



QAD Enterprise Applications
Enterprise Edition

Install Guide
QAD Automation Solutions:
Label Printing Services
Version 2.0.1SP2

Introduction

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

This document contains proprietary information that is protected by copyright and other intellectual property laws. No part of this document may be reproduced, translated, or modified without the prior written consent of QAD Inc. The information contained in this document is subject to change without notice.

QAD Inc. provides this material as is and makes no warranty of any kind, expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. QAD Inc. shall not be liable for errors contained herein or for incidental or consequential damages (including lost profits) in connection with the furnishing, performance, or use of this material whether based on warranty, contract, or other legal theory.

This document contains trademarks owned by QAD Inc. and other companies.

Copyright © 2017 by QAD Inc.

LPS_IG_v0201SP2.pdf/crl

QAD Inc.

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

Contents

QAD Automation Solutions: Label Printing Services Install Guide Change Summary	iii
---	------------

Chapter 1 Introduction	1
-------------------------------------	----------

Overview	2
Requirements	2
Software and Environment	2
Unzip Utilities	2
Installation Package	2
Patches and Customized Programs	3

Chapter 2 QAD Automation Solutions: Label Printing Services Package Installation	5
---	----------

Overview	6
Pre-Installation Tasks	6
Installations Using QDT	6
Installations Using YAB	7
Installation Procedure	7
Installation Package Contents	7
Downloading and Extracting Installation Package	7
Installing Using YAB	8
Installing Using QDT	9

Chapter 3 QAD Automation Solutions: Label Printing Services Package Uninstallation	11
---	-----------

Overview	12
Uninstallation Procedure	12

Product Information Resources	15
--	-----------

QAD Automation Solutions: Label Printing Services Install Guide Change Summary

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

Date/Version	Description	Reference
August 2017/QAD Automation Solutions: Label Printing Services 2.0.1.SP2-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.SP2	Branded for 2.0.1.SP2	--

Introduction

This chapter discusses QAD Automation 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 Automation 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 Automation 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 Automation Solutions: Label Printing Services installation.

Software and Environment

You must have the following software and environment to install QAD Automation 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 Automation Solutions: Label Printing Services 2.0.1.x

Where *x* represents all previous releases of 2.0.1 QAD Automation Solutions: Label Printing Services, including any patch releases and service pack version 2.0.1.SP1.

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 Automation Solutions: Label Printing Services installation components:

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

Patches and Customized Programs

The QAD Automation 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.

4 QAD Automation Solutions: Label Printing Services Installation Guide

QAD Automation Solutions: Label Printing Services Package Installation

This chapter describes QAD Automation 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 Automation 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 Automation 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 Automation 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 Automation 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 Automation 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 Automation 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 Automation 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 Automation Solutions: Label Printing Services package; then, you follow the correct installation method for your environment and version (see Table 2.1 on page 6):

Installation Package Contents

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 Automation Solutions: Label Printing Services versions.

The version 2.0.1 package contains all applicable packages for a released version of QAD Automation Solutions: Label Printing Services, including installation packages for upgrades from various previous QAD Automation Solutions: Label Printing Services versions. **So, the 2.0.1 SP2 also contains 2.0.1 SP1.**

The 2.0.1 SP2 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.

For details of the 2.0.1 package contents, refer to the QAD Automation Solutions: Label Printing Services Release Notes for version 2.0.1 Service Pack 2, dated November 2016.

Downloading and Extracting Installation Package

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

- 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.

8 QAD Automation Solutions: Label Printing Services Installation Guide

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.

Important If this is a QAD Automation 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 Automation 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 Automation 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 Automation 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 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 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:

\$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 Automation 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 Automation Solutions: Label Printing Services uninstallation.

Overview

This chapter describes the process for removing label-print 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.
- 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
```


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

