



QAD Enterprise Applications
Enterprise Edition

Install Guide

QAD Automation Solutions:

Data Collection

Introduction
Package Installation for QAD Automation Solutions: Data Collection
Configure EAM for QAD Automation Solutions: Data Collection and Label Printing
Services

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QAD Automation Solutions: Data Collection Installation Guide Change Summary

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

Date/Version	Description	Reference
May 2018/DC v3.0-Rev2	Added instructions to install DC using QDT	page 5
March 2018/DC v3.0-Rev1	Update YAB version requirements	page 2
	Updated Patches and Customizations statement	page 2
	Added link to download updated .fhd help file for DC v3.0	page 10
March 2018/DC v3.0	Updated the Software and Environment Requirements section	page 2
	Removed the Unzip Utilities section	--
	Updated Installation Procedure section	page 4
	Updated Locate Artifacts section	page 8
	Updated User Login Script and protermcap section	page 8
	Updated Loading Field Help section	page 10
	Various revisions to Appendix A: Configure EAM for Data Collection and LPS	page 13
	Updated Configure LPS for EAM section	page 20
January 2018/DC v2.1.0-Rev1	Updated the software and environment requirements	page 2
	Updated Ch. 2 Overview	page 4
	Updated Overview and Requirements in Appendix A: Configure EAM for Data Collection and LPS	page 14
October 2017/DC v2.1.0	Updated the software and environment requirements	page 2
	Update the Installation Package section	page 2
	Major revisions to the Installation Procedure section	page 4
	Updated the Post Installation Tasks section	page 8
	Updated the Overview section in Appendix A: Configure EAM for Data Collection and LPS	page 14
August 2017/DC v2.0.1 Rev3	Added note about YAB versions less than version 1.3	page 4
	Changed all references, when applicable, from Data Collection to QAD Automation Solutions: Data Collection	--
February 2017/DC v2.0.1 Rev 2	Removed Appendix A: Installing Transaction Package	--
November 2016/DC v2.0.1 Rev 1	Corrected LPS directories in Configure LPS for EAM section	page 20

Date/Version	Description	Reference
September 2016/DC v2.0.1	Rebranded for v2.0.1	--
	Added section: Downloading and Extracting Installation Package	page 4
	Revised section: Installing QAD Automation Solutions: Data Collection Using YAB	page 4
	Revised section: Installing QAD Automation Solutions: Data Collection Using QDT	page 4
	Removed section: Configure QAD Automation Solutions: Data Collection to Utilize ICT Framework	--
	Added section: Loading Field Help	page 10
May 2016/DC v2.0-Rev3	Added steps from Before You Begin section, which was removed, to the Pre-installation section	page 4
	Added "Enter RF Device Information" to post installation steps	page 10
	Added Appendix A: Installing Transaction Package	--
	Added Appendix B: Configure DC and LPS for EAM	page 13
April 2016/DC v2.0-Rev2	Revised the User Login Script and protermcap section	page 8
April 2016/DC v2.0-Rev1	Changed the title of and revised the post installation ICT section	--
March 2016/DC v2.0	Updated software and environment requirements	--
	Added instructions to install DC using the YAB console	page 4
	Removed Installation Messages section	---
April 2015/DC v1.2.1	Not applicable. First release of QAD Automation Solutions: Data Collection Install Guide	---

Introduction

This chapter discusses the following installation topics for QAD Automation Solutions: Data Collection:

Overview 2

Describes the chapter contents.

Requirements 2

Describes system and software prerequisites that you must meet before installing Data Collection.

Installation Package 2

Describes the contents of the installation package.

Patches and Customized Programs 2

Describes considerations for previously installed patches and customized programs.

Overview

This chapter discusses the installation requirements for QAD Automation Solutions: Data Collection, the installation package, and pre-installation preparations.

Requirements

The following sections describe the software and environment and other requirements for installing Data Collection.

Software and Environment

You must have the following software and environment to install software for Data Collection:

- Enterprise Edition 2016EE or above
- Java Runtime Environment (JRE) 1.6 or above
- Progress 11.6 or above
- YAB 1.6.5 or above

Installation Package

The Data Collection package contains all the components to install Data Collection. Data Collection must be installed on a 2016EE (or above) environment using YAB.

Note The *QAD Automation Solutions: Data Collection Installation Guide* can be found in the QAD document library:

- <http://documentlibrary.qad.com/>

Patches and Customized Programs

This package contains modifications to QAD programs. If you have made customizations to QAD programs, it is **your** responsibility to merge your customizations with the modifications included in this package.

Package Installation for QAD Automation Solutions: Data Collection

This chapter describes package installation and post-installation configuration for QAD Automation Solutions: Data Collection.

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Provides an overview of the installation process.

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Provides instructions to install Data Collection using YAB.

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Provides instructions to install Data Collection using QDT.

Post-installation Tasks 8

Describes post-installation activities.

Overview

The following sections describe how to install the QAD Automation Solutions: Data Collection package and how to configure the product after installation.

Depending on the version of Enterprise Edition that is installed, you install QAD Automation Solutions: Data Collection using either QDT or YAB. See the following table to determine if you need to install it using QDT or YAB:

EE Version	On Premise or Cloud Installation	QDT or YAB	Note
2016EE or later	On Premise	YAB	See “Installing Data Collection Using YAB” on page 4
2015EE or before	On Premise	QDT	See “Installing Data Collection Using QDT” on page 5
2015EE or later	Cloud	YAB	For information about installing DC in a Cloud environment, please contact QAD Cloud Operations.

Installing Data Collection Using YAB

Pre-Installation Tasks

Important This section only applies if you are installing QAD Automation Solutions: Data Collection using YAB.

Back up your databases and supporting environments. To back up all databases, execute the command:

```
> yab database-backup
```

Alternatively, to back up a specific database, execute the command:

```
> yab database-[INSTANCE]-backup
```

Downloading the Installation Package

Important This section only applies if you are installing QAD Automation Solutions: Data Collection using YAB.

Follow these steps to download the Data Collection installation package:

- 1 Download the add-on .zip file from the QAD Store or from QAD Release Fulfillment.
Example `as-data-collection-3.0.0.0.zip`
- 2 Move the selected file(s) to a file system that is accessible from the UNIX host where your Enterprise Edition environment is installed.
Example `<InstallDir>`

Installing Data Collection

Important If you are installing Data Collection in 2016EE or later, you must use YAB.

YAB is a configuration management tool you can use to start, stop, reconfigure, and maintain the consistency of your Enterprise Edition environments. Your environment is defined in terms of discrete units, or packages, which you can replace and add as needed.

See *QAD Enterprise Edition Installation Guide* for more information about using YAB.

Follow these steps to install Data Collection using YAB:

- 1 Change to the directory where Enterprise Edition is installed.

```
cd directory
```

- 2 Add the packages to the environment:

```
yab -i:<path to package>/as-data-collection-3.0.0.0.zip
```

- 3 Update the `configuration.properties` file.

```
packages.as-data-collection=3.0.0.0
```

Note Remove references to any prior/earlier Data Collection schema and framework versions within the YAB configuration properties files. The schema is now included within the module package. The configuration files can be found at:

```
../build/config/
```

```
../build/config/system
```

The values within the property files to search for are:

- data-collection-schema=
- data-collection=
- data-collection-encrypted=
- data-collection-unencrypted=
- as-data-collection * service-pack=
- netui-module-data-collections-schema=
- netui-module-data-collections-unencrypted=
- netui-module-data-collections-encrypted=

- 4 Update the environment.

```
> yab update
```

Proceed to “Post-installation Tasks” on page 8.

Installing Data Collection Using QDT

Pre-Installation Tasks

Important This section only applies if you are installing QAD Automation Solutions: Data Collection using QDT.

- 1 Back up your databases and supporting environments.
- 2 Note the installation locations for the following:
 - QDT
 - QAD product instance name referred to by QDT
- 3 Review the compile `PROPATH` that QDT uses and ensure that QDT compiles the core QAD EE only without reference to customizations or other products, such as ICT.

For example:

(NETUI),(QXTEND),(MSW/PSW),(WMS),CORE (including BBI, FIN, QRA, etc.),
(CONFIGURATOR),(CRM)

() indicates optional core products.

Downloading and Extracting the QDT Installation Package

Important This section only applies if you are installing QAD Automation Solutions: Data Collection using QDT.

Note The QAD Automation Solutions: Data Collection 3.0.0 packages can be downloaded from the QAD Store or QAD Release Fulfillment.

- For environments where Data Collection *is not installed*, use package `as-data-collection-qdt-installer-xx.xx.xx.zip`.
- For environments where Data Collection *is installed*, use the upgrade package `as-data-collection-qdt-upgrade-installer-x.x.x.x.zip`. The `as-data-collection-qdt-upgrade-installer-3.0.0.0.zip` upgrade package will upgrade Data Collection from versions 2.0.0 and 2.0.1 to version 3.0.0.

Follow these steps to download and extract the DC installation package:

- 1 Download the add-on .zip file from the QAD Store or from QAD Release Fulfillment that is appropriate for your environment.

Example

```
as-data-collection-qdt-installer-3.0.0.0.zip  
as-data-collection-qdt-upgrade-installer-3.0.0.0.zip
```

- 2 Move the selected file(s) to a file system that is accessible from the UNIX host where your Enterprise Edition environment is installed.

Example <InstallDir>

Installing Data Collection

Important This section only applies if you are installing QAD Automation Solutions: Data Collection using QDT.

The QAD Automation Solutions: Data Collection package is installed from an ISO file downloaded from the QAD Store or from QAD physical product media.

Follow these steps to install the QAD Automation Solutions: Data Collection 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 `PATH` does not include the `JAVA bin` directory, add it to `PATH` as follows:

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

- 5 Shut down any virus protection programs.

- 6 Change to the installation's install directory by entering:

```
cd <InstallDir>
```

- 7 Extract the contents of the installation file.

- a Extract the contents of the installation package

Example Unzip `as-data-collection-qdt-upgrade-installer-3.0.0.0.zip` or `as-data-collection-qdt-installer-3.0.0.0.zip`.

- b Extract the contents of `data.zip`.

Example Unzip `data.zip`.

- 8 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 9 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, use the following command to specify the custom scripts as additional parameters:

```
-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.

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`$CUSTOM_STOP_SCRIPT` is the full path to your custom stop script.

- d If the environment has QXtend installed, use the following command to set the `$QXI_HOME` and `$QXO_SERVER` variables and specify them as additional parameters:

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

Where `$QXI_HOME` is the path to the `qxi` directory.

For example: `export QXI_HOME=/dr01/tomcat/8090/webapps/qxi`

Where `$QXI_SERVER` is the path to the directory where Qxtend resides.

For example: `export QXI_SERVER=/dr01/qadapps/gea/qxtend`

Example of command using all environment variables:

```
./install.sh -i silent -Dconfig.src=$QDT -Dconfig.env=$ENV -  
Dusr.start.script=$CUSTOM_STARTUP_SCRIPT -Dusr.stop.script=  
$CUSTOM_STOP_SCRIPT -Dqxi.home=$QXI_HOME -Dqxo.server=$QXO_SERVER
```

- 9 After you finish the installation, refer to `$TMP/installation.$USR.log` for a 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 indicates whether the installation was successful.

Post-installation Tasks

Data Collection post-installation tasks consist of the following:

- Locate Artifacts
- User Login Script and `protermcap`
- Enter RF Device Information
- Merging Existing Patches and Customizations
- Loading Field Help
- Restarting Anti-Virus

Locate Artifacts

If the directory `<DIST_Dir>/as-setup` is not available, you can find it in the package contents under `../build/catalog/packages/as-data-collection/nn/nn/nn/nn`.

User Login Script and `protermcap`

The installation package for QAD Automation Solutions: Data Collection contains modifications to the `protermcap.dc` file that Progress uses. The scripts created by YAB during the installation (`client-asdc-xxx`) utilize the `protermcap` file supplied. The login scripts are created and maintained by the installer to ensure that the `propath` values in the scripts are updated during any environmental update that may affect them.

Service Connection and Control File

1 Verify AppServer connection information for Data Collection.

- a Launch the ERP application.
- b Launch Service Connection Maintenance (6.22.1).
- c Set the AppServer information for the core product to the following:

Field	Setting
Type	Appserver
Name	<the name of the appserver to use> For example, as-eam.
Name Srvr	Yes
URL	default
Port	<port number of the server>
Host	<host name>
WSDL	default
User ID	default
Password	default
Parameter	default

d Set the server connection to access EAM:

Field	Setting
Type	Direct Appserver
Name	<the name of the appserver to use> For example, as-eam.
Name Srvr	Yes
URL	default
Port	<port number of the server>
Host	<host name>
WSDL	default
User ID	default
Password	default
Parameter	Yes
Sequence	1
Name	-sessionModel session-free
Type	INPUT
Datatype	CHARACTER

2 Verify control for Data Collection.

- a Launch Data Collection Control (6.22.24).
- b Set the connection name. Enter the connection name that was entered in Service Connection Maintenance (steps c and d); for example, as-eam.
- c Set the environment to the <Name of the environment>; for example, DEVL, Test, Train, PROD.

Enter RF Device Information

If users have RF devices with screen widths greater or less than 40 characters, enter the device information into Device Maintenance (6.22.14). Repeat this step as needed for each device that meets this criteria.

Example Skip this step if all RF devices have a 40 character display.

Field	Setting
Device Type	Enter the name of the device. This name is visible to users when they log in and choose their device.
Screen Width	Enter the number of characters that can be displayed across the devices screen.
Maximum Label Characters	10
Use Data Justification	No

Fig. 2.1
Device Maintenance

The screenshot shows a web browser window with two tabs: 'Processes' and 'Device Maintenance'. The 'Device Maintenance' tab is active and displays a form with the following fields:

- Device Type: RF Device
- Screen Width: 40
- Maximum Label Characters: 10
- Use Data Justification:

The form is displayed in a light blue theme with a navigation bar at the top containing 'Go To', 'Actions', 'Copy', 'Print', and 'Preview' buttons.

Merging Existing Patches and Customizations

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

Loading Field Help

Note An updated .fnd help file is available for Data Collection v3.0. The help file is only available in English. See the following knowledgebase article to download the file:

<https://knowledgebase.qad.com/kmp/article/AB-15341/465/Field-Help-is-missing-for-some-fields.html>

Use this procedure to load character-mode online field and procedure help. It does not affect custom help.

- 1 From a single-user EE character session, go to the System Interface menu (36.4) and select Field Help Load (36.4.13.14).
- 2 In Field Help Load, leave Field, Procedure, Status, and Text Type blank.

3 Complete the other fields:

Language. Enter an appropriate two-letter language code (such as US for English).

Field Help Load File. Enter the full path to the help data file `dc-fieldhlp.fhd`.

The DC help data file is located in the `<Dist Dir>/as setup` folder. Please note that there is a restriction on the number of characters that can be entered in this field. If you cannot enter the complete path and file name, copy the `dc-fieldhlp.fhd` file into a temporary directory and then enter the temporary path to the help data file.

Skip loading help with lower status. •Enter Yes.

4 Press Go to begin the load.**5** Exit Field Help Load when the load is finished.**Restarting Anti-Virus**

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

Configure EAM for QAD Automation Solutions: Data Collection and Label Printing Services

This appendix describes the procedure to install the EAM package.

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Overview

The following appendix describes how to configure DC and LPS for QAD ERP transaction banners.

For DC and LPS artifacts for EAM, please see the EAM 2017.1 or higher package.

Please contact QAD Services for assistance in retrofitting the transactions on EAM 2016.

Requirements

Before applying the EAM DC LPS package, make sure that the following software has been installed and configured:

- QAD 2016EE or greater.
- EAM 2016 (v13) or greater.
- QAD Automation Solutions: Data Collection 3.0 or greater
- QAD Automation Solutions: Label Printing Services 3.0 or greater

Configure Data Collection for QAD

- 1 Log in to QAD ERP.
- 2 Open Service Connection Maintenance (6.22.1) and create a record for Service Connection by entering the following information:

Field	Setting
Type	Direct Appserver
Name	Enter the name of the EAM AppServer
Name Srvr	Yes
URL	blank
Port	Enter the port number of the EAM AppServer's broker
Host	Enter the host's name of the IP address for the server running the EAM AppServer
WSDL	blank
User ID	blank
Password	blank
Parameter	Yes
Parameter Frame	
Sequence	1
Name	-sessionModel session-free
Type	INPUT
Datatype	CHARACTER

Fig. A.1
Service Connection Maintenance

The screenshot shows a web-based interface for 'Service Connection Maintenance'. The window title is 'Service Connection Maintenance'. At the top, there is a navigation bar with 'Go To', 'Actions', 'Copy', 'Print', and 'Preview' options. The main content area displays the following configuration details:

- Type: Direct Appserver (dropdown menu)
- Name: qadeam_ASlive
- Name Svr:
- URL:
- Port: 22088
- Host: vmlinux
- WSDL:
- User ID:
- Password:
- Parameter:

Below these fields, there is a 'Parameter' section with the following details:

- Sequence: 1
- Name: -sessionModel session-free
- Type: INPUT (dropdown menu)
- Datatype: CHARACTER (dropdown menu)

At the bottom right, there are three buttons: 'Delete', 'Back', and 'Next'. The text 'Adding new record' is visible at the bottom left of the form area.

- 3 Open Data Collection Control (6.22.24) and enter the following information in the Connection Name and Environment fields.

Field	Setting
Connection Name	Enter the name of the EAM AppServer that was entered in the previous step.
Environment	Optionally, identify the environment to users by entering “Test”, “Prod”, “Live”, and so on.

Fig. A.2
Data Collection Control

The screenshot shows a window titled "Data Collection Control" with a menu bar containing "Go To", "Actions", "Copy", "Print", and "Preview". The main area contains the following fields and controls:

- Screen Width: 40
- Information Frame Row: 2
- Single Field Update Row: 13
- Multiple Field Update Row: 2
- UI Style: SINGLE FIELD (dropdown)
- Logical Format: Yes/No (dropdown)
- Processing Timeout: 300
- Wait Time: 15
- Session Timeout Minutes: 30
- Auto Commit:
- Auto Print:
- Auto Repeat:
- Propath Setting: /dr01/qadapps/qea/config/qadcss./dr01/qadapps/qea/config./dr01/qadapps/
- Connection Name: qadeam ASlive
- Environment: LIVE
- Go Key: F1
- End Key: F4
- Done Key: F10
- Lookup Key: F2
- Abort Key: F12
- Delete Key: F5
- Insert Key: F3

At the bottom right, there are "Back" and "Next" buttons.

- 4 Open Application Version Maintenance (6.22.2) and create a record for the Application Version.

Fig. A.3
Application Version Maintenance

The screenshot shows a window titled "Application Version Maintenance" with a menu bar containing "Go To", "Actions", "Copy", "Print", and "Preview". The main area contains the following fields:

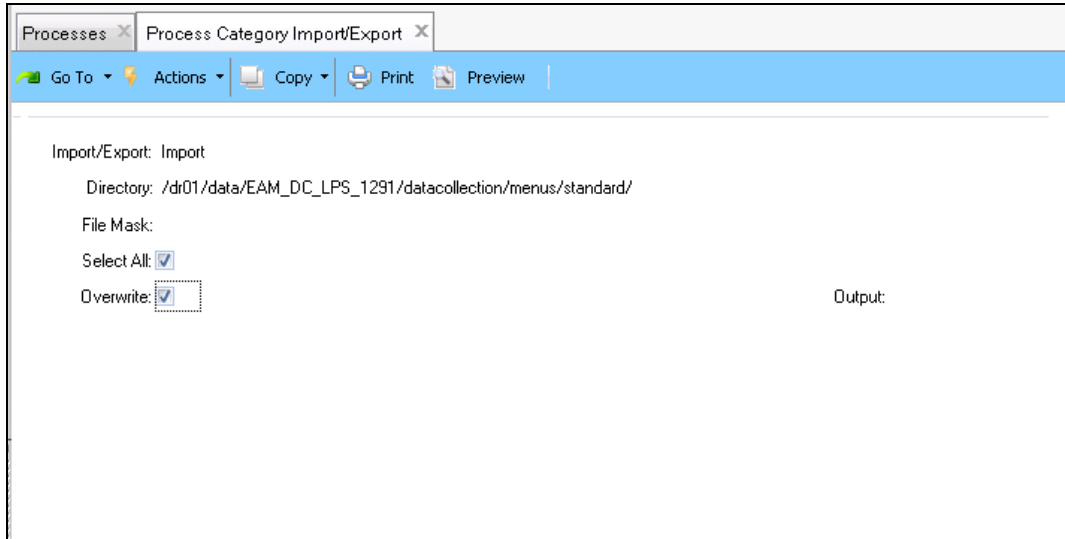
- Application Version: EAM
- Description: [Empty text box]

- 5 Open Process Category Import/Export (6.23.1) and import the EAM xml transaction file located in <Dist Dir>/as-setup/menus/eam.

Field	Setting
Import/Export	Import
Directory	Enter the full path to the folder that contains EAM.xml.

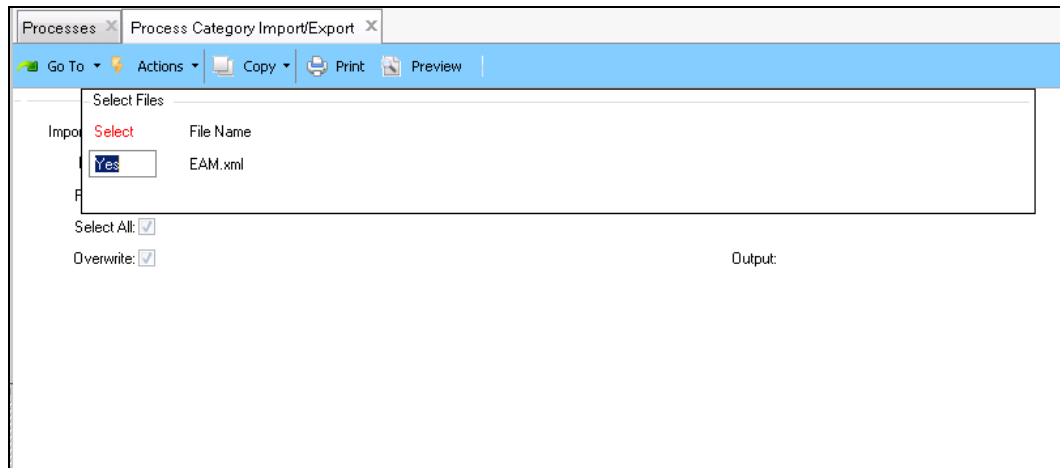
Field	Setting
File Mask	blank
Select All	Yes
Overwrite	Yes

Fig. A.4
Process Category Import/Export



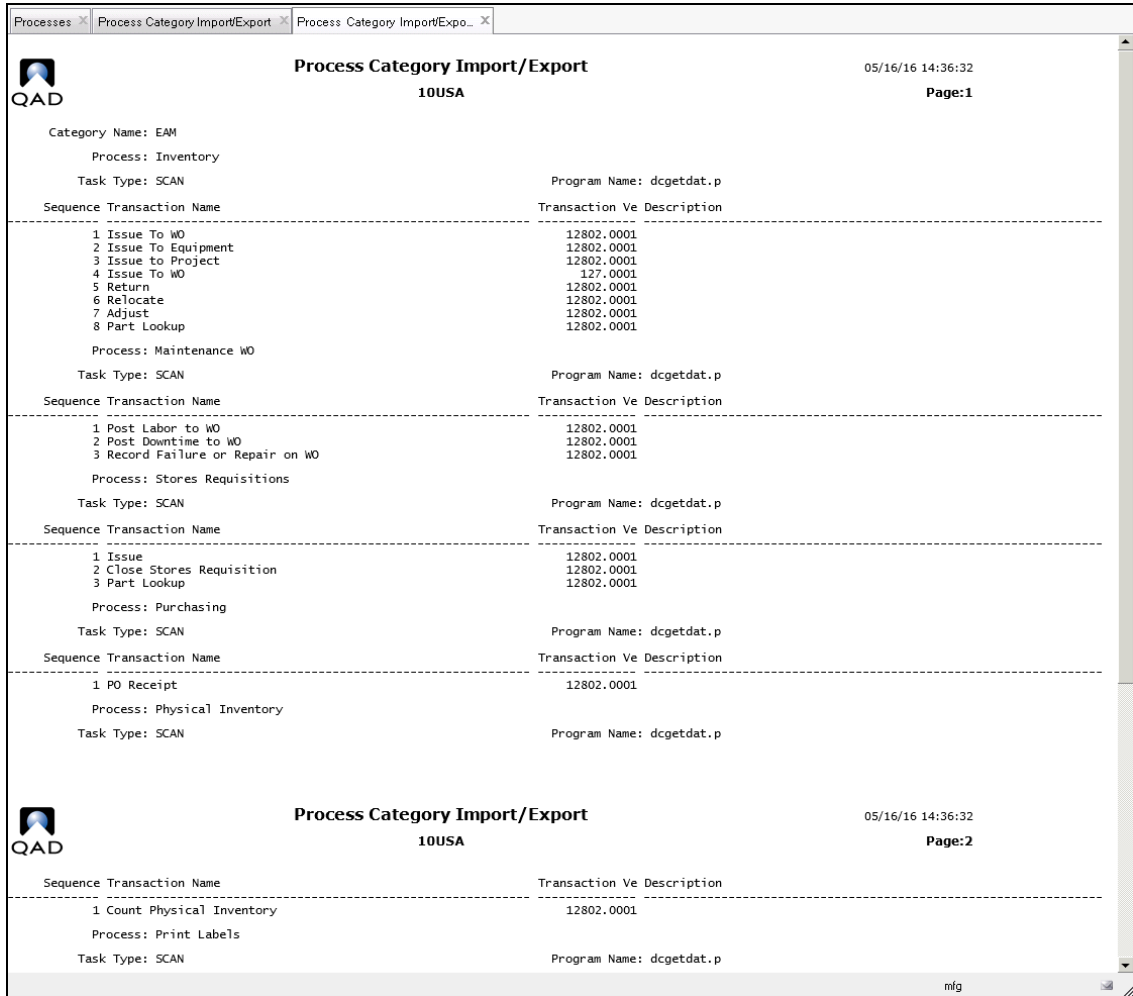
6 Click Next. The Select Files frame is displayed. Click Next.

Fig. A.5
Process Category Import/Export - Select Files



7 Click Next again and output the results to PAGE.

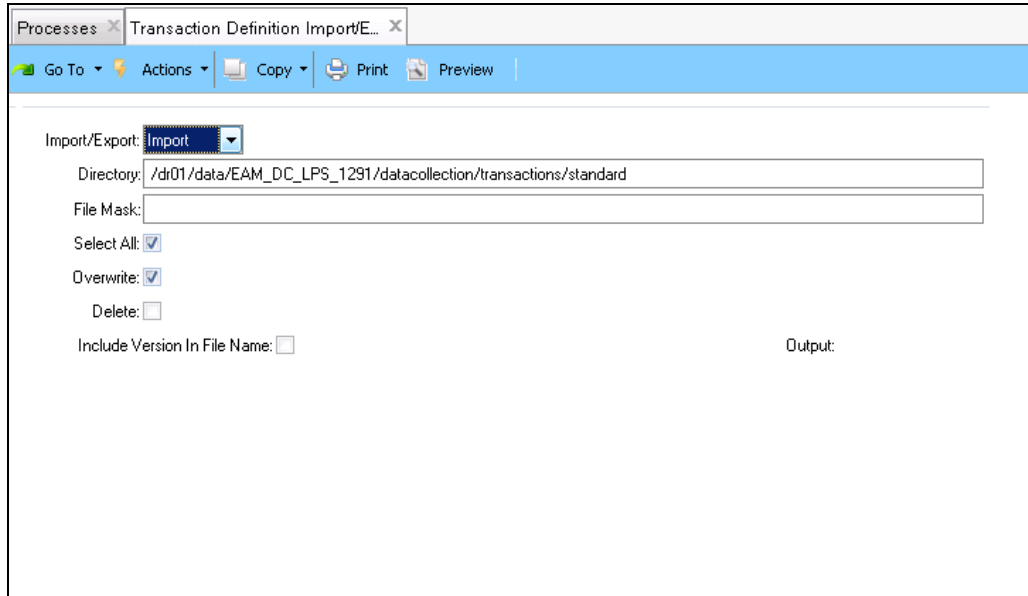
Fig. A.6
Process Category Import/Export - Output



8 Open Transaction Definition Import/Export (6.23.4) and enter the following information to import the EAM DC transaction XML files located in <Dist Dir>/as-setup/transactions/eam.

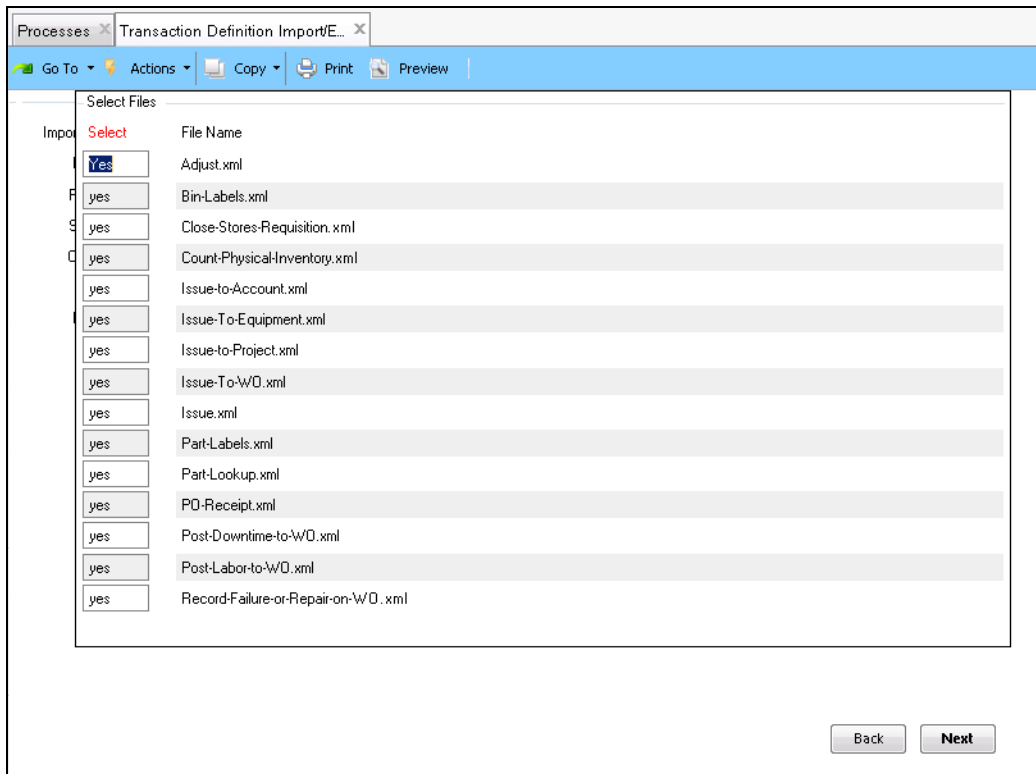
Field	Setting
Import/Export	Import
Directory	Enter the full path to the folder that contains the transaction files, such as "Issue-to-Equipment.xml".
File Mask	*
Select All	Yes
Overwrite	Yes
Delete	No
Include Version in File Name	No

Fig. A.7
Transaction Definition Import/Export



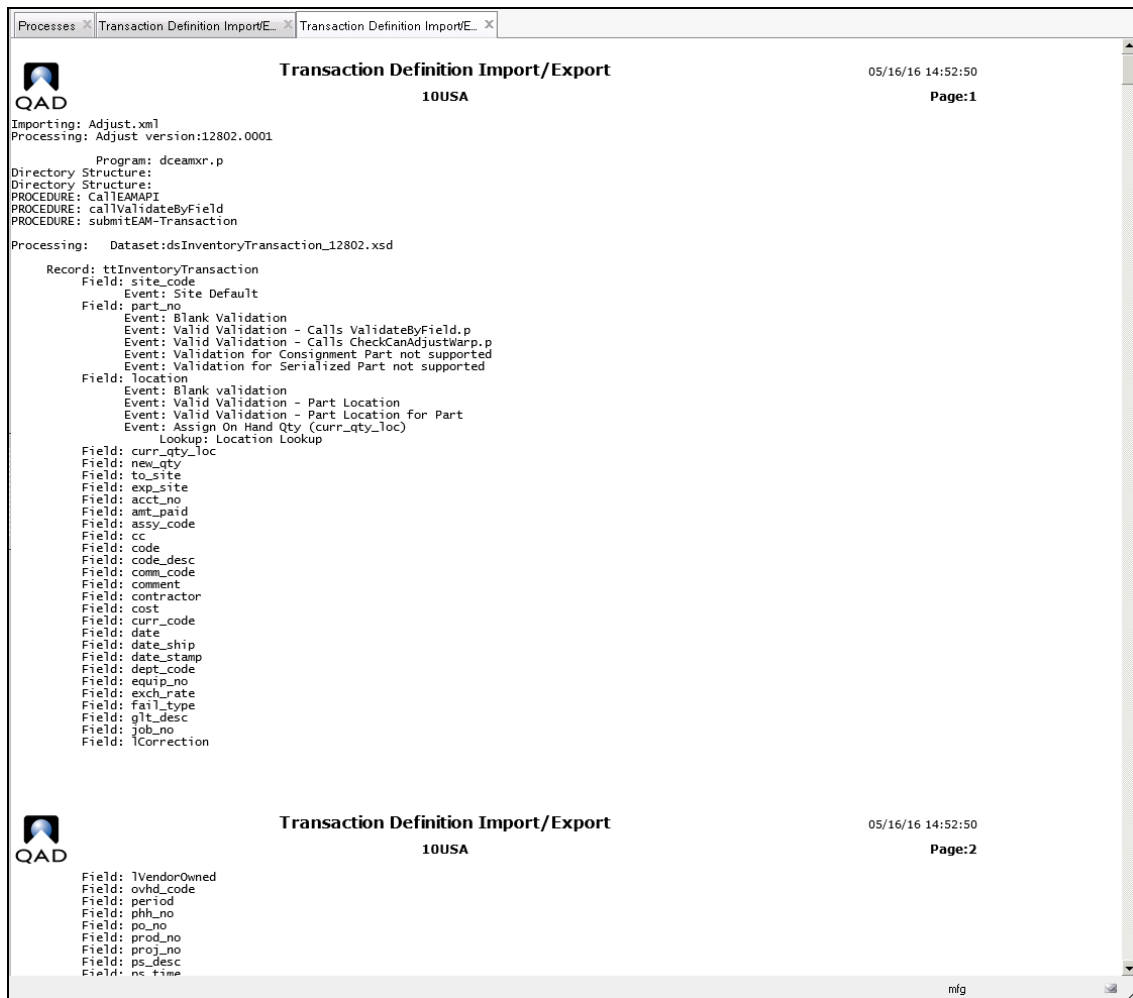
9 Click Next. The Select Files frame is displayed. Click Next.

Fig. A.8
Transaction Definition Import/Export - Select Files



10 Click Next again and output the results to PAGE.

Fig. A.9
Transaction Definition Import/Export - Output



Configure LPS for EAM

- 1 Locate the folders with datasets, templates, and labels that are created when the LMS module is installed. These destinations are useful during the import. For example:

```
/test/lps/templates
```

```
/test/lps/datasets
```

```
/test/lps/output
```

- 2 Copy the datasets from the `.../as-setup/labels/datasets/eam` folder to the datasets folder found in step 1.
- 3 Copy the templates from the `.../as-setup/labels/templates/eam` folder to the templates found in step 1.
- 4 If using Software, copy the following files to the Software server machine:

```
../as-setup/labels/loftwarelabelfiles/eam/EAMLocationDefault.lwl
```

```
../as-setup/labels/loftwarelabelfiles/eam/EAMPartDefault.lwl
```

- 5 Log in to QAD ERP and use the following programs to configure various LPS-related settings:
- Label Config Import/Export (36.13.16.16.4)
 - Import (ALL): set directory to `../as-setup/labels/configuration/eam/labelinfo`
 - Import (Printer Only): set directory to `../as-setup/labels/configuration/eam/printer`
 - Import (Format only): set directory to `../as-setup/labels/configuration/eam/format`
 - Label Printer Connection Maint (36.13.16.1.1)
 - Label Printer Syntax Type Maint (36.13.16.1.2)
 - Printer Model Maintenance (36.13.16.1.3)
 - Print Queue Maintenance (36.13.16.1.4)
 - Label Printer Maintenance (36.13.16.1.5)
 - Label Template Maintenance (36.13.16.1.7)
 - Label Format Maintenance (36.13.16.1.9)
 - Label Content Routing Config (36.13.16.1.16)

Product Information Resources

QAD offers a number of online resources to help you get more information about using QAD products.

[QAD Forums \(community.qad.com\)](https://community.qad.com)

Ask questions and share information with other members of the user community, including QAD experts.

[QAD Knowledgebase \(knowledgebase.qad.com\)*](https://knowledgebase.qad.com)

Search for answers, tips, or solutions related to any QAD product or topic.

[QAD Document Library \(documentlibrary.qad.com\)](https://documentlibrary.qad.com)

Get browser-based access to user guides, release notes, training guides, and so on; use powerful search features to find the document you want, then read online, or download and print PDF.

[QAD Learning Center \(learning.qad.com\)*](https://learning.qad.com)

Visit QAD's one-stop destination for all courses and training materials.

*Log-in required

