

# How to Sync Attachments in Jira Cloud

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This article describes how to synchronize attachments.

With Exalate, you have full control over attachment synchronization. You can define the sync behavior for attachments in different ways. For example:

- filter what attachments to send by file type or size
- sync attachments from the public comments only

**Note:** The maximum attachment size that you can synchronize depends on a couple of factors:

- the attachment size limit on both instances (you can configure the max attachment size in Jira)
- instance HTTP/HTTPS connection timeouts

We've tested the synchronization of attachments with the size up to 1 GB, which worked without any issues, bigger attachments should not be a problem either.

## Source Side

When sending attachments, you need to remember, that not all the attachments have to be sent over. You can use the [groovy collection methods](#) to control the collection contents:

### Outgoing sync

- Send all the attachments

```
replica.attachments = issue.attachments
```

- Send only .pdf files

```
replica.attachments = issue.attachments.findAll { attachment -> attachment.filename.endsWith(".pdf") }
```

- Send only attachments mentioned in public comments and handle names with special characters

```
def isMentionedInPublicComments(attachment, publicComments) {  
    publicComments?.any {c ->  
        c.body.contains("[^" + attachment.filename + "]") ||  
        (c.body =~ (/!${java.util.regex.Pattern.quote(a.filename)}(\\|.*!|!).toString()/.find()  
    })  
}  
replica.attachments = issue.attachments.findAll{isMentionedInPublicComments(it, publicComments)}
```

# Destination Side

## Incoming sync

You can define how to create issue attachments, received from the other side. Check some examples below:

- Merge attachments using [attachmentHelper.mergeAttachments](#) . It's is the most common case, which is included in the default sync rules.

```
//add all new attachments as listed in the replica and remove all attachments from the issue which have been removed in the remote issue
issue.attachments = attachmentHelper.mergeAttachments(issue, replica)
```

- Create new attachments, received from the source side

```
issue.attachments.addAll(replica.addedAttachments)
// or issue.attachments += replica.addedAttachments
```

- Add all received attachments to the local issue and change the attachment name. You can manipulate attachments via [groovy collection methods](#) to apply any specific behavior.

```
issue.attachments.addAll(replica.addedAttachments)
issue.attachments = issue.attachments.collect {attachment ->
    attachment.filename = "node_A_" + attachment.filename
    // return an attachment
    attachment
}
```

- Gather statistics from the attachments

```
def numberOfAttachmentsPerTypes = issue.attachments.inject([]) { result, attachment ->
    def getFileExt = {
        filename -> def lastDotIdx = filename.lastIndexOf("."); (lastDotIdx > 0)? filename.substring(lastDotIdx) : null
    }
    def fileExt = getFileExt(attachment.filename)
    def numberOfAttachmentsPerType = result[fileExt]
    numberOfAttachmentsPerType = numberOfAttachmentsPerType ?: 0
    result[fileExt] = numberOfAttachmentsPerType + 1
    result
}
/*
for attachments:[
    [
        filename:"foo.pdf"
    ],
    [
        filename:"bar.txt"
    ],
    [
        filename:"baz.pdf"
    ],
    [
        filename:"hahaha"
    ]
]
numberOfAttachmentsPerTypes would be [".pdf" : 2, ".txt" : 1, null : 1]
```

- Make the issue attachments the same as the ones received from the remote instance

**Product**

[About Us](#)  This will remove all the attachments, which are not present on the remote issue replica. Use with caution.

[Release History](#) 

**Glossary** 

[API Reference](#)  issue.attachments = replica.attachments

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