Sterling Commerce
An IBM Company

Networked Warehouse Management System PCA

Installation Guide

Release 7.5

July 2007

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Contents

Preface

This manual explains how to install the Sterling Networked Warehouse Management System PCA and related components, and verify that the installation is successful. It also contains information about the prerequisites for new installation actions.

Intended Audience

This manual provides installation and administration information for individuals responsible for installing and maintaining the Sterling nWMS PCA.

Structure

This document contains the following chapters:

Chapter 1, "Getting Started"

This chapter lists the prerequisites for installing the Sterling nWMS PCA.

Chapter 2, "Installing the Sterling nWMS PCA"

This chapter explains how to install the Sterling nWMS PCA on each operating system supported by the Sterling Supply Chain Applications. This chapter also explains how to uninstall the Sterling nWMS PCA.

Chapter 4, "Installing the Database Components"

This chapter explains how to load the database for the Sterling nWMS PCA.

Chapter 5, "Installing the Reference Implementation"

This chapter explains how to install the Sterling nWMS PCA Reference Implementation data.

Chapter 8, "Verifying the Installation"

This chapter explains how to verify that the Sterling nWMS PCA and its components have been installed correctly.

Sterling nWMS PCA Documentation

For more information about the Sterling Networked Warehouse Management System PCA® (Sterling nWMS PCA®) components, see the following manuals in the Sterling nWMS PCA® documentation set:

- *Sterling Networked Warehouse Management System PCA® Release Notes*

- *Sterling Networked Warehouse Management System PCA® Installation Guide*

- *Sterling Networked Warehouse Management System PCA® Overview*

- *Sterling Networked Warehouse Management System PCA® Implementation Guide*

- *Sterling Networked Warehouse Management System PCA® Reports Guide*

- *Sterling Networked Warehouse Management System PCA® Analytics Guide*

- *Sterling Networked Warehouse Management System PCA® Printed Documents Guide*

- *Sterling Networked Warehouse Management System PCA® Billing Activity Reporting Engine Guide*

- *Sterling Networked Warehouse Management System PCA® Upgrade Guide*

- *Sterling Networked Warehouse Management System PCA® Javadocs*

For more information about the Sterling Supply Chain Applications® components, see the following manuals in the Sterling Supply Chain Applications® documentation set:

- *Sterling Supply Chain Applications® Release Notes*
- *Sterling Supply Chain Applications® Installation Guide*
- *Sterling Supply Chain Applications® Upgrade Guide*
- *Sterling Supply Chain Applications® Performance Management Guide*
- *Sterling Supply Chain Applications® High Availability Guide*
- *Sterling Supply Chain Applications® System Management Guide*
- *Sterling Supply Chain Applications® Localization Guide*
- *Sterling Supply Chain Applications® Customization Guide*
- *Sterling Supply Chain Applications® Integration Guide*
- *Sterling Supply Chain Applications® Product Concepts*
- *Sterling Supply Chain Applications® Warehouse Management System Concepts Guide*
- *Sterling Supply Chain Applications® Platform Configuration Guide*
- *Sterling Supply Chain Applications® Distributed Order Management Configuration Guide*
- *Sterling Supply Chain Applications® Supply Collaboration Configuration Guide*
- *Sterling Supply Chain Applications® Product Management Configuration Guide*
- *Sterling Supply Chain Applications® Logistics Management Configuration Guide*
- *Sterling Supply Chain Applications® Reverse Logistics Configuration Guide*
- *Sterling Supply Chain Applications® Warehouse Management System Configuration Guide*
- *Sterling Supply Chain Applications® Platform User Guide*
- *Sterling Supply Chain Applications® Distributed Order Management User Guide*

- *Sterling Supply Chain Applications® Supply Collaboration User Guide*

- *Sterling Supply Chain Applications® Global Inventory Visibility Configuration Guide*
  Sterling Supply Chain Applications® Logistics Management User Guide

- *Sterling Supply Chain Applications® Reverse Logistics User Guide*

- *Sterling Supply Chain Applications® Warehouse Management System User Guide*

- *Sterling Supply Chain Applications® Mobile Application User Guide*

- *Sterling Supply Chain Applications® Analytics Guide*

- *Sterling Supply Chain Applications® Javadocs*

- *Sterling Supply Chain Applications® Glossary*

- *Sterling Supply Chain Applications® Carrier Server Guide*

- *Sterling Supply Chain Applications® Application Server Installation Guide* (for optional component)

For a description of the various documents in the Sterling nWMS PCA® documentation set, see the Sterling nWMS PCA® Documentation Home Page at:

`<YFS_HOME>/documentation/YNW_doc_home.html`

where `<YFS_HOME>` = `<YANTRA_HOME>/Runtime`

and `<YANTRA_HOME>` is the directory where this PCA and *Sterling Supply Chain Applications®* are installed.

Conventions

The following conventions may be used in this manual:

Convention	Meaning
`. . .`	An ellipsis represents information that has been omitted.
`< >`	Angle brackets indicate user-supplied input.
`mono-spaced text`	Mono-spaced text indicates a file name, directory path, attribute name, or an inline code example or command.

Convention	Meaning
/ or \	Slashes and backslashes are file separators for Windows, UNIX and LINUX operating systems. The file separator for the Windows operating system is "\" and the file separator for Unix and Linux systems is "/". The Unix convention is used unless otherwise mentioned.
<YANTRA_HOME>	User-supplied location of the Sterling Supply Chain Applications installation directory.
<YFS_HOME>	Location of the generated <YANTRA_HOME>/Runtime directory.
<YANTRA_HOME_OLD>	User-supplied location of the Sterling Supply Chain Applications installation directory for previously installed releases. This is only applicable for Release 7.7 or above.
<YFS_HOME_OLD>	This is the <YANTRA_HOME_OLD>/Runtime directory of previously installed releases.

1

Getting Started

This chapter explains the prerequisites for installing the Sterling nWMS PCA.

1.1 Before You Begin

The installation of the Sterling nWMS PCA assumes that you have correctly installed the minimal foundation release as specified in Section 1.2, "Minimum Foundation Requirements". Before installing the Sterling nWMS PCA, you may want to reread the *Sterling Supply Chain Applications Installation Guide* and verify that the Sterling Supply Chain Applications was installed correctly.

> **Note:** If the Sterling Supply Chain Applications Platform is not pre-installed, the installation of the Sterling nWMS PCA terminates.

UNIX Criteria

You can install the Sterling nWMS PCA locally in an X Windows environment or remotely in a text-based console environment.

1.2 Minimum Foundation Requirements

The installation of the Sterling nWMS PCA requires the successful installation of Sterling Supply Chain Applications, Release 7.11, HF12 or higher. For information about the hardware and software requirements for the foundation and this PCA, see the *Sterling Supply Chain Applications Installation Guide*.

1.3 Installation and Runtime Directory Structure

When you install the Sterling nWMS PCA, the following new directories are created in the `<YANTRA_HOME>/Applicatons` directory:

`nWMS`

`nWMS_Add-in`

For more information about the Sterling Supply Chain Applications Installation and runtime directory structure, see the *Sterling Supply Chain Applications Installation Guide*.

2

Installing the Sterling nWMS PCA

This chapter explains how to install the Sterling nWMS PCA on each operating system supported by the Sterling Supply Chain Applications.

2.1 UNIX and Linux Operating Systems

To install the Sterling nWMS PCA on UNIX and Linux:

1. Ensure that there is at least 50 MB of space available for temporary files.

2. Insert the CD-ROM that is appropriate for your operating system into your CD-ROM drive and locate the `setup.bin` file found in the root directory.

3. From the root directory, run the `./setup.bin` command.

4. After the installation is completed, you can check for any errors that may have occurred during the installation process by reviewing the `<YANTRA_HOME>/Applications/nWMS_Distribution_PCA_v7.5_InstallLog.log` file (where `<YANTRA_HOME>` points to the Sterling Supply Chain Applications software installation directory). To locate error notations in the file, search for the string "error", or more specifically, a string such as "STATUS: ERROR".

> **Note:** The following directories are created in the `<YANTRA_HOME>/Applications` directory:
>
> - `nWMS`
>
> - `nWMS_Add-in`

2.2 Windows Operating Systems

To install the Sterling nWMS PCA on Windows:

1. Ensure that there is at least 50 MB of space available for temporary files.

2. Insert the CD-ROM for Windows in your CD-ROM drive. The installer launches automatically. You can also launch the installer manually by using the `setup.exe` command in the root directory.

3. When the installer window opens, follow the directions.

> **Note:** Use the forward slash (/) as a file separator when specifying any file paths.

4. After the installation is completed, you can verify if there were any errors during the installation process by reviewing the `<YANTRA_HOME>/Applications/nWMS_Distribution_PCA_v7.5_Insta llLog.log` file. To locate any notations of errors in this file, search for the string "error".

> **Note:** The following directories are created in the `<YANTRA_HOME>/Applications` directory:
>
> • nWMS
>
> • nWMS_Add-in

2.3 Remote Computers

You can install the Sterling nWMS PCA onto any supported remote UNIX server. You cannot install the Sterling nWMS PCA onto a remote Windows server.

To install the Sterling nWMS PCA on a remote UNIX server:

1. Ensure that the remote machine on which you are installing the Sterling nWMS PCA has at least 50 MB of free disk space.

2. FTP the `setup.bin` file from the CD-ROM to the remote UNIX server.

> **Note:** Typically, if the `setup.bin` file is copied from a
> Windows environment to a UNIX environment, the
> permissions are changed. To ensure that the proper
> permissions are set, run the following command:
>
> `chmod 755 setup.bin`

3. Start the installation procedure using the `./setup.bin -i console`
command and follow the directions in Section 2.1, "UNIX and Linux
Operating Systems".

> **Note:** The following directories are created in the
> `<YANTRA_HOME>/Applications` directory:
>
> - `nWMS`
>
> - `nWMS_Add-in`

2.4 Installing the Language Pack

You can install the language pack for the operating system supported by
the Sterling nWMS PCA. For more information about installing the
language pack, see the *Sterling Supply Chain Applications Installation
Guide*.

2.5 Setting up Database Scripts

This section describes scripts that you need to set up for Oracle, DB2,
and SQL Server databases.

2.5.1 Oracle Databases

These script reside in the
`<YANTRA_HOME>/Applications/nWMS_Add-In/database/oracle/scripts`
directory. The `ynw_master_db_script.sql` script is the master script
that calls all other scripts required for creating tables, indexes, and so
forth

The DDLs in the Sterling nWMS PCA scripts create a standard set of indexes. You may need to create additional indexes or modify existing indexes according to your business practice.

2.5.2 DB2 Databases

Run the `ynw_tables.sql` script located in the `<YANTRA_HOME>/Applications/nWMS_Add-In/database/db2/scripts` directory, using the DB2 command line processor utility as follows:

```
db2 -tvf <filename>
```

These script reside in the `<YANTRA_HOME>/Applications/nWMS_Add-In/database/db2/scripts` directory.

2.5.3 SQL Server Databases

To configure your SQL Server database for your production environment, you must set up and run a master command script and pass parameters to it to create the tables and indexes for your schema.

This script file resides in the `<YANTRA_HOME>/Applications/nWMS_Add-In /database/sqlserver/scripts` directory

2.6 Setting up Reference Implementation Variables

To use the Reference Implementation, first configure the `ynw_ref_variable.properties` file located in the `<YFS_HOME>/resources` directory.

For more information about the organization model, see the *Sterling Networked Warehouse Management System PCA Implementation Guide*.

The variables described in Table 2–1 are used to create participants and users for the Reference Implementation.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
Corporate_Enterprise_Code	Use this variable to define the organization code of the company. The default value of Corporate_Enterprise_Code is XYZ-CORP.
Corporate_Enterprise_Name	Use this variable to define the name of the company. The default value of Corporate_Enterprise_Name is XYZ Corporation.
Corporate_Enterprise_UserId	Use this variable to define the identifier for the user of the company. The default value of Corporate_Enterprise_UserId is xyzuser.
Corporate_Enterprise_UserName	Use this variable to define the name for the user of the company. The default value of Corporate_Enterprise_UserName is XYZ-Corporation User.
Online_Channel_Enterprise_Code	Use this variable to define the organization code of the company's online business channel. The default value of Online_Channel_Enterprise_Code is XYZ-ONLINE.
Online_Channel_Enterprise_Name	Use this variable to define the name of the company's online business channel. The default value of Online_Channel_Enterprise_Name is XYZ Online.
Online_Channel_Enterprise_BillTo_Company_Name	Use this variable to define the bill-to company name. The default value of Online_Channel_Enterprise_BillTo_Company_Name is XYZ Online Financial.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
Online_Channel_Enterprise_Company_Name	Use this variable to define the company name of the online business channel. The default value of Online_Channel_Enterprise_Company_Name is XYZ Online.
Integrated_WMS_RF_Node	Use this variable to define the organization code of the mobile application-based warehouse. The default value of Integrated_WMS_RF_Node is DC1.
Integrated_WMS_RF_Node_Name	Use this variable to define the name of the mobile application-based warehouse. The default value of Integrated_WMS_RF_Node_Name is RF Based DC (DC1).
Integrated_WMS_Paper_Based_Node	Use this variable to define the organization code of the paper-based warehouse. The default value of Integrated_WMS_Paper_Based_Node is DC3.
Integrated_WMS_Paper_Based_Node_Name	Use this variable to define the name of the paper-based warehouse. The default value of Integrated_WMS_Paper_Based_Node_Name is Paper Based DC (DC3).
Non_Integrated_Node	Use this variable to define the organization code of the warehouse that maintains the inventory externally. The default value of Non_Integrated_Node is DC2.
Non_Integrated_Node_Name	Use this variable to define the name of the warehouse that maintains the inventory externally. The default value of Non_Integrated_Node_Name is Distribution Center2.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
RF_Node_Mgr_UserId	Use this variable to define the user identifier for the manager of the mobile application-based warehouse.
	The default value of RF_Node_Mgr_UserId is dc1mgr.
RF_Node_Mgr_UserName	Use this variable to define the user name for the manager of the mobile application-based warehouse.
	The default value of RF_Node_Mgr_UserName is DC1 Manager.
RF_Node_Ent_UserId	Use this variable to define the user identifier for the enterprise user of the mobile application-based warehouse.
	The default value of RF_Node_Ent_UserId is dc1corpuser.
RF_Node_Ent_UserName	Use this variable to define the user name for the enterprise user of the mobile application-based warehouse.
	The default value of RF_Node_Ent_UserName is DC1 Corporate Enterprise User.
RF_Node_Inv_Sup_UserId	Use this variable to define the user identifier for the inventory supervisor of the mobile application-based warehouse.
	The default value of RF_Node_Inv_Sup_UserId is dc1invs.
RF_Node_Inv_Sup_UserName	Use this variable to define the user name for the inventory supervisor of the mobile application-based warehouse.
	The default value of RF_Node_Inv_Sup_UserName is DC1 Inventory Supervisor.
RF_Node_Inb_Sup_UserId	Use this variable to define the user identifier for the receiving supervisor of the mobile application-based warehouse.
	The default value of RF_Node_Inb_Sup_UserId is dc1inbs.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
RF_Node_Inb_Sup_UserName	Use this variable to define the user name for the receiving supervisor of the mobile application-based warehouse. The default value of RF_Node_Inb_Sup_UserName is DC1 Receiving Supervisor.
RF_Node_Shp_Sup_UserId	Use this variable to define the user identifier for the shipping supervisor of the mobile application-based warehouse. The default value of RF_Node_Shp_Sup_UserId is dc1shps.
RF_Node_Shp_Sup_UserName	Use this variable to define the user name for the shipping supervisor of the mobile application-based warehouse. The default value of RF_Node_Shp_Sup_UserName is DC1 Shipping Supervisor.
RF_Node_UserId	Use this variable to define the identifier for the user of the mobile application-based warehouse. The default value of RF_Node_UserId is dc1u1.
RF_Node_UserName	Use this variable to define the name for the user the mobile application-based warehouse. The default value of RF_Node_UserName is DC1 User.
RF_Node_Mobile_UserId	Use this variable to define the user identifier for the mobile application user of the mobile application-based warehouse. The default value of RF_Node_Mobile_UserId is dc1m1.
RF_Node_Mobile_UserName	Use this variable to define the user name for the mobile application user of the mobile application-based warehouse. The default value of RF_Node_Mobile_UserName is DC1 Mobile User.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
RF_Node_Station_UserId	Use this variable to define the user identifier for the station users in the mobile application-based warehouse. The default value of RF_Node_Station_UserId is dc1s1.
RF_Node_Station_UserName	Use this variable to define the user name for the station users in the mobile application-based warehouse. The default value of RF_Node_Station_UserName is DC1 Station User.
RF_Node_Admin_UserId	Use this variable to define the user identifier for the administrator of the mobile application-based warehouse. The default value of RF_Node_Admin_UserId is dc1admin.
RF_Node_Admin_UserName	Use this variable to define the user name for the administrator of the mobile application-based warehouse. The default value of RF_Node_Admin_UserName is DC1 System Admin.
Paper_Based_Node_Mgr_UserId	Use this variable to define the user identifier for the manager of the paper-based warehouse. The default value of Paper_Based_Node_Mgr_UserId is dc3mgr.
Paper_Based_Node_Mgr_UserName	Use this variable to define the user name for the manager of the paper-based warehouse. The default value of Paper_Based_Node_Mgr_UserName is DC3 Manager.
Paper_Based_Node_Ent_UserId	Use this variable to define the user identifier for the enterprise user of the paper-based warehouse. The default value of Paper_Based_Node_Ent_UserId is dc3corpuser.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
Paper_Based_Node_Ent_UserName	Use this variable to define the user name for the enterprise user of the paper-based warehouse.
	The default value of Paper_Based_Node_Ent_UserName is DC3 Enterprise User.
Paper_Based_Node_Inv_Sup_UserId	Use this variable to define the user identifier for the inventory supervisor of the paper-based warehouse.
	The default value of Paper_Based_Node_Inv_Sup_UserId is dc3invs.
Paper_Based_Node_Inv_Sup_UserName	Use this variable to define the user name for the inventory supervisor of the paper-based warehouse.
	The default value of Paper_Based_Node_Inv_Sup_UserName is DC3 Inventory Supervisor.
Paper_Based_Node_Inb_Sup_UserId	Use this variable to define the user identifier for the receiving supervisor of the paper-based warehouse.
	The default value of Paper_Based_Node_Inb_Sup_UserId is dc3inbs.
Paper_Based_Node_Inb_Sup_UserName	Use this variable to define the user name for the receiving supervisor of the paper-based warehouse.
	The default value of Paper_Based_Node_Inb_Sup_UserName is DC3 Receiving Supervisor.
Paper_Based_Node_Shp_Sup_UserId	Use this variable to define the user identifier for the shipping supervisor of the paper-based warehouse.
	The default value of Paper_Based_Node_Shp_Sup_UserId is dc3shps.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
Paper_Based_Node_Shp_Sup _UserName	Use this variable to define the user name for the shipping supervisor of the paper-based warehouse.
	The default value of Paper_Based_Node_Shp_Sup_UserName is DC3 Shipping Supervisor.
Paper_Based_Node_UserNa me	Use this variable to define the identifier for the user of a paper-based warehouse.
	The default value of Paper_Based_Node_UserName is dc3u1.
Paper_Based_Node_UserNa me	Use this variable to define the name for the user of a paper-based warehouse.
	The default value of Paper_Based_Node_UserName is DC3 User.
Paper_Based_Node_Station_ UserId	Use this variable to define the user identifier for the station users in the paper-based warehouse.
	The default value of Paper_Based_Node_Station_UserId is dc3s1.
Paper_Based_Node_Station_ UserName	Use this variable to define the user name for the station users in the paper-based warehouse.
	The default value of Paper_Based_Node_Station_UserName is DC3 Station User.
Paper_Based_Node_Admin_ UserId	Use this variable to define the user identifier for the administrator of the paper-based warehouse.
	The default value of Paper_Based_Node_Admin_UserId is dc3admin.
Paper_Based_Node_Admin_ UserName	Use this variable to define the user name for the administrator of the paper-based warehouse.
	The default value of Paper_Based_Node_Admin_UserName is DC3 System.
Vendor_1	Use this variable to define the name for the vendor organization.
	The default value of Vendor_1 is VENDOR1.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
Vendor_2	Use this variable to define the name for the vendor organization.
	The default value of Vendor_2 is VENDOR2.
Vendor_3	Use this variable to define the name for the vendor organization.
	The default value of Vendor_3 is VENDOR3.
Vendor_4	Use this variable to define the name for the vendor organization.
	The default value of Vendor_4 is VENDOR4.
Vendor_5	Use this variable to define the name for the vendor organization.
	The default value of Vendor_5 is VENDOR5.
Buyer_1	Use this variable to define the name for the buyer organization.
	The default value of Buyer_1 is BUYER1.
Buyer_2	Use this variable to define the name for the buyer organization.
	The default value of Buyer_2 is BUYER2.
Buyer_3	Use this variable to define the name for the buyer organization.
	The default value of Buyer_3 is BUYER3.
Buyer_4	Use this variable to define the name for the buyer organization.
	The default value of Buyer_4 is BUYER4.
Buyer_5	Use this variable to define the name for the buyer organization.
	The default value of Buyer_5 is BUYER5.
Date_tommorow	This variable defines the future date.
	The value is generated by the system.
Calender_start_date	Use this variable to define the start date.
	The value of Calender_start_date is 20070101.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
Date_dayafter	This variable defines the next date. The value is generated by the system.
Calender_end_date	Use this variable to define the end date. The default value of Calender_end_date is 20100101.
Node_user_2	Use this variable to define the user name for the warehouse. The default value of Node_user_2 is dc1u2.
Node_user_3	Use this variable to define the user name for the warehouse. The default value of Node_user_3 is dc1u3.
Node_user_4	Use this variable to define the user name for the warehouse. The default value of Node_user_4 is dc1u4.
Node_user_5	Use this variable to define the user name for the warehouse. The default value of Node_user_5 is dc1u5.
Node_user_6	Use this variable to define the user name for the warehouse. The default value of Node_user_6 is dc1u6.
Node_user_7	Use this variable to define the user name for the warehouse. The default value of Node_user_7 is dc1u7.
Node_user_8	Use this variable to define the user name for the warehouse. The default value of Node_user_8 is dc1u8.
Node_user_9	Use this variable to define the user name for the warehouse. The default value of Node_user_9 is dc1u9.
Node_user_10	Use this variable to define the user name for the warehouse. The default value of Node_user_10 is dc1u10.

Table 2–1   Variables for Reference Implementation

Variable Name	Description
Node_user_11	Use this variable to define the user name for the warehouse.
	The default value of Node_user_11 is dc1u11.
Node_user_12	Use this variable to define the user name for the warehouse.
	The default value of Node_user_12 is dc1u12.
Node_user_13	Use this variable to define the user name for the warehouse.
	The default value of Node_user_13 is dc1u13.

2.7 Migrating the Sterling Supply Chain Applications Database to the Sterling nWMS PCA

The Sterling nWMS PCA provides SQL scripts to migrate data from the Sterling Supply Chain Applications database to the Sterling nWMS PCA.

The differences between the entity XMLs and the database are generated in the form of SQL scripts, in the following location:

`<YFS_HOME>/database/<database name>/scripts`

These scripts can be run against the database to rectify the differences.

The following scripts are generated:

- `ynw_seq.sql`: This script creates all of the additional sequences that need to be created.

- `ynw_tables.sql`: This script applies all the table column differences to need to be applied on the database schema. Modify this file to reference your tablespaces.

- `ynw_drops.sql`: This script removes any extra tables in the database.

Note: The *Drops.sql scripts indicate extra objects in the database. These extra objects could be custom objects or objects that are dropped as the result of a schema change or an upgrade. Please look through this script carefully.

2.8 Localizing the Data

After installing the Sterling nWMS PCA 7.5 language pack, to localize your data, merge the `ynw_localizedstrings_<locale>.properties` file (located in the `<YANTRA_HOME>/Applications/nWMS/database/FactorySetup/XMLS/<language>_<country>` directory) with the `ycp_localizedstrings_<locale>.properties` file (located in the `<YANTRA_HOME>/Applications/Foundation/database/FactorySetup/XMLS/<language>_<country>` directory). For more information about localizing your data, see the *Sterling Supply Chain Applications Localization Guide*.

2.9 Installing OptiSlot

Sterling nWMS PCA enables integration of OptiSlot from Optricity out of the box. Integration to OptiSlot is optional. If you want to install OptiSlot:

1. Ensure that you install the following version of OptiSlot:

    Optricity OptiSlot(TM) version 1.1.2 (Build: 6) 07/13/2007

2. Ensure that the `OptiSlot.jar` file is present in the CLASSPATH environment variable.

For more information about installing OptiSlot, see the installation document provided by Optricity.

2.10 Uninstalling the Sterling nWMS PCA

To uninstall the Sterling nWMS PCA:

1. Navigate to `<YANTRA_HOME>/Applicationss/nWMS/nWMSPCAUninstaller`

2. Run the `Uninstall nWMS Distribution PCA` executable (`Uninstall nWMS Distribution PCA.exe` in Windows)

> **Note:** After uninstalling the Sterling nWMS PCA, ensure that you manually delete the `<YANTRA_HOME>/Runtime` directory.

3

Creating and Updating the Sterling Supply Chain Applications Runtime

This chapter provides information about creating and updating the runtime after the installation is complete.

3.1 Creating the Sterling Supply Chain Applications Runtime

After setting the properties files for the first time, you must create the Sterling Supply Chain Applications Runtime directory.

For more information about creating the Sterling Supply Chain Applications Runtime, see the *Sterling Supply Chain Applications Installation Guide*.

3.2 Updating the Sterling Supply Chain Applications Runtime

If you have created the Sterling Supply Chain Applications Runtime after installing the Sterling nWMS PCA, and you modify any files in the `<YANTRA_HOME>/Applications/nWMS` or `<YANTRA_HOME>/Applications/nWMS_Add-in` directories, you must update the Sterling Supply Chain Applications Runtime directory.

For more information about updating the Sterling Supply Chain Applications Runtime, see the *Sterling Supply Chain Applications Installation Guide*.

4

Installing the Database Components

This chapter describes how to run the necessary scripts to update your database with the Sterling nWMS PCA components.

Depending on which database you are using, you have to run different scripts:

- If you are using an Oracle database, refer to Section 4.1, "Oracle Databases".

- If you are using a DB2 database, refer to Section 4.2, "DB2 Databases".

- If you are using a SQL Server database, refer to Section 4.3, "SQL Server Databases".

Once you have run the appropriate scripts, load the Sterling nWMS PCA factory defaults. For instructions to do this, refer to Section 4.4, "Loading the Database Factory Defaults".

4.1 Oracle Databases

To configure your Oracle database for your production environment, you must set up and run a series of scripts to create the tables, indexes, sequences, and so forth for your schema.

These script reside in the `<YFS_HOME>/database/oracle/scripts` directory. The `ynw_master_db_script.sql` script is the master script that calls all other scripts required for creating tables, indexes, and so forth.

To set up scripts:

If you are using locally managed tablespace or another utility to size your database, complete the following:

1. Create tablespaces where the Sterling Supply Chain Applications tables and indexes reside.

2. Modify the `ynw_tables.sql` file to reference your newly created tablespaces.

The DDLs in the Sterling nWMS PCA scripts create a standard set of indexes. You may need to create additional indexes or modify existing indexes according to your business practice.

To run the scripts:

1. Log into the Oracle Server Manager as `sysdba`.

2. Create the user that is the designated schema owner.

3. Grant the following privileges to the newly created user:

    - ALTER SESSION
    - CREATE PROCEDURE
    - CREATE SEQUENCE
    - CREATE SESSION
    - CREATE SYNONYM
    - CREATE TABLE
    - CREATE VIEW
    - EXECUTE ANY PROCEDURE
    - INSERT ANY TABLE
    - UPDATE ANY TABLE
    - SELECT ANY TABLE

4. Log out of the Oracle Server Manager and log back in as the newly created user.

5. From the `<YFS_HOME>/database/oracle/scripts` directory, run the `ynw_master_db_script.sql` script. This creates the tables, indexes, sequences, and views.

6. Examine the `<YFS_HOME>/database/oracle/scripts/`
   `ynw_master_db_script.log` file for database creation errors.

7. Validate the database as described in the *Sterling Supply Chain Applications Installation Guide*.

8. Check for the degree of parallelism, using information from the *Sterling Supply Chain Applications Performance Management Guide*.

4.2 DB2 Databases

To configure your DB2 database for your production environment, you must set up and run a series of scripts to create the tables, indexes, sequences and so forth for your schema.

These script reside in the `<YFS_HOME>/database/db2/scripts` directory.

> **Note:** The `ynw_tables.sql` script creates tables and indexes. Certain tables require a page size of 16K. You should have a tablespace to accommodate such tables. The `ynw_tables.sql` script can be modified to specify tablespaces for tables, indexes, and so forth. If not, DB2 automatically places tables and indexes in the available tablespaces using its internal logic.
>
> The `ynw_item_stat_vw.sql` and `ynw_slotting_vw.sql` scripts are used to create relevant views.

To run the scripts:

1. Run the `ynw_tables.sql` script located in the `<YFS_HOME>/database/db2/scripts` directory, using the DB2 command line processor utility as follows:

   ```
   db2 -tvf <filename>
   ```

2. Run the `ynw_item_stat_vw.sql` in the `<YFS_HOME>/database/db2/scripts/CustomDBViews` directory using the DB2 command line processor utility as follows:

   ```
   db2 -tvf <filename>
   ```

3. Run the `ynw_slotting_vw.sql` in the `<YFS_HOME>/database/db2/scripts/CustomDBViews` directory using the DB2 command line processor utility as follows:

```
db2 -tvf <filename>
```

4. Validate the database as described in the *Sterling Supply Chain Applications Installation Guide*.

5. Check for the degree of parallelism, using information from the *Sterling Supply Chain Applications Performance Management Guide*.

4.3 SQL Server Databases

To configure your SQL Server database for your production environment, you must set up and run a master command script and pass parameters to it to create the tables and indexes for your schema.

This script file resides in the `<YFS_HOME>/Applications/nWMS_Add-In /database/sqlserver/scripts` directory

To run the scripts:

1. Make sure you have a SQL Server client installed on your computer.

2. From the `<YFS_HOME>/database/sqlserver/scripts` directory, run the `ynw_sqlserver_master_db_script.cmd` script, passing ServerName, DatabaseName, UserID, and Password as parameters.

3. Examine the `ynwsqlserver_tables.log`, `ynw_item_stat_vw.log`, and `ynw_slotting_vw.log` files for errors.

4. Validate the database as described in the *Sterling Supply Chain Applications Installation Guide*.

Check for the degree of parallelism, using information from the *Sterling Supply Chain Applications Performance Management Guide*.

4.4 Loading the Database Factory Defaults

You can load the Sterling nWMS PCA factory defaults in the Activated mode. In this mode, the Sterling nWMS PCA factory defaults are activated, which may override factory defaults that you have already configured in the Sterling Supply Chain Applications.

To load the Sterling nWMS PCA factory defaults in the activated mode:

1. Ensure that the path to the Java executable is in your system path.

2. Ensure that your YFS_HOME environment variable is correctly set up, and that your DB_DRIVER file is in your <YFS_HOME>/extn directory.

3. Navigate to the <YFS_HOME> directory.

4. Load the factory defaults by executing the following ant script:

```
ant -f bin/ynw_load_defaults.xml install -logfile <logfile>
```

The same script can be used for Windows, UNIX, and LINUX.

This script loads the factory defaults in the following sequence:

a. Installs the base factory setup.

b. Activates the event handlers and User Exit implementations.

This step also includes a validation of the existing data to ensure that the Sterling nWMS PCA does not overwrite any existing configuration. If the validation fails, the script exits without activating the event handlers and User Exit implementations. It then displays an error message containing information about the existing configuration that might get overwritten.

To override this validation, execute the following ant script:

```
ant -f bin/ynw_load_defaults.xml overrideinstall
-logfile <logfile>
```

If you want to install the factory default without overriding the validation, execute the following ant script:

```
ant -f bin/ynw_load_defaults.xml -logfile <logfile>
```

To install only the non-conflicting activator data, execute the following ant script:

```
ant -f/ynw_load_defaults.xml nonconflictinginstall
-logfile <logfile>
```

> **Note:** If the factory default installation stops before it is finished, a file named
> "`ynw_addin_installer.xml.restart`" and
> "`ynw_pca_installer.xml.restart`" are created. This file records the location where the installation was stopped, and it is used to resume the installation when the factory defaults are installed the next time.
>
> If the factory defaults installation stops during the activation steps, a file named
> "`ynw_activator.xml.restart`" is also created. This file records the location where the installation was stopped, and it is used to resume the installation when the factory defaults are installed the next time.

5. If you plan to use the reference implementation provided as a part of the Sterling nWMS PCA solution, see Chapter 5, "Installing the Reference Implementation".

4.5 Loading the Language Pack Translations

Prior to loading the Sterling Supply Chain Visibility PCA Language Pack translations, ensure that you have successfully installed the database components for your database and loaded the database factory defaults.

To load the language pack translations with custom localization literals, you should run the `LocalizedStringReconciler` tool in IMPORT mode from the `<YFS_HOME>/bin` directory as follows:

```
ant -f localizedstringreconciler.xml  import
-Dsrc=<YFS_HOME>/database/FactorySetup/scv
```

This tool first inserts the values specified in the `<from_language>_<from_country>_ynwlocalizedstrings_<to_language>_<to_country>.properties` file present in the `<YFS_HOME>/database/FactorySetup/ynw/<language>_<country>` directory into the database.

Important: Verify that your locale settings, such as currency, time format, date, and so forth, are correct.

5

Installing the Reference Implementation

To load the factory setup for the reference implementation, ensure that your environment variable is set up correctly, and that your `DB_DRIVER` file is in your `<YFS_HOME>/extn` directory.

When loading the reference implementation data, the Sterling Networked Warehouse Management System PCA uses the Data Migrator. For more information about the Data Migrator, see the *Sterling Supply Chain Applications Installation Guide*.

5.1 Installing the Sterling Networked Warehouse Management System PCA Reference Implementation

To use the Reference Implementation, first configure the `ycd_ref_variable.properties` file located in the `<YFS_HOME>/resources` directory.

For more information about the organization model, see the *Sterling Networked Warehouse Management System PCA Implementation Guide*.

The variables described in Table 5–1 are used to create participants and users for the Reference Implementation.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
Corporate_Enterprise_Code	Use this variable to define the organization code of the company.
	The default value of Corporate_Enterprise_Code is XYZ-CORP.
Corporate_Enterprise_Name	Use this variable to define the name of the company.
	The default value of Corporate_Enterprise_Name is XYZ-CORP.
Corporate_Enterprise_UserId	Use this variable to define the identifier for the user of the company.
	The default value of Corporate_Enterprise_UserId is xyzuser.
Corporate_Enterprise_UserName	Use this variable to define the name for the user of the company.
	The default value of Corporate_Enterprise_UserName is XYZ Corporation User.
Online_Channel_Enterprise_Code	Use this variable to define the organization code of the company's online business channel.
	The default value of Online_Channel_Enterprise_Code is XYZ-ONLINE.
Online_Channel_Enterprise_Name	Use this variable to define the name of the company's online business channel.
	The default value of Online_Channel_Enterprise_Name is XYZ Online.
Online_Channel_Enterprise_BillTo_Company_Name	Use this variable to define the bill-to company name.
	The default value of Online_Channel_Enterprise_BillTo_Company_Name is XYZ Online Financial.
Online_Channel_Enterprise_Company_Name	Use this variable to define the company name of the online business channel.
	The default value of Online_Channel_Enterprise_Company_Name is XYZ Online.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
Integrated_WMS_RF_Node	Use this variable to define the organization code of the mobile application-based warehouse. The default value of Integrated_WMS_RF_Node is DC1.
Integrated_WMS_RF_Node_Name	Use this variable to define the name of the mobile application-based warehouse. The default value of Integrated_WMS_RF_Node_Name is RF Based DC (DC1).
Integrated_WMS_Paper_Based_Node	Use this variable to define the organization code of the paper-based warehouse. The default value of Integrated_WMS_Paper_Based_Node is DC3.
Integrated_WMS_Paper_Based_Node_Name	Use this variable to define the name of the paper-based warehouse. The default value of Integrated_WMS_Paper_Based_Node_Name is Paper Based DC (DC3).
Non_Integrated_Node	Use this variable to define the organization code of the warehouse that maintains the inventory externally. The default value of Non_Integrated_Node is DC2.
Non_Integrated_Node_Name	Use this variable to define the name of the warehouse that maintains the inventory externally. The default value of Non_Integrated_Node_Name is Distribution Center2.
RF_Node_Mgr_UserId	Use this variable to define the user identifier for the manager of the mobile application-based warehouse. The default value of RF_Node_Mgr_UserId is dc1mgr.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
RF_Node_Mgr_UserName	Use this variable to define the user name for the manager of the mobile application-based warehouse.
	The default value of RF_Node_Mgr_UserName is DC1 Manager.
RF_Node_Ent_UserId	Use this variable to define the user identifier for the enterprise user of the mobile application-based warehouse.
	The default value of RF_Node_Ent_UserId is dc1corpuser.
RF_Node_Ent_UserName	Use this variable to define the user name for the enterprise user of the mobile application-based warehouse.
	The default value of RF_Node_Ent_UserName is DC1 Corporate Enterprise User.
RF_Node_Inv_Sup_UserId	Use this variable to define the user identifier for the inventory supervisor of the mobile application-based warehouse.
	The default value of RF_Node_Inv_Sup_UserId is dc1invs.
RF_Node_Inv_Sup_UserName	Use this variable to define the user name for the inventory supervisor of the mobile application-based warehouse.
	The default value of RF_Node_Inv_Sup_UserName is DC1 Inventory Supervisor.
RF_Node_Inb_Sup_UserId	Use this variable to define the user identifier for the receiving supervisor of the mobile application-based warehouse.
	The default value of RF_Node_Inb_Sup_UserId is dc1inbs.
RF_Node_Inb_Sup_UserName	Use this variable to define the user name for the receiving supervisor of the mobile application-based warehouse.
	The default value of RF_Node_Inb_Sup_UserName is DC1 Receiving Supervisor.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
RF_Node_Shp_Sup_UserId	Use this variable to define the user identifier for the shipping supervisor of the mobile application-based warehouse. The default value of RF_Node_Shp_Sup_UserId is dc1shps.
RF_Node_Shp_Sup_UserName	Use this variable to define the user name for the shipping supervisor of the mobile application-based warehouse. The default value of RF_Node_Shp_Sup_UserName is DC1 Shipping Supervisor.
RF_Node_UserId	Use this variable to define the identifier for the user of the mobile application-based warehouse. The default value of RF_Node_UserId is dc1u1.
RF_Node_UserName	Use this variable to define the name for the user the mobile application-based warehouse. The default value of RF_Node_UserName is DC1 User.
RF_Node_Mobile_UserId	Use this variable to define the user identifier for the mobile application user of the mobile application-based warehouse. The default value of RF_Node_Mobile_UserId is dc1m1.
RF_Node_Mobile_UserName	Use this variable to define the user name for the mobile application user of the mobile application-based warehouse. The default value of RF_Node_Mobile_UserName is DC1 Mobile User.
RF_Node_Station_UserId	Use this variable to define the user identifier for the station users in the mobile application-based warehouse. The default value of RF_Node_Station_UserId is dc1s1.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
RF_Node_Station_UserName	Use this variable to define the user name for the station users in the mobile application-based warehouse. The default value of RF_Node_Station_UserName is DC1 Station User.
RF_Node_Admin_UserId	Use this variable to define the user identifier for the administrator of the mobile application-based warehouse. The default value of RF_Node_Admin_UserId is dc1admin.
RF_Node_Admin_UserName	Use this variable to define the user name for the administrator of the mobile application-based warehouse. The default value of RF_Node_Admin_UserName is DC1 System Admin.
Paper_Based_Node_Mgr_UserId	Use this variable to define the user identifier for the manager of the paper-based warehouse. The default value of Paper_Based_Node_Mgr_UserId is dc3mgr.
Paper_Based_Node_Mgr_UserName	Use this variable to define the user name for the manager of the paper-based warehouse. The default value of Paper_Based_Node_Mgr_UserName is DC3 Manager.
Paper_Based_Node_Ent_UserId	Use this variable to define the user identifier for the enterprise user of the paper-based warehouse. The default value of Paper_Based_Node_Ent_UserId is dc3corpuser.
Paper_Based_Node_Ent_UserName	Use this variable to define the user name for the enterprise user of the paper-based warehouse. The default value of Paper_Based_Node_Ent_UserName is DC3 Enterprise User.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
Paper_Based_Node_Inv_Sup_UserId	Use this variable to define the user identifier for the inventory supervisor of the paper-based warehouse. The default value of Paper_Based_Node_Inv_Sup_UserId is dc3invs.
Paper_Based_Node_Inv_Sup_UserName	Use this variable to define the user name for the inventory supervisor of the paper-based warehouse. The default value of Paper_Based_Node_Inv_Sup_UserName is DC3 Inventory Supervisor.
Paper_Based_Node_Inb_Sup_UserId	Use this variable to define the user identifier for the receiving supervisor of the paper-based warehouse. The default value of Paper_Based_Node_Inb_Sup_UserId is dc3inbs.
Paper_Based_Node_Inb_Sup_UserName	Use this variable to define the user name for the receiving supervisor of the paper-based warehouse. The default value of Paper_Based_Node_Inb_Sup_UserName is DC3 Receiving Supervisor.
Paper_Based_Node_Shp_Sup_UserId	Use this variable to define the user identifier for the shipping supervisor of the paper-based warehouse. The default value of Paper_Based_Node_Shp_Sup_UserId is dc3shps.
Paper_Based_Node_Shp_Sup_UserName	Use this variable to define the user name for the shipping supervisor of the paper-based warehouse. The default value of Paper_Based_Node_Shp_Sup_UserName is DC3 Shipping Supervisor.
Paper_Based_Node_UserName	Use this variable to define the identifier for the user of a paper-based warehouse. The default value of Paper_Based_Node_UserName is dc3u1.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
Paper_Based_Node_UserName	Use this variable to define the name for the user of a paper-based warehouse.
	The default value of Paper_Based_Node_UserName is DC3 User.
Paper_Based_Node_Station_UserId	Use this variable to define the user identifier for the station users in the paper-based warehouse.
	The default value of Paper_Based_Node_Station_UserId is dc3s1.
Paper_Based_Node_Station_UserName	Use this variable to define the user name for the station users in the paper-based warehouse.
	The default value of Paper_Based_Node_Station_UserName is DC3 Station User.
Paper_Based_Node_Admin_UserId	Use this variable to define the user identifier for the administrator of the paper-based warehouse.
	The default value of Paper_Based_Node_Admin_UserId is dc3admin.
Paper_Based_Node_Admin_UserName	Use this variable to define the user name for the administrator of the paper-based warehouse.
	The default value of Paper_Based_Node_Admin_UserName is DC3 System.
Vendor_1	Use this variable to define the name for the vendor organization.
	The default value of Vendor_1 is VENDOR1.
Vendor_2	Use this variable to define the name for the vendor organization.
	The default value of Vendor_2 is VENDOR2.
Vendor_3	Use this variable to define the name for the vendor organization.
	The default value of Vendor_3 is VENDOR3.
Vendor_4	Use this variable to define the name for the vendor organization.
	The default value of Vendor_4 is VENDOR4.

Table 5—1   Variables for Reference Implementation

Variable Name	Description
Vendor_5	Use this variable to define the name for the vendor organization.
	The default value of Vendor_5 is VENDOR5.
Buyer_1	Use this variable to define the name for the buyer organization.
	The default value of Buyer_1 is BUYER1.
Buyer_2	Use this variable to define the name for the buyer organization.
	The default value of Buyer_2 is BUYER2.
Buyer_3	Use this variable to define the name for the buyer organization.
	The default value of Buyer_3 is BUYER3.
Buyer_4	Use this variable to define the name for the buyer organization.
	The default value of Buyer_4 is BUYER4.
Buyer_5	Use this variable to define the name for the buyer organization.
	The default value of Buyer_5 is BUYER5.
Calender_start_date	Use this variable to define the start date.
	The value of Calender_start_date is 20070101.
Calender_end_date	Use this variable to define the end date.
	The default value of Calender_end_date is 20100101.
RF_Node_userid_1	Use this variable to define the user identifier for the warehouse.
	The default value of RF_Node_userid_1 is dc1weigher1.
RF_Node_userid_2	Use this variable to define the user identifier for the warehouse.
	The default value of RF_Node_userid_2 is dc1weigher2.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
RF_Node_userid_3	Use this variable to define the user identifier for the warehouse. The default value of RF_Node_userid_3 is dc1picker1.
RF_Node_userid_4	Use this variable to define the user identifier for the warehouse. The default value of RF_Node_userid_4 is dc1picker2.
RF_Node_userid_5	Use this variable to define the user identifier for the warehouse. The default value of RF_Node_userid_5 is dc1picker3.
RF_Node_userid_6	Use this variable to define the user identifier for the warehouse. The default value of RF_Node_userid_6 is dc1picker4.
RF_Node_userid_7	Use this variable to define the user identifier for the warehouse. The default value of RF_Node_userid_7 is dc1picker5.
RF_Node_userid_8	Use this variable to define the user identifier for the warehouse. The default value of RF_Node_userid_8 is dc1packer1.
RF_Node_userid_9	Use this variable to define the user identifier for the warehouse. The default value of RF_Node_userid_9 is dc1packer2.
RF_Node_userid_10	Use this variable to define the user identifier for the warehouse. The default value of RF_Node_userid_10 is dc1vas1.

Table 5–1   Variables for Reference Implementation

Variable Name	Description
RF_Node_userid_11	Use this variable to define the user identifier for the warehouse.
	The default value of RF_Node_userid_11 is dc1vas2.
RF_Node_userid_12	Use this variable to define the user identifier for the warehouse.
	The default value of RF_Node_userid_12 is dc1shipper1.
RF_Node_userid_13	Use this variable to define the user identifier for the warehouse.
	The default value of RF_Node_userid_13 is dc1shipper2.
RF_Node_username_1	Use this variable to define the user name for the warehouse.
	The default value of RF_Node_userid_1 is DC1 Weigh Station Operator1.
RF_Node_username_2	Use this variable to define the user name for the warehouse.
	The default value of RF_Node_userid_2 is DC1 Weigh Station Operator2.
RF_Node_username_3	Use this variable to define the user name for the warehouse.
	The default value of RF_Node_userid_3 is DC1 Picker1.
RF_Node_username_4	Use this variable to define the user name for the warehouse.
	The default value of RF_Node_userid_4 is DC1 Picker2.
RF_Node_username_5	Use this variable to define the user name for the warehouse.
	The default value of RF_Node_userid_5 is DC1 Picker3.
RF_Node_username_6	Use this variable to define the user name for the warehouse.
	The default value of RF_Node_userid_6 is DC1 Picker4.

Table 5−1   Variables for Reference Implementation

Variable Name	Description
RF_Node_username_7	Use this variable to define the user name for the warehouse. The default value of RF_Node_userid_7 is DC1 Picker5.
RF_Node_username_8	Use this variable to define the user name for the warehouse. The default value of RF_Node_userid_8 is DC1 Packer1.
RF_Node_username_9	Use this variable to define the user name for the warehouse. The default value of RF_Node_userid_9 is DC1 Packer2.
RF_Node_username_10	Use this variable to define the user name for the warehouse. The default value of RF_Node_userid_10 is DC1 Vas Station Operator1.
RF_Node_username_11	Use this variable to define the user name for the warehouse. The default value of RF_Node_userid_11 is DC1 Vas Station Operator2.
RF_Node_username_12	Use this variable to define the user name for the warehouse. The default value of RF_Node_userid_12 is DC1 Shipper1.
RF_Node_username_13	Use this variable to define the user name for the warehouse. The default value of RF_Node_userid_13 is DC1 Shipper2.

Note: If you change the value of a variable representing a user identifier, the password for that user also changes automatically. The password is set to the value of the new identifier.

The reference implementation can be run multiple times for a single installation. You can run this data with different Enterprise, Node_DC variables used to create multiple online business channels all relating to a single company.

The `YFS_LOCAL` environment variable can be set to point to the directory containing the `<YFS_HOME>/resources/yfs.properties` file. This is picked up and used to set the database connection, if available. Otherwise, `<YFS_HOME>` is used to set the database properties in the `<YFS_HOME>/resources/yfs.properties` directory.

For subsequent installations of the reference implementation, ensure that you delete the `.restart` files. The `.restart` files are located in the `<YFS_HOME>/database/FactorySetup/ynw/install` directory.

The reference implementation factory setup is broken up into the following different components:

- Configuration Data—This consists of the basic configuration data required for the PCA including new organizations, common codes, and rules.

- Activator—In the Activated mode, the Sterling Networked Warehouse Management System PCA factory defaults are activated. Validation is required to insert certain factory setup data including the implementation of events, user exits, and pipeline determination rules. This factory setup may override the configuration that is already done in an existing implementation of the Sterling Supply Chain Applications. A validator executes on these tables. If any of the records in the tables are found to exist in a state different than the standard Sterling Supply Chain Applications factory setup, then the validator fails. In such situations, you can run the reference implementation without the activator and manually create these records, or run the activator factory setup in override mode.

- Demo Data—This contains Master Data and Transaction Data.

  - Master Data—This consists of some example data that can be used to demonstrate the application including sample items. It is expected that this data is not used in a production environment.

  - Transaction Data—Transaction Data is not run as part of loading the reference implementation. You can optionally run this when installing the Sterling Networked Warehouse Management System PCA.

Only the following components of the reference implementation are installed:

- Configuration data

- Activator data

- Master data

> **Note:** If the activator data modifies the existing configurations, the activator validation may fail. The validation fails if there are changes in the configurations for the implementation of events, user exits, or pipeline determination rules. In such situations, run the script `ant -f bin/ynw_load_reference_implementation.xml -Doverridevalidation=Y logfile <logfile>`. If errors are not found, it indicates that the reference implementation has been installed successfully.

To run individual components of the reference implementation, run the following commands from the `<YFS_HOME>` directory:

- Configuration data installation

  Run the following command to install the configuration data:
  ```
  ant -f bin/ynw_load_reference_implementation.xml configdata
  -logfile <logfile>
  ```

- Activator installation

  Run the following command to install activator:

  ```
  ant -f bin/ynw_load_reference_implementation.xml activate
  -logfile <logfile>
  ```

  — Activator installation with override

    Run the following command to overwrite any existing configuration done to certain events, user exit implementations, and pipeline determination rules.

    ```
    ant -f bin/ynw_load_reference_implementation.xml
    overrideinstall -logfile <logfile>
    ```

  — Ignoring the activator

To ignore the activator, run the following command:

```
ant -f bin/ynw_load_reference_implementation.xml
noactivation -logfile <logfile>
```

• Master data installation

Run the following command to install master data:

```
ant -f bin/ynw_load_reference_implementation.xml masterdata
-logfile <logfile>
```

• Transaction data installation

Run the following command to install transaction data:

```
ant -f bin/ynw_load_reference_implementation.xml
transactiondata -logfile <logfile>
```

• Install only the non-conflicting activator data

Run the following ant script:

```
ant -f bin/ynw_load_reference_implementation.xml
nonconflictinginstall -logfile <logfile>
```

> **Note:** Before running the transaction data, make sure that the `yifclient.properties` file is set up correctly. For more information about setting the `yifclient.properties` file, see the *Sterling Supply Chain Applications Installation Guide*.

> **Note:** If the reference implementation installation fails, the following `.restart` files are created, which records the location where the installation failed:
>
> - For Configuration data installation, the `ref_ynw_configdata_installer.xml.restart` is created.
>
> - For Activator installation, the `ref_ynw_activator_installer.xml.restart` is created.
>
> - For Master data installation, the `ref_ynw_masterdata_installer.restart` is created.
>
> When you install the reference implementation the next time, these `*.restart` files are read to resume installation from the point where the installation had failed.

Run the following command to overwrite any existing configuration done for Configuration, Activator, and Master data:

```
ant -f bin/ynw_load_reference_implementation.xml overrideall
-logfile <logfile>
```

For more information about the reference implementation, see the *Sterling Networked Warehouse Management System PCA Implementation Guide*

5.2 Customizing the Reference Implementation Data

The Sterling nWMS PCA comes with its own Reference Implementation data. However, to reflect your organization's attributes, some of the attributes provided as a part of the Reference Implementation need to be changed. This is necessary to enable you to use this configuration to ship products from your Distribution Centre.

This section explains how to customize the Sterling nWMS PCA Reference Implementation.

> **Note:** Sterling Commerce recommends that you change only the fields specified in the following sections and retain the other field values as-is.

5.2.1 Customizing Reference Implementation

To use the Reference Implementation, you need to configure the `ynw_ref_variable.properties` file located in the `<YANTRA_HOME>/Applications/nWMS/resources` directory before creating the `<YANTRA_HOME>/Runtime` directory.

5.2.2 Customizing Participant Addresses

To set up the participant addresses:

1. Log into the application.

2. From the Sterling Supply Chain Application Consoles menu, select Configuration > Launch Configurator. The Sterling Supply Chain Applications Configurator opens in a new window.

3. From the Sterling Supply Chain Applications Configurator menu, select Participant Modelling. The Organization Search screen displays.

4. Click 🔍. The Search Results pane displays a list of organizations defined.

5. From the list of organizations, select the organization you want to modify.

6. Click 📷. The Organization Details screen displays.

7. To change the address:

   a. In the Address pane, click 🕷. The Address Details pop-up window displays.

   b. Enter the details required. Click OK.

8. To change the contact address:

   a. In the Contact Address pane, click 🕷. The Contact Address Details pop-up window displays.

       b. Enter the details required. Click OK.

9. Click ![save icon].

5.2.3 Customizing Carrier Information

This section explains how to change the default carrier data that has been installed as a part of the Sterling nWMS PCA Reference Implementation.

5.2.3.1 Setting Up FedEx Account Numbers for Parcel Shipping

To set up FedEx Shipping Account and Billing Account Numbers:

1. Log into the application as the warehouse manager.

2. From the Sterling Supply Chain Application Consoles menu, select Configuration > Launch Configurator. The Sterling Supply Chain Applications Configurator opens in a new window.

3. From the Sterling Supply Chain Applications Configurator menu, select Application > Warehouse Management.

4. From the tree in the application rules side panel, select Shipping > Parcel Carrier Preferences. The Parcel Carrier Preferences screen displays.

5. From the list of Parcel Carriers, select FEDX and click ![icon]. The Parcel Carrier Preferences Preference Details pop-up window displays.

6. Enter the Shipping Account and Billing Account numbers.

7. Click ![save icon].

5.2.3.2 Setting Up the Carrier PRO Number for LTL Shipping

To set up the PRO Number for LTL Carriers:

1. Log into the application as the warehouse manager.

2. From the Sterling Supply Chain Application Consoles menu, select Configuration > Launch Configurator. The Sterling Supply Chain Applications Configurator opens in a new window.

3. From the Sterling Supply Chain Applications Configurator menu, select Application > Warehouse Management.

4. From the tree in the application rules side panel, select Shipping > LTL Carrier Preferences. The LTL Carrier Preferences screen displays.

5. From the list of LTL carriers, select the carrier to modify and click 🦀. The PRO Number Generation Scheme pop-up window displays.

6. In the PRO Number Set - 1 area:

    a. Enter the PRO Number Prefix in the PRO NUmber Prefix field.

    b. Enter the number at which the PRO Number starts in the PRO Number Start field.

    c. Enter the number at which the PRO Number ends in the PRO Number End field.

7. In the PRO Number Set - 2 area, if required:

    a. Enter the PRO Number Prefix in the PRO NUmber Prefix field.

    b. Enter the number at which the PRO Number starts in the PRO Number Start field.

    c. Enter the number at which the PRO Number ends in the PRO Number End field.

8. Click 💾.

5.2.4 Customizing Print Configuration

This section explains how to set up the Print configurations.

5.2.4.1 Setting Up the Save Directory for Prints

To set up the save directory for prints:

1. Log into the application as the warehouse manager.

2. From the Sterling Supply Chain Application Consoles menu, select Configuration > Launch Configurator. The Sterling Supply Chain Applications Configurator opens in a new window.

3. From the Sterling Supply Chain Applications Configurator menu, select Application > Warehouse Management.

4. From the tree in the application rules side panel, select System Administration > Prints > Print Documents. The Print Documents screen displays.

5. In the Save Directory field, enter the directory path where you want to save the print document.

   This is used for documents that are pre-generated but printed on demand at a later time. A typical example is a packing list that is pre-generated, but printed when the last carton is scanned.

6. Click 💾 .

5.2.4.2 Setting Up the Printer Alias

To set up the printer alias:

1. Log into the application as the warehouse manager.

2. From the Sterling Supply Chain Application Consoles menu, select Configuration > Launch Configurator. The Sterling Supply Chain Applications Configurator opens in a new window.

3. Now, from the Sterling Supply Chain Applications Configurator menu, select Application > Warehouse Management.

4. From the tree in the application rules side panel, select System Administration > Devices. The Device Setup screen displays a list of Device Types.

5. Expand the tree for the Printer device type.

6. Expand the tree for the printer (device sub type) to configure. For example, HPLaser or Zebra Printer, provided in the Sterling nWMS PCA Reference Implementation.

7. Select the printer (device) you want to configure. For example, HPLaserJet or Zebra Printer, provided in the Sterling nWMS PCA Reference Implementation.

8. Click 🔧. The Device pop-up window displays.

9. To change the printer alias:

   a. In the Device Attributes area, select PrinterAlias.

   b. Click 🔧. The Criteria Parameters Details pop-up window displays.

   c. In the Parameter Value field, enter the printer alias.

   d. Click OK.

10. Click 💾 .

5.2.5 Setting Up Agent Criteria Details

To set up the agent criteria details:

1. Log into the application as the warehouse manager or the system administrator.

2. From the Sterling Supply Chain Application Consoles menu, select Configuration > Launch Configurator. The Sterling Supply Chain Applications Configurator opens in a new window.

3. From the Sterling Supply Chain Applications Configurator menu, select Application > Platform.

4. From the tree in the application rules side panel, select Process Modelling. The Process Modelling screen displays.

5. Select the process model to which the agent criteria to be configured belongs.

6. Navigate to the transaction repository.

7. Select the appropriate transaction. The Transaction Detail screen displays.

8. Select the Time Triggered tab.

9. In the Agent Criteria Definitions pane, select the appropriate agent criteria.

10. Click 🕸. The Agent Criteria Details pop-up window displays.

11. Configure or change the appropriate attributes, as required. For example, you may need to change the Provider URL.

12. Click 💾.

For more information about configuring the agent criteria, see the *Sterling Warehouse Management System Configuration Guide*.

6

Deploying nWMS Sterling PCA

This chapter provides information about deploying after running the runtime.

6.1 Rebuilding the Enterprise Archive File

To deploy the Sterling nWMS PCA, you need to recreate the Sterling Supply Chain Applications Enterprise Archive (EAR) package.

For more information about creating and deploying the Sterling Supply Chain Applications EAR, see the *Sterling Supply Chain Applications Installation Guide*.

6.2 Setting Up the Agent Server

This section describes how to set up the Sterling Networked Warehouse Management System PCA Agent Server and Agent Trigger.

If you have not already set up the Agent Server and Agent Trigger when installing the Sterling Supply Chain Applications, ensure that you set up the Agent Server and Agent Trigger. For more information about setting up the Agent Server and Agent Trigger, see the section describing Runtime Utilities in the *Sterling Supply Chain Applications Installation Guide*.

Additionally, in the agentServer and triggerAgentscript files (located in the `<YFS_HOME>/bin` directory), include the `<YFS_HOME>/extn/yfsdbextn.jar` file at the beginning of the CLASSPATH environment variable. Also, include the `<YFS_HOME>/lib/ynwbe.jar` and `<YFS_HOME>/lib/ynwshared.jar` in the CLASSPATH environment variable.

To install OptiSlot from Optricity, include `OptiSlot.jar` in the CLASSPATH environment variable.

6.3 Setting Up the Integration Server

This section describes how to set up the Sterling Networked Warehouse Management System PCA Integration Server.

If you have not already set up the Integration Server when installing the Sterling Supply Chain Applications, ensure that you set up the Integration Server. For more information about setting up the Integration Server, see the section describing Runtime Utilities in the *Sterling Supply Chain Applications Installation Guide*.

Additionally, in the integrationServer script file (located in the `<YFS_HOME>/bin` directory), include the `<YFS_HOME>/lib/ynwbe.jar` and `<YFS_HOME>/lib/ynwshared.jar` files in the CLASSPATH environment variable.

7

Launching the Application

This chapter explains the process of launching the Sterling nWMS PCA once the installation is complete.

7.1 Launching the Application

This section explains how to launch the Sterling nWMS PCA using the Application Console.

To launch the application:

1. Launch the application server.

2. Launch Internet Explorer.

3. Type the following URL in your browser's address bar:

   `http://<hostname>:<portnumber>/yantra/console/start.jsp`

   where,

   - `hostname` is the computer name or IP address of the computer where the Sterling Supply Chain Applications is installed.

   - `portnumber` is the listening port of the computer where the Sterling Supply Chain Applications is installed.

8

Verifying the Installation

This chapter explains how to verify that the Sterling nWMS PCA and its components have been installed correctly.

In case of failure of any of the installation verification steps:

- Make a note of the installation verification steps that fail.

- Ensure that all steps mentioned in the *Sterling Supply Chain Applications Installation Guide* have been completed correctly.

- If all steps mentioned in the *Sterling Supply Chain Applications Installation Guide* have been completed correctly and issues still exist, contact your Sterling Commerce representative or Sterling Supply Chain Applications Technical Support at `http://www.sterlingcommerce.com/scm_support/`, or call 1-877-926-8727.

> **Note:** For all sections in this chapter, except Section 8.1, it is necessary that you have the Sterling nWMS PCA Reference Implementation installed. You can also use your own data, to verify the installation.

8.1 Verifying the Sterling nWMS PCA Installation Using the Application Console

This section explains how to verify that the Sterling nWMS PCA has been installed successfully using the Application Console.

To verify that the Sterling nWMS PCA has been installed successfully:

1. Perform the steps explained in the Section 7.1, "Launching the Application".

2. When prompted for a Login ID and Password, enter "ynwadmin" (Sterling nWMS PCA Admin) for both. The Sterling nWMS PCA Admin menu displays.

3. Click the About Sterling Supply Chain Applications icon ⟳ .

4. If you see nWMS PCA Version 7.5, along with the build number, below the Sterling Supply Chain Applications version information, the Sterling nWMS PCA has been installed correctly.

8.2 Verifying the Mobile Application Installation Using Reference Implementation

This section explains how to verify that the Graphical User Interface Mobile Terminal and the Character User Interface Mobile Terminal have been installed successfully using the Sterling nWMS PCA Reference Implementation.

8.2.1 Verifying the Graphical User Interface Mobile Terminal

To verify that the Graphical User Interface Mobile Terminal has been installed successfully:

1. From the Taskbar, select Start.

2. Select Programs > SupplyChainMobileApp.

3. Select the application server's URL.

4. When prompted for a Login ID and Password, enter "dc1m1" (mobile user) for both.

5. Click Login. If the Menu Page window displays, the Sterling nWMS PCA has been installed correctly.

6. Click Logout to quit the Sterling Supply Chain Mobile Application.

Troubleshooting Tip:

Problem

An error message, "A connection with the server could not be established" occurs.

Cause

The Mobile device is in power save mode. You switched on the device and immediately started using it.

Resolution

Close the error message box and wait for 10-15 seconds for the system to restore network connections.

8.2.2 Verifying the Character User Interface Mobile Terminal

To verify that the Character User Interface Mobile Terminal has been installed successfully:

1. From the `$VT220HOME` directory, run

   `yantravt220 -i [IP Address] -p [Port Number]`

   where, `[IP Address]` and `[Port Number]` are the application server's IP Address and Port Number, respectively.

   For example: `-i 10.11.20.93 -p 9001`

   The other parameters available at the command level are:

   `-d [Debug Level] -f [FileName] -l [Logfile] -t [Title Line]`

   Note: To ensure that the relevant screen titles, such as Pre-Receive, Receive, or Task Type, are displayed in the CUI Mobile Terminal screen, run the `yantrav220` command with the `-t` parameter at the command level.

   ---

2. The Sterling Supply Chain Applications Mobile Application login screen displays.

3. When prompted for a Login ID and Password, enter "dc1m1" (mobile user) for both.

4. Press F3. If the Menu Page window displays, the Sterling nWMS PCA has been installed correctly.

5. Press F10 to quit the Sterling Supply Chain Mobile Application.

8.3 Verifying the Third-Party Components Installation Using Reference Implementation

Verify that the Reference Implementation has been installed successfully, so that you can verify the third-party components installation:

1. Log into the Sterling nWMS PCA application as any user defined in the Sterling nWMS PCA Reference Implementation. For example, "dc1mgr".

2. If the login succeeds, the Sterling nWMS PCA Reference Implementation has been installed correctly.

8.3.1 Verifying the Loftware/ Printer Installation for Label Print

To verify that the printer has been installed successfully:

1. Log into the Sterling Supply Chain Applications as "dc1mgr" defined in the Sterling nWMS PCA Reference Implementation.

2. Navigate to Outbound > Outbound Shipment Console in the application.

3. Click the `Search` button in the Outbound Shipment Console > Search by Status screen.

4. Select any shipment from the Shipment List screen.

5. Click the Print action. The Print window displays.

6. From the Print Service Name drop-down list, select PrintPackList.

7. From the Printer Name drop-down list, select the name of the printer.

8. Click `OK`.

9. If the Packing Slip is printed, the Loftware/Printer installation is successful.

> **Note:** To print using the socket mode, ensure that you set the `yfs.loftware.tcpip.sockets` property in the `yfs.properties` file to `'Y'`.

8.3.2 Verifying the Weighing Scale Installation for Outbound Shipping

To verify that the weighing scale has been installed successfully:

1. Log into the Sterling Supply Chain Applications as "dc1admin" (system administrator user) defined in the Sterling nWMS PCA Reference Implementation.

2. Navigate to Outbound > Weigh Station Console in the application.

3. Click the Weigh action.

4. If the weight of the container displays in the Actual Weight field, the weighing scale has been installed correctly.

8.3.3 Verifying the FedEx FXRS Installation for Parcel Shipping

To verify that FedEx FXRS has been installed successfully:

1. Log into the Sterling Supply Chain Applications as "dc1s1" (station user) defined in the Sterling nWMS PCA Reference Implementation.

2. Navigate to Outbound > Manifest Station Console in the application.

3. Scan a shipment container that is in the Packed status. If there is no shipment container in Packed status, run the transaction data for FedEx to get the Packed shipment containers.

4. Click the Add to Manifest action.

5. If the Freight Charge and Tracking No are displayed in the console, FedEx FXRS has been installed correctly.

8.3.4 Verifying the Cognos ReportNet Installation for Report Print

To verify that Cognos ReportNet has been installed successfully:

1. Log into the Sterling Supply Chain Applications as "dc1mgr" (warehouse manager user) defined in the Sterling nWMS PCA Reference Implementation.

2. Navigate to Inventory > Inventory Aging Report in the application. The Inventory Aging Report Search Screen displays.

3. Enter the criteria and click Execute Report.

4. If the Inventory Aging Report is generated, Cognos ReportNet has been installed correctly.

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