



QAD Enterprise Applications
Enterprise Edition

Install Guide
QAD Automation Solutions:
Label Printing Services

Introduction
Label Printing Services Package Installation
Label Printing Services Package Uninstallation

70-3342-2.0.1-Rev1
Label Printing Services 2.0.1
QAD Enterprise Applications Enterprise Edition
November 2016

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Contents

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	2
Chapter 2 Label Printing Services Package Installation	3
Overview	4
Pre-Installation Tasks	4
Installations Using QDT	4
Installations Using YAB	4
Installation Procedure	5
Downloading and Extracting Installation Package	5
Installing Label Printing Services Using YAB	6
Installing Label Printing Services Using QDT	6
Post-installation Tasks	8
Merging Existing Patches and Customizations	8
Restarting Anti-Virus	8
Creating Directories	9
Compilation of SAQ Code	9
Reload Label Print Data	9
Installation Messages	9
Chapter 3 Label Printing Services Package Uninstallation	13
Overview	14
Uninstallation Procedure	14
LPS Complete Schema	15
Database Sequences	17
Label Setup Tables (as of September 2016)	17
Label Transaction Tables (as of September 2016)	18

Content of lpsdrop.df (as of September 2016) 18

Label Printing Services Install Guide Change Summary

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

Date/Version	Description	Reference
November 2016/Label Printing Services 2.0.1-Rev1	Added text to clarify which installation process requires compiling SAQ programs after you install LPS	page 9
September 2016/Label Printing Services 2.0.1	Rebranded for 2.0.1	--
	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	
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:

- 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

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 Label Printing Services installation components:

- Generic module installer
- 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.

Pre-Installation Tasks 4

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

Installation Procedure 5

Provides step-by-step instructions to download and extract the 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.

Post-installation Tasks 8

Describes Label Printing Services configuration following installation.

Installation Messages 9

Describes the messages that appear during Label Printing Services package installation.

Overview

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

Depending on the version of Enterprise Edition that you use, you install 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 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 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 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 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 “Label Printing Services Package Uninstallation” on page 13.

Installation Procedure

To install you must download and extract the Label Printing Services package; then, you follow the correct installation method for your environment and version (see Table 2.1 on page 4):

Downloading and Extracting Installation Package

Important Follow this procedure whether you install 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 Label Printing Services versions. The version 2.0.1 package contains all applicable packages for a released version of Label Printing Services, including installation packages for upgrades from various previous 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 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.

Important If this is a 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 Label Printing Services Using YAB

Important Follow this procedure when installing 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 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-colelction-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 a 2015 environment, the current Label Printing Services version must also be specify 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
```

- 4 Update the environment.

```
yab update
```

- 5 Proceed to Post-installation Tasks.

Installing Label Printing Services Using QDT

Important Follow these steps to install the 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=
```

8 QAD Label Printing Services Installation Guide

`$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:

- Merging QAD patch changes, customizations, and other changes
- Restarting anti-virus protection
- Creating directories
- Compilation of SAQ code
- Reload Label Print Data

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.

Restarting Anti-Virus

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

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:

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

Important For print and write privileges for the directories, set the `lps/output` as `777`.

Table 2.2
Directory Creation Examples

Installation Environment	LPS Directory to Create
<code>/dr01/qadapps/qa</code> is <code>mfgpro</code> install in QPC env	<code>/dr01/qadapps/lps</code>
<code>/qond/apps/mfgpro</code> on Cloud	<code>/qond/apps/lps</code>

Compilation of SAQ Code

Because the QAD SAQ module (Serialization, Item Attributes, and Quality Control) uses Label Printing Services, it is important that you compile `us/pa/* .p` programs after you install Label Printing Services using QDT.

Note You do not need to compile the programs when you install Label Printing Services using YAB.

Reload Label Print Data

When the installation requires the uninstall of Label Printing Services, you reload the saved `.d` files that the system creates during the uninstall process into the Label Printing Services tables and database sequences. Refer to “Label Printing Services Package Uninstallation” on page 13 for a complete list of the LPS tables and database sequences.

Installation Messages

During Label Printing Services package installation, messages similar to the following are displayed.

Update Empty DB:

```
190856 [main] WARN ANT: Update Empty DB...
```

```
190917 [main] INFO ANT: Loading
/tmp/qpm.root/b09f742f13d74ce79470c12b91c722f9/staging/packages/netui-
module-datacollection-schema/2/2/0/34935/custom/schema/qadddb/delta.df
into database
```

Update Live DB:

```
229940 [main] WARN ANT: Update Live DB...
```

10 QAD Label Printing Services Installation Guide

```
229941 [main] INFO ANT: Loading
/tmp/qpm.root/b09f742f13d74ce79470c12b91c722f9/staging/packages/netui-
module-datacollection-schema/2/2/0/34935/custom/schema/qaddb/delta.df
into database
```

Copy source code:

```
972633 [main] INFO ANT: Target copy-files started.
972667 [main] INFO ANT: Copying 1715 files to /dr01/qadapps/qea/xrc
```

Compile file:

```
984191 [ad 1] INFO ANT: INFO - Thread 1: Starting compile ...
1200013 [main] INFO ANT: INFO - 1,109 file(s) processed, 1,109
successfully compiled, 0 skipped, 0 failed
```

Copy browse collection:

```
1200400 [main] INFO ANT: Target browse-collection started.
1200445 [main] INFO ANT: Target make-excludes-file started.
1200447 [main] INFO ANT: Target make-excludes-file ended.
1200447 [main] INFO ANT: Target copy-files started.
1200450 [main] INFO ANT: Copying 77 files to
/dr01/tomcat/8080/webapps/qadhome/configurations/qadui/storage/browse-
collections
```

Copy menu collection:

```
1200833 [main] INFO ANT: Target menu-collection started.
1200864 [main] INFO ANT: Target make-excludes-file started.
1200865 [main] INFO ANT: Target make-excludes-file ended.
1200865 [main] INFO ANT: Target copy-files started.
1200865 [main] INFO ANT: Copying 5 files to
/dr01/tomcat/8080/webapps/qadhome/configurations/qadui/storage/menu-
collections
```

Copy custom browse:

```
1200902 [main] INFO ANT: Target mkdt-copy-files started.
1200953 [main] INFO ANT: Target make-excludes-file started.
1200953 [main] INFO ANT: Target make-excludes-file ended.
1200953 [main] INFO ANT: Target copy-files started.
1200956 [main] INFO ANT: Copying 160 files to /dr01/qadapps/qea/qadui
```

Copy process map:

```
1201514 [main] INFO ANT: Target process-map started.
1201546 [main] INFO ANT: Target make-excludes-file started.
```


Label Printing Services Package Uninstallation

This chapter describes QAD Label Printing Services package uninstallation.

Overview 14

Provides an overview of the uninstallation process.

Uninstallation Procedure 14

Provides step-by-step instructions for Label Printing Services uninstallation.

LPS Complete Schema 15

Provides a listing of the LPS complete schema.

Database Sequences 17

Provides a listing of the database sequences.

Label Setup Tables (as of September 2016) 17

Provides a listing of the LPS setup tables.

Label Transaction Tables (as of September 2016) 18

Provides a listing of the label transaction tables.

Content of lpsdrop.df (as of September 2016) 18

Provides a listing of the lpsdrop.df file.

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 qadddb (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 “LPS Complete Schema” on page 15.
- 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 qadddb.
- f** Delete the label-print record from the schemaset_versions table in mfgempty. This requires manual connection of a Progress session to the qadddb 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 LPS installation will complete quickly.

LPS Complete Schema

- funcParam
- labelApp
- labelAppCfg
- labelConDet
- labelConType
- labelDet
- labelDSSrc
- labelDSVer
- labelFmtDet
- labelFormat
- labelFunc

- labelMap
- labelMstr
- labelPrntQue
- labelPrtrDet
- labelReprint
- labelRtCfgD
- labelRteCfg
- labelRtSetDt
- labelRtSetup
- lblSetPrtRt
- lblSetPrtRtD
- lblCfgPrtRt
- lblCfgPrtRtD
- labelSyntTyp
- labelTplt
- labelToken
- labelVar
- mapConstant
- mapDet
- mapDFuncParm
- multiLblReq
- printerModel
- printQueue
- printSrvrCtl
- requestHist
- requestHstRsp
- responseHstD
- sourceMsg
- lbCritVals
- lbEvntFld
- lbEvntPrc
- lbEvntWkfl
- lbGrp
- lbGrpTypes
- lbEvent
- lbTypes

Database Sequences

- lblEngRequestID , LblEngLabelID

Label Setup Tables (as of September 2016)

- funcParam
- labelApp
- labelAppCfg
- labelConDet
- labelConType
- labelDSSrc
- labelDSVer
- labelFmtDet
- labelFormat
- labelFunc
- labelMap
- labelPrtrDet
- labelRtCfgD
- labelRteCfg
- labelRtSetDt
- labelRtSetup
- lblSetPrtRt
- lblSetPrtRtD
- lblCfgPrtRt
- lblCfgPrtRtD
- labelSyntTyp
- labelTplt
- labelToken
- labelVar
- mapConstant
- mapDet
- mapDFuncParm
- multiLblReq
- printerModel
- printQueue
- printSrvrCtl
- lbCritVals
- lbEvntFld

- lbEvtPrc
- lbEvtWkfl
- lbGrp
- lbGrpTypes
- lbEvent
- lbTypes

Label Transaction Tables (as of September 2016)

- requestHist
- labelMstr
- labelDet
- responseHstD
- requestHstRsp
- sourceMsg
- labelReprint
- labelPrntQue

Content of Ipsdrop.df (as of September 2016)

- DROP SEQUENCE "lblEngRequestID"
- DROP SEQUENCE "LblEngLabelID"
- DROP TABLE "funcParam"
- DROP TABLE "labelApp"
- DROP TABLE "labelAppCfg"
- DROP TABLE "labelConDet"
- DROP TABLE "labelConType"
- DROP TABLE "labelDet"
- DROP TABLE "labelDSSrc"
- DROP TABLE "labelDSVer"
- DROP TABLE "labelFmtDet"
- DROP TABLE "labelFormat"
- DROP TABLE "labelFunc"
- DROP TABLE "labelMap"
- DROP TABLE "labelMstr"
- DROP TABLE "labelPrntQue"
- DROP TABLE "labelPrtrDet"
- DROP TABLE "labelReprint"
- DROP TABLE "labelRtCfgD"
- DROP TABLE "labelRteCfg"

- DROP TABLE "labelRtSetDt"
- DROP TABLE "labelRtSetup"
- DROP TABLE "lblSetPrtRt"
- DROP TABLE "lblSetPrtRtD"
- DROP TABLE "lblCfgPrtRt"
- DROP TABLE "lblCfgPrtRtD"
- DROP TABLE "labelSyntTyp"
- DROP TABLE "labelTmpl"
- DROP TABLE "labelToken"
- DROP TABLE "labelVar"
- DROP TABLE "mapConstant"
- DROP TABLE "mapDet"
- DROP TABLE "mapDFuncParm"
- DROP TABLE "multiLblReq"
- DROP TABLE "printerModel"
- DROP TABLE "printQueue"
- DROP TABLE "printSrvrCtl"
- DROP TABLE "requestHist"
- DROP TABLE "requestHstRsp"
- DROP TABLE "responseHstD"
- DROP TABLE "sourceMsg"
- DROP TABLE "lbCritVals"
- DROP TABLE "lbEvntFld"
- DROP TABLE "lbEvntPrc"
- DROP TABLE "lbEvntWkfl"
- DROP TABLE "lbGrp"
- DROP TABLE "lbGrpTypes"
- DROP TABLE "lbEvent"
- DROP TABLE "lbTypes"

