


Networked Warehouse Management System PCA

Analytics Guide

Release 7.5

July 2007

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Preface

This document describes how to use Sterling nWMS PCA Analytics to create operational and analytical reports.

Intended Audience

This document is intended for use by application developers, system administrators, and analytic users who use Sterling nWMS PCA Analytics to design, deploy, and analyze reports that present your warehouse management data from various angles, enabling you to quickly identify performance trends and make consistent, coordinated decisions to strengthen your supply chain relationships.

In some areas, this document assumes a working knowledge of the related Cognos products as well as the Sterling Supply Chain Applications. Therefore, it is highly recommended that you read the related Cognos documentation first for a better understanding of Sterling nWMS PCA Analytics.

Structure

This document contains the following chapters:

Chapter 1, "Introduction"

This chapter introduces the Sterling nWMS PCA Analytics and its architecture.

Chapter 2, "Installing and Configuring the Sterling nWMS PCA Analytics"

This chapter explains how to install Cognos Corporation's ReportNet and supporting products.

Chapter 3, "Sterling nWMS PCA Analytics Framework"

This chapter provides a detailed description of the aspects of the Sterling nWMS PCA Analytics Framework (YNA); the foundation where you build a rich set of reports, and (in future releases) other OLAP objects and tools.

Chapter 4, "Sterling nWMS PCA Analytics Reports"

This chapter describes the reports provided with Sterling nWMS PCA Analytics.

Chapter 5, "Deploying Reports"

This chapter explains how to deploy the Sterling nWMS PCA Analytics reports or reports that you have created using Cognos products.

Chapter 6, "Localizing Reports"

This chapter explains how to localize the Sterling nWMS PCA reports.

Chapter 7, "Extending the Sterling nWMS PCA Analytics Data Model"

This chapter explains how to extend the Data Model.

Chapter 8, "Troubleshooting and Tuning"

This chapter provides information for solving problems that can occur using Sterling nWMS PCA Analytics.

Appendix A, "Sterling nWMS PCA Analytics Views" This appendix describes the abstraction layer on the YFS tables called the Sterling nWMS PCA Analytics Views.

Appendix B, "Server Sizing Requirements"

This appendix describes the server requirements for the Cognos ReportNet components.

Appendix C, "Cognos Components"

This appendix provides a complete list of Cognos components.

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.

Cognos Documentation

For more information about the Cognos components, see the following Cognos documents (grouped by component):

ReportNet

- Installation and Configuration Guide
- Quick Start Installation and Configuration Guide
- Architecture and Planning Guide
- Cognos Configuration User Guide
- Cognos ReportNet New Features
- Getting Started
- Cognos Report Studio User Guide
- Query Studio User Guide
- Cognos ReportNet User Guide
- Cognos ReportNet Administration and Security Guide
- Cognos ReportNet Troubleshooting Guide

- Cognos ReportNet Readme
- Framework Manager
 - Installation and Configuration Guide
 - Quick Start Installation and Configuration Guide
 - Architecture and Planning Guide
 - Cognos Configuration User Guide
 - Cognos ReportNet New Features
 - Getting Started
 - Framework Manager User Guide
 - Cognos ReportNet Troubleshooting Guide
 - Cognos ReportNet Readme
- Cognos SDK
 - Cognos ReportNet Software Development Kit Installation and Configuration
 - Cognos ReportNet Developer Guide
 - Framework Manager Developer Guide
 - Cognos ReportNet Software Development Kit Readme
 - Cognos ReportNet Software Development Kit Getting Started

Conventions

Sterling nWMS PCA Analytics Components refers to Cognos products only.

Sterling nWMS PCA Analytics refers to the Sterling nWMS PCA Analytics Components plus the Sterling nWMS PCA Analytics Framework.

Sterling nWMS PCA Analytics is also referred to as Analytics.

Sterling nWMS PCA Analytics Framework is the framework that includes the Sterling nWMS PCA reports.

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.
/ 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.

Introduction

The Sterling nWMS PCA Analytics component is an optional component, providing powerful analytic and performance metrics that interface with the Sterling Supply Chain Applications data set. The Sterling nWMS PCA Analytics enables you to explore and analyze warehouse data. Warehouse managers, inventory supervisors, etc. can then use these data to identify performance trends and make consistent, coordinated decisions to strengthen your extended enterprise and value chain relationships.

Sterling nWMS PCA Analytics is delivered through a partnership with Cognos Corporation. The goal of Sterling nWMS PCA Analytics is to enhance the value of the Sterling Supply Chain Applications solution by providing operational and analytical reporting capabilities to Sterling Supply Chain Applications users and their suppliers and partners.

This chapter provides information about:

- [Cognos Reportnet](#)
- [The Sterling nWMS PCA Analytics Components](#)
- [Report Flow Diagram](#)
- [Sterling nWMS PCA Analytics and Cognos Integration](#)

1.1 Cognos Reportnet

The Sterling nWMS PCA Analytics component integrates with the Cognos ReportNet. Cognos Reportnet is Cognos' Web enabled client-side reporting tool used for creating and managing ad hoc and scheduled reports. ReportNet includes Query Studio and Report Studio. Query Studio enables you to create ad hoc reports through a graphical user

interface and save the reports in a variety of formats, such as pdf, Excel, real-time reports, or prompted reports. Report Studio is used to create managed reports that are maintained, reused, and require a higher level of complexity than a report produced in Query Studio.

1.2 The Sterling nWMS PCA Analytics Components

The Sterling nWMS PCA Analytics component is delivered with the following:

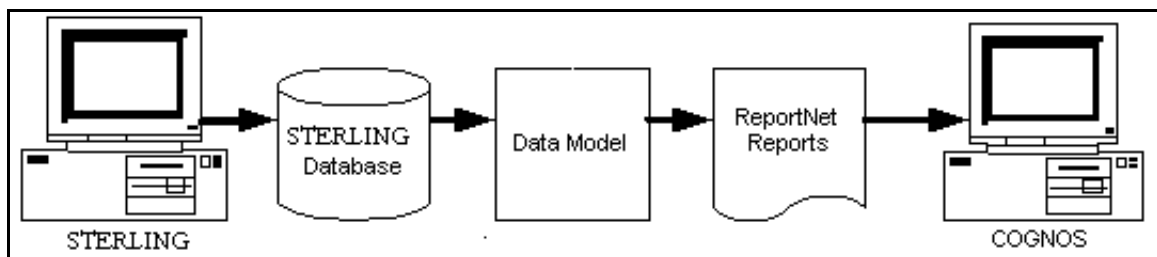
- [Data Model](#)
- [Database Scripts](#)
- [Scripts and Custom Files](#)

The Sterling nWMS PCA Analytics Data Model is a metadata model created using Framework Manager. This Data Model is used to build ReportNet reports. The reports generated by Report Studio are viewed using Cognos Connection. Cognos Connection is used for administering security.

1.2.1 Data Model

The Data Model provided by Sterling nWMS PCA Analytics is the base for creating reports. The Data Model consists of a set of functionally grouped entities. [Figure 1–1, "Report Flow Diagram"](#) illustrates the flow of report creation.

Figure 1–1 Report Flow Diagram



1.2.2 Database Scripts

Sterling nWMS PCA Analytics provides the set of scripts that create the Analytics views on the Sterling Supply Chain Applications Database. These are located in:

```
Analytics/Database/oracle/Scripts,  
Analytics/Database/db2/Scripts,  
Analytics/Database/sqlserver/Scripts
```

For more information about the scripts, see [Chapter 2, "Installing and Configuring the Sterling nWMS PCA Analytics"](#).

1.2.3 Scripts and Custom Files

The scripts (located in `Analytics/Scripts/sample`) are batch files or shell scripts. The custom files (located in `Analytics/Custom`) are used to enhance the user's experience of Analytics.

For more information about scripts and custom files, see [Chapter 2, "Installing and Configuring the Sterling nWMS PCA Analytics"](#).

1.3 Sterling nWMS PCA Analytics and Cognos Integration

Sterling nWMS PCA Analytics provides access to Cognos Reports through the Sterling nWMS PCA Console. You must have authorization to access these reports.

Installing and Configuring the Sterling nWMS PCA Analytics

This chapter describes how to install Cognos products when using the Sterling nWMS PCA Analytics component. This chapter also explains the subsequent Sterling nWMS PCA setup.

2.1 Cognos Setup

Before using the Sterling nWMS PCA Analytics component, install the following Cognos products in accordance with Cognos' installation instructions for each product:

Note: If you are installing all Cognos products on one machine, we recommend that you install them in the order presented here.

- ReportNet version 1.1 MR3
- Framework Manager

Note: Depending on your usage (volume, users, data) Cognos recommends different configurations for the various servers used in this setup. Follow the recommendations to avoid setup related performance issues down the road. For sample server sizing guidelines, see [Appendix B, "Server Sizing Requirements"](#).

2.1.1 Security Setup

The Sterling nWMS PCA Analytics components do not ship with security enabled because it would complicate the deployment at a client site. All report components of the Sterling nWMS PCA are developed with the default "administrator" user privileges (login id=administrator, no password) using the default "Creator" user class in the "default" namespace. It is recommended that you enable security for the various Cognos components and subsequently the Sterling nWMS PCA Analytics components after they are installed.

2.2 Pre-Installation Setup

Before you begin installing the Sterling nWMS PCA Analytics, ensure that:

- The Cognos Connection has been installed.
- The content repository has been created through the Cognos Configurator.
- A Data Source has been created using Cognos Connection. This data source must be named "yantra".
- If you install Sterling Supply Chain Applications and Sterling nWMS PCA on the same computer, ensure that <YFS_HOME> and <YNW_ANALYTICS_HOME> do not point to the same directory.

Note: To generate reports using an Oracle database, the Oracle Client should be installed on the same machine as Cognos ReportNet.

For more information, see the Cognos Configuration User Guide.

2.2.1 For Localizing Reports

If you need to localize your reports, you must set the NLS_LANG environment variable to the appropriate value. The NLS_LANG environment variable has three components: language, territory, and character set.

If you have installed Cognos on Unix

Export the NLS_LANG environment variable in the format `language_territory.UTF8`. For example, `American_America.UTF8`

If you have installed Cognos on Windows

Do the following:

1. Stop ReportNet on the server.
2. Navigate to Start > Run > Regedit.
3. Create a backup of the registry by selecting Registry > Export Registry File.
4. Navigate to HKEY_LOCAL_MACHINE > SOFTWARE > ORACLE.
5. Under the ORACLE directory, locate `Key_OraDB10g_home1` or something similar.
6. On the right hand side of the registry window locate NLS_LANG.
7. Select NLS_LANG and right-click the entry. From the menu, select Modify.
8. Modify the NLS_LANG entry as follows:
`NLS_LANG = language_territory.UTF8`
 For example, `NLS_LANG = American_America.UTF8`
9. Close the registry editor.
10. Navigate to Start > My Computer and right-click on My Computer.
11. From the menu, select Properties. The System Properties pop-up window displays.
12. In the System Properties pop-up window, click the Advanced tab.
13. In the Advanced tab window, click Environment Variables. The Environment Variables pop-up window displays.

14. In the Environment Variables pop-up window > System variables area, click New. The New System Variable pop-up window displays.
15. In the New System Variable pop-up window,
 - a. In Variable name, enter NLS_LANG.
 - b. In Variable value enter <language_territory.UTF8>. For example, AMERICAN_AMERICA.UTF8.
 - c. Click OK.
16. In the Environment Variables pop-up window, click OK.
17. In the System Properties pop-up window, click OK.
18. Restart your computer to enable your new environment variable.

2.3 Cognos ReportNet

The ReportNet Component does not ship with security enabled. Cognos Connection should be used to enable security for these components.

Implementations must use the Sterling Supply Chain Applications Authentication Mechanism to authenticate users for viewing reports.

The database for content store for Oracle must have either UTF-8 or UTF-16 encoding. For more information on creating the database for content store, refer to the *Cognos ReportNet[TM] Quick Start Installation and Configuration Guide*.

You can copy the oracle thin driver to <COGNOS_HOME>/webapps/p2pd/WEB-INF as classes12.jar. For more information on Oracle or DB2 drivers refer to *Cognos ReportNet[TM] Installation and Configuration Guide*.

Since Cognos ReportNet cannot access <YFS_HOME>/resources/ directory, you can include ReportNet connectivity information for Sterling Supply Chain Applications in <YFS_HOME>/bin/yantra.properties. The parameters referred in this file is the same as the ones mentioned in yfs.properties. For more information on the parameters defined in yfs.properties see *Sterling Supply Chain Applications Installation Guide*.

Note: To execute reports successfully, ensure that you set the `Enable CAF validation?` flag to `False`, in the Cognos Configurator.

2.4 Sterling nWMS PCA Analytics Setup

Before you can use the Sterling nWMS PCA Analytics component, you must:

1. Install Sterling nWMS PCA Analytics:
 - **For Windows:** Insert the CD-ROM in your CD-ROM drive, select the `win` directory. Run the installer manually by double-clicking the `setup.exe` file. When the installer window opens, follow the directions.
 - **For Unix:** Insert the CD-ROM into your CD-ROM drive and locate the `setup.bin` file is found in the directory corresponding to the Analytics installation operating system. From the operating system directory, run the `./setup.bin` command.
 - For example, in case of AIX operating system, run the `./setup.bin` command from the `AIX` directory.

Note: The `setup.bin` by default requires X-windows client for installation. In case, you wish to install in interactive mode, run the following command:

```
./setup.bin -i console
```

- When the installer opens, follow the directions.
2. Create the Analytics views in the Sterling Supply Chain Applications database. For more information about creating the Analytics views, see [Section 2.4.1, "Creating Sterling nWMS PCA Analytics Table Views"](#).
 3. Run scripts to install the custom files. For more information about running scripts, see [Section 2.4.2, "Running Custom Scripts"](#).

2.4.1 Creating Sterling nWMS PCA Analytics Table Views

Before you can use the Sterling nWMS PCA Analytics component, you must create the Analytics views in the Sterling Supply Chain Applications database. The Analytics meta data model is created from a set of Sterling nWMS PCA Analytics Framework (YNA) views instead of the YFS tables directly.

Note:

- If you are using a SQL Server database, ensure that Sterling nWMS PCA Analytics is installed on Windows.
- In the `yna_master_db_script.xml` file, set the `delimiter` property to `GO`.

The YNA views are used specifically by the Analytics framework. The naming convention for these views is `YNA_<view_name>_VW`.

You can choose to generate WithHistory views or WithoutHistory views, based on your implementation requirements.

For more information about WithHistory and WithoutHistory views, see [Section 3.1, "Sterling nWMS PCA Analytics Framework Views"](#).

2.4.1.1 Creating WithHistory Views

WithHistory views are views that include data from History tables.

To create WithHistory views:

1. Edit the `yna_master_db_script.xml` file located in the `<YNW_ANALYTICS_HOME>/database/<database>/Scripts/WithHistory` directory as follows:
 - a. Set the appropriate path for the DB Driver Directory in the `dir` attribute of the `fileset` element:
For example: `<fileset dir="/db/lib">`
 - b. If Sterling Supply Chain Applications and Sterling nWMS PCA Analytics are installed on the same server, set the `file` attribute in the `property` element to point to the `yfs.properties` file.
For example: `<property file="/yantra/install/resources/yfs.properties"/>`

If Sterling Supply Chain Applications and Sterling nWMS PCA Analytics are installed on different servers copy the `yfs.properties` file from the Sterling Supply Chain Applications server to the Sterling nWMS PCA Analytics server, and set the `file` attribute in the `property` element to point to the copied `yfs.properties` file.

For example: `<property
file="/yantra/install/resources/yfs.properties"/>`

2. Execute the following script in the `<YNW_ANALYTICS_HOME>/database/<database>/Scripts/WithHistory` directory, where `<database>` refers to `oracle`, `db2`, or `sqlserver`:

```
ant -f yna_master_db_script.xml -logfile  
yna_master_db_script.log
```
3. On executing the above command, `yna_master_db_script.log` file is created under the `WithHistory` directory. You can use this file to search for errors, if any.

2.4.1.2 Creating WithoutHistory Views

WithoutHistory views are views that do not include data from History tables.

To create WithoutHistory Views:

1. Edit the `yna_master_db_script.xml` file located in the `<YNW_ANALYTICS_HOME>/database/<database>/Scripts/WithoutHistory` directory as follows:
 - a. Set the appropriate path for the DB Driver Directory in the `dir` attribute of the `fileset` element:

For example: `<fileset dir="/db/lib">`

- b. If Sterling Supply Chain Applications and Sterling nWMS PCA Analytics are installed on the same server, set the `file` attribute in the `property` element to point to the `yfs.properties` file.

For example: `<property
file="/yantra/install/resources/yfs.properties"/>`

If Sterling Supply Chain Applications and Sterling nWMS PCA Analytics are installed on different servers copy the `yfs.properties` file from the Sterling Supply Chain Applications

server to the Sterling nWMS PCA Analytics server, and set the file attribute in the property element to point to the copied yfs.properties file.

For example: <property
file="/yantra/install/resources/yfs.properties"/>

2. Execute the following script in the
<YNW_ANALYTICS_HOME>/database/<database>/Scripts/WithoutHistory directory, where <database> refers to oracle, db2, or sqlserver:


```
ant -f yna_master_db_script.xml -logfile  
yna_master_db_script.log
```
3. On executing the above command, yna_master_db_script.log file is created under the WithoutHistory directory. You can use this file to search for errors, if any.

Error Messages in DB2 Universal Database

Some Failed to execute errors may be displayed during the **first run** of the above command in DB2 Universal Database. The errors are typically of the following type and may be ignored:

```
[sql] Failed to execute: DROP VIEW YNA_STATUS_VW  
[sql] com.ibm.db2.jcc.b.SqlException: DB2 SQL error: SQLCODE: -204,  
SQLSTATE: 42704, SQLERRMC: STAGING.YNA_STATUS_VW
```

2.4.2 Running Custom Scripts

To install a set of customized web pages and images that enhance the users' experience of the Sterling nWMS PCA Analytics web component and to enable Sterling Supply Chain Applications branding in this installation, you must complete the following:

For Windows

1. Set the environment variables for COGNOS and ANALYTICS in the following scripts:
 - Image_Setup.bat
 - Customize_Cognos_Connection.bat

2. Images: Execute
`<YNW_ANALYTICS_HOME>\scripts\Image_Setup.bat`. This copies some Sterling Supply Chain Applications images over the Cognos connection.
3. Customizing Cognos Connection: Execute
`<YNW_ANALYTICS_HOME>\scripts\Customize_Cognos_Connection.bat`. This customizes Cognos Connection according to Sterling Supply Chain Applications specifications.

For Unix

1. Set the environment variables for COGNOS and ANALYTICS in the following scripts:
 - `<YNW_ANALYTICS_HOME>/scripts/image_setup.sh`
 - `<YNW_ANALYTICS_HOME>/scripts/customize_cognos_connection.sh`
2. Images: Execute `<YNW_ANALYTICS_HOME>/scripts/image_setup.sh`. This copies some Sterling Supply Chain Applications images over the Cognos connection.
3. Customizing Cognos Connection: Execute
`<YNW_ANALYTICS_HOME>/scripts/customize_cognos_connection.sh`. This customizes Cognos Connection according to Sterling Supply Chain Applications specifications.

2.5 Deploying Sterling WMS Analytics Reports

To deploy the Sterling nWMS PCA Analytics Reports follow these steps to Import the `nWMS-Analytics.zip` into the Cognos Content Repository.

1. Set the `YNW_ANALYTICS_HOME` environment variable as the Analytics Installation directory.
2. Set the `COGNOS_HOME` environment variable as the parent of Cognos ReportNet Installation directory.

For example: If Cognos ReportNet is installed in the `/usr/local/cognos/crn` directory, `COGNOS_HOME` should point to `/usr/local/cognos` directory.

3. Set the `DISPLAY` environment variable as appropriate to an X-Windows terminal.
4. The `ynwinstallanalytics.xml` assumes that you have installed Cognos ReportNet and Sterling nWMS PCA Analytics on the same machine. If, however, you have installed Cognos ReportNet and Sterling nWMS PCA Analytics on two separate machines, modify the following line of the xml by replacing `localhost` with the IP address of the machine where Cognos ReportNet has been installed:

```
<property name="cognosurl"
value="http://localhost/crn/cgi-bin/cognos.cgi"/>
```

Note: Ensure that you copy the following third-party jar files from

`<COGNOS_HOME>/crn/webapps/p2pd/WEB-INF/lib` to
`<YNW_ANALYTICS_HOME>/lib`:

- `axis.jar`
- `axisCrnpClient.jar`
- `CAM_AAA_CustomIF.jar`
- `commons-discovery.jar`
- `dom4j.jar`
- `jaxrpc.jar`
- `saaj.jar`
- `wsdl4j.jar`
- `commons-logging.jar`
- `xalan.jar`
- `xercesImpl.jar`
- `xml-apis.jar`

5. If Sterling nWMS PCA Analytics and Cognos ReportNet are installed on the same machine, you must additionally run the `target copylib` in `ynwinstallanalytics.xml`

Run the following command from <YNW_ANALYTICS_HOME>/bin
`ant -f ynwinstallanalytics.xml copylib`

Running this target copies:

- <YNW_ANALYTICS_HOME>/lib/yantra-auth.jar to <Cognos ReportNet Installation Directory>/webapps/p2pd/WEB-INF/lib directory
- <YNW_ANALYTICS_HOME>/bin/yantra.properties.sample to <Cognos ReportNet Installation Directory>/webapps/p2pd/WEB-INF/classes directory
- <YNW_ANALYTICS_HOME>/deployment/nWMS-Analytics.zip to <Cognos ReportNet Installation Directory>/deployment directory

If Sterling nWMS PCA Analytics and Cognos ReportNet are installed on different machines, copy over the <YNW_ANALYTICS_HOME>/lib/yantra-auth.jar to <Cognos ReportNet Installation Directory>/crn/webapps/p2pd/WEB-INF/lib directory on the machine where Cognos ReportNet has been installed.

Copy the file

<YNW_ANALYTICS_HOME>/bin/yantra.properties.sample to the <Cognos ReportNet Installation Directory>/webapps/p2pd/WEB-INF/classes directory.

Copy the file

<YNW_ANALYTICS_HOME>/deployment/nWMS-Analytics.zip to the appropriate deployment directory configured in the Cognos configuration.

6. Ensure that the Cognos service has been started with `Allow anonymous access` set to `True`. After successful import of the content repository, set `Allow anonymous access` to `False`.
7. Run the following command from <YNW_ANALYTICS_HOME>/bin:
`ant -f ynwinstallanalytics.xml`

This publishes the Sterling nWMS PCA Analytics package with reports onto the Cognos Content Repository.

8. Save the file <Cognos ReportNet Installation Directory>/webapps/p2pd/WEB-INF/classes/yantra.properties.sample as yantra.properties in the same directory.
9. Change the value of the yantra.app.url property in the yantra.properties file to point to the Sterling Supply Chain Applications Application URL as follows:

yantra.app.url=http://hostname:portnumber/yantra
where,

- hostname is the computer name or IP address of the computer where the Sterling Supply Chain Applications are installed.
- portnumber is the listening port of the computer where the Sterling Supply Chain Applications are installed.

2.6 Sterling Supply Chain Applications Authentication Mechanism

Sterling Commerce recommends that implementations use the Sterling Supply Chain Applications Authentication Mechanism to authenticate users for viewing reports.

To setup the Sterling Supply Chain Applications Authentication Mechanism:

- Launch Cognos Configuration
- Go to Security > Authentication
- Add a new resource Namespace "yantra" of the type Custom Java Provider
- Assign namespace ID yantra to this namespace resource
- Assign Java classname
com.yantra.authenticator.YantraAuthentication

2.7 Modifying Yfs.properties

To launch reports using the Sterling Supply Chain Application Consoles, modify the attributes specified in this section. These attributes are

present in the <YANTRA_HOME>/Application/Foundation/resources directory.

After modifying these properties, update the Sterling Supply Chain Applications runtime. For more information about updating the Sterling Supply Chain Applications runtime, see the *Sterling Supply Chain Applications Installation Guide*.

2.7.1 To Launch ReportNet Analytics

To launch ReportNet Analytics from the Sterling nWMS PCA, you must add the following URL to your yfs.properties file:

```
analytics.reportnet.url=http://<machinename>/crn/cgi-bin/cognos.cgi
```

<machinename> should be replaced with the machine name or the IP address of the Cognos ReportNet installation machine.

Note: DO NOT change the other parts of this URL. The Analytics access from the Sterling Supply Chain Applications may fail.

You must also add the following line, which indicates the namespace that will be configured to authenticate users in COGNOS ReportNet.

```
analytics.namespace=<yantra>
```


Sterling nWMS PCA Analytics Framework

This chapter provides a detailed description of the Sterling nWMS PCA Analytics Framework (YNA) that is the foundation where you build a set of reports.

The Sterling nWMS PCA Analytics Framework consists of:

- Sterling nWMS PCA Analytics Framework views in the Sterling Supply Chain Applications database (see [Section 3.1, "Sterling nWMS PCA Analytics Framework Views"](#) on page 20)
- Data Model (see [Section 3.2, "Data Model"](#))

You must complete the following tasks for a complete utilization of Sterling nWMS PCA Analytics for analysis and reporting:

- Create views in the Sterling Supply Chain Applications Database (see [Section 2.4.1, "Creating Sterling nWMS PCA Analytics Table Views"](#) on page 10)
- Optionally, Build Reports (see [Section 3.3, "Designing Reports"](#) on page 26)
- Deploy Reports (see [Chapter 5, "Deploying Reports"](#))
- Refresh Reports (see [Chapter 5, "Deploying Reports"](#))
- Optionally, Extend Reports

[Figure 1–1, "Report Flow Diagram"](#) illustrates the flow for report building.

3.1 Sterling nWMS PCA Analytics Framework Views

The Sterling nWMS PCA Analytics Framework (YNA) views are the foundation for the Analytics metadata model. They provide flexibility when exposing the underlying table changes in the database. These views also hide some of the complex table joins and the "where" clauses that are specific to the design of the Sterling Supply Chain Applications system. If you extend the basic Data Model to include other tables from the Sterling Supply Chain Applications Database, Sterling Commerce recommends following the same methodology. For more details about extending the Data Model, see [Chapter 7, "Extending the Sterling nWMS PCA Analytics Data Model"](#). Column names of the views are usually identical to the underlying table field name.

Most of the views span one table. Others span multiple related tables providing a list of columns containing important transactional information. Some views contain denormalized information that help in reducing the complexity of the Data Model. For example, the YFS_PERSON_INFO table has been denormalized in all the related views.

Sterling nWMS PCA Analytics provides two sets of views: WithHistory and WithoutHistory. WithHistory views contain the Sterling nWMS PCA Analytics view set and run against the historical and non-historical data. WithoutHistory views contain the Sterling nWMS PCA Analytics view set but only runs against non-historical data.

Important: WithHistory and WithoutHistory views work off the same view names and set of folders. Configure the model to access different view sets from different schema, one for historical data and one for non-historical data.

3.2 Data Model

The Data Model is a metadata model that provides:

- A single administration point for metadata supporting ReportNet reports.
- Centralized business rule definitions for maintenance and consistency.
- Access to data from several different types of sources.

- Expanded querying and reporting capabilities.
- Centralized data access setup (permissions)

3.2.1 Star to Snowflake Model

In a normalized database, there are typically master tables and transactional tables. The master table data is shared by many transactional tables, or a given transactional table may have multiple columns as foreign keys for the same master table. In a query, when this type of transactional table(s) are joined to the same master table, the master table is repeated in the SQL query. For example:

```
SELECT <Required_Column> FROM YFS_ORGANIZATION O, YFS_PERSON_INFO PI1,
YFS_PERSON_INFO PI2,
      YFS_PERSON_INFO PI3
WHERE O.CORPORATE_ADDRESS_KEY = PI1.PERSON_INFO_KEY (+) AND
      O.CONTACT_ADDRESS_KEY = PI2.PERSON_INFO_KEY (+) AND O.BILLING_ADDRESS_KEY =
      PI3.PERSON_INFO_KEY (+)
```

In this example, the Person Info master table has been repeated for each referencing column. If the Organization table was joined to another table that had more references to the Person Info table, you would see more Person Info tables in the query.

In the Data Model, joins are created between the entities to represent the relationships between them. Naturally, if there was only one entity for a master table, and more than one reference was needed to it in a particular query, the SQL that is produced will not be correct. For example:

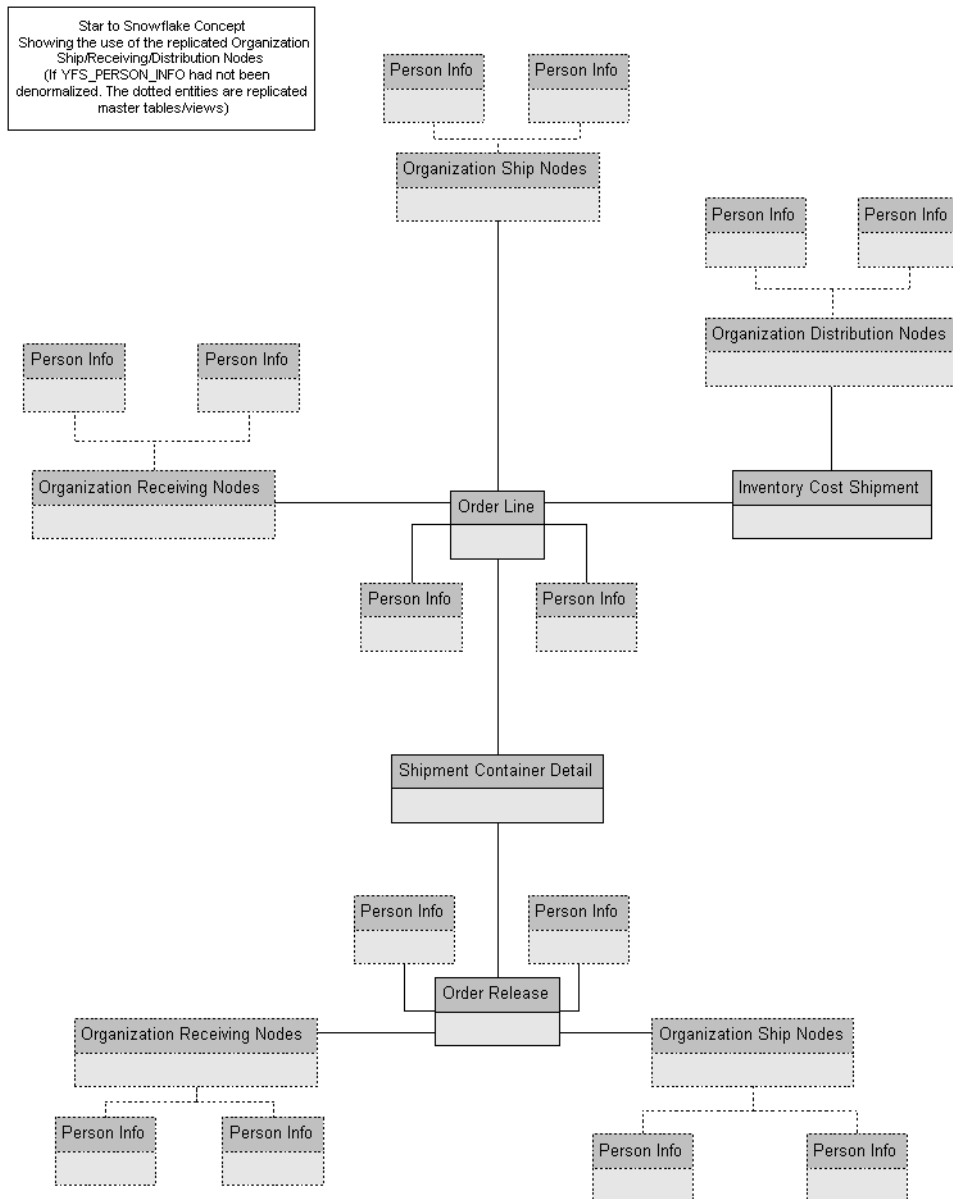
```
SELECT <Required_Column> FROM YNA_ORDER_LINE_VW OL,
YNA_ORGANIZATION_SHIP_NODES_VW SN
WHERE OL.SHIP_NODE_KEY = SN.SHIP_NODE_KEY AND OL.RECEIVING_NODE =
      SN.SHIP_NODE_KEY .
```

This query is not correct. Therefore, in this case, you need two entities in the Catalog that correspond to the YNA_ORGANIZATION_SHIP_NODES_VW view. This is done by replicating the entity Organization Distribution Nodes into Organization Receiving Nodes and Organization Ship Nodes. These are now joined individually to the Order Line's columns above.

If more entities require the same set of master tables, the master tables can be further replicated in the Catalog. For example, Organization Receiving Nodes and Organization Ship Nodes are required both by Order Line and Order Release. So there are two instances of each Node table in the Catalog.

Other tables may need to be similarly replicated from views. For details on these views, see [Appendix A, "Sterling nWMS PCA Analytics Views"](#). As this replication is extended for more and more master tables, the Star model of the database begins to look like a Snowflake. [Figure 3–1, "Star to Snowflake Model"](#) illustrates this concept.

Figure 3–1 Star to Snowflake Model



3.2.2 Data Model Objects

The Data Model provides a simplified, English-oriented, non-technical view of the metadata. In the Data Model, business entities are defined and information is renamed to enable it to be represented using common business names and grouped from a business perspective. The Data Model provides intuitive access to the report building blocks. Using Tools>Modify Names, you can change the names of the columns. This function provides a list of name rules that are executed for these entities. The Data Model has the following components:

- [Filters](#)
- [Entities](#)
- [Joins](#)

3.2.2.1 Filters

A filter is provided by Sterling Supply Chain Applications that is used to narrow down the selected data. Filters are required for limiting access to data for different classes of users.

A filter includes the data that is 'filtered' (filtered in, not filtered out). For the condition level detail of a filter, see the filter properties in the model. The SQL that is formed in cases where a filter is applied contains the condition of the filter. The filter that is provided:

- **Sales Order** – limits data to the Document_Type of 0001.

3.2.2.2 Entities

The Data Model includes entities from the views and entities created in the model.

Entities from Views

For details on these entities, see [Appendix A, "Sterling nWMS PCA Analytics Views"](#).

Entities Created in the Catalog

When a normalized database, typically represented as a star model, is modeled, it is denormalized in the model to allow multiple joins in the same tables. That is, a star model is expanded into a snowflake. (See [Section 3.2.1, "Star to Snowflake Model"](#).) Some of this denormalization

is done in the YNA views for commonly joined tables, such as YFS_PERSON_INFO. Other entities have been duplicated in the Data Model.

3.2.2.3 Joins

Joins are created in the Data Model. This reduces the maintenance overhead for the model.

Cardinalities for Joins

The cardinality for the joins are specified in accordance with the database design logic for the various entities. For example, An Order Header may not always have a Carrier Service Code. Therefore, the cardinality for the Order Header join with Organization Carrier is 0:1 on the Carrier side.

Additionally, to allow flexibility in reporting, some of the joins have optional cardinality (0:1 or 0:n). This is done so that, in a query, the main entity's data set is not restricted by the lack of data in the views it is joined with. Typically, the transactional views do not have optional joins, however, the master views can have them.

The Data Model allows changing of the optional cardinality to a direct join at an individual report level [ReportNet>Report>Query>Access>"Include the missing table join values (outer join)" check box]. For example, see ["Join Cardinality Flexibility"](#).

Join Cardinality Flexibility

The Item and Item Alias entities have a 1:1-0:n join in the business layer. When ReportNet report containing these two entities is created, it is as follows:

```
select T1."MANUFACTURER_NAME" as c1,
       T2."ALIAS_NAME" as c2
from ("YNA_ITEM_VW" T1 left outer join "YNA_ITEM_ALIAS_VW" T2 on T2."ITEM_KEY" =
T1."ITEM_KEY")
--If we now uncheck the Report->Query->Access->"Include the missing table join
--values (outer join)" check box, the query changes to
select T1."MANUFACTURER_NAME" as c1,
       T2."ALIAS_NAME" as c2
from "YNA_ITEM_ALIAS_VW" T2,
YNA_ITEM_VW" T1
where (T2."ITEM_KEY" = T1."ITEM_KEY")
```

However, if the join in the business layer was 1:1-1:n instead, the above flexibility would not have been possible to achieve.

3.3 Designing Reports

Reports are created using ReportNet. Please refer to the Cognos ReportNet documentation for information about designing reports.

Sterling nWMS PCA Analytics Reports

To aid warehouse managers responsible for decision-making in terms of inventory, inbound, outbound, and other operations in the warehouse, the Sterling nWMS PCA provides many reports. Access to these reports is controlled, based on the group to which the user belongs.

The Sterling nWMS PCA reports can also be used by enterprise users for tracking inventory across nodes. These reports aid enterprise users in better decision-making by providing complete visibility to the inventory across all nodes.

The Sterling nWMS PCA also provides a better user interface by integrating reports with the Sterling Supply Chain Application Consoles. Dynamic menus are provided to enable users to access reports from the appropriate consoles. The reports displayed in the menu are based upon the user's group. For example, only users who belong to the group representing warehouse managers can view the Order Billing Report and the Shipment Billing Report in their menu. Data security is maintained in the reports by allowing only users with appropriate permissions to access the information.

Once the user navigates to the search screen of a specific report, the criteria for generating the report can be entered into the search screen. Based upon this criteria, the Sterling nWMS PCA displays the appropriate report.

4.1 Sterling nWMS PCA Reports

The reports provided with the Sterling nWMS PCA are grouped into the following four menu classifications:

- [Inbound Reports](#)

- [Returns Reports](#)
- [Inventory Reports](#)
- [VAS Reports](#)
- [Outbound Reports](#)
- [Billing Activity Reporting Engine Reports](#)

4.1.1 Inbound Reports

Inbound reports provide visibility to receipts. These reports aid receiving supervisors to plan receipts and labor requirement for receipts, as well as to manage discrepancies. The warehouse manager can also see information on receipts that are expected shortly, so as to make the dock doors available for these receipts.

For more information about inbound reports, see the *Sterling Networked Warehouse Management System PCA Reports Guide*.

The different inbound reports provided with the Sterling nWMS PCA are:

- **Await Material Report**
This report shows the summary of the items that are waiting for material. This report helps the warehouse manager to identify items that are unavailable and to prioritize inbound shipments that can reduce the awaiting items in this report.
- **Delivery Dock Schedule Report**
The Dock Schedule Report provides visibility into appointments taken for one or more receiving docks, for a range of dates.
- **Dock to Stock Cycle Time KPI Report**
This report is used to measure the Dock to Stock cycle time on all inbound shipments or receipts. Cycle time is defined as the time that elapses from the start of the receipt to the time that Putaway is completed.
- **Inbound Labor Requirements Report**
This report is used to determine labor requirements for receiving activities. The labor required is calculated based on the Standard Allowable Minutes defined.

- Item Attribute Setup Report

This report lists all items in the warehouse that do not have their attributes completely defined. This report is useful to identify items that have incomplete setup, as this information is required to execute warehouse operations.

- Receipt Discrepancy Report

This report is used to track the receipt discrepancy details between the expected and received quantities for a particular day or date range. The report displays the discrepancy as Short Receipt, Over Receipt, or Damaged.

- Receipt Detail Report

This report lists the details of the shipments received for the selected shipment, Purchase Order (PO), or date range. It provides details at the item and quantity level.

- Receiving Summary Report

This report lists the receipts for the selected shipment, PO, or date range. It provides summary receipt information at the shipment level.

- Shipment Billing Summary Report

This report displays the number of shipments and shipment lines shipped, and the number of receipts and receipt lines received. This report also provides the transaction details for the transactions in the details report.

- Vendor Non-Compliance Report

The Vendor Non-Compliance Report displays the non-compliant shipments observed during the inbound process. This report helps the warehouse to identify the vendors shipping non-compliant shipments.

4.1.2 Returns Reports

Returns reports aid warehouse managers to view information about inventory returns.

For more information about returns reports, see the *Sterling Networked Warehouse Management System PCA Reports Guide*.

The returns report provided with the Sterling nWMS PCA is:

- Returns Report by Reason Code

This report lists all shipments based on the return reason code entered during the return process. This report can also be generated for specific selected reason codes.

4.1.3 Inventory Reports

Inventory reports aid inventory supervisors to manage inventory, track the movement of inventory within the warehouse, and get visibility on the different categories of inventory, such as, inventory that are on hold. These reports can also be used to categorize inventory based on cost.

For more information about inventory reports, see the *Sterling Networked Warehouse Management System PCA Reports Guide*.

The different inventory reports provided with the Sterling nWMS PCA are:

- Containers Not Having Standard Quantity Report

This report lists all cartons stored in the warehouse that have less than the standard case or pallet quantity. This report can be used to identify opportunities for consolidation.

- Cycle Count Variance Daily Report

This report provides the cycle count variance information, on a daily basis, for a given date range.

- Cycle Count Variance Monthly Report

This report provides the cycle count variance information, on a monthly basis, for a given date range.

- Cycle Count Variance Weekly Report

This report provides the cycle count variance information, on a weekly basis, for a given date range.

- Dedicated Locations Activity Report

This report provides visibility into locations that are dedicated to certain Stock Keeping Units (SKUs). The activity report categorizes the locations based on the number of times the location is replenished.

- **Dedicated Locations Usage Report**
This report provides visibility into locations that are dedicated to certain Stock Keeping Units (SKUs). This usage report shows locations that have remained unused in various time buckets.
- **Empty Location Report**
This report provides a list of empty locations in the warehouse. This report can also be accessed as a sub-report of the Space Consolidation Report.
- **Inventory Aging Report**
This report provides the inventory age identified by its receipt date. In case the receipt date information is lost, the inventory age cannot be ascertained and is therefore classified as "Inventory with Unknown Age".
- **Inventory Audit Report**
This report is used to track inventory changes resulting from the execution of tasks in the warehouse. This report can help in tracking changes to item or location inventory, inventory changes done by a user, or a combination of these.
- **Inventory Balance Report**
This report is used to balance the opening and closing quantity of inventory for an item within a date range.
- **Inventory Hold Report**
This report lists the item and location details for all items that are on hold due to Quality Control activities, Count variances, and locations that are frozen for Picking or Putaway.
- **Item Inventory Across Nodes Report**
This report is used to track the inventory of items across nodes for either all or selected enterprises. The report can be executed only for those enterprises to which the user has access.
- **Item Inventory Report**
This report lists the details of the item inventory at the node. You can drill down to location level and container level reports from this report.

- Item Tag No. Report

This report lists all item transactions for the given tag number. The report displays the transactions in three categories: Inbound, Inventory, and Outbound.

- Item Velocity Report

Due to changes in demand, seasonal variations, and product life cycle characteristics, item velocity changes over time. This report captures the item velocity, as measured by the number of shipments that the item features in during the selected date range.

- Location/SKU Velocity Mismatch Report

This report matches the Location Velocity to the Item Velocity to identify locations that have a mismatch. The warehouse can use this report to reorganize item locations to optimize the utilization of locations.

- Node Inventory Valuation Report

This report lists the item, quantity, and valuation details for a node. This report is useful in determining the inventory valuation in a node.

- Participant List Report

This report lists the number of participants defined in the Participant Model with role details.

- Space Consolidation Report

This report provides item-wise information about the location capacity utilization. This helps in identifying space consolidation opportunities.

- Space Utilization Report

This report provides information on location capacity utilization in terms of percentage.

- Location Inventory Detail Report

This report is used to track the inventory of items and locations in the warehouse at the item, case, pallet, status, and other item attributes levels.

- Location Inventory Summary Report

This report is used to track the inventory of items and locations in the warehouse at the item or location level.

4.1.4 VAS Reports

Value Added Services (VAS) reports aid warehouse managers to view information about work orders to perform Value Added Services on the inventory.

For more information about VAS reports, see the *Sterling Networked Warehouse Management System PCA Reports Guide*.

The VAS report provided with the Sterling nWMS PCA is:

- Work Order Report

This report displays all the work orders for the node, in different stages of completion. This report is used to review open work orders.

4.1.5 Outbound Reports

Outbound reports aid shipping supervisors to see information on order billing and shipment billing. These reports can also be used to get visibility to outbound labor requirements, on-time shipments, and so on.

For more information about outbound reports, see the *Sterling Networked Warehouse Management System PCA Reports Guide*.

The different outbound reports provided with the Sterling nWMS PCA are:

- BOL Total Weights Report

This report lists the number of cartons or pallets, and the total weight details against each Bill Of Lading (BOL). This report lists all details for BOLs shipped for the selected carrier or date range.

- Container Volume Monthly Report

This report shows the number of containers shipped each month. For the current month, it only shows the total number of cartons shipped till date.

- Daily Shipment Report

This report provides high-level visibility into shipment activity in the warehouse, on a daily basis, for a specified date range. This report

provides daily information on new shipments awaiting shipping on the day, shipments shipped on the day, shipment pending from previous days, and shipments carried over to the next day.

- Dock Pickup Schedule Report

The Dock Schedule Report provides visibility into appointments taken for one or more shipping docks, for a range of dates.

- Generic Shipper Report

This report gives details of shipments that are either to be shipped or were shipped using each carrier that the warehouse uses. The warehouse can use this report to understand the carrier usage patterns.

- Hot Inventory Report

This report helps to identify the inbound shipments that should be unloaded based on the hot items in the trailer or container. These items are on backorder for the warehouse, and available in the expected shipments.

- On Time Shipment Report

This report captures the number of shipments shipped at the scheduled time. It also categorizes the delayed shipments into buckets of delays by one, two, or more days.

- Order Billing Summary Report

This report lists the transaction details for all types of orders handled by the warehouse. This report helps to track metrics, such as the number of orders or order lines shipped or received.

- Order Cycle Time KPI Report

This report is used to measure the turnaround cycle time on all outbound shipments or orders. Cycle time is defined as the time that elapses from when an order is released to a warehouse until the time it is shipped.

- Order Shipment Report

This report shows the details of shipments against orders. It also shows the quantity ordered and shipped at the item level.

- Outbound Labor Requirements Report

This report is used to determine the labor requirements for waves or shipments that are to be picked, packed, and shipped on a future date. This report is useful to plan resource requirements for outbound activities.

- Pack and Hold Shipments Report

This report lists all shipments that are currently in the 'pack and hold' status, along with their location and shipper details. This report is useful to the warehouse supervisor to review pack and hold shipments.

- Parcel Manifest Report

This report lists the Parcel manifest details in terms of shipment details, number of containers, weight, and other details for the selected manifest number or carrier and service.

- Pickup Dock Schedule Report

The Dock Schedule Report provides visibility in to appointments taken for one or more shipping docks, for a range of dates.

- Replenishment Status Report

This report helps the monitoring of replenishment activities in the warehouse. The report provides information about the replenishment status and highlights shortages or overages of replenishment quantities.

- Same Day Pick Pack Ship Percentage Report

This report gives a measure of the number of shipments picked, packed, and shipped on the same day. The criterion for any shipment to be counted is that the pick date is the same as the actual ship date.

- Shipment Billing Summary Report

This report displays the number of shipments and shipment lines shipped, and the number of receipts and receipt lines received. This report also lists the transaction details for the transactions in the details report.

- Shipment Fill Rate Monthly Report

This report shows the percentage of complete shipments shipped by the warehouse. The percentage is calculated as the ratio of the complete shipments shipped to the total number of shipments shipped by the node.

- Shipments Near or Past Cancel Date Report

This report lists unshipped shipments that are near or past the selected order cancel date range. This report is useful to track the shipments that are due and manage resources to execute the same.

- Shipment Shortage Report

This report lists all shipments that have item shortages and aids warehouse managers in managing exceptions.

- Staging Locations Report

Warehouses have limited staging locations. Therefore, they can become a bottleneck if not managed properly. This report provides a means to identify locations that might be occupying space by having shipments that are either not loaded or awaiting containers.

- Vendor Non-Compliance Report

The Vendor Non-Compliance Report displays the non-compliant shipments observed during the inbound process. This report helps the warehouse to identify the vendors shipping non-compliant shipments.

4.1.6 Task Reports

Task reports aid warehouse managers to view information about the various tasks performed in the warehouse.

For more information about task reports, see the *Sterling Networked Warehouse Management System PCA Reports Guide*.

The task reports provided with the Sterling nWMS PCA are:

- In-Progress Container Summary Report

This report shows the current status of the pick-pack-ship process. The default container dashboard view shows two graphs: Number of containers by statuses and Number of Containers by Carriers.

- **In-Progress Shipment Summary Report**
This report shows the current status of the pick-pack-ship process. The default dashboard view shows these two graphs: Number of Shipments and Cartons Across All Carriers, and Number of Shipments and Cartons by Carrier.
- **User Productivity Daily Report**
This report provides user productivity information, on a daily basis, for a given date range.
- **User Productivity Monthly Report**
This report provides user productivity information, on a monthly basis, for a given date range.
- **User Productivity Weekly Report**
This report provides user productivity information, on a weekly basis, for a given date range.
- **Warehouse Activity Completion Report**
This report provides a summary of the various warehouse tasks that are in "Completed" status. The numbers change as more tasks enter the "Completed" status. The user can also select only a specific set of task types to populate the activity report.

4.1.7 Billing Activity Reporting Engine Reports

The Billing Activity Reporting Engine aids warehouse managers to view information about the various activities performed in the warehouse.

For more information about billing activity reporting engine reports, see the *Sterling Networked Warehouse Management System PCA Reports Guide*.

The different billing activity reporting engine reports provided with the Sterling nWMS PCA are:

- **Billing Activity Report**
The Billing Activity Report shows the billable activities performed in the warehouse for an Enterprise, as captured by the Billing Activity Reporting Engine.

4.2 Rules for Creating New Reports

- Never make changes to the Sterling Supply Chain Analytics package, or add or modify reports within. From release to release, Sterling Supply Chain Applications may provide new deployment files. These files will overwrite all changes you made to the Sterling Supply Chain Analytics package.
- To add new reports, open the Sterling Supply Chain Analytics package model in the Framework Manager. Rename the package (for example, Sterling_NEWNAME_Analytics). Save this package and publish it to the content repository.
- After publishing the renamed package, you will see a new package folder (named, for example, Sterling_NEWNAME_Analytics) along with the previous Sterling Supply Chain Analytics on Cognos Connection. All new reports should be added to the new package and any changes to the model (for example, new or modified views) should also be made to the new package in Framework Manager.

Deploying Reports

To view the report data, you must deploy the reports and refresh them against your database. The resulting reports allow you to analyze the data in various forms.

For more information about the different reports provided with the Sterling nWMS PCA, see [Chapter 4, "Sterling nWMS PCA Analytics Reports"](#).

Read the *Cognos ReportNet [TM] Quick Start Installation and Configuration Guide* before deploying the Sterling nWMS PCA Analytics.

5.1 Refreshing Against a Replicated Versus a Transactional Database

The database impact of a refresh depends on the volume of data involved, refresh frequency, and report "complexity". Depending on your requirements, you may have installed all Cognos components on a single machine, 1 to 2 machines, or a distributed setup. See the *Cognos ReportNet[TM] Quick Start Installation and Configuration Guide* for various setup scenarios. Your transactional database may be co-located. You may need to refresh your database only during offpeak hours, or have a "24/7" requirement for your system.

You must analyze your deployment scenario and setup the refresh accordingly.

Note: It is recommended that you refresh the reports against a replicated database instead of your transactional database.

Refreshing the reports against a replicated database instead of your transactional database allows you to configure and tune the replicated database for your reporting needs, such as creating indices, keys on the tables, or tuning your database parameters. You can replicate the transactional database using the standard database replicating tools in the market. If you need to refresh against a transactional database, keep in mind the performance impact on both the refresh and the Sterling Supply Chain Applications transactions occurring in the database during the refresh period.

5.2 Deploying Reports

Refer to the Cognos ReportNet documentation for information about how to deploy Sterling nWMS PCA Analytics reports.

Remember to provide filter values for any reports that have filters, either for data or security.

5.2.1 Suggested Directory Structure for Reports

We recommend the following steps to create your folder structure for report deployment:

1. Create a folder named "Staging" (or similar) under `/Yantra/<YNW_ANALYTICS_HOME>`.
2. Under the "Staging" folder create a folder named "Publish".
3. Under the "Publish" folder, create a folder for "Reports" where you will put the reports that are ready to be deployed.
4. You can create additional folders under "Reports" to group reports. For example, Finance or Marketing.

5.3 Refreshing Reports

Based on the type of report deployed, the report could be either scheduled to refresh at certain times, or is executed at the time it is viewed (Burst Reports). See the Cognos ReportNet documentation for more information about refreshing reports.

Localizing Reports

Localization is the process of adapting the Sterling nWMS PCA for a particular country or region. Localization enables the Sterling nWMS PCA to support the character set of the user's locale, and present numbers, literals, and report data in the locale's format.

This chapter explains how to localize the Sterling nWMS PCA reports.

For more information about localizing the Sterling nWMS PCA see the *Sterling Supply Chain Applications Localization Guide*.

6.1 Literal Localization

All Sterling nWMS PCA reports use a common resource bundle that contains literals displayed on the screens. Sterling nWMS PCA enables you to customize and localize resource bundles, as needed.

This section explains how to localize report headers, column titles, field names, and so forth.

6.1.1 Resource Bundles

Sterling Commerce always releases complete resource bundles in the `ycrnbundle.properties` file with the localized versions of the Sterling nWMS PCA Analytics. Incremental updates are not provided. If you localize the Sterling nWMS PCA reports, it is your responsibility (or that of your 3rd-party localization company) to compare and validate the differences between the resource bundles shipped with the product to those you have localized.

The resource bundles of the Sterling nWMS PCA Analytics are located in the `<YNW_ANALYTICS_HOME>/resources/ycrnbundle.properties` file.

To localize the resource bundles:

1. Copy the
`<YNW_ANALYTICS_HOME>/resources/ycrnbundle.properties` file
 and save it as
`<YNW_ANALYTICS_HOME>/resources/ycrnbundle_<language>_<country>.properties`.
2. Each resource bundle contains a `<key>=<value>` pair where key is the resource key and value is the literal displayed for the corresponding locale. Replace `<value>` with the translated value.

- Some of the literals that need to be translated in the resource bundles contain data place holders. These data place holders indicate that the literal is displayed with one or more data values within the literal. For example, the application displays the error message "Priority should be greater than X" where X could be any number. Since the location of the "X" within the literal can be different for different languages, the resource bundle uses a place holder that can be placed anywhere in the literal during translation. The resource bundle entry looks like this:

```
PRIORITY_ERROR_MESSAGE=Priority should be greater than {0}
```

Notice how the "{0}" place holder indicates where the dynamic data value appears in the literal. This "{0}" can be placed anywhere in the literal.

For example,

```
PRIORITY_ERROR_MESSAGE=A number greater than {0} should be entered
```

or

```
PRIORITY_ERROR_MESSAGE={0}: Priority entered should be greater than this
```

are valid possibilities. This gives you the flexibility to translate the literal in any way that the language dictates. Note that multiple place holders may appear in the literal as well. For example, {0}, {1}, {2}, and so forth. Each place holder must exist somewhere in the corresponding translated literal.

- When using literals that contain data place holders, you cannot use single quotation marks. If a single quotation mark is used in conjunction with a place holder, the single quotation mark is not displayed and the place holder is not replaced with its

replacement value. In order to avoid this situation, enter two single quotes wherever a single quote is required.

For example, the following is invalid:

```
PRIORITY_ERROR_MESSAGE=The primary organization's name is {0}
```

However, the following is valid:

```
PRIORITY_ERROR_MESSAGE=The primary organization''s name is {0}
```

- Files should be returned in native format with UTF-8 encoding.
 - Properties should be returned in escaped Unicode format with UTF-8 encoding.
3. The default font used is Tahoma. Therefore if you want to display or type Unicode characters, you should localize the theme. This is done by changing the font to Unicode in the theme-specific XML files.
 4. Save the modified file. If the file is in UTF-8 format, convert it to ASCII by running the `native2ascii` command as follows:

```
native2ascii -encoding UTF-8 <source file> <target file>
```

Note: Files localized in Latin1 languages do not require this conversion.

The file should be returned in the following format:

```
<filename>_<2 letter code for language as given by ISO 639>_<2 letter code  
for territory as given by ISO 3166>.<file extension>
```

For example, `ycrnbundle.properties` should be returned as `ycrnbundle_fr_FR.properties`.

6.1.2 Localizing Report Literals

To localize report literals, in the `<YNW_ANALYTICS_HOME>/bin` folder, execute the following command:

```
ant -f ycrnlocalizer.xml import
```

Note: The `ycrnlocalizer.xml` assumes that you have installed Cognos ReportNet and Sterling nWMS PCA Analytics on the same machine. If, however, you have installed Cognos ReportNet and Sterling nWMS PCA Analytics on two separate machines, modify the following line of the xml by replacing `localhost` with the IP address of the machine where Cognos ReportNet has been installed:

```
<property name="cognosurl"
value="http://localhost/crn/cgi-bin/cognos.cgi"/>
```

This command reads all the bundles in the `<YNW_ANALYTICS_HOME>/resources` folder. It then adds the literal translations for each locale into the report definitions present in the `<YNW_ANALYTICS_HOME>/reports` folder. The modified report definitions are copied into the `<YNW_ANALYTICS_HOME>/localizedreports` folder, and also added into the content repository. When the reports are generated again, the literals are displayed according to the user's locale.

6.2 Report Data Localization

This section elaborates on the report data that has been localized. It also explains how to localize the data that the report displays.

6.2.1 Pre-Localized Report Data

All columns in the reports that describe an entity are localized out-of-the-box. For example, Item Description, Shipment Status, Order Status, Task Status, Document Types, and so forth.

6.2.2 Localizing Report Data

To localize the report data in your system:

1. Localized views are created by performing an outer join on the report-specific view and the `YFS_LOCALIZED_STRINGS` table.

Note: Localization of Item Descriptions is done differently. Item Descriptions are localized by performing an outer join on the report-specific view and the YFS_LANGUAGE_DESCRIPTION table.

2. The report data is taken from the localized views created in [Step 1](#).
3. The report contains a mandatory filter on the locale code to fetch data specific to the user's locale.

For example, to localize Item Descriptions in the Inventory Aging Report,

- YNA_NODE_INVENTORY_NL_VW is a non-localized view to fetch data for the Inventory Aging Report.
- YNA_NODE_INVENTORY_VW is a localized view which performs an outer join between YNA_NODE_INVENTORY_NL_VW and the YFS_LANGUAGE_DESCRIPTION table.
- The Inventory Aging Report is designed from YNA_NODE_INVENTORY_VW. This report has a mandatory filter on the locale code.

YNA_NODE_INVENTORY_NL_VW is located in

```
<YNW_ANALYTICS_HOME>/database/<database>/Scripts/WithHistory/
Node Inventory MasterNL.sql
```

YNA_NODE_INVENTORY_VW is located in

```
<YNW_ANALYTICS_HOME>/database/<database>/Scripts/WithHistory/
Node Inventory Master.sql.
```

The Inventory Aging Report definition is located in:

```
<YNW_ANALYTICS_HOME>/Reports/Inventory_Aging_Report.xml.
```

6.3 Localizing Custom Reports

The Sterling nWMS PCA enables you to create custom reports and localize them.

This section describes how to localize the custom reports in your system.

6.3.1 Localizing Custom Report Literals

To localize custom report literals, in the <YNW_ANALYTICS_HOME>/bin folder:

1. Save the extended resource bundles as
 <YNW_ANALYTICS_HOME>/resources/extn/extnbundle_<language>_<country>.properties.

For example, ycrnbundle.properties should be saved as ycrnbundle_fr_FR.properties.

2. Execute the following command:

```
ant -f ycrnlocalizer.xml import
```

This command reads all the bundles in the <YNW_ANALYTICS_HOME>/resources folder. It then adds the literal translations for each locale into the report definitions present in the <YNW_ANALYTICS_HOME>/reports folder. The modified report definitions are copied into the <YNW_ANALYTICS_HOME>/localizedreports folder, and also added into the content repository. When the reports are generated again, the literals are displayed according to the user's locale.

6.3.2 Localizing Custom Report Data

To localize the custom report data in your system:

1. Create a localized view by performing an outer join on the report-specific view and the YFS_LOCALIZED_STRINGS table.

Note: Localization of Item Descriptions is done differently. Item Descriptions are localized by performing an outer join on the report-specific view and the YFS_LANGUAGE_DESCRIPTION table.

2. Take the report data from the localized views created [Step 1](#).
3. In the report, create a mandatory filter on the locale code, to fetch data specific to the user's locale. If the data is fetched from multiple localized views, the locale code should be added as a filter for each view.

Extending the Sterling nWMS PCA Analytics Data Model

The Sterling nWMS PCA Analytics Data Model can be modified to incorporate the specific needs of your Sterling Supply Chain Applications installation by extending the Catalog. This chapter discusses how you can extend the Catalog.

For information about extending your Sterling Supply Chain Applications installation, see the *Sterling Supply Chain Applications Customization Guide*.

Before you extend the Data Model, read the Cognos *ReportNet Administration Guide* and the *Step by Step ReportNet Catalog* documentation so that you understand how to use the product and you can apply that knowledge to the Data Model. Be sure to create a backup of all components that are going to be modified.

The Data Model is extended by adding, deleting or renaming fields, tables and views, or entities.

7.1 Adding Fields, Tables and Views

To add fields, tables, and views, follow the instructions in the *ReportNet Administration Guide* and additional *ReportNet* documentation.

7.2 Deleting or Renaming Fields, Tables and Views

Sterling Commerce recommends that you do **not** delete or rename the objects that already exist in the Catalog delivered with Sterling nWMS

PCA Analytics. This can create compatibility problems with future versions of the Sterling nWMS PCA Analytics Framework components. However, if it is absolutely necessary to delete some objects, follow the guidelines in the Cognos *ReportNet Administration Guide* and the *Step by Step ReportNet Catalog* documentation.

Troubleshooting and Tuning

This chapter explains some issues that are commonly encountered with Sterling nWMS PCA Analytics. It also includes some tips discovered during the development of the Sterling nWMS PCA Analytics Framework. This chapter does not include troubleshooting instructions for standard Cognos products or issues. For Cognos product-related troubleshooting, see the Cognos documentation.

8.1 The Access Manager is Not Working

To ensure that the Access Manager is running correctly:

1. Make sure that the access manager is installed after the Netscape LDAP server is installed, configured, and registered.
2. Configure the cognos LDAP authentication using DDN 0=yantra.
3. When registering the Access Manager using the Access Manager Wizard, use the same information as in step 2.
4. If for some reason, the authentication is not working for the default namespace, then uninstall the Access Manager, re-install LDAP, and re-configure with proper parameters, re-register and then try connecting again.

8.2 SQL Net Connect String Error

If you get the error "The SQL Net connect string shown on the ReportNet catalog is BLACKHOLE after installing the YNA on a fresh server" when trying to open the catalog:

"The catalog's available user classes do not correspond to any defined by the Common Logon Server"

Follow these steps to ensure that the YNA-catalog can be opened:

1. Launch Access Manager Administrator.
2. Select Root User Class and right-click,
 - Select Add User Class
 - Under the General tab enter "Creator" in the text box for Name.
 - Select the Permissions tab and set the permissions for the Creator user class.
 - Click the Apply button to save information.
 - Click the OK button to return to the Access Manager Administration Tree.
3. From the Tree select the folder named Users.
 - Select the user(default is administrator) that you would like to associate with the user class, right-click and select the membership tab. Select the user class that the user belongs to. In this case the Creator user class. Alternatively you can associate the user by selecting the user named Administrator, then drag it into the Creator user class.

An error will occur for any user attempting to log into the catalog who does not belong to a specific user class hence ensure that all users belong to a user class before attempting to open an Impromptu catalog.

8.3 Failed to Change User Class

If you receive the error: "Failed to change the User Class. Unable to access the user profile creator. Incomplete catalog login information for user class", when running reports through the browser, you need to embed a user id and password in the catalog.

To embed a database user id and password in a catalog:

1. Open the catalog in ReportNet.
2. Select Catalog->Profiles from the main menu.
3. Select the Database tab.
4. For each User Class, in the Database Security Options section, select Database Logon and supply a database id and password.

To change the Database Logon type:

1. Launch Report Administration.
2. Select the Report Project view.
3. Highlight the report set.
4. Select the User radio button in the Database Logon Type section.

If the reports have already been published, delete them all and re-publish with the change mentioned above.

This chapter provides some tips for tuning reports and your Sterling nWMS PCA Analytics installation. For information regarding performance tuning of individual Cognos products, see the Cognos Administration Guides.

8.4 Tuning Sterling nWMS PCA Analytics Reports

Since all Sterling nWMS PCA Analytics Reports are eventually based on SQL statements, Sterling Commerce recommends that you tune the SQL underlying the Reports and Sub-reports. You can avoid complicated Report SQL by breaking the reports up into Sub-reports.

8.5 Tuning Your Sterling nWMS PCA Analytics Installation

Tuning your Sterling nWMS PCA Analytics installation involves sizing the servers where the installation is installed. For information regarding sizing your servers for Sterling nWMS PCA Analytics, see [Appendix B, "Server Sizing Requirements"](#).

A

Sterling nWMS PCA Analytics Views

Sterling nWMS PCA Analytics Views are a layer of abstraction on the YFS tables. Most of these views are straight select statements from the table, having a UNION with its history (archived) table, if one exists. The fields in these views are derived directly from the underlying table, without any calculations. These views are not described in detail in this appendix. For their descriptions, see the Entity Relationship Diagrams.html. For the complete view SQL and the join where clause, see the corresponding.sql files located in:

- Analytics\Database\oracle\Scripts\WithHistory
- Analytics\Database\oracle\Scripts\WithoutHistory
- Analytics\Database\db2\Scripts\WithHistory
- Analytics\Database\db2\Scripts\WithoutHistory
- Analytics\Database\sqlserver\Scripts\WithHistory
- Analytics\Database\sqlserver\Scripts\WithoutHistory

For more information about WithHistory and WithoutHistory views, see [Section 3.1, "Sterling nWMS PCA Analytics Framework Views"](#).

Note: Views to query Resource Pool capacity across service lines currently are NOT provided. This is due to bandwidth limitations

Note: Views created directly on, or joined to, the YFS_ORDER_HEADER table exclude draft order records (specifically: YNA_ORDER_HEADER_VW, YNA_ORDER_LINE_VW, and YNA_INV_COST_SHIPMENT_VW). Therefore, reports based on, or joined with, these views will not show draft order data.

To include such records, remove this SQL clause from the views mentioned above:

```
OH.DRAFT_ORDER_FLAG = 'N'
```

To exclude such records in views that you create or modify, append this SQL clause to the view definition:

```
YFS_ORDER_HEADER.DRAFT_ORDER_FLAG = 'N'
```

The following sets of views are described in this appendix:

- Catalog (see [Section A.1, "Catalog Views"](#))
- Exceptions (see [Section A.2, "Exception Views"](#))
- General (see [Section A.3, "General Views"](#))
- Inventory (see [Section A.4, "Inventory Views"](#))
- Invoicing (see [Section A.5, "Invoicing Views"](#))
- Logistics (see [Section A.6, "Logistics Views"](#))
- Order (see [Section A.7, "Order Views"](#))
- Order Header (see [Section A.8, "Order Header Views"](#))
- Order Line (see [Section A.9, "Order Line Views"](#))
- Order Release (see [Section A.10, "Order Release Views"](#))

- Order To/From Transaction (see [Section A.11, "Order To/From Transaction Views"](#))
- Organization (see [Section A.12, "Organization Views"](#))
- Organization Levels (see [Section A.13, "Organization Levels View"](#))
- Pricing (see [Section A.14, "Pricing Views"](#))
- Receiving Discrepancy (see [Section A.15, "Receiving Discrepancy Views"](#))
- Receipt Views (see [Section A.16, "Receipt Views"](#))
- Shipment (see [Section A.17, "Shipment Views"](#))
- WMS Views (see [Section A.18, "WMS Views"](#))
- Work Order (see [Section A.19, "Work Order Views"](#))

Note: Relationship diagrams for all of the views are available under `Analytics\Database\ERD`.

A.1 Catalog Views

This set of views expose the Item and Catalog-related data. The set consists of the views described in [Table 8–1](#).

Table 8–1 Catalog Views

View	Description	Interpreted Columns	SQL Filename
YNA_CATEGORY_DOMAIN_VW	This view exposes data by joining the YNA_CATEGORY_DOMAIN_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	Catalog Category Domain.sql
YNA_CATEGORY_ITEM_VW	This view exposes the data in the YFS_CATEGORY_ITEM table.	None	Catalog Category Item.sql
YNA_CATEGORY_VW	This view exposes data by joining the YNA_CATEGORY_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	Catalog Category.sql
YNA_CATALOG_MASTER_VW	This view exposes the data in the YFS_MASTER_CATALOG table.	None	Catalog Master.sql
YNA_ITEM_VW	This view exposes the data in the YFS_ITEM and YFS_ORGANIZATION tables. It provides item definitions for a given organization (including organizations that use another organization's catalog definition).	None	Catalog Item.sql
YNA_ITEM_ALIAS_VW	This view exposes data by joining the YNA_ITEM_ALIAS_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views.	None	Catalog Item Alias.sql
YNA_ITEM_TAG_VW	This view exposes the data in the YFS_ITEM_TAG table.	None	Item Tag.sql

Table 8–1 Catalog Views

View	Description	Interpreted Columns	SQL Filename
YNA_CATEGORY_DOMAIN_NL_VW	This view exposes the data in the YFS_CATEGORY_DOMAIN table.	None	Catalog CategoryDomainNL.sql
YNA_CATEGORY_NL_VW	This view exposes the data in the YFS_CATEGORY table.	None	Catalog CategoryNL.sql
YNA_ITEM_ALIAS_NL_VW	This view exposes the data in the YFS_ITEM_ALIAS table with code descriptions from the YFS_COMMON_CODE table.	None	Catalog ItemAliasNL.sql

A.2 Exception Views

This set of views expose the Exception-related data. The set consists of the views described in [Table 8–2](#).

Table 8–2 Exception Views

View	Description	Interpreted Columns	SQL Filename
YNA_EXCEPTION_INBOX_VW	This view exposes the data in the YFS_INBOX table.	None	Exception Inbox.sql
YNA_EXCEPTION_INBOX_REF_VW	This view exposes the data in the YFS_INBOX_REFERENCES table.	None	Exception InboxReferences.sql

Table 8–2 Exception Views

View	Description	Interpreted Columns	SQL Filename
YNA_EXCEPTION_QUEUE_VW	This view exposes data by joining the YNA_EXCEPTION_QUEUE_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW queues.	None	Exception Queue.sql
YNA_EXCEPTION_QUEUE_SUBS_VW	This view exposes the data in the YFS_QUEUE_SUBSCRIPTION table.	None	Exception Queue Subscription.sql
YNA_EXCEPTION_QUEUE_NL_VW	This view exposes the data in the YFS_QUEUE table.	None	Exception QueueNL.sql

A.3 General Views

This set of views expose the general related data. The set consists of the views described in [Table 8–3](#).

Table 8–3 General Views

View	Description	Interpreted Columns	SQL Filename
YNA_COMMON_CODE_VW	This view exposes the data by joining the YNA_COMMON_CODE_NL and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	Common Code.sql
YNA_PERSON_INFO_VW	This view exposes the data in the YFS_PERSON_INFO table. It is a helper view that provides information about any Contact that is captured in the Sterling Supply Chain Applications system.	None	2.sql
YNA_WORKFLOW_PTD_VW	This view exposes the data in the YFS_PIPELINE, YFS_PIPELINE_DEFINITION, and YFS_PIPELINE_DROP_STATUS_CONDITION tables. It provides information about the Pipeline, Transaction, and Drop Status (PTD) for various Process Types. It is a helper view used by other views in Sterling nWMS PCA Analytics.	None	Workflow PTD.sql
YNA_COMMON_CODE_NL	This view exposes the data in the YFS_COMMON_CODE and YFS_ORGANIZATION tables. It provides descriptions for codes used throughout the Sterling Supply Chain Applications system. This is a helper view. Since the codes differ by Organization, this view exposes the ORGANIZATION_CODE from the YFS_ORGANIZATION table.	None	Common CodeNL.sql

Table 8–3 General Views

View	Description	Interpreted Columns	SQL Filename
YNA_LOCALIZED_DESCRIPTIONS_VW	This view returns the description and localized description, along with their language, country, and variant.	None	Localized Descriptions.sql
YNA_STATUS_NL_VW	This view exposes the data in the YFS_STATUS table.	None	StatusNL.sql
YNA_STATUS_VW	This view exposes data by joining the YNA_STATUS_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	Status.sql
YNA_DOCUMENT_PARAMS_VW	This view exposes data by joining the YNA_DOCUMENT_PARAMS_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Document Params.sql

A.4 Inventory Views

This set of views expose the Inventory-related data. The set consists of the views described in [Table 8–4](#).

Table 8–4 Inventory Views

View	Description	Interpreted Columns	SQL Filename
YNA_INVENTORY_COST_MATCH_VW	This view exposes the data in the YFS_INVENTORY_MATCH table.	None	Inventory Cost Match.sql
YNA_INV_COST_RECEIPT_VW	This view exposes the data in the YFS_INVENTORY_RECEIPT and YFS_SHIP_NODE tables. In addition to the columns of the YFS_INVENTORY_RECEIPT table, this view also exposes the owner organization of the inventory supply.	REMAINING_QUANTITY is interpreted as: REMAINING QUANTITY = QUANTITY minus POSTED_QUANTITY	Inventory Cost Receipt.sql
YNA_INV_COST_SHIPMENT_VW	This view exposes the data in the YFS_INVENTORY_SHIPMENT and YFS_ORDER_HEADER tables. In addition to the columns of YFS_INVENTORY_SHIPMENT table, this view also exposes the seller organization on the order where the shipment was made.	None	Inventory Cost Shipment.sql
YNA_INVENTORY_DEMAND_VW	This view exposes the data in the YFS_INVENTORY_DEMAND table.	None	Inventory Demand.sql

Table 8–4 Inventory Views

View	Description	Interpreted Columns	SQL Filename
YNA_INVENTORY_ITEM_VW	This view exposes the data in the YFS_INVENTORY_ITEM and YFS_ORGANIZATION tables. It provides inventory item definitions for a given organization (including organizations that use another organization's inventory item definition).	None	Inventory Item.sql
YNA_INVENTORY_SUPPLY_VW	This view exposes data by joining the YNA_INVENTORY_SUPPLY_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views	None	Inventory Supply.sql
YNA_INVENTORY_TAG_VW	This view exposes the data in the YFS_INVENTORY_TAG table.	None	Inventory tag.sql
YNA_INVENTORY_STATUS_VW	This view exposes data by joining the YNA_INVENTORY_STATUS_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	Inventory Status.sql
YNA_INVENTORY_STATUS_NL_VW	This view provides localized descriptions by joining the YNA_INVENTORY_STATUS_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	Inventory StatusNL.sql

Table 8–4 Inventory Views

View	Description	Interpreted Columns	SQL Filename
YNA_INVENTORY_SUPPLY_NL_VW	This view exposes the data in the YFS_INVENTORY_SUPPLY table. In addition to the columns of the YFS_INVENTORY_SUPPLY table, this view also exposes the owner organization of the inventory supply.	None	Inventory SupplyNL.sql
YNA_ITEM_LOCALIZER_HELPER_VW	This view exposes localized data by joining the YNA_INVENTORY_ITEM_MASTER_VW view, and the YFS_LOCALE and YFS_LANGUAGE_DESCRIPTION tables.	None	Item Localizer.sql
YNA_GLOBAL_SERIAL_NUM_VW	This view exposes the YFS_GLOBAL_SERIAL_NUM table.'	None	Global Serial Num.sql

A.5 Invoicing Views

This set of views expose the Invoice-related data. The set consists of the views described in [Table 8–5](#).

Table 8–5 Invoicing Views

View	Description	Interpreted Columns	SQL Filename
YNA_INVOICE_COLLECTION_VW	This view exposes the data in the YFS_INVOICE_COLLECTION table.	None	Invoicing Collection.sql
YNA_INVOICE_HEADER_CHARGES_VW	This view exposes the data in the YFS_HEADER_CHARGES table. It also exposes the YFS_HEADER_CHARGES table filtered for Header Charges related to Invoicing.	None	Invoicing Header Charges.sql
YNA_INVOICE_LINE_CHARGES_VW	This view exposes the YFS_LINE_CHARGES table for the Line Charges related to Invoicing.	None	Invoicing Line Charges.sql
YNA_INVOICE_LINE_TAX_VW	This view exposes the YFS_TAX_BREAKUP table filtered for Taxes related to Invoicing. It is used for Line Taxes.	None	Invoicing Line Tax.sql
YNA_INVOICE_ORDER_DETAIL_VW	This view exposes the data in the YFS_ORDER_INVOICE_DETAIL table.	None	Invoicing Order Detail.sql
YNA_INVOICE_TAX_CHARGES_VW	This view exposes the YFS_TAX_BREAKUP table filtered for Taxes related to Invoicing. It is used for Header Taxes.	None	Invoicing Tax Breakup.sql
YNA_INVOICE_ORDER_VW	This view exposes the data in the YFS_ORDER_INVOICE table.	None	Invoicing Order.sql

A.6 Logistics Views

This set of views expose the Shipment-related data. The set consists of the views described in [Table 8–6](#).

Table 8–6 Logistics Views

View	Description	Interpreted Columns	SQL Filename
YNA_DELIVERY_PLAN_VW	This view exposes the data in the YFS_DELIVERY_PLAN table.	None	Delivery Plan.sql
YNA_LOAD_VW	This view exposes the data in the YFS_LOAD table.	None	Load.sql
YNA_LOAD_SHIPMENT_VW	This view exposes the data in the YFS_LOAD_SHIPMENT table.	None	Load Shipment.sql
YNA_LOAD_SHIPMENT_CHARGE_VW	This view exposes the data in the YFS_LOAD_SHIPMENT_CHARGE table.	None	Load Shipment Charge.sql
YNA_LOAD_STATUS_AUDIT_VW	This view exposes the data in the YFS_LOAD_STATUS_AUDIT table.	None	Load Status Audit.sql
YNA_LOAD_STOP_VW	This view exposes the data in the YFS_LOAD_STOP table.	None	Load Stop.sql

A.7 Order Views

This view exposes the Order-related audit data. The set consists of the views described in [Table 8–7](#).

Table 8–7 Order Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORDER_AUDIT_VW	<p>This view exposes the data in the YFS_ORDER_AUDIT_H table. It is provided for backward compatibility.</p> <p>Important: The changeOrder API creates audit information in a format that is not exposed to the Sterling nWMS PCA Analytics Framework.</p>	None	Order Audit.sql
YNA_PAYMENT_VW	<p>This view exposes the data in the YFS_PAYMENT table filtered for an Order Header.</p>	None	Payment.sql

A.8 Order Header Views

This set of views expose the Order Header related data. The set consists of the views described in [Table 8–8](#).

Table 8–8 Order Header Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORDER_HEADER_VW	This view exposes the data in the YFS_ORDER_HEADER.YFS_PERSON_INFO table. It provides details about the Order Header only. The Bill To, Ship To, Mark For and Contact information is denormalized into the view. These fields can be found under the corresponding subject folders in the Package Layer or the Catalog.	None	Order Header.sql
YNA_ORDER_HEADER_CHARGES_VW	This view exposes the data in the YFS_order_header_charges table for charges filtered for an order header.	None	Order Header Charges.sql.sql
YNA_ORDER_HEADER_EXT_VW	This view exposes the data in the YFS_REFERENCE_TABLE table. This information is referenced fields for an Order Header.	None	Order Header Reference.sql
YNA_ORDER_TRANSACTION_INFO_VW	This view exposes the data in the YNA_WORKFLOW_PTD_VW view and the YFS_ORDER_RELEASE_STATUSES table. This view is a helper view used by other transaction-related views.	None	Order Transaction Info.sql
YNA_ORDER_HEADER_STATUS_VW	This view exposes the data in the YNA_ORDER_RELATED_STATUSES_VW view. This view is a helper view used by other order-related views. table.	None	Order Header Status.sql
YNA_ORDHDR_CHARGE_TRANSN_VW	This view exposes the data in the YFS_CHARGE_TRANSACTION table.	None	Order Header Charge Xn

Table 8–8 Order Header Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORDHDR_INSTRUCTION_VW	This view exposes the data in the YFS_INSTRUCTION_DETAIL table. It exposes instruction details filtered for an Order Header.	None	Order Header Instruction.sql
YNA_ORDHDR_TAX_VW	This view exposes data in the YFS_TAX_BREAKUP table filtered for an Order Header.	None	Order Header Tax.sql
YNA_ORDER_HOLD_TYPE_VW	This view exposes the data in the YFS_ORDER_HOLD_TYPE table.	None	YNA_ORDER_HOLD_TYPE_VW.sql
YNA_ORDER_HOLD_TYPE_LOG_VW	This view exposes the data in the YFS_ORDER_HOLD_TYPE_LOG table.	None	YNA_ORDER_HOLD_TYPE_LOG_VW.sql
YNA_CHARGE_TRAN_DIST_VW	This view exposes the data in the YFS_CHARGE_TRAN_DIST table.	None	YNA_CHARGE_TRAN_DIST_VW.sql

A.9 Order Line Views

This set of views expose the Order Line-related data. The set consists of the views described in [Table 8–9](#).

Table 8–9 Order Line Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORDER_KIT_LINE_VW	This view exposes the data in the YFS_ORDER_KIT_LINE table.	None	Order Kit Line.sql
YNA_ORDER_LINE_VW	This view exposes the data in the YFS_ORDER_LINE.YFS_ORDER_HEADER.YFS_PERSON_INFO table. It provides details about the Order Line only. The Ship To and Mark For information is denormalized into the view. These fields can be found under the corresponding subject folders in the Package Layer or the Catalog.	None	Order Line.sql
YNA_ORDER_LINE_CHARGES_VW	This view exposes the data in the YFS_ORDER_LINE_CHARGES table filtered for an Order.	None	Order Line Charges.sql
YNA_ORDER_LINE_DS_VW	This view exposes the data in the YFS_ORDER_LINE.YFS_ORDER_HEADER.YFS_PERSON_INFO table.	None	Order Line Delivery Srvcs.sql
YNA_ORDER_LINE_EXT_VW	This view exposes the data in the YFS_REFERENCE_TABLE table filtered for an Order Line.	None	Order Line Reference.sql
YNA_ORDER_LINE_STATUSES_VW	This is a helper view that exposes the data in the YNA_ORDER_RELATED_STATUSES_VW view filtered for an Order Line.	None	Order Line Status.sql
YNA_ORDER_LINE_OPTIONS_VW	This view exposes the data in the YFS_ORDER_LINE_OPTION table.	None	Order Line Option.sql

Table 8–9 Order Line Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORDER_LINE_PROD_VW	This view exposes the data in the YFS_ORDERLINE.YFS_ORDER_HEADER.YFS_PERSON_INFO table.	None	Order Line Prod.sql
YNA_ORDER_LINE_PROD_SRVC_ASSOC_VW	This view exposes the data in the YFS_ORDER_PROD_SER_ASSOC table.	None	Order Line Prod Srvc Assoc.sql
YNA_ORDER_LINE_PROVIDED_SRVC_VW	This view exposes the data in the YFS_ORDERLINE.YFS_ORDER_HEADER.YFS_PERSON_INFO table.	None	Order Line Provided Srvc.sql
YNA_ORDER_LINE_REFERENCE_VW	This view exposes the data in the YFS_REFERENCE_TABLE_H table.	None	Order Line Reference.sql
YNA_ORDER_LINE_REQ_TAG_VW	This view exposes the data in the YFS_ORDER_LINE_REQ_TAG table.	None	Order Line Req Tag.sql
YNA_ORDLINE_INSTR_VW	This view exposes the instruction details data in the YFS_INSTRUCTION_DETAIL_H table for an Order Line.	None	Order Line Instruction.sql
YNA_ORDLINE_TAX_VW	This view exposes the data in the YFS_TAX_BREAKUP table filtered for an Order Line.	None	Order Line Tax.sql

A.10 Order Release Views

This set of views expose the Order Release-related data. The set consists of the views described in [Table 8–10](#).

Table 8–10 Order Release Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORDER_RELATED_STATUSES_VW	This view exposes the data in the YFS_ORDER_RELEASE_STAT ^{US} , YFS_ORDER_LINE_SCHEDULE, and YFS_STATUS tables. It provides all statuses related to an Order at the granularity of the information contained in the YFS_ORDER_LINE_SCHEDULE table.	None	Order Related Statuses.sql
YNA_ORDER_RELEASE_VW	This view exposes the data in the YFS_ORDER_RELEASE.YFS_PERSON_INFO table. It provides details about the Order Release only. The Ship To and Mark For information is denormalized into the view. These fields can be found under the corresponding subject folders in the Package Layer or the Catalog.	None	Order Release.sql

A.11 Order To/From Transaction Views

This set of views expose the Order Transaction-related data. The set consists of the views described in [Table 8–11](#).

Table 8–11 Order To/From Transaction Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORDER_FROM_TRANSACTION_VW	This view exposes the data in the YNA_WORKFLOW_PTD_VW view and the YFS_ORDER_RELEASE_STATUS table. It provides the earliest date of occurrence of a transaction for an order.	FROM_TRANSACTION_KEY is interpreted from the transaction that occurred. MIN_TRANSACTION_DATE is interpreted from the earliest STATUS_DATE.	Order From Transaction Date.sql
YNA_ORDER_TO_TRANSACTION_VW	This view exposes the data in the YNA_WORKFLOW_PTD_VW view and the YFS_ORDER_RELEASE_STATUS table. It provides the last date of occurrence of a transaction for an order.	TO_TRANSACTION_KEY is interpreted from the transaction that occurred. MAX_TRANSACTION_DATE is interpreted from the last STATUS_DATE.	Order To Transaction Date.sql
YNA_ORDER_LINE_FROM_TRANS_VW	This view exposes the data in the YNA_WORKFLOW_PTD_VW view and the YFS_ORDER_RELEASE_STATUS table. It provides the earliest date of occurrence of a transaction for an Order Line.	FROM_TRANSACTION_KEY is interpreted from the transaction that occurred. MIN_TRANSACTION_DATE is interpreted from the earliest STATUS_DATE.	Order Line From Transaction Date.sql
YNA_ORDER_LINE_TO_TRANS_VW	This view exposes the data in the YNA_WORKFLOW_PTD_VW view and the YFS_ORDER_RELEASE_STATUS table. It provides the last date of occurrence of a transaction for an Order Line.	TO_TRANSACTION_KEY is interpreted from the transaction that occurred. MAX_TRANSACTION_DATE is interpreted from the last STATUS_DATE.	Order Line To Transaction Date.sql

Table 8–11 Order To/From Transaction Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORDER_RELEASE_FROM_TRAN_VW	This view exposes the data in the YNA_WORKFLOW_PTD_VW view and the YFS_ORDER_RELEASE_STATUS table. It provides the earliest date of occurrence of a transaction for an Order Release.	FROM_TRANSACTION_KEY is interpreted from the transaction that occurred. MIN_TRANSACTION_DATE is interpreted from the earliest STATUS_DATE.	Order Release From Transaction Date.sql
YNA_ORDER_RELEASE_TO_TRANSACTION_VW	This view exposes the data in the YNA_WORKFLOW_PTD_VW view and the YFS_ORDER_RELEASE_STATUS table. It provides the last date of occurrence of a transaction for an Order Release.	TO_TRANSACTION_KEY is interpreted from the transaction that occurred. MAX_TRANSACTION_DATE is interpreted from the last STATUS_DATE.	Order Release To Transaction Date.sql
YNA_ORDER_RELEASE_STATUS_VW	This view exposes the data in the YNA_ORDER_RELATED_STATUSES_VW view.	None	Order Release Status.sql

A.12 Organization Views

This set of views expose the data related to any organization. The set consists of the views described in [Table 8–12](#).

Table 8–12 Organization Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORGANIZATION_VW	This view exposes data by joining the YNA_ORGANIZATION_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Organization.sql
YNA_ORGANIZATION_BUYER_VW	This view exposes the data by joining the YNA_ORGANIZATION_BUYER_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Organization Buyer.sql
YNA_ORGANIZATION_CARRIER_VW	This view exposes data by joining the YNA_ORGANIZATION_CARRIER_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Organization Carrier.sql
YNA_ORGANIZATION_ENTERPRISE_VW	This view exposes data by joining the YNA_ORG_ENTERPRISE_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Organization Enterprise.sql
YNA_ORGANIZATION_ENTERPRISE_PARTICIPANTS_VW	This view exposes the data in the YFS_ORG_ENTERPRISE table. It lists all participating organizations for an Enterprise.	None	Organization Enterprise Participants.sql
YNA_ORGANIZATION_SELLER_VW	This view exposes data by joining the YNA_ORG_SELLER_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Organization Seller.sql
YNA_ORGANIZATION_SHIP_NODES_VW	This view exposes the data in the YFS_SHIP_NODE.YFS_PERSON_INFO table. It is based on the YFS_SHIP_NODE table and provides information about Ship Nodes in the Sterling Supply Chain Applications system with the Contact Address and Ship Node Address information denormalized into the view. This view is used in multiple places in the Catalog. It is replicated into Organization Ship Nodes and Organization Receiving Nodes in the Business Layer (the base entity being Organization Distribution Nodes). These entities are further multiplied in the Package Layer.	None	Organization Ship Nodes.sql
YNA_ORGANIZATION_USERS_VW	This view exposes data by joining the YNA_ORGANIZATION_USERS_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Organization Users.sql

Table 8–12 Organization Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORGANIZATION_USERS_NL_VW	This view exposes the data in the YFS_USER.YFS_PERSON_INFO table. It provides information about Users in the Sterling Supply Chain Applications system with the Contact Address and Billing Address information denormalized into the view. This view is not joined to the YFS_ Organization table.	None	Organization UsersNL.sql
YNA_ORGANIZATION_NL_VW	This view exposes the data in the YFS_ORGANIZATION.YFS_PERSON_INFO table. It provides information about any Organization in the Sterling Supply Chain Applications system with the Corporate Address, Contact Address and Billing Address information denormalized into the view.	None	OrganizationNL.sql
YNA_ORGANIZATION_BUYER_NL_VW	This view exposes the data in the YFS_ORGANIZATION.YFS_ORG_ROLE.YFS_ROLE.YFS_PERSON_INFO table. It primarily contains columns from the YFS_ORGANIZATION table for Organizations that play the role of a Buyer in the Sterling Supply Chain Applications. The Corporate Address, Contact Address and the Billing Address information has been denormalized into the view.	None	Organization BuyerNL.sql
YNA_ORGANIZATION_CARRIER_NL_VW	This view exposes the data in the YFS_ORGANIZATION.YFS_ORG_ROLE.YFS_ROLE.YFS_PERSON_INFO table. It primarily contains columns from the YFS_ORGANIZATION table for an Organization that plays the role of a Carrier in the Sterling Supply Chain Applications. The Corporate Address, Contact Address and the Billing Address information has been denormalized into the view.	None	Organization CarrierNL.sql

Table 8–12 Organization Views

View	Description	Interpreted Columns	SQL Filename
YNA_ORG_ENTERPRISE_NL_VW	This view exposes the data in the YFS_ORGANIZATION.YFS_ORG_ROLE.YFS_ROLE.YFS_PERSON_INFO table. It primarily contains columns from the YFS_ORGANIZATION table for an Organization that plays the role of a Carrier in the Sterling Supply Chain Applications. The Corporate Address, Contact Address and the Billing Address information has been denormalized into the view.	None	OrganizationEnterpriseNL.sql
YNA_ORG_SELLER_NL_VW	This view exposes the data in the YFS_ORGANIZATION.YFS_ORG_ROLE.YFS_ROLE.YFS_PERSON_INFO table. It primarily contains columns from the YFS_ORGANIZATION table for an Organization that plays the role of a Seller in the Sterling Supply Chain Applications. The Corporate Address, Contact Address and the Billing Address information has been denormalized into the view.	None	OrganizationSellerNL.sql
YNA_ORG_ROLE_VW	This view returns all organizational along with their roles from the YFS_ORGANIZATION table.	None	OrganizationRole.sql
YNA_VENDOR_VW	This view exposes data from the YFS_VENDOR table.	None	Vendor.sql

A.13 Organization Levels View

The Organization Levels view is a helper view used for representing the organizational hierarchy captured in the YFS_ORGANIZATION table. This view should be customized to reflect your organization hierarchy before the view is created.

The top of the organization corresponds to ORGANIZATION_KEY_0 that is the ORGANIZATION_KEY column from the YFS_ORGANIZATION table, next level is ORGANIZATION_KEY_1. The last level is the one where your transactional data is stored. This level must correspond to ORGANIZATION_KEY. For each parent organization, use (uncomment) 1 ORGANIZATION_KEY_n starting from 0. So, if you have 3 levels in the

organization, your view SQL will look as shown in [Example 8–1](#), "Organization Levels View SQL".

Each ORGANIZATION_KEY_n in this view can be used as a level in the organization hierarchy dimension in cubes that have data at the lowest ORGANIZATION_KEY level and also contain the ORGANIZATION_KEY in the IQD.

Note: If the transactional data is stored at different levels within the organization, the data will not rollup correctly and you may get "orphan" categories in transformer.

Note: Since the organization hierarchy depth is defined at view creation time, this dimension works for multiple organizations *only* if each has the same number of levels. You may have to create dummy hierarchies to achieve this. Otherwise, a given view (with n levels) will only display part of the hierarchy for organizations with more than n levels. It is recommended that you either create dummy hierarchies, or, create a view with the minimum number of levels that are present in all the organizations in your data.

Table 8–13 Organization Levels View

View	Description	Interpreted Columns	SQL Filename
YNA_ORGANIZATION_LEVELS_VW	This view exposes the data in the YFS_ORGANIZATION table. It is a helper view used for representing the organizational hierarchy captured in the YFS_ORGANIZATION table. This view should be customized to reflect your organization hierarchy before the view is created.	None	Organization Levels.sql

Example 8–1 Organization Levels View SQL

```
Create Or Replace View YNA_ORGANIZATION_LEVELS_VW (
  ORGANIZATION_KEY_0,
  ORGANIZATION_KEY_1,
```

```
-- ORGANIZATION_KEY_2,
-- ORGANIZATION_KEY_3,
-- The last key must be called ORGANIZATION_KEY. This is the level at which the
transaction detail (Orders) is stored.
-- Transformer uses this column name in the Level input sources to link to the
Transaction input sources.
  ORGANIZATION_KEY )
As Select
O.ORGANIZATION_KEY,
O1.ORGANIZATION_KEY,
O2.ORGANIZATION_KEY -- The Organization level at which data is stored
--, O3.ORGANIZATION_KEY,
--O4.ORGANIZATION_KEY,
From
YFS_ORGANIZATION O
, YFS_ORGANIZATION O1
, YFS_ORGANIZATION O2
--, YFS_ORGANIZATION O3
--, YFS_ORGANIZATION O4
Where
(O.PARENT_ORGANIZATION_CODE Is Null Or O.PARENT_ORGANIZATION_CODE = ' ')
And O1.PARENT_ORGANIZATION_CODE (+) = O.ORGANIZATION_CODE
And O2.PARENT_ORGANIZATION_CODE (+) = O1.ORGANIZATION_CODE
--And O3.PARENT_ORGANIZATION_CODE (+) = O2.ORGANIZATION_CODE
--And O4.PARENT_ORGANIZATION_CODE (+) = O3.ORGANIZATION_CODE
;
```

A.14 Pricing Views

This set of views expose the Price-related data. The set consists of the views described in [Table 8–14](#).

Table 8–14 Pricing Views

View	Description	Interpreted Columns	SQL Filename
YNA_PRICE_ITEM_DETAIL_LIST_VW	This view exposes the data in the YFS_ITEM_PRICE_SET_DTL table.	None	Pricing Item Detail.sql
YNA_PRICE_ITEM_LIST_VW	This view exposes the data in the YFS_ITEM_PRICE_SET table.	None	Pricing Item List.sql

Table 8–14 Pricing Views

View	Description	Interpreted Columns	SQL Filename
YNA_PRICE_LIST_VW	This view exposes the data in the YFS_PRICE_SET table.	None	Pricing List.sql
YNA_PRICE_PROGRAM_DETAIL_VW	This view exposes the data in the YFS_IPRICE_PROGRAM_DEFN table.	None	Pricing Program Detail.sql
YNA_PRICE_PROGRAM_VW	This view exposes the data in the YFS_PRICE_PROGRAM table.	None	Pricing Program.sql

A.15 Receiving Discrepancy Views

This set of views expose the Receiving Discrepancy-related data. The set consists of the views described in [Table 8–15](#).

Table 8–15 Receiving Discrepancy Views

View	Description	Interpreted Columns	SQL Filename
YNA_RECEIVING_DISCREPANCY_VW	This view exposes the data in the YFS_RECEIVING_DISCREPANCY table.	None	Receiving Discrepancy.sql
YNA_RECEIVING_DISCR_DTL_VW	This view exposes the data in the YFS_RECEIVING_DISCR_DTL table.	None	Receiving Discrepancy Detail.sql
YNA_RECEIPT_LOT_DISCR_NL_VW	This view obtains the lot discrepancies in receipts by joining the data in the YFS_SHIPMENT, YFS_SHIPMENT_LINE, YFS_ORDER_LINE, YFS_RECEIPT_HEADER, YFS_ORDER_HEADER, YFS_ORDER_LINE_REQ_TAG, YFS_RECEIPT_LINE tables.	None	Receipt Lot DiscrepancyNL.sql
YNA_RECEIPT_QTY_DISCR_NL_VW	This view obtains the quantity discrepancies in receipts by joining the data in the YFS_RECEIVING_DISCREPANCY, YFS_SHIPMENT, YFS_ORDER_LINE, YFS_RECEIPT_HEADER, and YFS_ORDER_HEADER tables.	None	Receipt Quantity DiscrepancyNL.sql

Table 8–15 Receiving Discrepancy Views

View	Description	Interpreted Columns	SQL Filename
YNA_RECEIPT_SL_DISCR_NL_VW	This view obtains the serial discrepancies in receipts by joining the data in the YFS_SHIPMENT, YFS_SHIPMENT_LINE, YFS_RECEIPT_HEADER, YFS_ORDER_LINE, and YFS_RECEIPT_LINE tables.	None	Receipt Serial DiscrepancyNL.sql
YNA_RECEIPT_LOT_DISCREPANCY_VW	This view obtains data by joining the YNA_RECEIPT_LOT_DISCR_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views.	None	Receipt Lot Discrepancy.sql
YNA_RECEIPT_QTY_DISCREPANCY_VW	This view obtains the data by joining the YNA_RECEIPT_QTY_DISCR_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views.	None	Receipt Quantity Discrepancy.sql
YNA_RECEIPT_SL_DISCREPANCY_VW	This view obtains the data by joining the YNA_RECEIPT_SL_DISCR_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views.	None	Receipt Serial Discrepancy.sql

A.16 Receipt Views

This set of views expose the Receipt related data. The set consists of the views described in [Table 8–16](#).

Table 8–16 Receipt Views

View	Description	Interpreted Columns	SQL Filename
YNA_RECEIPT_HEADER_VW	This view exposes the data in the YFS_RECEIPT_HEADER table filtered by Receipt Header.	None	Receipt Header.sql
YNA_RECEIPT_LINE_VW	This view exposes the data in the YFS_RECEIPT_LINE table filtered by Receipt Line.	None	Receipt Line.sql
YNA_RECEIPT_STATUS_AUDIT_VW	This view exposes the data in the YFS_RECEIPT_STATUS_AUDIT table filtered by Receipt Line.	None	Receipt Status Audit.sql

A.17 Shipment Views

This set of views expose the Shipment-related data. The set consists of the views described in [Table 8–17](#).

Table 8–17 Shipment Views

View	Description	Interpreted Columns	SQL Filename
YNA_SHIPMENT_VW	This view exposes the data in the YFS_SHIPMENT.YFS_PERSON_INFO table. It provides shipment details along with denormalized From Address and To Address information.	None	Shipment.sql
YNA_SHIPMENT_CONTAINER_VW	This view exposes the data in the YFS_SHIPMENT_CONTAINER table.	None	Shipment Container.sql
YNA_SHIPMENT_CONTAINER_DTL_VW	This view exposes the data in the YFS_CONTAINER_DETAILS table.	None	Shipment Container Detail.sql
YNA_SHIPMENT_LINE_VW	This view exposes the data in the YFS_SHIPMENT_LINE table.	None	Shipment Line.sql
YNA_SHIPMENT_LINE_REQ_TAG_VW	This view exposes the data in the YFS_SHIPMENT_LINE_REQ_TAG table.	None	Shipment Line Req Tag.sql

Table 8–17 Shipment Views

View	Description	Interpreted Columns	SQL Filename
YNA_SHIPMENT_STATUS_AUDIT_VW	This view exposes the data in the YFS_SHIPMENT_STATUS_AUDIT table.	None	Shipment Status Audit.sql
YNA_SHIPMENT_TAG_SERIAL	This view exposes the data in the YFS_SHIPMENT_TAG_SERIAL table.	None	Shipment Tag Serial.sql
YNA_ITEMS_IN_SHORTAGE_VW	This view exposes data by joining the YNA_ITEMS_IN_SHORTAGE_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views	SHORTAGE_QTY = Sum of the quantity in back-ordered order lines and shortage quantity in shipment lines.	Items in Shortage.sql
YNA_PACK_HOLD_VW	This view obtains details of pack-and-hold shipments from the YNA_SHIPMENT_VW.	DOCK_LOCATION_ID = The dock door from which the pack-and-hold shipment is scheduled to be shipped.	Pack and Hold.sql
YNA_BOL_REPORT_VW	This view obtains the summary of all loads by joining the YFS_LOAD, YFS_LOAD_SHIPMENT, and YFS_SHIPMENT tables.	NO_OF_CASES = total number of containers of type 'Case' included in the load. NO_OF_PALLETS = total number of containers of type 'Pallet' included in the load.	BOL Report.sql

Table 8–17 Shipment Views

View	Description	Interpreted Columns	SQL Filename
YNA_CONTAINER_S TG_LOCN_VW	This view obtains the details of containers in the shipment sort location by joining YNA_LPN_LOCATION_VW, YNA_SHIPMENT_CONTAINER_VW, YNA_SHIPMENT_CONTAINER_VW, and YNA_SHIPMENT_CONTAINER_DTL_VW.	None	Container Staging Locn.SQL
YNA_SHIPMENT_DA SHBOARD_VW	This view groups the shipments based on different statuses.	None	Shipment Dashboard.sql
YNA_SHIP_DB_TOTA L_VW	This view obtains the total number of shipments belonging to different statuses for each day from YNA_SHIPMENT_DASHBOARD_VW	None	Shipment DB with Total.sql
YNA_CONTAINER_D ASHBOARD_VW	This view groups the containers based on different statuses.	None	Container Dashboard.sql
YNA_CNTR_DB_TOT AL	This view obtains the total number of containers belonging to different statuses for each day from YNA_CONTAINER_DASHBOARD_VW	None	Container DB with Total.sql
YNA_ITEMS_IN_SHO RTAGE_NL_VW	This view obtains shortage quantities for items by joining YFS_SHIPMENT_LINE and YFS_ORDER_LINE tables.	SHORTAGE_QTY = Sum of the quantity in back-ordered order lines and shortage quantity in shipment lines.	Items in ShortageNL.sql
YNA_LOAD_SHIPPER _VW	This view returns all the shipments with their load number and dock locations if these two attributes exist for the shipment. If these two attributes do not exist for the shipment, all shipments are returned.	None	Load Shipper.sql

Table 8–17 Shipment Views

View	Description	Interpreted Columns	SQL Filename
YNA_SHIP_LOAD_CNTR_SUMMARY_VW	This view returns the number of cases and pallets for a shipment by joining the YNA_SHIPMENT_VW, YNA_LOAD_SHIPMENT_VW, and YNA_LOAD_STOP_VW views.	NO_OF_CASES = The total number of cases without any parent container. NO_OF_PALLETS = The total number of pallets without any parent container.	Shipment Load Cntr Summary.sql
YNA_Shipment_LOCALIZER_VW	This view returns localized data by joining the YFS_ITEM, YFS_LOCALE, and YFS_LANGUAGE_DESCRIPTION tables.	None	Shipment Line Localizer.sql
YNA_DAILY_SHIPMENT_VW	This view retrieves the data required for Daily Shipment Report from the YFS_Shipment table.	None	Daily Shipment.sql
YNA_SHIPMENT_DISCREPANCY_VW	This view retrieves the data required for Vendor Non-Compliance Report from the YNW_Shipment_Discrepancy table.	None	Shipment Discrepancy.sql

A.18 WMS Views

This set of views expose WMS-related data. The set consists of the views described in [Table 8–18](#).

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_ZONE_MASTER_DATA_VW	This view exposes data from the YNA_ZONE_MASTER_DATA_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Zone Master Data.sql
YNA_LOCATION_VW	This view exposes the data by joining the YNA_LOCATION_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Location.sql
YNA_LOCATION_SIZE_VW	This view exposes the data by joining the YNA_LOCATION_SIZE_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Location Size.sql
YNA_TRAN_LOCN_ATTRS_VW	This view exposes the data in the YFS_TRAN_LOCN_ATTRS table	None	Tran Location Attributes.sql
YNA_INVENTORY_ITEM_HELPER_VW	This view exposes the data in the YFS_INVENTORY_ITEM table. Additionally, The Catalog Organization Code for the Inventory Item is also exposed	None	Inventory Helper.sql
YNA_INVENTORY_ITEM_MASTER_VW	This view exposes the data in the YNA_INVENTORY_ITEM_HELPER_VW and YFS_ITEM table.	None	Inventory Master.sql
YNA_SKU_DEDICATION_VW	This view exposes data by joining the YNA_SKU_DEDICATION_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views.	None	SKU Dedication.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_DEDUCTION_MSTR_VW	This View exposes the data in YNA_SKU_DEDUCTION_VW and YNA_TRAN_LOCN_ATTRS_VW.	ACTIVITY_DAY_DIFF = Current Date minus Last Modify Date of YNA_TRAN_LOCN_ATTRS_VW	Dedicated Location Master.sql
YNA_DEDICATED_LOCN_ACTY_VW	This view exposes the data in YNA_DEDUCTION_MSTR_VW and YFS_ITEM	CNT_ACTV_LOCATIONS = Count of all Dedicated Locations whose ACTIVITY_DAY_DIFF < 7 CNT_INACTV_FOR_7_DAYS = Count of all Dedicated Locations whose ACTIVITY_DAY_DIFF >= 7 and <15 CNT_INACTV_FOR_15_DAYS = Count of all Dedicated Locations whose ACTIVITY_DAY_DIFF >= 15 and <30 CNT_INACTV_FOR_30_DAYS = Count of all Dedicated Locations whose ACTIVITY_DAY_DIFF >= 30 and <90 CNT_INACTV_FOR_90_DAYS = Count of all Dedicated Locations whose ACTIVITY_DAY_DIFF >= 90	Dedicated Location Activity.sql
YNA_DISTNT_DEDICATED_LOCN_VW	This view retrieves the distinct locations from YNA_SKU_DEDUCTION_VW	None	Distinct Dedicated Location.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_DEDICATED_LOCN_SUMMARY_VW	This view exposes data from YNA_DISTNT_DEDICATED_LOCATION_VW, YNA_LOCATION_VW and YNA_TRAN_LOCN_ATTRS_VW	ACTIVITY_DAY_DIFF = Current Date minus Last Modify Date of YNA_TRAN_LOCN_ATTRS_VW	Dedicated Location Summary.sql
YNA_NODE_INVENTORY_VW	This view exposes data by joining the YNA_NODE_INVENTORY_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views	None	Node Inventory Master.sql
YNA_COUNT_RESULT_VW	This view exposes data from YFS_Count_Result. The view contains the latest count result for each count request.	None	Count Result.sql
YNA_USER_VW	This view exposes data from the YNA_USER_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	User.sql
YNA_USER_ORG_LOCALE_VW	This view exposes data from YNA_USER_VW and YFS_LOCALE	None	User Organization Locale.sql
YNA_USER_PRODUCTIVITY_VW	This view exposes data from the YNA_USER_PRODUCTIVITY_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	User Productivity.sql
YNA_USER_ORG_PARTICIPATION_VW	This view retrieves the Enterprises participating in the User's Node and the corresponding Catalog Organization Code and Inventory Organization Code of the Enterprises.	None	User Organization Participation.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_SCAC_AND_SERVICE_VW	This view exposes data by joining the YNA_SCAC_AND_SERVICE_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views.	None	Scac And Service.sql
YNA_SCAC_EX_VW	This view exposes data from YFS_SCAC_EX table.	None	Scac Ex.sql
YNA_SCAC_VW	This view exposes data from YFS_SCAC table	None	Scac.sql
YNA_MANIFEST_VW	This view exposes data from the YFS_Manifest table	None	Manifest.sql
YNA_MOVE_REQUEST_VW	This view exposes data from YFS_MOVE_REQUEST table	None	Move Request.sql
YNA_MOVE_REQUEST_STATUS_AUDIT_VW	This view exposes data from YFS_MOVE_REQUEST_STATUS_AUDIT table	None	Move Request Status Audit.sql
YNA_TASK_VW	This view exposes data from YFS_TASK table	None	Task.sql
YNA_TASK_STATUS_AUDIT_VW	This view exposes data from YFS_TASK_STATUS_AUDIT table	None	Task Status Audit.sql
YNA_UOM_CONVERSION_VW	This view exposes the data from YFS_UOM_CONVERSION table.	None	Uom Conversion.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_INVENTORY_ITEM_UOM_VW	This view exposes data from YNA_INVENTORY_ITEM_MASTER_VW view and YFS_ITEM_UOM table. This view only contains Dimensions and quantity for the Largest Alternate UOM for the Item	None	Inventory Uom.sql
YNA_LOCATION_INVENTORY_VW	This view exposes data from the YFS_LOCATION_INVENTORY table	None	Location Inventory.sql
YNA_LOCN_INVENTORY_AUDIT_VW	This view exposes data by joining YNA_LOCN_INVENTORY_AUDIT_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views	None	Location Inventory Audit.sql
YNA_LPN_HEADER_VW	This view exposes data from the YFS_LPN_HDR table	None	Lpn Header.sql
YNA_LPN_LOCATION_VW	This view exposes data from the YFS_LPN_LOCATION table	None	LPN Location.sql
YNA_TASK_TYPE_VW	This view exposes data from the YNA_TASK_TYPE_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Task type.sql
YNA_ITEM_UOM_VW	This view exposes data from the YFS_ITEM_UOM table	None	Item UOM.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_ITEM_UOM_QUANTITY_VW	This view obtains the standard case quantity and standard pallet quantity for each item by joining the YFS_ITEM and YFS_ITEM_UOM tables	None	Item Uom Quantity.sql
YNA_INVENTORY_IN_NODE_VW	This view obtains data by joining the YNA_INVENTORY_IN_NODE_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views	None	Node Inventory.sql
YNA_NODE_INVENTORY_SERIAL_VW	This view obtains data by joining the YNA_NODE_INVENTORY_SL_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views	None	Node Inventory Serial.sql
YNA_NON_STD_QTY_LPN_VW	This view obtains data by joining the YNA_NON_STD_QTY_LPN_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views	None	Non Std Qty Lpn.sql
YNA_INVENTORY_BALANCE_VW	This view obtains data by joining the YNA_INVENTORY_BALANCE_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views.	None	Inventory Balance.sql
YNA_ENTERPRISE_NODE_VW	This view obtains all nodes for an enterprise by joining the YFS_ORG_ENTERPRISE and YFS_ORGANIZATION tables	None	Enterprise Node.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_ALL_ITEMS_VW	This view obtains data by joining the YNA_ALL_ITEMS_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW view	None	All Items.sql
YNA_PRODUCTIVITY_TYPE_VW	This view exposes data by joining the YNA_PRODUCTIVITY_TYPE_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Productivity Type.sql
YNA_ITEM_SHIPMENT_VW	This view obtains the number of shipments shipped for each item by joining the YFS_SHIPMENT and YFS_SHIPMENT_LINE tables, and YNA_INVENTORY_ITEM_MASTER_VW	None	Item Shipment.sql
YNA_ITEM_VELOCITY_VW	This view exposes data by joining the YNA_Item_Velocity_NL_VW and YNA_ITEM_LOCALIZER_HELPER_VW views	None	Item Velocity.sql
YNA_MODULE_DOCUMENT_TYPE_VW	This view exposes data from the YFS_MODULE_DOCUMENT_TYPE table	None	Module Document Type.sql
YNA_ALL_ITEMS_NL_VW	This view exposes the data in the YFS_ITEM table.	None	All ItemsNL.sql
YNA_PROCESS_TYPE_STATUS_VW	This view obtains data by joining the YNA_PROCESS_TYPE_STAT_NL_VW and YNA_LOCALIZED_DESCRIPTIONS_VW views	None	Process Type Status.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
Container_Dashboard_Helper_VW	This view exposes the data of the yna_Shipment_Container_VW based on the status comparison with the YFS_Status table.	None	Container Dashboard Helper.sql
YNA_DEDICATED_LOCN_ACTY_VW	This view obtains the data by joining the YNA_DEDICATION_MSTR_VW view and the YFS_ITEM table.	<p>CNT_ACTV_LOCATIONS = Count of the distinct locations for which activity day difference < 7.</p> <p>CNT_INACTV_FOR_7_DAYS = Count of the distinct locations for which activity day difference >= 7 and < 15.</p> <p>CNT_INACTV_FOR_15_DAYS = Count of the distinct locations for which activity day difference >= 15 and < 30.</p> <p>CNT_INACTV_FOR_30_DAYS = Count of the distinct locations for which activity day difference >= 30 and < 90.</p> <p>CNT_INACTV_FOR_90_DAYS = Count of the distinct locations for which activity day difference >= 90.</p>	Dedicated Location Activity.sql
YNA_PROCESS_TYPE_STAT_NL_VW	This view obtains statuses and processes obtained from each document type	None	Process Type StatusNL.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_PRODUCTIVITY_TYPE_NL_VW	This view exposes data from the YFS_PRODUCTIVITY_TYPE table	None	Productivity TypeNL.sql
YNA_DOCUMENT_PARAMS_NL_VW	This view exposes the data in YFS_DOCUMENT_PARAMS table	None	Document ParamsNL.sql
YNA_INVENTORY_BALANCE_NL_VW	This view obtains the summary of the day-to-day transactions across all nodes for an enterprise from the YFS_INVENTORY_AUDIT table	<p>RECEIPTS = Sum of the quantities for all transactions of type 'RECEIPT' for a day.</p> <p>SHIPMENTS = Sum of the quantities for all transactions of type 'SHIPMENT' for a day</p> <p>RETURN_QUANTITY= Sum of the quantities for all transactions of type 'RETURN' for a day</p> <p>ADJUSTMENT= Sum of the quantities for all transactions of type 'ADJUSTMENT' for a day</p>	Inventory BalanceNL.sql
YNA_LOCATION_SIZE_NL_VW	This view exposes the data in the YFS_LOCATION_SIZE table.	None	Location SizeNL.sql
YNA_LOCATION_NL_VW	This view obtains data by joining the YNA_DISTNT_DEDICATED_LOCN_VW, YNA_LOCATION_VW, and YNA_TRAN_LOCN_ATTRS_VW views.	ACTIVITY_DAY_DIFF = The difference between the modify date for the location and the current date.	LocationNL.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_Item_Velocity_NL_VW	This view obtains the number of shipments shipped for each distinct velocity code by joining YNA_ITEM_SHIPMENT_VW and YNA_INVENTORY_ITEM_MASTER_VW	None	Item VelocityNL.sql
YNA_LOCN_INVENTORY_AUDIT_NL_VW	This view exposes data from the YFS_LOCN_INVENTORY_AUDIT table	None	Location Inventory AuditNL.sql
YNA_NODE_INVENTORY_NL_VW	This view exposes data from YFS_Location_Inventory and YFS_LPN_Dtl. Additionally, Receipt Date is obtained from Outer Join with YFS_RECEIPT_HEADER	None	Node Inventory MasterNL.sql
YNA_NODE_INVENTORY_SL_NL_VW	This view obtains the serial number information by joining YNA_INVENTORY_IN_NODE_VW with the YFS_GLOBAL_SERIAL_NUM table	None	Node Inventory SerialNL.sql
YNA_INVENTORY_IN_NODE_NL_VW	This view obtains the location level inventory picture for the warehouse by querying the YFS_LOCATION_INVENTORY and YFS_LPN_DTL tables	None	Node InventoryNL.sql
YNA_NON_STD_QTY_LPN_NL_VW	This view obtains LPNs having non-standard quantities by joining the YFS_LPN_DTL and YFS_ITEM_UOM tables.	None	Non Std Qty LpnNL.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_SCAC_AND_SERVICE_NL_VW	This view exposes data from YFS_SCAC_AND_SERVICE and YFS_CARRIER_SERVICE tables.	None	Scac And ServiceNL.sql
YNA_SKU_DEDUCTION_NL_VW	This view exposes the data in the YFS_SKU_DEDUCTION table. Additionally, Catalog Organization Code for the Enterprise is also exposed	None	SKU DedicationNL.sql
YNA_TASK_TYPE_NL_VW	This view exposes data from the YFS_TASK_TYPE table	None	Task typeNL.sql
YNA_USER_PRODUCTIVITY_NL_VW	This view exposes data from the YFS_Productivity view. The User Name from YFS_USER table is denormalized into the view	None	User ProductivityNL.sql
YNA_USER_NL_VW	This view exposes data from YFS_USER. Additionally, The user's Organization Name is denormalized into the view	None	UserNL.sql
YNA_ZONE_MASTER_DATA_NL_VW	This view exposes the data in YFS_ZONE table for the User's Node	None	Zone Master DataNL.sql

Table 8–18 WMS Views

View	Description	Interpreted Columns	SQL Filename
YNA_DEDICATED_LOCN_SUMMARY_VW	This view obtains data by joining the YNA_DISTNT_DEDICATED_LOCN_VW, YNA_LOCATION_VW, and YNA_TRAN_LOCN_ATTRS_VW views.	ACTIVITY_DAY_DIFF = The difference between the modify date for the location and the current date.	Dedicated Location Summary.sql
YNA_DEDUCTION_MSTR_VW	This view obtains data by joining the YNA_SKU_DEDUCTION_VW and YNA_TRAN_LOCN_ATTRS_VW views, and the YFS_ORGANIZATION table.	ACTIVITY_DAY_DIFF = The difference between the modify date for the location and the current date.	Dedicated Location Master.sql
Shipment_Dashboard_Helper_VW	This view exposes the data of the YNA_Shipment_VW based on the status comparison with the YFS_Status table.	None	Shipment Dashboard Helper.sql

A.19 Work Order Views

This view exposes the Work Order-related audit data. The set consists of the views described in [Table 8–19](#).

Table 8–19 Work Order Views

View	Description	Interpreted Columns	SQL Filename
YNA_WORK_ORDER_VW	This view exposes the data in the YFS_WORK_ORDER table.	None	YNA_WORK_ORDER_VW.sql
YNA_WORK_ORDER_TAG_VW	This view exposes the data in the YFS_WORK_ORDER_TAG table.	None	YNA_WORK_ORDER_TAG_VW.sql
YNA_WORK_ORDER_STS_AUDIT_VW	This view exposes the data in the YFS_WORK_ORDER_STS_AUDIT table.	None	YNA_WORK_ORDER_STS_AUDIT_VW.sql
YNA_WORK_ORDER_SERVICE_TOOL_VW	This view exposes the data in the YFS_WORK_ORDER_SERVICE_TOOL table.	None	YNA_WORK_ORDER_SERVICE_TOOL_VW.sql
YNA_WORK_ORDER_SERVICE_LINE_VW	This view exposes the data in the YFS_WORK_ORDER_SERVICE_LINE table.	None	YNA_WORK_ORDER_SERVICE_LINE_VW.sql
YNA_WORK_ORDER_PROD_DEL_VW	This view exposes the data in the YFS_WORK_ORDER_PROD_DEL table.	None	YNA_WORK_ORDER_PROD_DEL_VW.sql
YNA_WORK_ORDER_NOTES_VW	This view exposes the data in the YFS_WORK_ORDER_NOTES table.	None	YNA_WORK_ORDER_NOTES_VW.sql
YNA_WORK_ORDER_COMPONENT_VW	This view exposes the data in the YFS_WORK_ORDER_COMPONENT table.	None	YNA_WORK_ORDER_COMPONENT_VW.sql

Table 8–19 Work Order Views

View	Description	Interpreted Columns	SQL Filename
YNA_WORK_ORDER_COMP_TAG_VW	This view exposes the data in the YFS_WORK_ORDER_COMP_TAG table.	None	YNA_WORK_ORDER_COMP_TAG_VW.sql
YNA_WORK_ORDER_AUDT_DTL_VW	This view exposes the data in the YFS_WORK_ORDER_AUDT_DTL table.	None	YNA_WORK_ORDER_AUDT_DTL_VW.sql
YNA_WORK_ORDER_APPPT_VW	This view exposes the data in the YFS_WORK_ORDER_APPPT table.	None	YNA_WORK_ORDER_APPPT_VW.sql
YNA_WORK_ORDER_ACTIVITY_DTL_VW	This view exposes the data in the YFS_WORK_ORDER_ACTIVITY_DTL table.	None	YNA_WORK_ORDER_ACTIVITY_DTL_VW.sql
YNA_WORK_ORDER_ACTIVITY_VW	This view exposes the data in the YFS_WORK_ORDER_ACTIVITY table.	None	YNA_WORK_ORDER_ACTIVITY_VW.sql
YNA_WO_HOLD_TYPE_VW	This view exposes the data in the YFS_WO_HOLD_TYPE table.	None	YNA_WO_HOLD_TYPE_VW.sql
YNA_WO_HOLD_TYPE_LOG_VW	This view exposes the data in the YFS_WO_HOLD_TYPE_LOG table.	None	YNA_WO_HOLD_TYPE_LOG_VW.sql
YNA_WO_APPT_USER_VW	This view exposes the data in the YFS_WO_APPT_USER table.	None	YNA_WO_APPT_USER_VW.sql

A.20 Billing Activity Reporting Engine View

This view exposes the Work Order-related audit data for the Billing Activity Report. The set consists of the views described in [Table 8–20](#)

Table 8–20 Billing Activity Report Views

View	Description	Interpreted Columns	SQL Filename
YNA_ARE_ACTIVITY_VW	This view exposes the data in the YFS_ARE_ACTIVITY table.	None	YNA_ARE_ACTIVITY_VW.sql

B

Server Sizing Requirements

The server sizing requirements that should be met before installing Cognos Reportnet are listed here.

B.1 Cognos Server Sizing Requirements

Before you install Cognos Reportnet, ensure that you meet the requirements as described in [Table 8–21, "Cognos ReportNet \(IWR\) Server Requirements"](#).

Table 8–21 Cognos ReportNet (IWR) Server Requirements

Characteristics	Users	RAM (# of Processes * RAM)	Disk and CPU
8 catalogs 3 databases – DB2, SQL Server, Oracle 10 reports per catalog 75% personnel, 25% public	200 users 10% concurrent (20) Users are evenly distributed across catalogs.	PROCESSES Not applicable - dynamic TOTAL RAM = 256 - 512MB Difficult to calculate dependent on size of reports Memory for IWR= 256 – 512 MB Memory for NT Server = 70 MB Memory for Web Server= 5 MB Memory for database drivers	DISK SPACE Temporary disk space needed for report rendering to PDF (5X final report size) and final report storage. Difficult to estimate. Temporary disk space for IWR= 1 GIG IWR Software= 100 MB Reports and Catalogs = 100 MB NT Server = 500 MB Database drivers TOTAL Disk Space= 1.7 GIG CPU # of PROCESSORS = 1 scalable to 2 PROCESSOR = 200+ MHz

Cognos Components

The complete list of Cognos components are listed below. Most of these components are automatically installed with the main Cognos components.

C.1 Client and Authoring Components

ReportNet Administrator - used to build reports from the Sterling nWMS PCA Analytics catalog (YNA-Analytics.cpf).

C.2 Server Components

ReportNet Reports - used to web-enable reports

C.3 Security Components

Access Manager - used for user authentication

Netscape LDAP server - used as the authentication data store

Others: Ticket server

C.4 Tools

ReportNet Report Administrator

ReportNet Server Administrator

PDF Servers (for reports)

Access Manager Configuration Wizard

Other Server Administrator applications
Scheduler

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