
- An action: Assign the issue to a team member using the balanced workload assignment method.

#### Improve customer communication

Remind your customer to respond. Close the issue when they dont. Then, reopen it when they do. Simplify your communication with customers with these three rules.

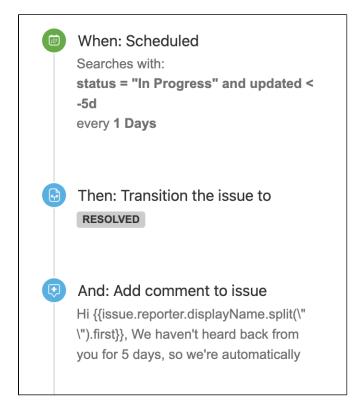
#### Remind your customer to respond

1	Rule details
	When: Scheduled Searches with: status = "Waiting for customer" and updated < -2d every 1 Days
	Then: Add comment to issue Hi {{reporter.displayName}}, [something about needing the customer to respond]

The rule consists of:

- A trigger: A scheduled daily search for issues with the Waiting for customer status that havent been updated in 2 days.
- An action: Add a comment notifying the reporter they need to remind the customer to respond.

Resolve an issue due to inactivity



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The rule consists of:

- A trigger: A scheduled daily search for issues with the In progress status that havent been updated in 5 days.
- Actions: Change the status to Resolved. Add a comment notifying the reporter the issue is being automatically closed due to inactivity.

Reopen an issue when theres a new response

	When: Issue commented Rule is run when a comment is added to an issue.
2	If: Initiator is Issue reporter
0	And: Issue matches JQL statusCategory = done
	Then: Transition the issue to

The rule consists of:

- A trigger: A new comment is added to the issue.
- Conditions: The comment was added by the issue reported. The issue is closed.
- Actions: Change the status to In progress.

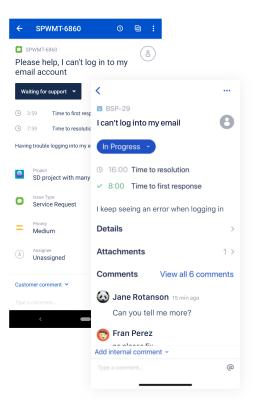
Get started with Jira automation

To get started, see Jira automation.

# Jira Data Center and Server mobile app

(i) Jira Service Management has successfully passed the Beta stage and is now officially supported in the mobile app. To get this version, you'll need to upgrade to Jira Service Management 4.15 or later. If you can't upgrade yet, you can continue using Beta.

A native app for Jira Service Management Data Center and Server is here!



#### About the app

Heres what youll get, and what you can do in the app.

#### Available right now

- Viewing Jira Service Management projects and requests
- Commenting internally and externally
- Notifications about request updates
- Working on requests (creating, editing, linking, reassigning, responding to customers, etc.)
- · Viewing SLAs and planning which tasks need to be resolved first
- Jira Service Management specific fields (Organization, Request type, Request participant), view-only

#### Still working on

- Request support (Approvals, attachments)
- Allowing editing of Jira Service Management specific fields in the app
- Agent queues

#### Requirements

#### **Jira Service Management**

Youll need to install the latest version of the Mobile Plugin for Jira from Atlassian Marketplace, or upgrade to Jira Service Management 4.15 or later, which includes the plugin out of the box.

#### **Device requirements**

To use the app, your users will need a device with either:

- Android 5.1 (Lollipop) or later, or
- iOS 14 or later (iPhone, iPad, or iPod Touch)

#### Downloading the app

If you already used our Jira Data Center and Server app for Jira Software or Jira Core, youre good to go, its the same app. If not, you can download it for AndroidoriOS.

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#### Considerations for administrators

Here are some things to consider when determining whether your users will be able to use the app.

#### VPN and firewalls

If your Jira instance is not accessible on the public internet, users will need to connect their device to your network or virtual private network (VPN) in order to use the app.

We recommend providing your users with step-by-step instructions on how to connect to your VPN when you let them know the mobile app is available, as this is something Atlassian Support will not be able to help them with.

#### SSL

The app accepts both HTTP and HTTPS connections.

If your Jira instance is configured to use SSL, you will not be able to log in on the app if:

- your certificate is self signed
- the Certificate Authority (CA) is unknown, or is not one that Android / iOS trusts by default (for example it might be a new CA that is not yet trusted, or a private CA)
- your certificate is missing an intermediate CA, affecting the certificate chain
- your certificate doesn't meet Apple's Requirements for trusted certificates in iOS 13 (affects people using the app on iOS devices).

See ourKnowledge base articlefor information on how to resolve this.

#### Storage and encryption

The iOS and Android apps cache some content (issues, projects, boards) locally on the device. This helps keep the app responsive when navigating around projects and issues. We don't use any application-level encryption when storing cached data, but the device's internal storage may be encrypted by the operating system.

When a user logs out, all cached data is deleted.

We don't store passwords in the app. Instead we use session cookies, which are encrypted by default.

#### Login and authentication

The app supports all common Jira user management configurations, including external user directories and SAML single sign-on (NTLM method isn't supported, only basic). Users will need to sign in to use the app, even if your site allows anonymous access.

The app uses anRFC-compliant user-agent header for making the requests during login. This allows usto effectively identify the app and apply further processing based on the users hardware and software.

Given the wide variety of supported configurations we decided to adopt the most versatile format. For both iOS and Android we compose the User-Agent header value by concatenating the standard WebView User-Agent and unique app identifier.

#### iOS User-Agent

Format	
Mozilla/5.0 ( <system-information>) <platfor AtlassianMobileApp</platfor </system-information>	rm> ( <platform-details>) Safari/<technical-version></technical-version></platform-details>
Example	
Mozilla/5.0 (iPhone; CPU iPhone OS 14_7 lik Safari/604.1 AtlassianMobileApp	e Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko)

#### Android User-Agent

# Format Mozilla/5.0 (<system-information>) <platform> (<platform-details>) AtlassianMobileApp Example

```
Mozilla/5.0 (Linux; Android 9; Mi Al Build/PKQ1.180917.001) AppleWebKit/537.36 (KHTML, like Gecko)
AtlassianMobileApp
```

These headers are used in iOS app version 1.27.0 and Android app version 0.21.6 and later.

#### Mobile Device Management (MDM)

You can distribute the Jira Server app to people in your organisation using your MDM solution. For more info on how to do this, see Mobile Device Management.

#### Third party add-ons and visual customizations

The mobile app provides a simple, lightweight way for users to view, create, edit and collaborate on issues. Complex interactions, including those provided by add-ons, will not be available in the app.

Any look and feel customizations youve made to your Jira instance will not be reflected in the app.

The Jira Data Center and Server mobile app can push notifications directly to users' devices. Users choose whether they'd like to receive push notifications from the app, and can opt out at any time. This feature uses a cloud-based notifications service developed and maintained by Atlassian and hosted on our AWS infrastructure. No user or message content is sent to the service, only notification IDs, and we don't store any data.

- If you need to avoid using any cloud-based services you can choose to disable push notifications entirely. Head toAdministration (<sup>1</sup>)>System > Jira mobile app.
- If you're using restrictive firewall or proxy server settings, you'll need to allow (whitelist) <a href="https://mobile-server-push-notification.atlassian.com">https://mobile-server-push-notification.atlassian.com</a> to ensure push notifications work as expected.

For sites that are not accessible on the public internet (for example users need to be connected via VPN to use the app) we adapt the push notification message as follows:

- If the user is connected to your network or VPN, we'll show the full notification, for example "Sara Leung shared 'End of year party' with you"
- If the user is not currently connected to your network or VPN, we'll show a shorter notification, for example "1 new notification".

For more info about push notifications, see Push notifications.

#### Related pages and known issues

If youre having problems with logging in or encountered some other issues, head on to our knowledge base articles that will tell you what to do:

Jira Data Center and Server mobile apps

# Accessibility

We want every team around the globe to be able to use Jira with the least amount of trouble, and the accessibility settings bring us closer towards this goal. Whether your vision is impaired, you can't really tell colors apart, or just strongly believe that blue, azure, and sapphire are the same thingwe've got you covered.

#### More accessibility improvements!

Accessibility in Jira is not a one-time effortwe're constantly reviewing our VPAT report and fix accessibility issues in almost every Jira version. For more info, see Accessibility improvements in Jira.

#### Changing your accessibility settings

You can personalize your accessibility settings to make it easier to work with Jira. To change the settings, click your user avatar and select**Accessibility**. You can choose the following options:

#### Underlined links

This option underlines all hyperlinks around Jira to make them more visible.

	Jira accessibility.project / JIRJA11Y-1		
	Add underline links		
8	✔ Edit Q Add comment Assign More ♥ In Progress ♥ Admin ♥		< 🏠 Export 👻
	✓ Details	<ul> <li>People</li> </ul>	
2	Type: Task Resolution: Unresolved	Assignee:	👧 Captain Joe
	Priority:		Assign to me
<u>1</u>	Labels: accessibility design-ready-for-dev	Reporter:	😁 Master Engineer
<b></b>		Votes:	Vote for this issue
	Description		1 Stop watching this issue
	Links should always look like links, and nothing else should. Users might get frustrated if they try to click on textual phrases or graphics that look like links but are not. They will also be frustrated if they have to move their mouse all over the page trying to discover links that do not look like		
	links.	✓ Dates	
Ë	Source WebAIM	Created:	Yesterday 12:55 PM
0	WCAG 2.0 requirements for body text links that are not underlined by default:	Updated:	Just now
	<ul> <li>The link text must have a 3:1 contrast ratio from the surrounding non-link text.</li> <li>The link must present a "non-color designator" (typically the introduction of the underline) on both mouse hover and keyboard focus.</li> </ul>	<ul> <li>Development</li> </ul>	
	the mixing present a new cells designed. (yprawy are introduction of the underline) on boar mode horer and keyboard rocas.	2 commits	Latest 28/May/12 10:57 PM

#### Patterns on issue statuses

This options adds unique patterns to issue statuses to distinguish between them more easily.

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Configure A11Y board	k				Heack to boar	d Board 🗸
CONFIGURATION General Columns Swimlanes Quick Filters Card colours Card layout	Column management Columns can be added, remove Minimum and maximum constra Column Constraint None Constrain	d, reordered and renamed. Colur	column.	uses and can be	moved between	columns. Add column
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<b>II</b> 3	🖥 Jira Dashboards 🗸 Projects 🗸	Issues 🗸 Boards 🗸 Plans 🖌 Crea	te	Search Q 📌 😗 🗘 🕴
	A-TEAM board We'll rock that sprin Fixing all outstanding issues and go QUICK FILTERS: Only My Issues		⑦ 9 days remaining	Complete sprint Board 🗸
	то ро	IN PROGRESS	DONE	PARKED
	ROCK-8 Create research brief for testing the app	ROCK-13 Write a blogpost	ROCK-17 Configure Bitbucket and Bamboo	ROCK-19 Prepare additional test with focus group
ಜ್	✓ = 2	<b>✓</b> ~ 1	<b>= 5</b>	✓ ≈ 2
	ROCK-9 Database requirements	ROCK-14 Implement onboarding screen	ROCK-18 Configure deployment options	
	✓ ✓ 5	✓ < 2	•	
	ROCK-10 Configure backend infrastructure for automated testing	ROCK-15 Prepare design for Coffee basked		
	✓ ≈ 8	5		
	ROCK-11 Create banners for Facebook, Linkedin, and Twitter	ROCK-16 Design onboarding		
	✓ ^ 2	<b>•</b> ~		
	ROCK-12 Add map view for browsing coffee places			

#### Background in subtle buttons

This options adds a gray background to subtle buttons (normally displayed on hover) to make them more prominent.

	🔊 Jira	Dashboards 🐱	Projects 🗸	Issues 🛩	Boards 🗸	Plans 🛩	Create			Q s	iearch	<b>4</b> <sup>€</sup>	0	Ö	٥
»	Search Sa	ve as									< Share	🖞 Export 💊	< C	> Tools	s <b>~</b>
	project = "Tea	ims in Space"						⑦ Search	Basic			Colu	ımns 🗸		≣ ~

#### For app developers

If youre an app developer, you can make your app add new options to accessibility settings. For more info, see Accessibility for app developers.