

Export Test Data From Test Data Management to an HP ALM Server

Abstract

You can integrate a test tool with Test Data Management (TDM). Integrate a test tool with TDM to directly export the results of a TDM operation as a flat file to the test tool server.

This article documents the steps to integrate an HP Application Lifecycle Management (HP ALM) server with TDM and to export test data from TDM to the HP ALM server. This article assumes that you have knowledge of TDM and are familiar with TDM operations.

Supported Versions

- Test Data Management 10.1.0
- Test Data Management 9.7.1 HotFix 1
- Test Data Management 9.7.1
- Test Data Management 9.7.0
- Test Data Management 9.6.1 HotFix 1

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Overview

You can export test data that you create in TDM to an HP ALM server.

To integrate an HP ALM server with TDM, configure a connection to the server in Test Data Manager. After you configure the connection, you can export the results of data subset, data masking, and data generation operations that have flat file targets to the location that you configure in the server.

When you run a workflow that contains a flat file target and test tool properties, the workflow runs a separate job to copy the flat file to the HP ALM server in addition to the TDM server. The upload to test tool job creates a test resource folder in the HP ALM server and appends the plan name and the job ID to the folder name.

Example Scenario

You work with a software product testing team that creates and manages its test data in TDM.

The team uses HP ALM to create and manage test cases and other tasks. You require access to the test data when you plan test cases. The team uses TDM to export the test data created in TDM to the HP ALM server as a flat file.

To export test data from TDM to HP ALM, perform the following tasks:

1. Configure a location in the HP ALM server to store the flat file test data.
2. Configure a connection between TDM and the HP ALM server from Test Data Manager.

3. Create and run a TDM operation to export the flat file results to the HP ALM server.
4. Monitor the progress of the workflow.

Prerequisites

Before you can perform the tasks described in this document, you must ensure that you have all the prerequisites in place.

Perform the following tasks before you perform the tasks described in this document:

- Ensure that test tool integration works on the TDM version installed. Test tool integration works on TDM versions 9.6.1 HotFix 1 and later.
- Ensure that TDM works with the version of the HP ALM server installed. TDM works with HP ALM versions 11.5 and 12.0.
- Create a project in Test Data Manager and add the required data sources.
- Create the required data subset, data masking, or data generation components including entities, groups, data masking rules, or data generation rules.

Step 1. Configure a Location in the HP ALM Server

Configure a project folder in a domain in the HP ALM server to store the results that you export from TDM. You enter the location when you create the connection in Test Data Manager.

1. Log in to HP Application Management - Site Administration as an administrator.
2. From the **Site Projects** tab, select the **Projects** folder in the required domain.
3. Click **Create Project** to open the **Create Project** window.
4. Choose to create an empty project and then click **Next**.
5. Enter a project name and ensure that the correct domain appears in the **Domain** field, and then click **Next**.
6. To add project administrators, select and add the required users from the list of users.

You must enter a user name that has project administrator privileges when you create the test tool connection in Test Data Manager.

7. Click **Next**.
8. Select extensions to activate for the project if required and then click **Next**.
9. Choose to activate the project.
10. Ensure that you do not choose to enable versioning.
You cannot export results from TDM to an HP ALM server that uses version control.
11. Click **Create** to create the project.

A message appears to indicate that the project was created successfully.

12. Click **OK**.

The project folder is visible in the domain from the navigation pane on the left.

Users that you assign as project administrators must be able to access the project at log in.

Step 2. Configure a Connection to the HP ALM Server in Test Data Manager

Configure a connection to the HP ALM server in Test Data Manager before you run an operation to export data.

Log in to Test Data Manager as an administrator.

1. In the **Administrator | Preferences** view, click **Edit** on the **Test Tool Settings** tab.

The **Edit - Preferences** window opens on the **Test Tool Settings** tab.

2. Choose to enable test tool integration.

3. Enter a user name and password to connect to the HP ALM server.

The user name that you enter must have project administrator privileges on the project folder in HP ALM to which you export the results.

4. Enter the host number and the port number of the HP ALM server.

The following image shows the test tool integration properties tab:

Edit - Preferences

main Sensi... Project Configura... Workflow Generation Default Settings Log Severity Leve... **Test Tool Settings**

Configure test tool integration settings.

☒ Test Tool Integration

*User Name user1

*Password **Test Connection**

Target File Location \$\{INFA_HOME\}\TDM\tti

*Host 10.65.137.167

*Port 8080

☐ Enable Transport Layer Security(TLS)

OK Cancel

You cannot edit the default target file location.

5. Optional. If the HP ALM server uses HTTPS mode, choose to enable transport layer security and enter the HTTPS port number, keystore file, and keystore password.
6. To validate the connection information, click **Test Connection**.
7. Click **OK**.

Step 3. Configure and Run a TDM Operation to Export Data to the HP ALM Server

You can configure a data subset, data masking, or data generation plan to export the results to a location that you configure in the HP ALM server.

1. Open the required project and click the **Execute** tab.
2. To create a plan, click **Actions > New**.
3. Enter a name and optional description and click **Next**.

4. Add the required data masking, data subset, or data generation components.

You cannot add data generation components to a plan that contains data subset or data masking components. Create a separate plan for data generation.

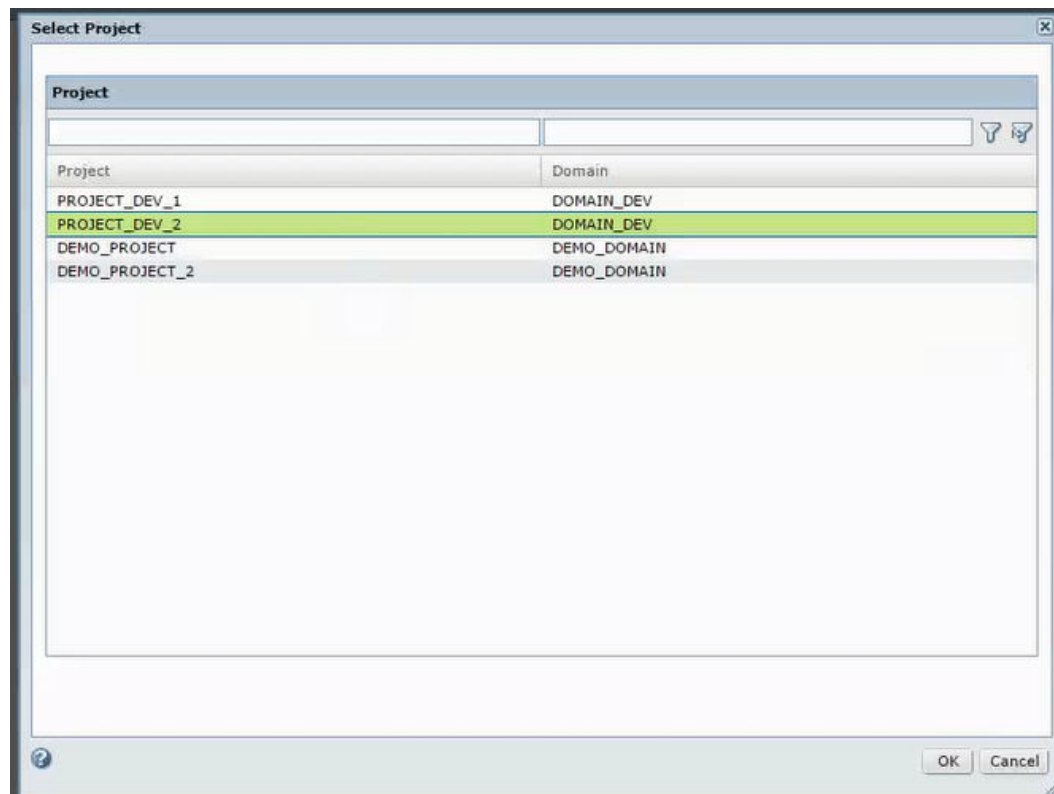
5. Select the source connection.
6. Select the target connection type as flat file.

Test tool integration properties appear.

7. Select the Attach to Test Tool option.

8. Click **Select** to browse for and select the required project folder in the HP ALM server to export the data.

The following image shows the **Select Project** page that lists the projects in the HP ALM server that you can select:



9. Configure the error recovery, advanced settings, and log settings as required and click **Next**.
 10. To save the plan, click **Finish**.
 11. To generate and run the workflow, click **Actions > Generate and Execute** in the **Plan Properties** page.
- You must run the workflow from Test Data Manager. The *Upload to test tool* job does not run if you run the workflow from Workflow Manager.

You can view the job log messages in the **Monitor** tab.

Step 4. Monitor the Job Status

You can monitor the status of the workflow and view the job logs to verify that the job completes successfully.

1. Click the **Monitor** tab in the project.
2. Identify the job ID of the upload to test tool job.

3. Verify that the status changes to *Succeeded* when the job completes.

The following image shows the **Monitor** tab in the project:

Job ID	Name	Description	Status	Start Date / Time	End Date / Time	User
217	Import from Source	Connection: CONNECT_SQLSERVER_109	Succeeded	12/19/2016 4:35:46 PM	12/19/2016 4:36:00 PM	Native/Administrator
4	Upload to test tool	This job will upload all files created by the successful workflows in job id -3	Succeeded	12/16/2016 12:29:02 PM	12/16/2016 12:29:05 PM	Native/Administrator
3	Execute Workflow	Plan: CHECK_TTI, Workflow:	Succeeded	12/16/2016 12:27:31 PM	12/16/2016 12:28:00 PM	Native/Administrator
1	w_CHECK_TTI_AutoTarget_dbs...	-	Succeeded	12/16/2016 12:27:42 PM	12/16/2016 12:27:55 PM	Native/Administrator
2	Generate Workflow	Plan: CHECK_TTI	Succeeded	12/16/2016 12:26:01 PM	12/16/2016 12:26:52 PM	Native/Administrator
1	Import from Source	Connection: AutoTarget	Succeeded	12/16/2016 12:24:02 PM	12/16/2016 12:24:13 PM	Native/Administrator

You can log in to the HP ALM server and view and download the flat file results that you exported from Test Data Manager. The `.out` file is saved in the project folder that you selected in the plan.

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