

# How to Sync Defects and Test Cases in HP ALM/QC

Last Modified on 01/15/2026 5:07 pm EST

**Warning:** We are moving Exalate for HP QC/ALM into basic maintenance mode. This transition period will last until November 2024, after which support will be halted completely. For more information, please see <https://exalate.com/blog/end-of-support-hp/>.

This article shows how to synchronize defects and test cases in HP ALM/QC.

## Introduction

Exalate allows you to synchronize the following entities in HP ALM/QC:

- Defects
- Test case (Test Lab module)

You can add sync rules to every entity type separately.

**Note:** Check the reference of [supported fields and entities](#) that you can synchronize from HP ALM/QC instance.

## Configuration

To synchronize multiple entity types, you need to adapt the sync rules using **if** blocks. This helps Exalate distinguish sync rules for different entity types. Check the examples below:

### Source Side

#### Outgoing sync

To send **defects** and **testCases** use the code below:

```

if(entityType == 'defect') {
  replica.key      = defect.key
  replica.owner    = defect.owner
  replica.reporter  = defect.detectedBy
  replica.summary   = defect.summary
  replica.description = defect.description
  replica.comments  = commentHelper.getSingleCommentFromCommentsArea(defect)
  replica.status    = defect.status
  replica.attachments = defect.attachments
  ///other fields supported by the defect entity
}

if(entityType == 'testCase') {
  replica.key      = testCase.key
  replica.owner    = testCase.owner
  replica.summary   = testCase.summary
  replica.description = testCase.description
  replica.comments  = commentHelper.getSingleCommentFromCommentsArea(testCase)
  replica.status    = testCase.status
  replica.attachments = testCase.attachments
  ///other fields supported by the test case entity
}

```

## Destination Side HP ALM/QC

You need to map the incoming entities. For example:

- Jira issue of type *bug* to the HP ALM/QC defect
- Jira issue of type story to the HP ALM/QC test case

Below you can find some examples of mapping multiple issue types from Jira to different entities in the HP ALM/QC.

### Incoming sync

**Note:** If you want to sync multiple entities in one connection, add the following code at the beginning of your *Incoming sync* rules.

```

def defaultEntityType = 'defect' //Please change the defaultEntityType to 'testCase' to create test cases by default
if(firstSync) entityType = defaultEntityType else entityType

```

To create **defects** with the received information on your side, add the code below:

```

def defaultEntityType = 'defect' //Please change the defaultEntityType to 'testCase' to sync into test cases by default.
if(firstSync) entityType = defaultEntityType else entityType

if(entityType == 'defect') {
  defect.summary      = replica.summary
  defect.severity     = "1-Low"
  defect.description  = replica.description
  defect.attachments += replica.addedAttachments
  defect.attachments -= replica.removedAttachments
  defect.commentsArea = commentHelper.mergeCommentsIntoCommentsArea(testCase, replica)
}

```

To create **test cases** with the received information on your side, add the code below:

```
def defaultEntityType = 'testCase' //Please change the defaultEntityType to 'Defect' to sync into defects cases by default.
if(firstSync) entityType = defaultEntityType else entityType

if(entityType == 'testCase') {
    testCase.parentId    = qcHelper.getTestPlan("TEST").id
    testCase.typeName    = qcHelper.getTestType("VuGen-Script").id
    testCase.summary     = replica.summary
    testCase.description = replica.description
    testCase.attachments += replica.addedAttachments
    testCase.attachments -= replica.removedAttachments
    testCase.commentsArea = commentHelper.mergeCommentsIntoCommentsArea(testCase, replica)
}
```

**Note:** To start the synchronization, [create a trigger](#) for every entity type separately.

Have more questions? [Ask the community](#)

#### Product

[About Us](#)

#### ON THIS PAGE

[Release History](#)

[Glossary](#)

[Introduction](#)

[API Reference](#)

[Configuration](#)

[Security](#)

[Pricing and Licensing](#)

#### Resources

[Subscribe for a weekly Exalate hack](#)

[Academy](#)

[Blog](#)

[YouTube Channel](#)

[Ebooks](#)

#### Still need help?

[Join our Community](#)

[Visit our Service Desk](#)

[Find a Partner](#)