# Error Handling

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## **Errors in Exalate**

Exalate has a built-in error recovery mechanism that allows you to fix problems and resume synchronization from the moment it fails.

Synchronization can fail due to a variety of causes, such as:

- Network connectivity
- Authentication issues
- Configuration failures
- Compatibility problems
- Sync Rules/Script errors

When an error arises in Exalate, synchronization is paused to allow an administrator to rectify the problem and resume operations.

Depending on the type of error, the synchronization is paused at one of these error levels:

- Entity level
- Connection level
- Exalate Application level

For instance, when Exalate detects a script error, the connection is paused. All other synchronizations, which are not related to that particular Connection, can proceed as usual.

If there is an error such as a network connectivity problem, all Connections are paused until the connectivity problem is fixed. Exalate resolves network errors automatically. This means that the synchronization will be recovered automatically once the network connectivity problem is resolved.

If the Exalate App has a problem, the whole synchronization will be stopped.

## **Errors** Page

In the Exalate admin menu, you can access the **Errors** tab to get an overview of all the errors.

EXALATE
Getting Started
General Settings
Connections
Erroro
EITOIS
Bulk Connect
Bulk Connect Triggers
Bulk Connect Triggers Support Tools

Here you will see a list of the existing errors. An error overview includes an error summary description, its impact level, and the time when the error occurred.

### You can also get to the **Error Details** page from here:

Error		Impact	Occurred At	Action
Is P	ssue Tracker Error Rest exception while scheduling sync events for ssues for connection "hp. to. iira' Please check if	All Sync is blocked	2020-03-22 14:14:34	
yc	ou have domain `DEFAULT` and project `			Details Resolve and Retry

### **Error Details**

Error details include the following information:

- Impact: The title (Issue, Relation, Warning, Node, Trigger) indicates the type of error occurring in the backend. This may impact either a certain issue or a connection synchronization. It may also affect the whole instance.
- **Connection**: The link to the Connection in which the error has occurred.
- Error Type: The type of error.
- Error Detail Message: Provides a detailed description of what's wrong.
- Error Stack Trace: Helps to find the root cause of an error.



To fix the script, you can access the Connection from the **Error Details** page.



At the very bottom, you can also check the local and remote replica values. They are displayed as a prettified *JSON* file.

Error Detail Message:
Processor exception detected during processing of the remote 'TEST-961' using connection 'cloud_to_8' javas.script.ScriptException: java.lang.RuntimeException: Create processor error !
Error Stack Trace:
The manufact and increases Processor Practices Processor Received in Processor Received Internet Interne
Copy to clipboard Show local replica Show remote replica

Below you can see how the replica values look.

1		
' ve	sion": {	
	ajor": 1.	
	inor": 15.	
	atch": 0	
- <b>)</b> . <sup>1</sup>		
"hub	Issue": {	
	ey": "TEST-961",	
" 8	ummary": "test error level #2",	
	roject": {	
	"id": 10000,	
	"key": "TEST",	
	"name": "TEST"	
3.		
	abels": [],	
"3	eporter": {	
	"key": "557058:ada77a72-56a9-4a19-9c23-7d66e4813883",	
	"active": true,	
	"email": "serhii@idalko.com",	
	"displayName": "Serhii Syrotskyi",	
	"username": "admin"	
- F		
	ttachments": [],	
"c	omments": [],	
":	tatus": {	
	"id": "10000",	
	"name": "To Do",	
	"description": ""	
"d	ssueType": {	
	"id": "10104",	
	"name": "Bug"	
- F		
"I	riority": {	
	"id": "3",	
	"name": "Medium"	
	ntityProperties": {},	
"c	ustomKeys": {}	
}		

### **Resolve and Retry**

Once the error is fixed, you can check to make sure the fix has worked and proceed with the synchronization.

Use the **Resolve and Retry** button accessible from the error list to do that.

Erro	Errors						
Error		Impact	Occurred At	Action			
Ŷ	TransportException Exception while posting blob response from sync request `12` for sync event: 402 to `https://evitlana-red evalate net/`	Sync for connection cloud-red is blocked	2018-04-11 09:44:11				
Droi	1 Next			Details			
Prev	next			Resolve and Retry			

If the error persists, generate a support.zip file and contact support.

### Decrease Error Impact

Exalate allows you to decrease the error impact level.

If the error does not affect all the entities under sync, you may change the error impact to the entity level. The synchronization will be blocked only for this specific entity.

Errors				Resolve all
Error		Impact	Occurred At	Action
Ÿ	Processor Error Processor exception detected during change issue processing of 'SD-16' using connection 'serhii_jira8_to_svitlana_blue_jira7' javax.script.ScriptException: groovy.lang.MissingMethodException: No signature of method: com.exalate.node.hubobject.v1_3.NodeHelper.getUserByUsername() is	Sync for connection serhii_jira8_to_svitlana_blue_jira7 is blocked	2019-02-25 16:08:11.181	
	applicable for argument types: (com.exalate.basic.domain.hubbbject.v1.BasicHubCustomField) values: [com.exalate.basic.domain.hubbbject.v1.BasicHubCustomField@e2560373] Possible solutions: getUseRytyberanne(java.ang. S			Details Resolve and Retry
				Decrease error impa

The example below shows how the impact column looks on the error list screen:

rrors	3			Resolve all
Error		Impact	Occurred At	Action
•	Processor Error Processor exception detected during processing of "BLUE-16" using connection 'Demo JIRA Connection BLUE to RED' javax.script.ScriptException: groovy.lang MissingPropertyException: No such property: descriptionbb for class: com.scalate.basic.domain.hubobject.vt.BasicHublissue Possible solutions: description	Sync for issue BLUE-16 is blocked	2019-02-25 14:26:33.028	
Ÿ	Processor Error Processor exception detected during processing of "BLUE-72" using connection 'Demo JIRA Connection BLUE to RED' javax.script.ScriptException: groony.lang MisingProperty:Sception: to such property: descriptionbb for class: com.exalate.basic.domain.hubobject.vt.BasicHubissue Possible solutions: description	Sync for connection Demo JIRA Connection BLUE to RED is blocked	2019-02-25 14:36:26.712	

### Ignore Related Sync

Exalate allows you to ignore errors related to the sync.

If the error is ignored, changes related to the sync will not be applied. If it is the first sync, new entities will not be created.

Errors	; (1)			2	Resolve all
Connecti All	on Local Issue key	Remote Issue key		Filter	Clear Filter
Error		Impact	Occurred At		Action
0	Incoming script error Cannot set property 'value' on null object	Sync for connection Local A_to_Local B is blocked	ıl Aug 18, 2023 21:39:29		•••
	Error line: 30	< 1 >			Details Resolve and Retry
					Decrease Error Impact

While the **Ignore Related Sync** operation can be helpful for dealing with temporary errors, it's essential to exercise caution. Not all errors should be ignored. Some errors might be related to critical data discrepancies or configuration problems that need immediate attention.

## How to Set up Error Notifications?

In Exalate, you can notify administrators in case an error is raised.

When an error arises, a notification will be sent out to either the **exalate-administrators** group (if configured) or to the **Jira-administrators** group.

There are 3 types of notifications:

- The in-app notification brings up a pop-up window.
- An email notification containing the error message.
- A sync status highlighting that something went wrong.

**Note**: Exalate can send error notifications only if SMTP is configured on your server.

**Note**: Exalate sends error notifications in Jira on-premise and Jira Cloud once an hour.

### Notifications on Jira on-premise

#### **Types of Notifications**

#### 1. Email Notifications

Administrator(s) will receive notifications each time there is an error in the synchronization process.

You can choose which users should be informed of an error. When an error is raised, a notification will be sent out to either the **exalate-administrators** user group (if configured) or to the **jira-administrators** group.

You can configure a new group of **exalate-administrators** with the users who should be notified in case of an error.

For more information, check out How to configure error notifications in Jira on-premise.

2. **In-JIRA Notifications** will result in a pop-up notification, which would be shown to admins until the error is resolved or the notification is closed.

Parent / PAR-28 Let's discuss stuff      Edit      Comment Assign More - Sta	Ø	Exalate blocking error X Exalate plugin is blocked from performing synchronization because of some blocking error.	
Detais Type: Type: I Thatp Priority: R Major Labels: None Mood: Happy Description	Status: OICE (View Workflow) Resolution: Unresolved	People Assignee: Reporter: Votes: Watchers:	Kevn Spacey Assign to me admin Slop watching this issue
Click to add description Attachments	C Drop files to attach, or browse.	Dates Created: Updated: HipChat discussions	3 minutes ago 3 minutes ago
Activity           All         Comments         Work Log         Hatory         Activity           There are no comments yet on this issue.         Comments         Comments         Comments			this issue? Connect to HipChat.

**Configuring Notifications on Jira** 

Navigate to **Jira > Admin > Add-ons > Exalate > General Settings** and enable desired notification type.

Applications Projects Issues	Add-ons User management System
ATLASSIAN MARKETPLACE	
Find new add-ons	General Settings
Manage add-ons	
EXALATE	Proxy User
Getting Started	exalate
General Settings	
Connections	Email Notifications
Errors	
Bulk Connect	In-JIRA Notifications
Triggers	
Support Tools	
Sync Queue	Authentication required
BEHAVIOURS	
Pohoviouro	Show Exalate and Connect actions
Denaviours	
SCRIPT RUNNER	
Script Console	Show Unexalate action
Built-in Scripts	
Script Fields	
Script Listeners	Display URL
Script Fragments	
Script JQL Functions	Configure
server and a server	

### Notifications on Other Platforms

Types of notifications

#### 1. Email Notifications

Administrator(s) will receive notifications each time there is an error in the synchronization process. You can add users who should be informed of an error.

When an error is raised, a notification will be sent out to the users, specified in the Exalate admin menu under the **Exalate Notifications** tab.

Exalate Notifications	Create
There are no users defined to receive Exalate error notifications.	
Creste	

 In-App Notifications will result in a pop-up notification, which would be shown to admins until the error is resolved or the notification is closed.

Below you can see the pop-up notification.

7	Jira	Connections •	Initiate connection	Accept invitation
	← Add-ons	Connection	Status	Action
Ŧ	ATLASSIMM MARRETPUCE Find maye add-ons EXULATE Central Statted Connections Administrators Errors Byro: Couve Buik Connect issues Triggers	Vev     1     Next   Documentation Report a bug	0	
= 2	Subscription Support Tools	Sync for connection cloud-red is blocked X     TransportCognition     Suscipton     Suscipton     reduction     reduction     reduction     reduction     reduction     reduction     reduction     reduction     reduction		

Configuring Notifications on Other Platforms

In-app notifications are displayed by default.

**Email notifications** could be configured in the Exalate admin menu. Navigate to the **Exalate admin menu> Exalate Notifications** and add an administrator to receive email notifications.

æ	github.com	Exalate Notifications	Create
	→ Getting Started		
	General Settings	Name and email	Action
	Connections	Exalate admin - John john_doe@idalko.com	
	Q Entity Sync status		
	O Triggers		
	Errors	Documentation Support Report a bug	
	Exalate Notifications	Powered by Exalate v. 5.0.9 (Core v. 5.0.50)	
	🖉 License Details		
	Dulk Connect		
	IE Sync Queue		
	Clean-up Tools		

## **Error Debugging**

Sometimes you need to have a closer look at synchronization scripts to find out what's wrong.

There are two ways to get feedback from the Exalate App:

- Exalate logging: it doesn't block the synchronization and requires the processor changes to run again. We discuss this in the next section.
- Debugging error from the scripts blocks the entity synchronization and requires *Resolve* and retry to run again.

### Debugging Errors from the Scripts

To get more details about values passed in a replica you can use **debug.error** method.

#### debug.error method

This method helps to raise an IssueTrackerException error with the value of the field which is not syncing.

It allows you to see the content of the replica and the issue (if applicable). This helps to get a better understanding of what stage the problem has occurred.

debug.error("String message")

For example, when you synchronize a custom field, but the issue on the receiving side is not updated and you don't see any error.

The script below shows how to throw an error with the custom field value stored in a replica.

#### **Receiving side - Incoming sync**

### How to Get Only Debug Logging for the Scripts?

If you want to debug your scripts, then capturing all **com.exalate** logging is too much as it also captures all transport protocol details.

You can limit the logging to different levels:

- for only script logging use com.exalate.script
- for information on how scripts run use com.exalate.processor

#### For Exalate 4.2 and lower

- for scripts and information on how they run use com.exalate.processor
- for Outgoing sync(data filter) scripts

use com.exalate.processor.jira.JiraCreateReplicaProcessor

for Incoming sync for new issues(create processor) scripts

use com.exalate.processor.jira.JiraCreateIssueProcessor

• for Incoming sync for existing(change processor) scripts use

```
com.exalate.processor.jira.JiraChangeIssueProcessor
```

You can test how logging works by adding the code, provided below. It will add the 'Hello world' text to the log file.

```
//add a 'Hello world' to the logging
log.info("Hello world ...")
```

You can also enable debug (temporary and permanent) logging in Jira on-premise.

## **Error Logging**

You can enable logging for the Exalate App. For example in Jira on-premise, the log file is stored in <JIRA-HOME>/log directory.

It doesn't block the synchronization and requires the processor changes to run again.

**Note**: With the updated 2.17.2 version of Log4j, there were some changes to the way logs are generated. Prior to this version, the Exalate log file was generated as **exalate.log**. With the new version, Exalate logs are now generated by default in the **atlassian-jira.log** file, instead of the previous location as a separate exalate.log. However, if needed you can still generate a separate file as before by using your Jira advanced configuration settings.

## **Troubleshooting the Errors**

You have an error and you want to find the root cause of that error. We recommend that you follow some basic troubleshooting steps:

Note: Check if the error you're facing is already described in the errors section.

1. Check the **Error Details** to see the stack trace behind the error.

The **Error Details** page helps to get more details about the cause of an error. 2. Check if the error impact can be decreased.

Exalate allows you to **decrease the error impact** in case the error affects only a specific issue. This will unblock the rest of the synchronization. So that you can troubleshoot this specific issue.

Check how to change the error impact for more details. **3. Resolve and Retry** to resume the synchronization from where it was paused.

Once the error is fixed, use the **Resolve and Retry** button to proceed with the synchronization.

## Why isn't a particular Field Syncing?

You don't have an error anymore but you realize that the field you want to send over to the destination instance isn't syncing.

This can be because:

- The field is not being sent.
- The field is being sent but is not applied properly on the receiving side.

### Solution

To check if the field is being sent:

- Make sure it is included in the Outgoing sync of the sending instance
- If you are using Jira Server, check for its presence on the remote issue tab.
- If you have an error, check the remote replica (available on the Error details)

To check if the field is properly applied on the receiving side:

- Make sure you are mapping it in the Incoming sync.
- For fields where there is a set of available options (resolution, priority, list custom fields, user fields) make sure you have the proper option on the receiving instance.
- You can throw errors for not unexpected cases to validate the behavior in an easier way.

#### An example of the Resolution field

- 1. Check if the Sync Rules have been configured properly. You can find more details in our guide on how to synchronize resolution in Jira on-premise and Jira Cloud.
- If it didn't help, add the script below to the Incoming sync. This script helps to check whether the issue is caused by different Resolutions used on the remote side.
   It will raise an error if the Resolution is not found on your side.

if (replica.resolution == null || nodeHelper.getResolution(replica.resolution?.name) == null) {
 throw new com.exalate.api.exception.lssueTrackerException("Failed to find resolution: `\${replica.resolution?.name}
`".toString())

}

## Steps to Follow when Exalate Node is Unavailable

Whenever the Exalate node can't be accessed by a user there is a set of recommended steps to follow:

- Check out the Exalate node status at status.exalate.com
   Here you can see the current node status as well as Scheduled Maintenance.
- 2. Check out status.cloud.google.com

The Exalate status page doesn't always hold a reference to original incidents from Google cloud.

If Exalate service is down it's worthwhile to check Google's own status.

3. Contact our support team

If you can't find any information on the scheduled maintenance but still cannot access the Exalate node, please contact our support team for further troubleshooting.

You can submit a support request to our Service Desk directly. Or just send an e-mail to support@exalate.com. This will create an issue on our JIRA Service Desk allowing for further tracking.

Have more questions? Ask the community

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