



QAD Enterprise Applications
Enterprise Edition

Installation Guide
QAD Serialization, Item Attributes,
and Quality Control

Introduction
SAQ Package Installation
Sample Installation Messages

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SAQ Installation Guide Change Summary

The following table summarizes significant differences between this document and previous versions.

Date/Version	Description	Reference
November 2016/Serialization 2.6-Rev2	Added section to Post Installation Tasks: Install Label Print Package	page 13
	Added Chapter 03: Upgrading SAQ	page 19
April 2016/Serialization 2.6-Rev1	Added YAB pre-installation steps	page 6
	Added steps to install SAQ in a cloud environment with YAB	page 9
	Added YAB related post-installation steps	page 13
March 2016/Serialization 2.6	Updated the Software and Environment requirements	page 2
	Moved steps in Before you Begin section to Pre-Installation Procedure section	page 6
	Removed steps from Verify Installation to check 1.15 menus and “Maintain” collections	page 10
	Added steps to verify SAQ 2.6 was installed	page 10
	Removed steps (Add Merged Files, Install Periodic Costing, Install Label Print package) from Post-Installation Tasks	page 13
	Added the Copy E-Signature Seed Data section	page 17
	Updated the Installation Messages listing	page 24
August 2015/Serialization 2.5	Updated the Software and Environment requirements	page 2
	Added a new step to Before You Begin	--
	Revised the SAQ and QAD Add-On Compatibility section	page 7
	Updated Table 2.1 “SAQ Install Package-MSW/PSW Compatibility”	page 7
	Revised step 9 of Installation Procedure	page 7
	Revised step 10 of Installation Procedure	page 7
	Added a new step 1 to Verify the Installation	page 10
	Install Periodic Costing section added to Post-installation Tasks	--
	Deleted the Run assign_phantom.p section	page 12
	Revised the Install Label Print Package section	--
	Revised step 3 of Verify controllers.xml was Updated	page 14
	Revised step 5 of Compile QAD Enterprise Applications	page 15
	Revised introduction to Configure QXtend Support	page 16
	Added the Upgrade Quality Browse Definition section	page 17
	Revised the Installation Messages overview	page 24
	Updated the Installation Messages listing	page 24

Date/Version	Description	Reference
April 2015/Serialization 2.4.1	Numerous minor revisions	---
	Revised the software and environment requirements	page 2
	Revised the version numbers in “SAQ Install Package-MSW/PSW Compatibility” table	page 7
	Added the Run assign_phantom.p section to Post-installation Tasks	--
	Revised the Verify controllers.xml was Updated section	page 14
	Revised the Configure QXtend Support section	page 16
	Updated the Installation Messages section	page 24
January 2015/Serialization 2.4-rev 1	Revised the Unzip Utilities section	page 2
	Revised the Before You Begin section	--
November 2014/Serialization 2.4	Updated the Software and Environment requirements	page 2
	Revised the Pre-installation Procedure section	page 6
	Added the Verify the Installation section	page 10
	Deleted the Run shippingHistoryLoad.p section	--
	Added the Add Merged Files section	--
	Added the Verify controllers.xml was Updated section	page 14
	Added the Add Enterprise Item Attributes to Home Process Map section	page 14
	Revised the Compile QAD Enterprise Applications section	page 15
	Revised the Configure QXtend Support section	page 16
July 2014/Serialization 2.3.1	SAQ 2.3 install guides for 2012.1 EE, 2013.1 EE, and 2014 EE combined into one guide	---
	Added text regarding file overlaps and compatibility between EE, SAQ 2.3.1, and other QAD Add-Ons,	page 7
	Added qxo to the \$QXO_SERVER location	page 9
	Added Run shippingHistoryLoad.p to Post-installation Tasks	--
	Added Install Label Print Package to Post-installation Tasks	--
	Revised guide to say that for 2014 EE you can use the compile list in the SAQ package or you can create a custom list	--
	Moved the sample installation messages to a separate appendix	page 24
	Updated Installation Messages	page 24
March 2014/Serialization 2.3	Not applicable - initial version of guide	---

Introduction

This chapter discusses the following Serialization, Item Attributes, and Quality Control installation topics:

Overview 2

Describes the chapter contents.

Requirements 2

Describes system and software prerequisites for Serialization, Item Attributes, and Quality Control installation.

Installation Package 2

Describes the contents of the installation package.

Patches and Customized Programs 3

Describes considerations for previously installed patches and customized programs.

Overview

This chapter discusses Serialization, Item Attributes, and Quality Control (SAQ) installation requirements, the installation package, and pre-installation preparations.

Requirements

The following sections describe the software and environment and other requirements to install QAD SAQ.

Upgrading SAQ

If you are upgrading SAQ, see “Upgrading SAQ” on page 19. If you do not have SAQ installed, please proceed to the next section.

Software and Environment

To install Serialization, Item Attributes, and Quality Control, you must have 2015 EE, .NET UI 3.1 (included with 2015 EE), and Java Runtime Environment (JRE) 1.6 or above.

Unzip Utilities

The QAD Store (<http://store.qad.com>) provides product downloads as compressed ISO files in .zip or .7z format. The .7z format is used to overcome a limitation that prevents the zipping of files larger than 2 GB.

To unzip .7z files, use the free 7-Zip utility. Windows, Linux, and UNIX versions of this utility are available from:

<http://www.7-zip.org>

Unzipping the compressed product file using the appropriate utility yields an uncompressed ISO file.

Installation Package

QAD provides the following Serialization, Item Attributes, and Quality Control installation components:

- Install guide (this document) and release notes, located at the top level of the installation directory on the product media.
- Generic module installer
- Serialization, Item Attributes, and Quality (SAQ) Package
- Schema package
- Numerous artifact packages
- MFG/PRO component including menus for maintenance, browses, browse collections, and reports.
- Help files

Patches and Customized Programs

The installation package contains modifications to the existing QAD ERP programs. Therefore, if you applied QAD patches or customizations, it is **your** responsibility to merge the QAD patch changes, customizations, and any other changes after applying the installation package. QAD does not support customized programs.

4 QAD Serialization, Item Attributes, and Quality Control Installation Guide

Installation

This chapter describes QAD Serialization, Item Attributes, and Quality Control (SAQ) package installation and post-installation configuration.

Overview 6

Provides an overview of the installation process.

Pre-Installation Procedure 6

Covers a pre-installation warehouse module requirement and pre-installation for existing SAQ customers.

Installation Considerations 7

Describes important SAQ, Add-On, and MSW/PSW pre-installation considerations.

Installation Procedure 7

Provides step-by-step instructions for a Linux/UNIX SAQ package installation in a character environment.

Post-installation Tasks 13

Describes Serialization, Item Attributes, and Quality Control configuration following installation.

Overview

The following sections describe how to install the QAD Serialization, Item Attributes, and Quality Control (SAQ) package and how to configure the product after installation.

Pre-Installation Procedure

The pre-installation steps vary depending on whether you install SAQ using QDT or YAB (Your Application Builder):

- If you are installing SAQ in a 2015 EE *on premise* environment, you will use QDT.
- If you are installing SAQ in a 2015EE *cloud* environment, you will use YAB.

Pre-Installation Steps - QDT

Perform the following actions before installing the Serialization, Item Attributes, and Quality Control package.

- 1 Search the QAD Support KnowledgeBase (<http://www.qad.com/erp/Support/>) for any known issues related to SAQ installation. If you find any issues, follow the instructions in the KnowledgeBase in addition to the instructions in this guide.
- 2 Back up your databases and supporting environments. This includes backing up your mfg and admin “empty” databases.
- 3 Back up the `controllers.xml` file located in your `PROPATH`.
- 4 Note the installation locations for the following:
 - QDT
 - QAD product instance
- 5 If you installed the SAQ 2.5 package, first install the schema package (`netui-module-serialization-schema-installer-2.6.*.zip`) using the same steps outlined in “Installation Procedure” on page 7. If this does not pertain to you, proceed to the next step.
- 6 If you are installing your *initial* SAQ package and you do not have the QAD Warehousing RF module installed, unzip `wh.zip` and copy all of the files to `$QEA/xrc/us/wh`. If this does not pertain to you, proceed to the next section.

Pre-Installation Steps - YAB

Perform the following actions before installing the Serialization, Item Attributes, and Quality Control package.

- 1 Search the QAD Support KnowledgeBase (<http://www.qad.com/erp/Support/>) for any known issues related to SAQ installation. If you find any issues, follow the instructions in the KnowledgeBase in addition to the instructions in this guide.
- 2 Back up your databases and supporting environments. This includes backing up your mfg and admin “empty” databases.
- 3 Back up the `controllers.xml` file located in your `PROPATH`.

- 4 If the cloud environment has not been updated with the new storage area mapping, the following line needs to be added to the `configuration.properties` file. Otherwise, the installation will fail when loading schema.

```
schema.serialization.area.map=${packages.yab-ee-foundation.dir}/etc/storage-area-mapping.rules
```

- 5 If this package is installed on an environment where SAQ 2.5.0 was installed, the following line needs to be added to `configuration.properties` file.

```
saq.version.upgrade=2.5.0
```

Installation Considerations

SAQ and QAD Add-On Compatibility

The SAQ 2.6 package overlaps with core EE files and other QAD add-on products. Therefore, you must carefully consider the sequence of the installs and compatibility with add-on product versions.

MSW/PSW

Install the appropriate MSW/PSW version before you attempt to install SAQ. The compatible MSW/PSW versions for the various SAQ install packages are listed below.

Table 2.1
SAQ Install Package-MSW/PSW Compatibility

SAQ Install Package	MSW/PSW Version	Comments
SAQ 2.6 for 2015 EE	MSW/PSW 3.3.7.3	None

Overlaps

Overlaps may exist between SAQ and the following QAD add-on products:

- I19
- Configurator
- Periodic Costing
- Kanban Workbenches

You may require assistance from QAD Services to properly prepare the environment after SAQ installation.

Installation Procedure

See the following table to determine if you need to install SAQ using QDT or YAB:

EE Environment	On Premise or Cloud Installation	QDT or YAB	Procedure
2015EE	On Premise	QDT	“Installing SAQ with QDT” on page 8
2015EE	Cloud	YAB	“Installing SAQ with YAB” on page 9

Installing SAQ with QDT

The SAQ package is installed from an ISO file downloaded from the QAD Download Center or from QAD physical product media.

Warning Do not attempt to install the SAQ package if you have not completely satisfied the installation prerequisites, requirements, and considerations described earlier in this guide. Failure to do so will result in a non-functional SAQ installation.

Follow these steps to install the SAQ package using QDT:

- 1 Log in as an administrative user with read, write, and execute permissions for your production environment. On Linux/UNIX systems, it is typically `mfg`.

- 2 Make sure that you have JRE 1.6 or above installed and that it is the first JRE located in the environment variable `PATH`. Enter:

```
java -version
```

If the displayed version is 1.6 or higher, proceed to the next step. Otherwise, you can download Java from the following location:

<http://www.oracle.com/technetwork/java/javase/index-137561.html>

- 3 Make sure that the `JAVA_HOME` variable is exported correctly. To see the directory of your installed JRE, enter:

```
echo $JAVA_HOME
```

Include the directory path in the `$JAVA_HOME` value, such as:

```
/qad/common/java/jdk1.6.0_33
```

- 4 Make sure that `JAVA_HOME/bin` is in the `PATH`. To see the `PATH`, enter:

```
echo $PATH
```

If the `PATH` does not include the `JAVA bin` directory, add it to the `PATH` as follows:

```
export PATH=$JAVA_HOME/bin:$PATH
```

- 5 Shut down any virus protection programs.
- 6 If you are installing from QAD physical product media, go to step 7. Otherwise, download the ISO file from the QAD Download Center and unzip it using the appropriate utility (see “Unzip Utilities” on page 2).
- 7 Mount the downloaded SAQ package ISO file or physical product media.

- 8 Change to the installation’s install directory by entering:

```
cd <InstallDir>
```

- 9 Keep your environment running and enter the following Linux/UNIX commands. These commands can take some time to complete. During this time, you can launch another Linux terminal window and perform step 10 to view the installation process.

- a Launch the Linux/UNIX installation script by entering:

```
./install.sh -i silent -Dconfig.src=$QDT -Dconfig.env=$ENV
```

Where:

`$QDT` is the location where QAD Deployment Toolkit (QDT) is installed.

`$ENV` is the environment name for the QAD product instance.

- b** Set the `$ENV` variable to your environment name. This variable typically points to an environment directory in `$QDT/envs`. For example, assume that the environment directory `prodenv` is located in `$QDT/envs/`. To use this environment, you would set `$ENV` as follows:

```
export ENV=prodenv
```

- c** If the target environment uses custom scripts instead of the scripts in `$QDT/envs/$ENV/script` to start and stop the environment, specify the custom scripts as additional parameters. Use the following command:

```
-Dusr.start.script=$CUSTOM_STARTUP_SCRIPT -Dusr.stop.script=$CUSTOM_STOP_SCRIPT
```

Where:

`$CUSTOM_STARTUP_SCRIPT` is the full path to your custom startup script.

- d** If you want to use the QXtend module, add the following parameter:

```
-Dqxi.home=$QXI_HOME -Dqxo.server=$QXO_SERVER
```

Where:

`$QXI_HOME` is the location of your QXtend Inbound. It is a WebApp in your Tomcat server. For a standard QAD Enterprise Edition installation, it should be `/dr01/tomcat/8080/webapps/qxi`.

`$QXO_SERVER` is the location of your QXtend Outbound. For a standard QAD Enterprise Edition installation, it should be `/dr01/qadapps/qa/qxtend/qxo`.

- e** Also, if you want to receive detailed messages in the log, add the following parameter:

```
-Dloglevel=DEBUG
```

- 10** After the installation finishes, enter the license code for Serialization.

Note For SAQ, Item Attributes and Quality Control does not require a license code. To use the Serialization portion of SAQ, a license code is required.

- 11** Proceed to “Verify the Installation”.

Installing SAQ with YAB

Important If you are installing SAQ in a 2015EE cloud environment, you must install SAQ with YAB.

Before proceeding, ensure that you are familiar with YAB commands. See the *QAD Enterprise Edition Configuration and Administration Guide* for more information.

Installation Steps

Follow these steps to install SAQ with YAB:

- 1 Depending on whether you are installing the encrypted or unencrypted package, add the following lines to the `configuration.properties` file.

Encrypted package

```
packages.netui-module-serialization-schema=2.6.0.0
packages.netui-module-serialization-encrypted=2.6.0.0
packages.netui-module-saq-2015-encrypted=2.6.0.0
```

Unencrypted package

```
packages.netui-module-serialization-schema=2.6.0.0
packages.netui-module-serialization-unencrypted=2.6.0.0
packages.netui-module-saq-2015-unencrypted=2.6.0.0
```

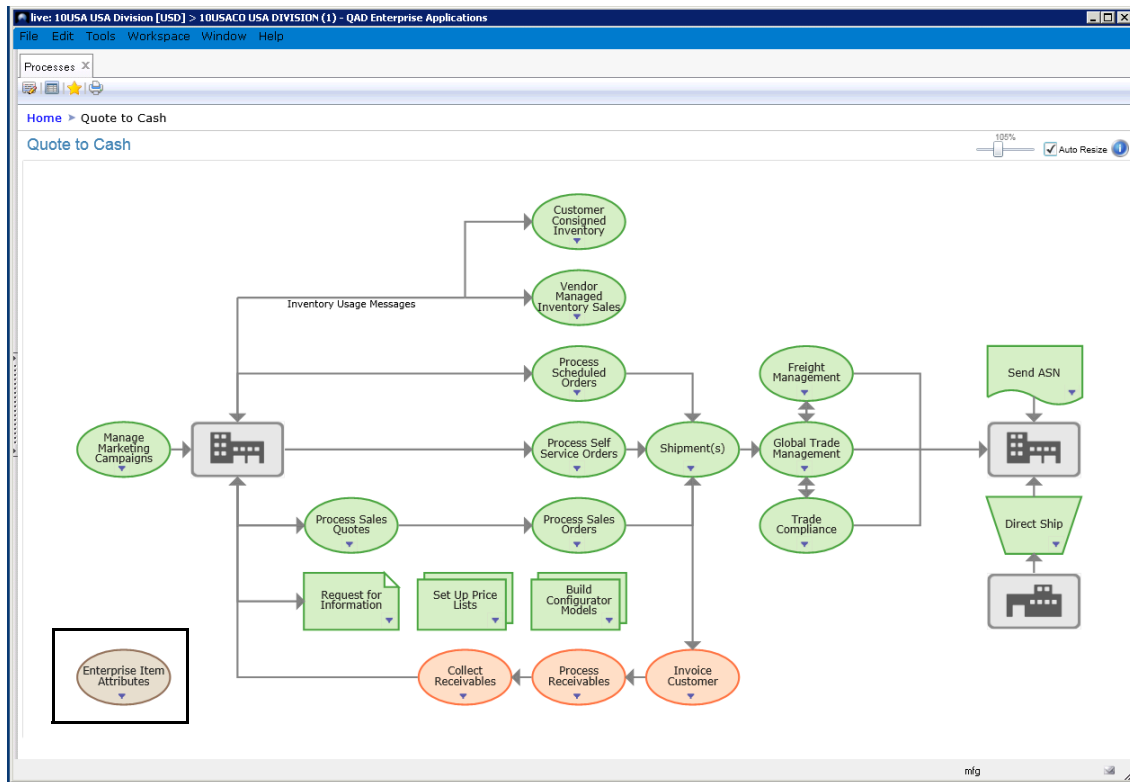
- 2 Execute the `yab update` command to install the package.
- 3 Proceed to “Verify the Installation”.

Verify the Installation

To verify that the SAQ package was installed successfully, use the following steps:

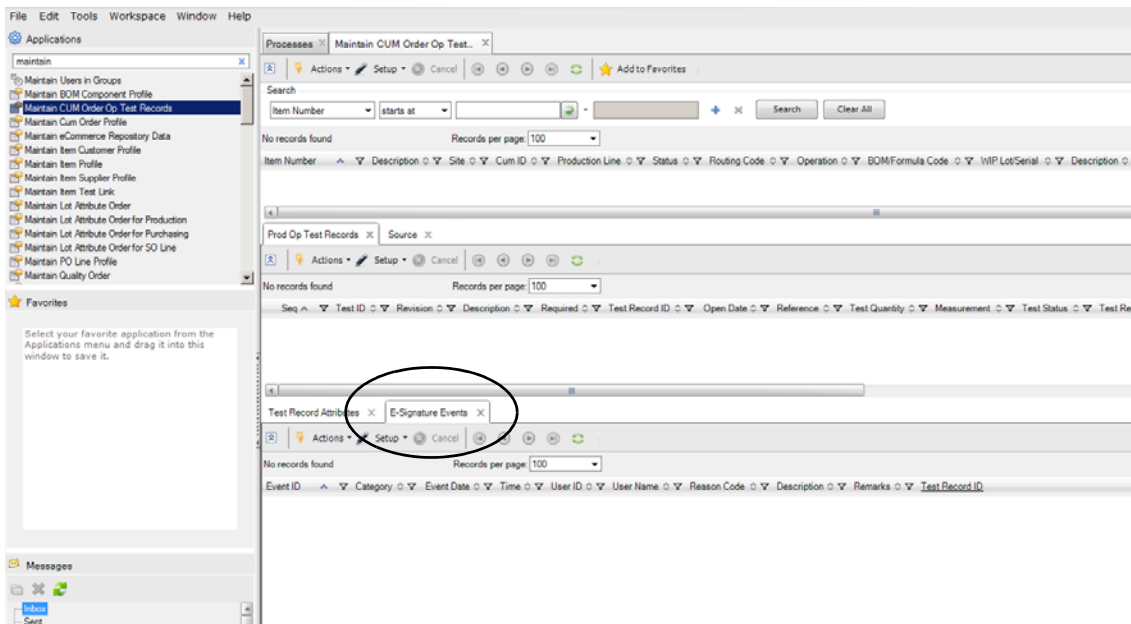
- 1 *If you installed SAQ with QDT*, go to `$TMP/installation.$USR.log` and review the detailed report of the installation results. `$TMP` resolves to the Java system property `java.io.tmpdir` (typically `/tmp` on Linux/UNIX). `$USR` refers to the system user name. The last line of the log file indicate whether the installation was successful. For sample log messages, refer to “Installation Messages” on page 24.
If you installed SAQ with YAB, go to `$QAD_HOME/build/logs/yab.log`. The last two lines of the log file indicates whether the installation was successful.
- 2 Look for a new node called “Enterprise Item Attributes” on the Quote to Cash or other second-level process maps.

Fig. 2.1
Process Map Page with Enterprise Item Attributes Node



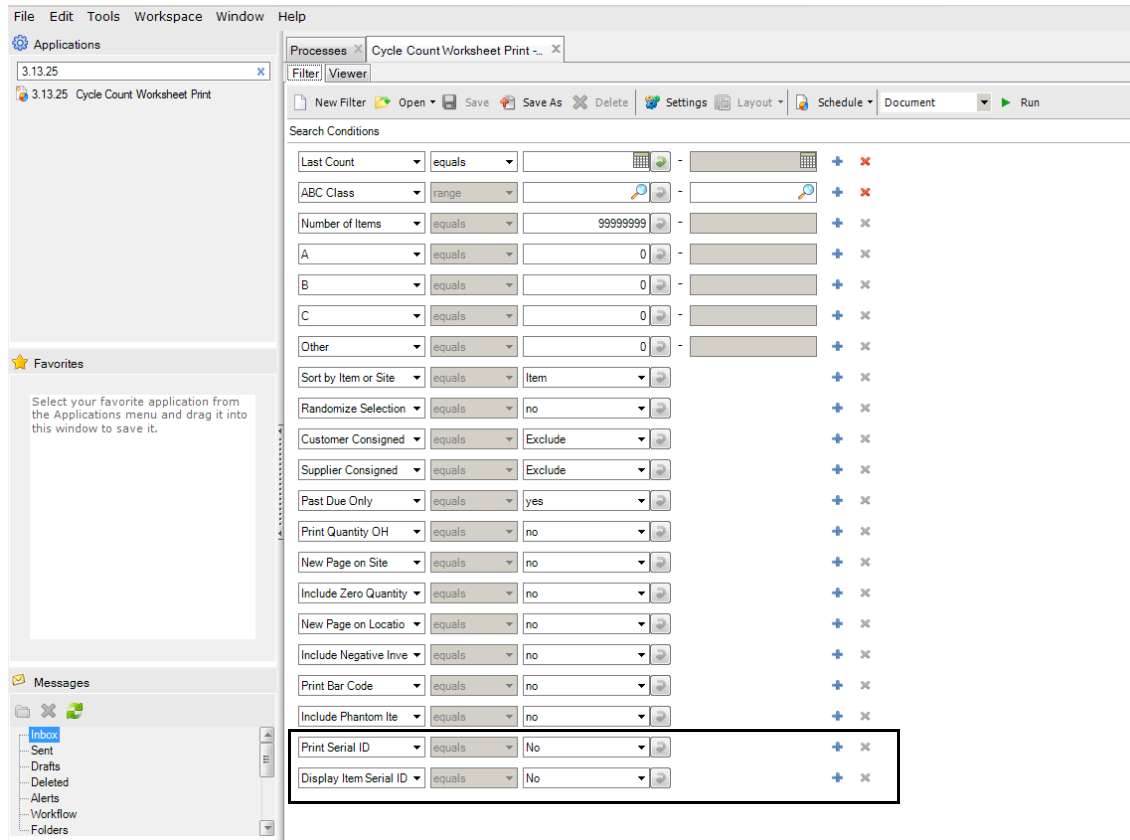
- To check that SAQ 2.6 has been installed correctly, open the Maintain CUM Order Op Test Record collection and check that the E-Signature Events tab is displayed. In previous versions of SAQ, the E-Signature Events tab was not included in this collection.

Fig. 2.2
Verifying SAQ 2.6 Is Installed - Maintain CUM Order Op Test Record Collection



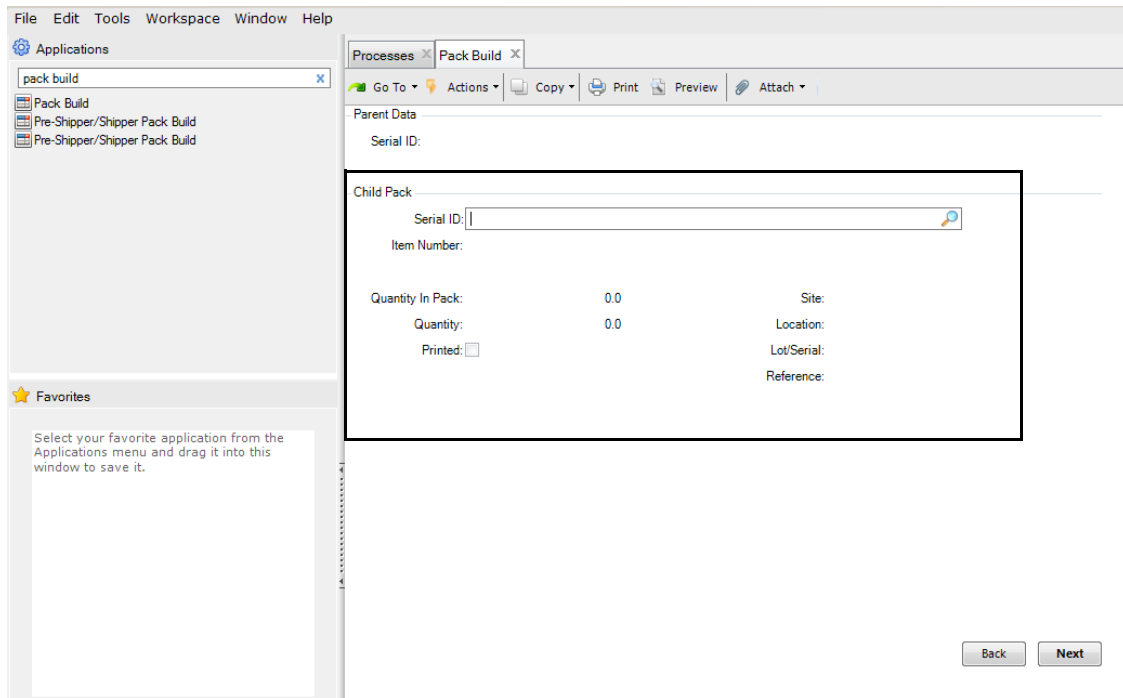
- 4 Open Cycle Count Worksheet Print (3.13.25) and verify that Print Serial ID and Display Item Serial ID have been added to the list of search conditions.

Fig. 2.3
Verifying SAQ 2.6 Is Installed - Cycle Count Worksheet Print



- 5 Open Pack Build (3.17.3). Press Enter two times and verify that the Serial ID, Item Number, Quantity In Pack, and the other fields have been added to the Child Pack frame.

Fig. 2.4
Verifying SAQ 2.6 Is Installed - Pack Build



Post-installation Tasks

SAQ post-installation tasks consist of the following:

- Install Label Print Package (optional)
- Verify that controllers.xml Was Updated (optional)
- Add POShipperMaint to controllers.xml File - YAB Installation
- Merge Existing Patches and Customizations
- Add Enterprise Item Attributes to Home Process Map (optional)
- Compile QAD Enterprise Applications
- Configure QXtend Support (optional)
- Upgrade Quality Browse Definition
- Copy E-Signature Seed Data
- Restart Anti-virus

Install Label Print Package (optional)

Note Perform the following step if you installed SAQ 2.6 in a 2015EE environment using QDT.

If you already have the Label Print Service installed, recompile the following files:

- pa/pavdxr.p
- pa/palbxr.p
- pa/papalb.p

Verify that controllers.xml Was Updated (optional)

The SAQ installation package contains modifications to the existing `controllers.xml` file. However, the SAQ installation package may not modify the same `controllers.xml` file in the `PROPATH` for the r-code.

To verify `controllers.xml`, do the following:

- 1 Log in to QAD EE and open the Progress Editor.
- 2 Execute the following command to locate the directory containing the file:

```
message search("controllers.xml")
```

- 3 Check the size and date/time of this file versus the file that the package installed. This file is usually found in `/xrc/com/qad/erp/api/controllers.xml`.

If the files match, no action is required. If the dates match, no action may be required. Compare the files to ensure that their contents match.

Note The order of the APIs listed may be different.

If the files do not match and there are no user customizations in your `controllers.xml` file, copy the `xrc/com/qad/erp/api/controllers.xml` version over the `PROPATH` version. If there are user customizations to your `controllers.xml`, you may need to manually merge changes from `docs/controllers.xml` in the SAQ package to a copy of the backup `controllers.xml` and save this to your `PROPATH` version.

Add POShipperMaint to controllers.xml File - YAB Installation

Note Perform this step if you installed SAQ with YAB.

Check if the `POShipperMaint` name element is in the `controller.xml` file. If it is not in the file, add the following to the `controllers.xml` file:

```
<component>
  <name>POShipperMaint</name>
  <apiMethod>
    <apiName>maintainPOShipper</apiName>
    <apiType>transaction</apiType>
    <className>com.qad.erp.api.POShipperMaintController</className>
    <extProgram>rsshmt.p</extProgram>
  </apiMethod>
</component>
```

Merge Existing Patches and Customizations

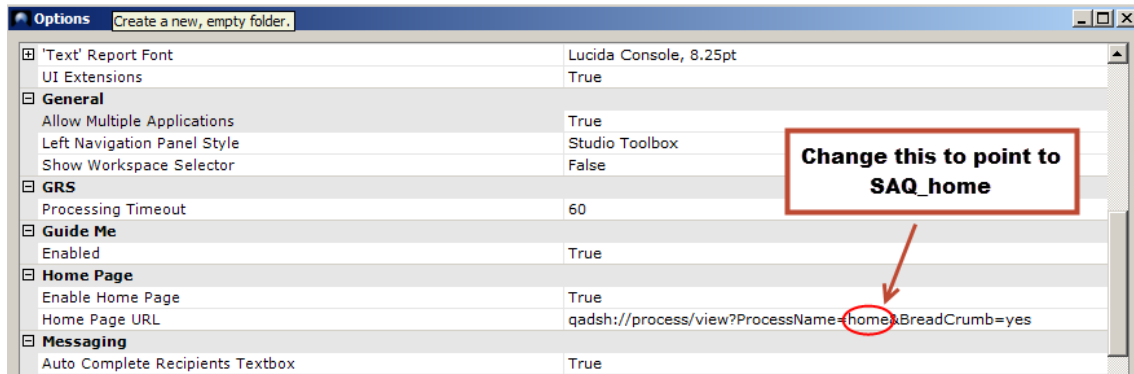
The SAQ installation package contains modifications to the existing QAD ERP programs. If you previously applied QAD patches or customizations, merge the QAD patch changes, customizations, and any other changes.

Add Enterprise Item Attributes to Home Process Map (optional)

If you want an Enterprise Item Attributes icon included on the home process map, you must replace your existing `home.xml` file with `SAQ_home.xml` or update your `home.xml` file to add the Enterprise Item Attribute process icon.

To replace your home process map with the SAQ home process map, go to Tools|Options|Home Page and change the Home Page URL to point to SAQ_home instead of your current home process map (Figure 2.5).

Fig. 2.5
Process Map Path



You do not need to perform this task to access the Enterprise Item Attributes process in the End-to-End section (Quote to Cash, Procure-to-Pay, or Plan to Perform).

Compile QAD Enterprise Applications

Note The steps to compile QAD EA code vary depending on whether you installed SAQ using QDT or YAB.

Compiling QAD EA Code - QDT Installation

Note Follow these steps if you installed SAQ with QDT.

If you modified or added files to your QAD EA installation, compile the QAD EA code using the following procedures (you do not need to compile the .NET UI code).

- 1 Open QDT.
- 2 Choose the environment.
- 3 Select Configure QAD EE from the right menu.
- 4 Select Character Client Code: Generate R-code.
- 5 Locate the directory in which QDT placed the compile list and select the list.

Important Use the compile list provided with the SAQ package, which is located within the netui-module-serialization-encrypted package.

- 6 Select Reset from the bottom of the screen (this action removes the Completed status).
- 7 Select Execute.

Then use the following steps to trim the AppServer agents:

- 1 Sign in to the .NET UI.
- 2 Select Connection Manager.
- 3 Click the Restart Connection Manager link.
- 4 Click All to refresh the display

Compiling QAD EA Code - YAB Installation

Note Follow these steps if you installed SAQ with YAB.

If you modified or added files to your QAD EA installation, compile the QAD EA code by performing the `yab -r update` command. See the *QAD Enterprise Edition Configuration and Administration Guide* for more information.

Configure QXtend Support (optional)

If you previously installed SAQ, you can bypass this task.

This section describes the optional task of configuring the SAQ package to support QXtend. The package uses QXtend's Direct Data Publishing (DDP) feature to publish data for third-party software. The DDP concept is described in the *QXtend Fundamentals Training Guide*.

The installer helps to deploy the source application and load the business object and its default profile. Configure QXO services so that the remaining QXO services ensure that the relevant data is published to interested subscribers.

To configure the SAQ package to support QXtend, do the following:

- 1 Load the business object definition. Refer to “Configuring DDP in QAD QXtend” in the *QXtend Fundamentals Training Guide*. The business object definitions are located in the `$QXO_SERVER/boXML/QADEE` directory.
- 2 Create/Choose a Message Publisher and assign the Business Object to a Message Publisher. Refer to “Message Publisher” in the *QXtend Fundamentals Training Guide*.
- 3 Create/Choose a Message Subscriber and assign Profile to Subscriber. Refer to “Profiles” in the Subscriber section of the *QXtend Fundamentals Training Guide*.
- 4 Add the Message Subscriber to the Message Sender. Refer to “Configuring Message Senders” in the *QXtend Fundamentals Training Guide*.
- 5 Create the Business Event and configure your business object to listen to that event. Refer to “Managing Event Types” in the Source Applications section of the *QXtend Fundamentals Training Guide*.

If you are performing a full SAQ installation, create the following Business Objects and Events:

Table 2.2
Business Objects and Events

Business Object	Event
WorkOrderBookedSerialDDP	WorkOrderReleased
SerialUsageDDP	SalesOrderClosed

- 6 Configure the AppServer Service Definition using AppServer Service Maintenance.
- 7 Enter the AppServer Service name and the Source Application name within QXtend Outbound into the QXtend Outbound Control menu option.

Upgrade Quality Browse Definition

When installing SAQ 2.6, you must manually upgrade the Quality browse definition. Otherwise, the Quality browses may not upgrade properly. The following browse files for ql014, ql015 and ql016 need to be re-imported:

- mfg_635926065821352932.brwx (browse ql016)
- mfg_635937560537689170.brwx (browse ql015)
- mfg_635937648022066733.brwx (browse ql014)

If you installed SAQ with QDT, the files are located where `install.sh` is located.

If you installed SAQ with YAB, the files are located in `Z:\qadapps\qea\build\work\netui-module-serialization-encrypted\docs`, where `Z:` is the Windows mapped driver.

To manually import the browse, use the following steps:

- 1 Go to Browse Maintenance.
- 2 Select Actions|Import.
- 3 In the Import dialog box, click the icon in the Input File field.
- 4 In the Open dialog box, navigate to the folder containing the *.brwx file.
- 5 Select the *.brwx file and click Open.
- 6 In the Import dialog box, go to the Available column and select the browse.
- 7 Press the > button to move the browse to the Selected column.
- 8 Select the Overwrite Existing check box.
- 9 Click Import.
- 10 You are prompted to import the Browse Definition. Click Yes.
- 11 You should see a dialog box that says “Import of the selected Browse Definition(s) complete.” If you experience an error, remove the browses and try again.

Copy E-Signature Seed Data

If you installed SAQ with QDT, copy the .qad files into the `$QEA/db/mfg` directory.

If you installed SAQ with YAB, you do not need to copy the .qad files. The .qad files are located in the \$QAD_HOME/config/electronic-signature/serialization/ directory. When users want to use E-signature functionality, they must load the .qad files from this directory.

Restart Anti-virus

Restart any anti-virus programs that were shut down to perform the SAQ package installation.

Upgrading SAQ

This chapter describes how to upgrade from a previously released version of SAQ.

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SAQ and EE Compatibility 20

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Overview

The following sections describe how to upgrade to the latest version of QAD SAQ.

SAQ and EE Compatibility

The following table outlines SAQ and EE compatibility:

Table 3.1 SAQ and EE Compatibility

	SAQ v2.3	SAQ v2.3.1	SAQ v2.4	SAQ v2.4+	SAQ v2.5	SAQ v2.6
2012.1 EE	X	X	X		X	
2013.1 EE	X	X	X		X	
2014 EE		X	X		X	
2015 EE				In baseline	X	X
2016 EE						In baseline

Upgrading SAQ Only

This section applies to users who are only upgrading SAQ. When upgrading SAQ, you must upgrade one version at a time until you reach the current released version.

Upgrading to SAQ v2.5

This section describes how to upgrade to SAQ v2.5. These instructions apply to users who are on 2012.1 EE, 2013.1 EE, or 2014 EE with SAQ v2.3, v2.3.1, or v2.4 installed.

Follow these steps to upgrade to SAQ v2.5:

- 1 Use the following table to determine which packages are required for the upgrade. SAQ packages can be downloaded from the QAD Store.

Upgrade	File Needed	Reference
SAQ v2.3 to v2.3.1	Standard SAQ v2.3.1 package	SAQ Installation Guide v2.3.1
SAQ v2.3.1 to v2.4	Standard SAQ v2.4 package	SAQ Installation Guide v2.4
SAQ v2.4 to v2.5	Standard SAQ v2.5 package	SAQ Installation Guide v2.5

Note For installation instructions, see the SAQ installation guide that is included in the package.

- 2 Upgrade to SAQ v2.3.1 by installing the standard SAQ v2.3.1 package.
- 3 Upgrade to SAQ v2.4 by installing the standard SAQ v2.4 package.
- 4 Upgrade to SAQ v2.5 by installing the standard SAQ v2.5 package.

Upgrading to SAQ v2.6

This section describes how to upgrade to SAQ v2.6. These instructions are for users who are on 2015 EE with SAQ v2.3, v2.3.1, or v2.4+ installed.

Note 2015 EE includes SAQ v2.4+ in the baseline.

Follow these steps to upgrade to SAQ v2.6:

- 1 Use the following table to determine which packages are required for the upgrade. SAQ packages can be downloaded from the QAD Store.

Upgrade	File Needed	Reference
SAQ v2.4+ to v2.5	Standard SAQ v2.5 package	SAQ Installation Guide v2.5
SAQ v2.5 to v2.6	Standard SAQ v2.6 package	SAQ Installation Guide v2.6

- 2 Upgrade to SAQ v2.5 by installing the standard SAQ v2.5 package. For installation instructions, see the SAQ installation guide that is included in the package.
- 3 Upgrade to SAQ v2.6 by installing the standard SAQ v2.6 package. The SAQ v2.6 installation guide is available in the QAD Document Library.

Upgrading SAQ and EE

This section applies to users who are upgrading SAQ and EE. When upgrading SAQ, you must upgrade one version at a time until you reach the current released version.

Upgrading to 2015 EE and SAQ 2.6

This section describes how to upgrade to 2015 EE and SAQ v2.6. These instructions apply to users who are on 2012.1 EE, 2013.1 EE, or 2014 EE with SAQ v2.3, v2.3.1, v2.4, or v2.5 installed.

Follow these steps to upgrade to 2015 EE and SAQ 2.6:

- 1 See the following table to determine which files are required for the upgrade. SAQ and EE packages can be downloaded from the QAD Store.

Upgrade	File Needed	Reference
SAQ v2.3 to v2.3.1	Standard SAQ v2.3.1 package	SAQ Installation Guide v2.3.1
SAQ v2.3.1 to v2.4	Standard SAQ v2.4 package	SAQ Installation Guide v2.4
2015 EE Upgrade	Standard 2015 EE package	QAD Progress Database Conversion Guide v2015EE
SAQ v2.4 to v2.5	Standard SAQ v2.5 package	SAQ Installation Guide v2.5
SAQ v2.5 to v2.6	Standard SAQ v2.6 package	SAQ Installation Guide v2.6

Note For SAQ installation instructions, see the SAQ installation guide that is included in the package.

- 2 Upgrade to SAQ v2.3.1 by installing the standard SAQ v2.3.1 package.
- 3 Upgrade to SAQ v2.4 by installing the standard SAQ v2.4 package.
- 4 Upgrade to 2015 EE. For upgrade instructions, see the *QAD Progress Database Conversion Guide v2015EE*, which is available in the QAD Document Library (<http://documentlibrary.qad.com/>).
- 5 Upgrade to SAQ v2.5 by installing the standard SAQ v2.5 package.
- 6 Upgrade to SAQ v2.6 by installing the standard SAQ v2.6 package. For upgrade instructions, see the *SAQ Installation Guide v2.6*, which is available in the QAD Document Library.

Upgrading to 2016 EE with SAQ

This section describes how to upgrade to 2016 EE, which comes with SAQ v2.6 in the core product. These instructions apply to users who are on 2012.1 EE, 2013.1 EE, 2014 EE, or 2015 EE with SAQ v2.3, v2.3.1, v2.4, or v2.5 installed.

Note If you are using 2015 EE and SAQ v2.5, see “Upgrading from 2015 EE with SAQ v2.5 to 2016 EE/SAQ v2.6” on page 22.

Follow these steps to upgrade to 2016EE and SAQ 2.6:

- 1 See the following table to determine which files are required for the upgrade. SAQ and EE packages can be downloaded from the QAD Store.

Upgrade	File Needed	Reference
SAQ v2.3 to v2.3.1	Standard SAQ v2.3.1 package	SAQ Installation Guide v2.3.1
SAQ v2.3.1 to v2.4	Standard SAQ v2.4 package	SAQ Installation Guide v2.4
SAQ v2.4 to v2.5	Standard SAQ v2.5 package	SAQ Installation Guide v2.5
2016 EE Upgrade	Standard 2016EE package	QAD Progress Database Conversion Guide v2016EE

Note For SAQ installation instructions, see the SAQ installation guide that is included in the package.

- 2 Upgrade to SAQ v2.3.1 by installing the standard SAQ v2.3.1 package.
- 3 Upgrade to SAQ v2.4 by installing the standard SAQ v2.4 package.
- 4 Upgrade to SAQ v2.5 by installing the standard SAQ v2.5 package.
- 5 Upgrade to 2016 EE. For upgrade instructions, see the *QAD Progress Database Conversion Guide v2016EE*, which is available in the QAD Document Library (<http://documentlibrary.qad.com/>).

Note When upgrading to 2016 EE, the system automatically upgrades from SAQ v2.5 to v2.6.

Upgrading from 2015 EE with SAQ v2.5 to 2016 EE/SAQ v2.6

If you are on 2015 EE with SAQ v2.5 bolt-on installed and are upgrading to 2016 EE and SAQ v2.6, you must refer to QAD knowledgebase article AB-00517 for upgrade instructions.

<https://knowledgebase.qad.com/kmp/article/AB-00517>

Note When upgrading to 2016EE, the system automatically upgrades from SAQ v2.5 to v2.6.

Upgrading to SAQ v2.6 and 2016 EE with Periodic Costing Patch 7

If Periodic Costing Patch 7 is installed in your current environment, you must refer to knowledge base article AB-00518 before proceeding:

<https://knowledgebase.qad.com/kmp/article/AB-00518>

Note When upgrading to 2016 EE, the system automatically upgrades from SAQ v2.5 to v2.6.

Sample Installation Messages

This appendix describes the messages that are generated during SAQ package installation.

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Provides an overview of the installation messages.

Installation Messages 24

Provides sample installation messages for the different SAQ package versions.

Overview

This appendix contains samples of the messages generated during a successful SAQ package installation for 2015 EE. If your SAQ package installation was successful, messages similar to the following should be present in the `$TMP/installation.$USR.log` file. Note that different product versions may have a different number of files.

Installation Messages

Update Empty DB

```
201988 [main] WARN Echo: Update Empty DB...
202670 [main] INFO PCTLoadSchema: Loading
/tmp/qpm.root/ebe21b14c35d4c37a1e9eaa2741a5144/staging/packages/netui-module-
serialization-schema/2/6/0/0/custom/schema/qadddb/delta.df into database
```

Update Live DB

```
264761 [main] WARN Echo: Update Live DB...
264762 [main] INFO PCTLoadSchema: Loading
/tmp/qpm.root/ebe21b14c35d4c37a1e9eaa2741a5144/staging/packages/netui-module-
serialization-schema/2/6/0/0/custom/schema/qadddb/delta.df into database
```

Copy Source Code

```
114437 [main] INFO ANT: Target "copy-files" started.
114442 [main] INFO Copy: Copying 38 files to /dr01/qadapps/qa/src
115396 [main] INFO ANT: Target "copy-files" started.
115404 [main] INFO Copy: Copying 351 files to /dr01/qadapps/qa/src
```

Compile File

```
128559 [ad 1] INFO PCTCompile: INFO - Thread 1: Starting compile ...
517373 [main] INFO PCTCompile: INFO - 794 file(s) processed, 794 successfully compiled,
0 skipped, 0 failed.
```

Copy Browse Collection

```
523803 [main] INFO ANT: Target "browse-collection" started.
524681 [main] INFO ANT: Target "make-excludes-file" started.
524770 [main] INFO ANT: Target "make-excludes-file" ended.
524770 [main] INFO ANT: Target "copy-files" started.
524772 [main] INFO Copy: Copying 69 files to
/dr01/tomcat/8080/webapps/qadhome/configurations/qadui/storage/browse-collections
526210 [main] INFO ANT: Target "copy-files" ended.
```

Copy Menu Collection

```
526216 [main] INFO ANT: Target "menu-collection" started.
526254 [main] INFO ANT: Target "make-excludes-file" started.
526254 [main] INFO ANT: Target "make-excludes-file" ended.
526254 [main] INFO ANT: Target "copy-files" started.
526255 [main] INFO Copy: Copying 2 files to
/dr01/tomcat/8080/webapps/qadhome/configurations/qadui/storage/menu-collections
```

Copy Customer Browse

```
526284 [main] INFO ANT: Target "mkt-d-copy-files" started.
528754 [main] INFO ANT: Target "make-excludes-file" started.
528754 [main] INFO ANT: Target "make-excludes-file" ended.
528754 [main] INFO ANT: Target "copy-files" started.
528761 [main] INFO Copy: Copying 100 files to /dr01/qadapps/qa/qadui
```

Copy Process Map

```

3646664 [main] INFO ANT: Target "process-map" started.
3647376 [main] INFO ANT: Target "make-excludes-file" started.
3647376 [main] INFO ANT: Target "make-excludes-file" ended.
3647376 [main] INFO ANT: Target "copy-files" started.
3647378 [main] INFO ANT: Copying 32 files to /dr01/tomcat/8090/webapps/pronav/WEB-
INF/pronav/xml/eB3

```

Import Report Definitions

```

552824 [-187] INFO ExecTask: 15:08:51 Importing report definitions.
575342 [-187] INFO ExecTask: 15:09:14 31 report definition(s) imported.

```

Copy qdoc

```

575780 [main] INFO ANT: Target "deploy_qdoc" started.
575819 [main] WARN ANT: Trying to override old definition of datatype resources
575919 [main] INFO Copy: Copying 122 files to /dr01/tomcat/8090/webapps/qxi/WEB-
INF/schemas/QADEE/custom
577586 [main] WARN Echo: 2012;2013;2014;2015;
577607 [main] INFO ANT: Target "check_qxi_home" started.
577607 [main] INFO ANT: Target "check_qxi_home" ended.
577607 [main] INFO ANT: Target "copy_qdoc_schema_files" started.
577608 [main] INFO ANT: Target "copy_qdoc_schema_files" ended.
577628 [main] INFO ANT: Target "check_qxi_home" started.
577632 [main] INFO ANT: Target "check_qxi_home" ended.
577632 [main] INFO ANT: Target "copy_qdoc_schema_files" started.
577632 [main] INFO Copy: Copying 10 files to /dr01/tomcat/8090/webapps/qxi/WEB-
INF/schemas/QADEE/custom
578001 [main] INFO ANT: Target "copy_qdoc_schema_files" ended.
578020 [main] INFO ANT: Target "check_qxi_home" started.
578021 [main] INFO ANT: Target "check_qxi_home" ended.
578021 [main] INFO ANT: Target "copy_qdoc_schema_files" started.
578021 [main] INFO Copy: Copying 2 files to /dr01/tomcat/8090/webapps/qxi/WEB-
INF/schemas/QADEE/custom
578027 [main] INFO ANT: Target "copy_qdoc_schema_files" ended.
578045 [main] INFO ANT: Target "check_qxi_home" started.
578046 [main] INFO ANT: Target "check_qxi_home" ended.
578046 [main] INFO ANT: Target "copy_qdoc_schema_files" started.
578047 [main] INFO Copy: Copying 1 file to /dr01/tomcat/8090/webapps/qxi/WEB-
INF/schemas/QADEE/custom
578047 [main] INFO ANT: Target "copy_qdoc_schema_files" ended.
578052 [main] INFO Copy: Copying 1 file to /dr01/tomcat/8090/webapps/qxi/WEB-
INF/events/QADEE/custom
578218 [main] WARN XmlTask: Cannot append values to properties
578218 [main] WARN XmlTask: Cannot append values to properties
578218 [main] WARN XmlTask: Cannot append values to properties
578218 [main] WARN XmlTask: Cannot append values to properties
583400 [main] INFO ANT: Target "deploy_qdoc" ended.

```

Load Field Help

```

583473 [main] INFO ANT: Target "load_field_help" started.
583963 [-195] INFO ExecTask: Load Data From:
/tmp/qpm.root/149a1fa47cb54102a2a22b1b2034e883/staging/packages/netui-module-saq-2015-
encrypted/2/6/0/0/custom/fldhelp/fieldhlp_srn.fhd
604401 [-195] INFO ExecTask: Load Result:
604404 [-195] INFO ExecTask:
604404 [-195] INFO ExecTask: Loaded flhm_mst   Loaded flhd_det
604404 [-195] INFO ExecTask: -----
604404 [-195] INFO ExecTask:                               1,010           11,151
604405 [main] INFO ANT: Target "load_field_help" ended.

```

