



QAD Enterprise Applications
Enterprise Edition

Install Guide
QAD Automation Solutions:
Label Printing Services

Introduction
Label Printing Services Package Installation

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QAD Inc.

100 Innovation Place
Santa Barbara, California 93108
Phone (805) 566-6000
<http://www.qad.com>

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Label Printing Services Install Guide Change Summary

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

Date/Version	Description	Reference
May 2018/Label Printing Services 3.0-Rev1	Added Pre-Installation Tasks to Installing LPS using YAB section	page 4
	Added Downloading the Installation Package to the Installing LPS Using YAB section	page 4
	Added instructions for QDT installation	page 5
March 2018/Label Printing Services 3.0	Rebranded for 3.0.	--
	Removed instructions for QDT installation and for uninstalling	--
	Removed instructions to download and extract the package.	--
	Updated post-installation tasks to reflect the current installation procedure.	page 8
	Added instructions to load field help, import labels and configurations, and load artifacts.	page 9 page 10
November 2016/Label Printing Services 3.0-Rev1	Added text to clarify which installation process requires compiling SAQ programs after you install LPS	--
September 2016/Label Printing Services 3.0	Rebranded for 3.0	--
	Revamped installation chapter 2 so that the format follows the installation flow for other Automation Services products.	--
	Added a section that tells you how to create directories for Label Printing Services to use after you install.	page 9
March 2016/Label Printing Services version 2.0	Revised the Installation Procedure, adding sections using YAB and QDT.	
	Added new chapter Label Printing Services Package Uninstallation	page 13
April 2015/Label Printing Services version 1.2	Rebranded for Label Printing Services 1.2	---
	Minor revisions	---
	Added a section that describes the tasks to preform if the new LPS package contains schema changes	
December 2014/Label Printing Services version 1.1.30.0	Rebranded for Label Printing Services 1.1.30.0	---
	Added a step to installation procedure to verify that the XPath dependencies point to the correct directory	

Date/Version	Description	Reference
April 2014/Label Printing Services version 1.1.20.0	Rebranded for Label Printing Services 1.1.20.0	---
March 2014/Label Printing Services version 1.1.14.0	Minor revisions	---
	Revised Installation Procedure	
November 2013/Label Printing Services version 1.0	Not applicable. Initial release of guide	---

Introduction

This chapter discusses Label Printing Services installation topics:

Overview 2

Describes the chapter contents.

Requirements 2

Describes system and software prerequisites you must meet before installing Label Printing Services.

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 Label Printing Services installation requirements, the installation package, and pre-installation preparations.

Requirements

The following sections describe the software and environment and other requirements for Label Printing Services installation.

Software and Environment

You must have the following software and environment to install Label Printing Services software:

- 2016 Enterprise Edition and above
- .NET UI 2.9.5 + CP2 (Cumulative Patch #2)
- Java Runtime Environment (JRE) 1.6 or above
- Progress 11.6 and above
- YAB 1.6 or above

Installation Package

QAD provides the following Label Printing Services installation component: Label Printing Services package (includes schema, data, and source code).

Patches and Customized Programs

The Label Printing Services 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.

Label Printing Services Package Installation

This chapter describes QAD Label Printing Services package installation and post-installation configuration.

Overview 4

Provides an overview of the installation process.

Installing Label Printing Services Using YAB 4

Provides instructions to install Label Printing Services using YAB.

Installing Label Printing Services Using QDT 5

Provides instructions to install Label Printing Services using QDT.

Post-installation Tasks 8

Describes Label Printing Services configuration following installation.

Overview

The following sections describe how to install the QAD Automation Solutions: Label Printing Services package and how to configure the product after installation.

Depending on the version of Enterprise Edition that is installed, you install QAD Automation Solutions: Label Printing Services 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 Label Printing Services Using YAB” on page 4.
2015EE or before	On Premise	QDT	See “Installing Label Printing Services Using QDT” on page 5.
2015EE or later	Cloud	YAB	For information about installing Label Printing Services in a Cloud environment, please contact QAD Cloud Operations.

Installing Label Printing Services Using YAB

Pre-installation Tasks

Important This section only applies when you install Label Printing Services using YAB.

- 1 Choose one of the following:
 - a Back up your databases and supporting environments. To back up all databases, execute the command:
`yab database-backup`
 - b 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: Label Printing Services using YAB.

Follow these steps to download the QAD Automation Solutions: Label Printing Services installation package:

- 1 Download the add-on .zip file from the QAD Store or from QAD Release Fulfillment.
Example `as-label-print-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.
<InstallDir>

Installation Procedure

Important This section only applies when you install Label Printing Services using 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.

Note For more information about using YAB, refer to the Installation Guide for your Enterprise Edition version.

Follow these steps to install Label Printing Services using YAB:

- 1 Change to the directory where EE is installed:

```
cd <directory>
```

- 2 Add the packages to the environment:

```
yab -i:<path to packages>/as-label-print-<version Number>.zip
```

For example:

```
yab -i:<path to packages>/as-label-print-3.0.0.0.zip
```

- 3 Update the configuration.properties file:

```
packages.as-label-print=3.0.0.0
```

Note Remove references to any prior/earlier Label Print schema and framework versions within the YAB configuration properties files. The schema is now 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:

```
label-print=
```

```
label-print-schema=
```

```
label-print-encrypted=
```

```
label-print-unencrypted=
```

```
as-label-print*service-pack=
```

- 4 Update the environment.

```
yab update
```

- 5 Proceed to Post-installation Tasks.

Installing Label Printing Services Using QDT

Pre-installation Tasks

Important Follow these steps only when you install Label Printing Services using QDT.

- 1 Back up your databases and supporting environments.
- 2 Note the installation locations for the following:

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- 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.

Example

(NETUI),(QXTEND),(MSW/PSW),(WMS),CORE (including BBI, FIN, QRA, and so on),
(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: Label Printing Services using QDT.

Note The QAD Automation Solutions: Label Printing Services 3.0.0 packages can be downloaded from the QAD Store or QAD Release Fulfillment.

- For environments where Label Printing Services *is not installed*, use package `as-label-print-qdt-installer-xx.xx.xx.zip`.
- For environments where Label Printing Services *is installed*, use the upgrade package `as-label-print-qdt-upgrade-installer-x.x.x.x.zip`. The `as-label-print-qdt-upgrade-installer-x.x.x.x.zip` upgrade package will upgrade Label Printing Services from versions 2.0.0 and 2.0.1 to version 3.0.0.

Follow these steps to download and extract the Label Printing Services 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-label-print-qdt-installer-xx.xx.xx.zip`

`as-label-print-qdt-upgrade-installer-x.x.x.x.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.

<InstallDir>

Installing Label Print Services

Important This section only applies if you are installing QAD Automation Solutions: Label Printing Services using QDT.

The QAD Automation Solutions: Label Printing Service 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: Label Printing Services 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 Verify 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
```

When 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 Verify 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; for example, enter:

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

Verify 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 by entering:

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

- 4 Shut down any virus protection programs.
- 5 Change to the installation's install directory by entering:

```
cd <InstallDir>
```

- 6 Extract the contents of the installation file:

- a Extract the contents of the installation package:

Example Unzip as-label-print-qdt-installer-xx.xx.xx.zip or as-label-print-qdt-upgrade-installer-x.x.x.x.zip.

- b Extract the contents of data.zip:

Example Unzip data.zip.

- 7 Keep your environment running and enter the Linux/UNIX commands in this step.

Note The commands may take 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.

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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, set `$ENV` as follows:

```
export ENV=prodenv
```

- c When 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.

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

- d When 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.

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/qea/qxtend
```

Example A 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
```

- 8 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.

- 9 Proceed to Post-installation Tasks.

Post-installation Tasks

The Label Printing Services post-installation tasks consist of the following:

- Locate Artifacts
- Merging Existing Patches and Customizations (QAD patch changes, customizations, and other changes)
- Creating Directories
- Loading Field Help
- Importing Labels and Configurations

Locate Artifacts

The Label Printing Services artifacts can be found at:

```
<DIST_DIR>/as-setup
```

If the directory is not available, it can be found in the package contents under:

```
../build/catalog/packages/as-label-print/nn/nn/nn/nn.
```

This directory contains the label printing version file (version.lps), field help, printer configurations, and so on.

Merging Existing Patches and Customizations

The Label Printing Services 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.

Creating Directories

After installation, you create LPS directories for QAD Label Printing Services to use. Create the following `lps` directories at the same level as the `mfgpro` installation:

- output
- datasets
- templates

Example

```
lps
lps/output
lps/datasets
lps/templates
```

Important For print and write privileges for the directories, set the mode as `777`.

Loading Field Help

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 `lps-fieldhlp.fhd`.

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The LPS help data file is located in the <Dist Dir>/as-setup folder. Please note that there is 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 lps-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.

Importing Labels and Configurations

- 1 Locate the folders datasets, templates, and labels, which you created earlier. These destinations will be useful during the import. Examples:
 - lps/templates
 - lps/datasets
 - lps/output
- 2 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/lps/labelinfo
 - Import (Printer Only) : set directory to:
../as-setup/labels/configuration/lps/printer
 - Import (Format only) : set directory to:
../as-setup/labels/configuration/lps/format

Note The directory being specified to import from must contain the full path to the directory.