



QAD Enterprise Applications  
Enterprise Edition

**Install Guide**  
**QAD Automation Solutions:**  
**Label Printing Services**  
**Version 2.0.1.SP1**

Introduction

QAD Automated Solutions: Label Printing Services Package Installation  
QAD Automation Solutions: Label Printing Services Package Uninstallation

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# QAD Automation Solutions: Label Printing Services Install Guide Change Summary

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

<b>Date/Version</b>	<b>Description</b>	<b>Reference</b>
August 2017/QAD Automation Solutions: Label Printing Services 2.0.1.SP-Rev1	Clarified YAB installation instructions for QAD Automation Solutions: Label Printing Services when dealing with specific versions of YAB	page 8
	Changed references from Label Printing Services to QAD Automation Solutions: Label Printing Services	--
November 2016/Label Printing Services 2.0.1.SP1	Branded for 2.0.1.SP1	--



# Introduction

This chapter discusses QAD Automated Solutions: Label Printing Services installation topics:

**Overview 2**

Describes the chapter contents.

**Requirements 2**

Describes system and software prerequisites you must meet before installing QAD Automated Solutions: Label Printing Services.

**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 QAD Automated Solutions: 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 QAD Automated Solutions: Label Printing Services installation.

## Software and Environment

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

- 2015 Enterprise Edition and above
- .NET UI 2.9.5 + CP2 (Cumulative Patch #2)
- Java Runtime Environment (JRE) 1.6 or above
- Progress 10.2B06 and above
- QAD Automated Solutions: Label Printing Services version 2.0.1 installed

## Unzip Utilities

QAD's 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 creation of a .zip file 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 QAD Automated Solutions: Label Printing Services installation components:

- Generic module installer
- Label Printing Services package (includes schema, data, and source code)

## Patches and Customized Programs

The QAD Automated Solutions: 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.

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# QAD Automated Solutions: Label Printing Services Package Installation

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

## **Overview 6**

Provides an overview of the installation process.

## **Pre-Installation Tasks 6**

Provides step-by-step instructions for backing up your environments and performing other tasks when you install using YAB and QDT,

## **Installation Procedure 7**

Provides step-by-step instructions to download and extract the QAD Automated Solutions: Label Printing Services package, install on a 2015EE and 2016EE environment using the YAB tool, and install on a Linux/UNIX character environment using QDT.

## Overview

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

Depending on the version of Enterprise Edition that you use, you install QAD Automated Solutions: Label Printing Services using either QDT or YAB. See the following table to determine which installation method you use:

**Table 2.1** Installation Method

EE Version	On-Premise or Cloud Installation	QDT or YAB	Notes
2016EE or later	On Premise	YAB	
2015EE	On Premise	QDT	
2015EE or later	Cloud	YAB	For information on installing QAD Automated Solutions: Label Printing Services in a Cloud environment, please contact QAD Cloud Operations.

## Pre-Installation Tasks

As part of pre-installation, you perform the following:

- Installations Using QDT
- Installations Using YAB

### Installations Using QDT

**Important** Follow these steps only when you install QAD Automated Solutions: Label Printing Services 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.

**Example**

(NETUI),(QXTEND),(MSW/PSW),(WMS),CORE (including BBI, FIN, QRA, and so on), (CONFIGURATOR),(CRM)

Products within the parenthesis ( ) indicate optional core products.

## Installations Using YAB

**Important** This section only applies when you install QAD Automated Solutions: 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 Back up a specific database, execute the command:
 

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

When you upgrade QAD Automated Solutions: Label Printing Services from a version earlier than 2.0.1 and you use 2016 EE, you must first uninstall the label print schema. Refer to “QAD Automation Solutions: Label Printing Services Package Uninstallation” on page 11.

## Installation Procedure

To install you must download and extract the QAD Automated Solutions: Label Printing Services package; then, you follow the correct installation method for your environment and version (see Table 2.1 on page 6):

### Downloading and Extracting Installation Package

**Important** Follow this procedure whether you install QAD Automated Solutions: Label Printing Services using YAB or QDT.

**Note** The Label Print 2.0.1 packages—which you download from the QAD Store or QAD Release Fulfillment—have been repackaged and are different from earlier QAD Automated Solutions: Label Printing Services versions. The version 2.0.1 package contains all applicable packages for a released version of QAD Automated Solutions: Label Printing Services, including installation packages for upgrades from various previous QAD Automated Solutions: Label Printing Services versions. This package contains all QDT upgrade packages as well as the packages for YAB. Please refer to the README.docx that is included in the package and accessible once you unzip files.

Follow these steps to download and extract the QAD Automated Solutions: Label Printing Services installation package:

- 1 Download the add-on .zip file from the QAD Store or from QAD Release Fulfillment.
 

**Example** label-print-2.0.1.0.zip
- 2 Extract the contents of the downloaded file.
 

**Example** Unzip label-print-2.0.1.0.zip, which contains data.zip.
- 3 Extract the contents of data.zip.
 

**Example** Unzip data.zip, which contains the README.docx file and multiple package files.

Refer to the README.docx file to determine the required file(s) for your environment.

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**Important** If this is a QAD Automated Solutions: Label Printing Services upgrade using the QDT installer, extract the contents of the QDT upgrade zip file that you selected to know the `**-installer-vm-n.n.n.n.zip` file to use for the installation.

**Example** Unzip `label-print-qdt-upgrade-1.2.0-or-2.0.0-to-2.0.1.zip`, which contains `label-print-qdt-upgrade-encrypted-installer-vm-2.0.1.202.zip`.

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

**Example** `<InstallDir>`

### Installing Using YAB

**Important** Follow this procedure when installing QAD Automated Solutions: Label Printing Services on 2015EE or 2016EE using YAB. *When installing on 2016 EE 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. Refer to the QAD Enterprise Edition Installation Guide for more information about using YAB.

Follow these steps to install QAD Automated Solutions: 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>/label-print-schema-2.0.1.0.zip
```

```
yab -i:<path to packages>/label-print-encrypted-2.0.1.0.zip
```

For example:

```
yab -i:/dr01/installs/data-collection-schema-2.0.1.0.zip
```

```
yab -i:<path to packages>/label-print-encrypted-2.0.1.0.zip
```

- 3 Update the `configuration.properties` file:

```
packages.label-print-schema=2.0.1.0
```

```
packages.label-print-encrypted=2.0.1.0
```

**Note** When you are upgrading and the YAB version is less than 1.3, then current QAD Automated Solutions: Label Printing Services version must also be specified in the `configuration.properties` file.

```
lps.version.upgrade=<version upgrading from>
```

Select the applicable version values to insert within the angle brackets `<>`: 1.1.14, 1.1.23, 1.2.0, or 2.0.0.

For example:

```
lps.version.upgrade=2.0.0
```

When the YAB version is greater than or equal to 1.3, you must not specify the `(lps.version.upgrade)` parameter.

- 4 Update the environment.

```
yab update
```

## Installing Using QDT

**Important** Follow these steps to install the QAD Automated 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 label-print-qdt-upgrade-encrypted-installer-vm-2.0.0.0.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:

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*\$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, 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.

# QAD Automation Solutions: Label Printing Services Package Uninstallation

This chapter describes QAD Automated Solutions: Label Printing Services package uninstallation.

**Overview 12**

Provides an overview of the uninstallation process.

**Uninstallation Procedure 12**

Provides step-by-step instructions for QAD Automated Solutions: Label Printing Services uninstallation.

## Overview

This chapter describes the process for removing QAD Automated Solutions: Label Printing Services installed components from a QDT environment. Be sure to follow the instructions step-by-step.

## Uninstallation Procedure

- 1 Log on to the server using the user account that is used for QAD EE installation and system administration.
- 2 Shut down the environment.
- 3 For live QADDB:
  - a Back up the database.
  - b Dump the data from the database LPS Database Sequence, LPS Setup, and LPS Transaction tables (only if the data must be maintained for compliance purposes). Refer to the appropriate sections in this chapter for the table list.
  - c If the tables are frozen, you must unfreeze them before dropping them. Run the following from Progress Editor:

```
for each _file where _file-number > 0 and _file-number < 32768:
  assign _frozen = no.
end.
```

- d Delete the old schema by loading the schema file to drop the unnecessary tables / fields / sequences from qaddb. This file is not included in the install bundle. The lpsdrop.df content is provided in this chapter. Copy this to lpsdrop.df and save it in a directory that is accessible from the QAD ERP environment. You can apply the schema by launching the Progress Data Dictionary and connecting to the QADDB.
- e Validate that the sequences are dropped. Previous installations have failed because lblEngRequestID and lblEngLabelID were not removed. Review the sequence definitions using the DataDictionary while connected to the live qaddb.
- f Delete the label-print record from the schemaset\_versions table in qaddb. This requires manual connection of a Progress session to the qaddb and deletion of the schemaset\_versions record for package\_class "label-print".
- g Since the tables are unfrozen, you must freeze them before proceeding with the fresh install. Run the following from the Progress Editor:

```
for each _file where _file-number > 0 and _file-number < 32768:
  assign _frozen = yes.
end.
```

**4** For empty QADDB (mfgempty):

- a** Back up the database.
- b** Dump the data from the database LPS Database Sequence, LPS Setup, and LPS Transaction tables (only if you must maintain the data for compliance purposes). Refer to the appropriate sections of this chapter for the table list.
- c** If the tables are frozen, you must unfreeze them before dropping them. Run the following from the Progress Editor:

```
for each _file where _file-number > 0 and _file-number < 32768:
  assign _frozen = no.
end.
```

- d** Delete the old schema by loading the schema file to drop the unneeded tables / fields / sequences from the qaddb (this file is not included in the install bundle). You can do this by launching the Progress Data Dictionary and connecting to the QADDB. Refer to “” on page 13.
- e** Validate that the sequences are dropped. Previous installations have failed because lblEngRequestID and lblEngLabelID were not removed. Review the sequence definitions using the DataDictionary while connected to the live qaddb.
- f** Delete the label-print record from the schemaset\_versions table in mfgempty. This requires manual connection of a Progress session to the qaddb and deletion of the schemaset\_versions record for package\_class “label-print”.
- g** Since the tables are unfrozen, you must freeze them before proceeding with the fresh install. Run the following from the Progress Editor:

```
for each _file where _file-number > 0 and _file-number < 32768:
  assign _frozen = yes.
end.
```

**5** Optional: Delete sources. <root>/xrc/us/lb/\*

**6** Optional: Delete rcode <install\_root>/us/lb.

**7** Optionally, remove the browse collection (if it exists):

```
<tomcat_root>/qadhome/**/211f354a-5e15-4430-9b8f-8c0ff4c88cc0.bc.xml
<tomcat_root>/qadhome/**/8061ed8f-a2db-4384-a68f-5239c75726b4.bc.xml
<tomcat_root>/qadhome/**/a22c5bb6-8551-4a45-affc-1d50796f66f2.bc.xml
<tomcat_root>/qadhome/**/dfad8824-bfbd-474d-897f-7c4b7499e466.bc.xml
```

**8** Finally, restart the environment so that the QAD Automated Solutions: Label Printing Services installation will complete quickly.



# 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)

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