

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

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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.

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