

Exalate uses synchronization rules (Sync Rules) to handle outgoing and incoming messages. You can find Sync Rules as a separate tab when you select the connection to edit.

Note: For script connections, Exalate is using the Monaco editor with Groovy support.

Note: Starting with Exalate v. 8.5.1 we are running Groovy v. 4.

			Dark Mode	×
1 1 2 3 4 4 5 6 6 7 7 8 8 9 9 9 9 10 11 12 13 14 4 5 16	replica.key replica.assignee replica.reporter replica.summary replica.description replica.type replica.labels replica.attachments replica.attachments replica.status replica.customFields. replica.customFields. //Send a Custom Field	<pre>= issue.reporter = issue.summary = issue.description = issue.type = issue.labels = issue.attachments = issue.comments = issue.comments = issue.status "Customer" = issue.customFields."Customer" "Supported Browsers" = issue.customFields."Supported Browsers"</pre>		
~		received data can be interpreted on the source side. Check the documentation for more details.	Ø	0
1		ca.labels replica.summary	ALL AND AND ADDRESS AND ADDRES	



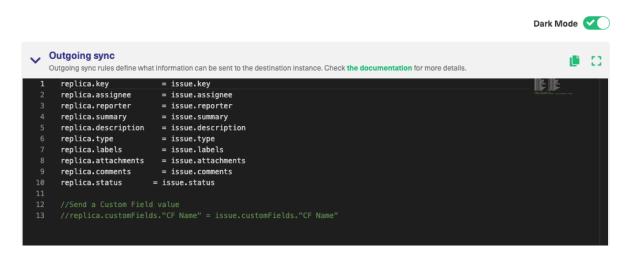
Editor Features

- Light Mode: Use to toggle to switch between Dark and Light mode
- **Copy**: Copy Incoming/Outgoing code blocks to the clipboard.
- **Expand**: Expands the code editor window for a better view if needed.
- Mini Code Map: Allows you to quickly navigate through the code, useful when dealing with longer code blocks.

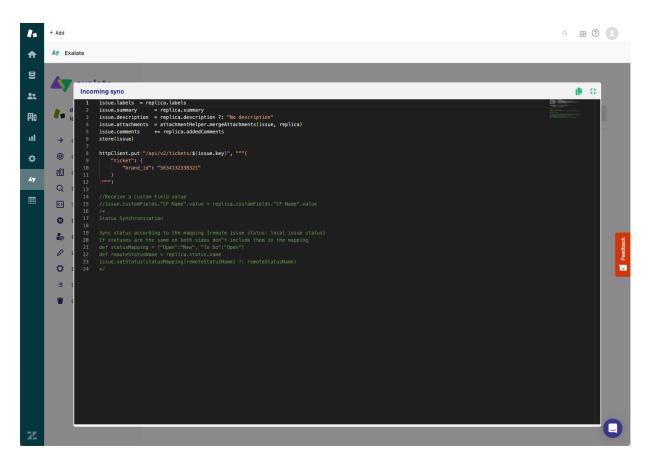




Dark Mode on:



Expanded mode on (Dark mode):



In the Sync processors, the Monaco editor library allows for auto-complete, syntax highlight and syntax errors highlight when writing sync rules.

~	Incoming sync	■ C1
	Incoming sync rules define how received data can be interpreted on the source side. Check the documentation for more de	etalls.
1	1 issue.labels = replica.labels	10 Mar Whites
2	2 issue.summary = replica.summary	ed the second
3	3 is	
4	4 is 📴 instanceof	
5	5 is 🖓 IllegalStateException replica)	
6	6 is 😚 InstantiationError	
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8	8 😚 IllegalThreadStateException	
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10	0	
11	1 😚 IllegalAccessError	
12	2 😚 IllegalAccessException	
13	3)" ☆ IncompatibleClassChangeError	
14	4 🕥 IndexOutOfBoundsException	
15	· · · · · · · · · · · · · · · · · · ·	
16	6 //issue.customFields."CF Name".value = replica.customFields."CF Name".value	
17		
18	8 Status Synchronization	
19		
20		
21	1 If statuses are the same on both sides don"t include them in the mapping	
22		
23	3 def remoteStatusName = replica.status.name	
24	a issue setStatus(statusManning[remoteStatusMame] ?: remoteStatusMame)	

How to create a Sync Rule

Sync rules are groovy-based scripts that can be used to implement filtering, mapping, and transformation. These are essential operations in any synchronization.

Groovy is a dynamic language for the Java platform. Check out the following links to get more details about Groovy and how to develop in this language:

- http://www.groovy-lang.org/
- http://www.groovy-lang.org/learn.html
- http://www.groovy-lang.org/documentation.html

Groovy learning courses that we can recommend:

- https://www.pluralsight.com/courses/groovy-getting-started
- https://www.pluralsight.com/courses/groovy-fundamentals

Sync rule types

There are 2 different types of Sync Rules, each with its own purpose.

- Outgoing sync
- Incoming sync

Note: For more information please see the synchronization process explanation.

Outgoing sync

This rule defines what information is sent to the destination side.

Exalate runs the outgoing sync processor when you start the synchronization or update the local issue which is under sync.

You can assign issue fields to a replica on the outgoing sync. For more information on this, see issue fields available for synchronization.

	Variable	Explanation
Input	issue	local issue data you need to synchronize
Output	replica	copy of the issue data which is sent to the destination instance

Simple examples of Outgoing sync rules

1 replica.summary = issue.summary // send summary 2 replica.description = issue.description // send description 3 replica.comments = issue.comments // send comments 4 replica.attachments = issue.attachments // send attachments

Condition example in the Outgoing Sync rules

Don't send anything when priority is trivial

```
1 // If the issue priority is "Trivial" don't send any data. In other cases send the summary, description, comments and
attachments
2
3 if (issue.priority.name == "Trivial") {
4 return
5 }
6 replica.summary = issue.summary
7 replica.description = issue.description
8 replica.comments = issue.comments
9 replica.attachments = issue.attachments
```

Incoming sync

When you receive data from the other side you need to apply this data on your instance. You can define how to handle the received information on your instance with the help of the incoming sync rules.

Exalate runs the incoming sync every time there's new data received from the remote side.

When you receive the synchronization data from the remote side for the first time, Exalate creates the issue locally in your instance.

Starting from this moment the issue is considered *under synchronization(under sync)*. From that moment every issue update triggers the update of the synced issue on the other side.

	Variable	Explanation
Input	replica	Information received from the source instance
Output	issue	Issue object which is used to create/update the local issue
	previous	Previous information received from the source instance

Important: When you leave the incoming sync empty, nothing is synchronized. Please see the Unidirectional synchronization for more details.

Simple Incoming sync example

```
1 if(firstSync){
```

- 2 // If it's the first sync for an issue and local copy of the issue does not exist yet
- 3 // Set project key from source issue, if not found set a default
- 4 issue.projectKey = nodeHelper.getProject(replica.project?.key)?.key ?: "TEST"
- 5 // Set type name from source issue, if not found set a default
- 6 issue.typeName = nodeHelper.getIssueType(replica.type?.name, issue.projectKey)?.name 7. 7 ?: "Task"}
- 8 issue.summary = replica.summary
- 9 issue.description = replica.description
- 10 issue.comments = commentHelper.mergeComments(issue, replica)
- 11 issue.attachments = attachmentHelper.mergeAttachments(issue, replica)

Note: Incoming requests are distinguished based on the information stored in a replica. So if

you want to have different sync rules for the first synchronization and then others for synced issue updates, you should use conditional statements.

- 1 if (firstSync) {
- 2 return // don't create any issues, only sync changes to the issue which are already under sy3 nc}
- 4 issue.summary = replica.summary
- 5 issue.description = replica.description
- 6 issue.labels = replica.labels
- 7 issue.comments = commentHelper.mergeComments(issue, replica)
- 8 issue.comments = attachmentHelper.mergeAttachments(issue, replica)

More advanced configuration

You can set your own values for the local issue based on the received data from the other side. For example, if the synced issue status changes to Done on the remote side \rightarrow set the local issue status to Resolved.

To configure advanced conditions for your synchronization use script helper methods.

Check the example below:

```
1 // Create a request in the support project "SD", but if it's a critical issue in the customer's WEB project, assign it to B
ob Price
2
3 issue.project = nodeHelper.getProject("SD")
4
5 if (replica.priority.name = "Critical" && replica.project.key = "WEB") {
6 issue.assignee = nodeHelper.getUser("bprice") // assign to Bob
7 issue.priority = nodeHelper.getPriority("Blocker")
8 } else {
9 issue.priority = nodeHelper.getPriority("Major")
10 }
11
12 issue.summary = replica.summary
13issue.projectKey = "SD"issue.typeName = "Request"
```

Default configuration

By default, Exalate configures some basic scripts in the Sync Rules for your convenience. Below is the default configuration of the Outgoing and Incoming sync.

It helps to synchronize basic issue data: summary, description, comments, resolution, status, attachments and project.

Default Outgoing sync

1 replica.key = issue.key
2 replica.type = issue.type
3 replica.assignee = issue.assignee
4 replica.reporter = issue.reporter
5 replica.summary = issue.summary
6 replica.description = issue.description
7 replica.labels = issue.labels
8 replica.comments = issue.comments
9 replica.resolution = issue.resolution
10 replica.status = issue.status
11 replica.parentId = issue.parentId
12 replica.priority = issue.priority
13 replica.attachments = issue.attachme
14 replica.project = issue.project

Default Incoming sync

1 if(firstSync){

- 2 // If it's the first sync for an issue (local issue does not exist yet)
- 3 // Set project key from source issue, if not found set a default
- 4 issue.projectKey = nodeHelper.getProject(replica.project?.key)?.key ?: "TEST"
- 5 // Set type name from source issue, if not found set a default
- 6 issue.typeName = nodeHelper.getIssueType(replica.type?.name, issue.projectKey)?.name ?: "T ask"}
- 7 issue.summary = replica.summary
- 8 issue.description = replica.description
- 9 issue.comments = commentHelper.mergeComments(issue, replica)
- 10 issue.attachments = attachmentHelper.mergeAttachments(issue, replica)

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