Oracle® Retail Advanced Inventory Planning

Implementation Guide

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Oracle Retail Advanced Inventory Planning Implementation Guide, 13.2.2

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Contents

4 System Configuration

5 AIP Online Configurations

6 AIP RPAS Configurations

7 AIP Calendar Hierarchy

8 Integration

9 RMS Integration and Data Mapping

10 RMS Intraday Integration and Data Mapping

11 RDF Integration

12 External System Integration

13   IntradayExternal System Intraday Integration

14   RO Integration

15 AIP to RMS Interfaces and Data Mapping

16 AIP to External System Interfaces

17 AIP to RO Interfaces

18 First Day of AIP

19 Internationalization

List of Figures

List of Tables

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Preface

The *Oracle Retail Advanced Inventory Planning Implementation Guide* describes post-installation tasks that need to be performed in order to bring Advance Inventory Planning (AIP) online and ready for production use.

The Implementation Guide includes some or all of the following sections, depending upon the release:

- System configuration settings for the UNIX and AIP environments
- Interfaces and data mappings between AIP and other systems

Audience

The Implementation Guide is intended for the AIP integrators and implementation staff, as well as the retailer's IT personnel.

The reader should have an in-depth understand the following concepts and applications in order to perform the processes describes in this document:

- UNIX system administration, shell scripts, and job scheduling
- Oracle Retail Integration Bus (RIB)
- Oracle Retail Predictive Application Server (RPAS)
- Oracle Retail Demand Forecasting (RDF)
- Oracle databases
- Performance constraints based on the retailer's infrastructure
- Technical architecture for AIP
- Retailer's hierarchical (SKU/Store/Day) data
- AIP batch processes

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Related Documents

For more information, see the following documents in the Oracle Retail Advanced Inventory Planning Release 13.2.2 documentation set:

- *Oracle Retail Advanced Inventory Planning Administration Guide*

- *Oracle Retail Advanced Inventory Planning Data Management Online Help*

- *Oracle Retail Advanced Inventory Planning Data Management User Guide*

- *Oracle Retail Advanced Inventory Planning Data Model Volume 1—Oracle Database Data Model*

- *Oracle Retail Advanced Inventory Planning Data Model Volume 2—Measure Reference Guide*

- *Oracle Retail Advanced Inventory Planning Installation Guide*

- *Oracle Retail Advanced Inventory Planning Operations Guide*

- *Oracle Retail Advanced Inventory Planning Order Management Online Help*

- *Oracle Retail Advanced Inventory Planning Order Management User Guide*

- *Oracle Retail Advanced Inventory Planning Release Notes*

- *Oracle Retail Advanced Inventory Planning Store and Warehouse Replenishment Planning User Guide for the Classic Client*

- *Oracle Retail Advanced Inventory Planning Store and Warehouse Replenishment Planning User Guide for the Fusion Client*

- *Oracle Retail Advanced Inventory Planning Store and Warehouse Replenishment Planning Online Help*

The following documentation may also be needed when implementing AIP:

- Oracle Retail Integration Bus (RIB) 13.2 documentation, based on type of deployment

- RETL 13.2 documentation

- Oracle Retail Predictive Application Server (RPAS) documentation

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- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 13.2) or a later patch release (for example, 13.2.1). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Oracle Retail Documentation on the Oracle Technology Network

Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following Web site:

http://www.oracle.com/technology/documentation/oracle_retail.html

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Overview

Once AIP has been installed, you need to configure the system environment variables, create integration files, and configure the system according to the retailer's specifications.

This guide provides information on

- Implementing the AIP solution.
- Customizing AIP for the retailer's environment and needs.
- Integrating AIP with merchandising, forecasting, and other external systems.

For information on compatibility and hardware requirements, refer to the *Oracle Retail Advanced Inventory Planning Installation Guide*.

> **Note:** AIP Java/Oracle, AIP on Oracle, and AIP online are often used interchangeably to refer to those parts of AIP that access the Oracle relational database. This includes the Data Management and Order Management GUI components and a host of UNIX shell scripts and PL/SQL modules.

2

Pre-implementation Considerations

When preparing to implement the Advanced Inventory Planning solution, you must closely explore the retailer's infrastructure, hierarchy data, and other factors that can require customizing the AIP environment through the use of configuration files and settings, custom scripts, and the RPAS Configuration Tool. Prepare your environment and analyze your retail and data needs thoroughly before implementing AIP.

Considerations Prior to Implementation

Table 2–1 provides some of the considerations that the implementation team can need to address prior to implementation.

Table 2–1   Pre-implementation Considerations

Item	Issue	Description
1	Hierarchy Setup	■ Identify the attributes used by the Product, Location, and Time hierarchies, as well as their sources and update frequency.
		■ Define the dimensions within each of the Hierarchies and determine the default spreading settings.
		■ Define any Alternate Hierarchies and identify the relationship of the required Attributes that drive those Alternates.
		■ Define User Defined Hierarchies to be used by planners.
		The hierarchy setup mentioned above can vary, depending on the extent that the Configuration Tool will be used by the application.
2	Measure Settings	The following measure settings must be addressed during implementation and can vary depending on the extent that the Configuration Tool will be used by the application.
		■ Metric/Measure definitions, usage, interaction, and calculations
		■ Default Label to use when building measure labels
		■ Default Data Type
		■ Default NA Value
		■ Default Base Intersection
		■ Default Aggregation Method
		■ Default Spread Method
		■ Default Base State Read / Write Status at the base level
		■ Default Agg State Read / Write Status at aggregated levels
3	Setting Custom Wizards	Determine if any custom wizards are required that do not exist in the base application. The use or implementation of wizards can vary, depending on the extent that the Configuration Tool will be used by the application.

Table 2–1   (Cont.) Pre-implementation Considerations

Item	Issue	Description
4	Workbook Templates, Worksheets, Tabs, Formats	Workbooks can be created or refreshed through batch processing. By doing the processing in batch at night, the end users are spared from the wait time associated with each action. The Batch Processing section should outline when each of these operations will take place.
		For these default auto workbook builds, the layout, formatting, hierarchies, wizard, tabs, and worksheets must be defined.
		Configuring the timing of data loads, refreshes, and purges/deletions of workbooks must be set.
5	Daily and Weekly Batch Processing and Scheduling	Configure the system for the following defaults:
		■ Batch Processes
		■ Week-ending Processes
		■ Day-Ending Processes
		■ Data Updates
		■ Restructures - Adds, Renames, Deletes
		■ New Year Setup-- 53 weeks
		■ Data Aging/Purging
		■ Administrative Processes
		■ Backups
6	Sizing Estimates/Hardware Requirements	A sizing estimate spreadsheet and hardware requirements should be supplied to the client. These factors are dependent on the number of domains, intersection points, number of workbooks, purge and delete strategy, planning horizon, retention of data, and so forth.

Table 2–1   (Cont.) Pre-implementation Considerations

Item	Issue	Description
7	Security Access and Viewing	**User Setup/Security** To define Workbook Template Security, the system administrator will grant individual users or user groups access to specific workbook templates. Granting access to workbook templates provides users the ability to create, modify, save, and commit workbooks for the assigned workbook templates. Users will typically be assigned to groups based on their user application (or solution) role. Users in the same group can be given access to workbook templates that belong to that group alone. Users can be assigned to more than one group and granted workbook template access without belonging to the user group that typically uses a specific workbook template. Workbook access is either denied, read only, or full access. Read-only access will allow a user to create a workbook for the template, but you will not be able to edit any values or commit the workbook. The read-only workbook can be refreshed. When users save a workbook, they assign one of three access permissions to the workbook: ■ World - Allow any user to open and edit the workbook. ■ Group - Allow only those users in their same group to open and edit the workbooks. ■ User - Allow no other users to open and edit the workbook. **Note:** A user must have access to the workbook template in order to access the workbook, even if the workbook has world access rights. **Workbook Limits** Another aspect of workbook security is the ability to set limits for the number of workbooks that a user can have saved at any given time. Limits can be set at the following levels: ■ User per template ■ User Group per template ■ Globally per template for all users The limits are evaluated in the above order, which means that a limit defined at user-template overrides any values defined at group-template or global-template levels. If the above limits are not defined, the default value is one billion. The limits are checked when a user begins the workbook build process. If the user's limit has been reached, an error message appears that informs the user that the workbook build process cannot be completed because the user has reached their limit. The message informs that the user has reached their limit. The wizard process then terminates.
8	Data Management Automation	Creation of certain logical constructs in Data Management can be set automatically depending on the setting of certain parameters. Examine the system parameter configurations and determine which pieces of automation will be turned on. Map out each supplier's Ship-to value and each warehouse's Warehouse Type that will be needed to effectively automate the supply chain setup for those processes that are enabled. **Note:** Keep in mind that the Warehouse Type helps define Order Group destinations, Delivery Group destinations, and the default ordering pack size for a SKU into a store and warehouse.
9	Reconciliation	The reconciliation period is set to a day if the method is Reconciliation day-on-day and is set to a review period at source if the method is Reconciliation-over-time. Therefore, it has to be determined which reconciliation method will be selected at SKU level. You must set a flag to have a SKU reconciled in a constrained scenario.
10	Replenishment Methods	Define the replenishment methods to be used. Rule out replenishment methods that are not applicable.

Table 2–1   (Cont.) Pre-implementation Considerations

Item	Issue	Description
11	Perishables functionality	Spoilage threshold is calculated using the Acceptable Loss parameter. Acceptable loss is a user-managed parameter in SRP, defined either at the class/store format level or the SKU/store/day level.
		Users have the ability to determine when to use expected spoilage through a Store use inventory aging flag. Constraints on the application of inventory aging are as follows:
		1. A global limit: in number of days, on or inside of which an item with product life can be considered in the expected spoilage calculation.
		2. An expected write-off's user-maintained measure.
		The first constraint is used as a high limit in number of days for a product life and is called Store Inventory Aging Limit. Product life as entered by a user does not have a limit. The effectiveness of product life needs to be controlled by a user. Therefore, a global limit respective to the product life is necessary and configurable. The second constraint refers to the fact that aging is a calculated number, not an actual number. You can have an actual number of spoilage that is to be used. A measure (expected write-offs) can be entered by you and if entered will override any spoilage calculation and be used as the amount to spoil on the given day.
		To summarize the user input for expected spoilage:
		■ The product life of the inventory at the point of receipt into the final selling destination. (SKU/Str/Day)
		■ The Store use inventory aging flag (SKU)
		■ The global limit for using inventory aging (Scalar)
		■ The expected write-off's (amount to spoil). (SKU/Str/Day)
12	Shelf capacity	If the Shelf Capacity flag is set to True, then shelf capacity will be considered when setting boundaries.
13	Substitution and value added functionality	The linked product flag is only used for user review purposes in AIP and indicates whether there is a value added/pre-priced commodity or banded item association with that particular SKU. If there is a value added/pre-priced association, the linked product flag is only True between the promotional start and end dates. This flag will be set within RMS.
		Also a Substitution Flag must be set at the SKU level within Data Management, which sets that a SKU is substitutable across Demand Group.
14	User Specified Allocations	You must set the number of days of history required for using USA Indexed.
15	Alerts	Set the days that an alert will be run.
16	Store Reconciliation Matrix configuration	The number of store priorities is configurable; therefore, the Shortage and Stockless Surplus Priority Matrices can grow or shrink. However, no windows or workbooks are provided to view and maintain the configuration.
		The priority of each boundary, for each store priority, will depend on the number of store priorities defined. The order in which each boundary is met is configurable, however, no windows or workbooks are provided to view and maintain the configuration.
17	Network Throughput settings	The WRP Network Threshold Maintenance workbook is used to maintain network alert parameters. The WRP Network Threshold Maintenance workbook is available at the global and local domain levels. All measures should reflect the value in the domain during load and refresh times, and all editable measures should be committed to the domain unless otherwise stated.

3

Building a Production AIP RPAS Domain

During the installation of the AIP RPAS batch code (as detailed in the *Oracle Retail Advanced Inventory Planning Installation Guide*), the installer has the option of creating an AIP RPAS domain using the sample hierarchy data provided with the AIP package. This domain is not suitable for production use.

This chapter provides details on the process for creating an AIP RPAS domain with production-quality data. This process can be run whether or not you have already run the AIP RPAS Installer.

AIP Installer

About Notations

For reference purposes, this chapter uses the notation <AIP Installer> to refer to the UNIX directory where the `AIP-13.2.2-rpas-installer.zip` archive has been unpacked. The UNIX environment variable `$AIP_INSTALL` refers to the directory location specified during the execution of the AIP RPAS Installer for Dir to store configurations, as shown in Figure 3–1.

In Figure 3–1 ,/tmp/mike/acusys/configurations/aip was entered as the directory to store the configurations. For purposes of this document, `$AIP_INSTALL` refers to /tmp/mike/acusys.

Base Paths for Solution

Figure 3–1   Base Paths for Solution Window
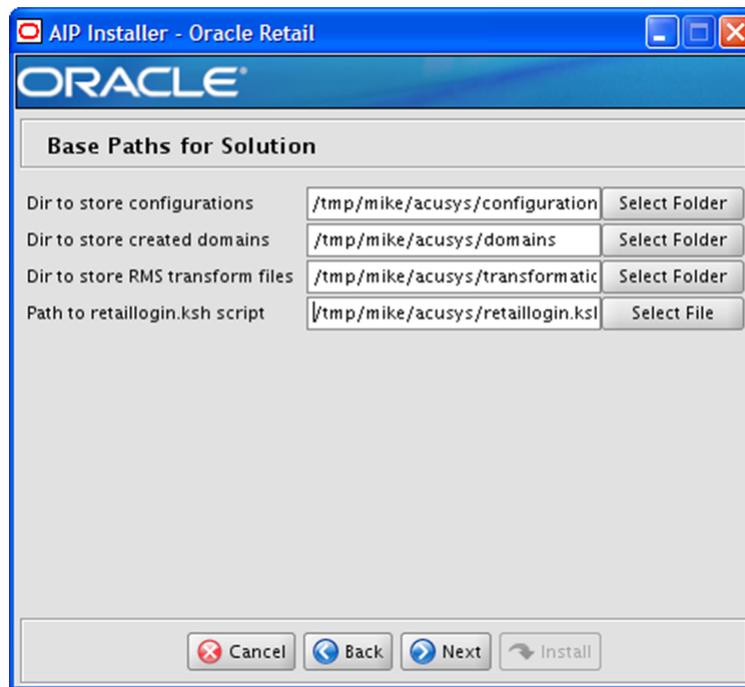
Table 3–1 provides information about the directories inside the $AIP_INSTALL directory. These directories are populated by the AIP RPAS Installer once it is run.

Table 3–1 $AIP_INSTALL Directory

Directory	Contents
$AIP_INSTALL/configuration/AIP	AIP base XML files generated by and that are customizable by using the RPAS Configuration Tools.
$AIP_INSTALL/domain_build/AIP/config	AIP default XML files used by the RPAS domain build process.
$AIP_INSTALL/domain_build/AIP/interface	Directories and files copied into the RPAS domain during domain build process. These files are used by the interface between AIP Oracle and external systems (such as RMS and RDF).
$AIP_INSTALL/input	AIP default/sample hierarchy data files and message strings loaded into the RPAS domain build during domain build process.

Hierarchy Data Overview

The `$AIP_INSTALL/input` directory contains a set of hierarchy data files that are provided as a sample for load during the AIP RPAS domain build during the execution of the AIP RPAS Installer. These hierarchy data files contain positions along each dimension in each hierarchy. These hierarchy data files are listed in Table 3–2.

Table 3–2   Hierarchy Data Overview

Hierarchy Data File	Description
bcsk.dat	Baseline/Contingency Stock
clnd.dat	Calendar
dsp.dat	Destination Stocking Point
had.dat	Advertising
hdgr.dat	Delivery Group
hseq.dat	Sequence Number
hspl.dat	Supplier
husa.dat	User Specified Allocation
intv.dat	Interval
loc.dat	Location
ntwg.dat	Network Group
oltc.dat	Order Lead Time
ordg.dat	Order Group
proc.dat	Profile Order Cycle
prod.dat	Product
prof.dat	Profile
ssp.dat	Source Stocking Point
whse.dat	Warehouse

Some of the data provided in the AIP package is of no use to the client running AIP in a production environment. This is because the positions are sample positions only and other hierarchy data contains generic positions that do not need to be customized (for example, hseq, intv). Therefore a domain built on this data is suitable only for proof of installation correctness, including viewing with the RPAS Client, but not suitable for production.

> **Note:** The client must build the domain with the BCSK hierarchy even if this functionality in not used. A core dump occurs during AIP RPAS batch processes if there is a lack of BCSK hierarchy positions in the hierarchy maintenance database (hmaint).

> **Note:** In previous versions of AIP, the calendar hierarchy could be generated at domain build time using RPAS functionality. In this version of AIP, the calendar hierarchy must be loaded as a flat file alongside the other hierarchy files. There is no calendar generator provided with the version of RPAS compatible with this version of AIP. See Chapter 7, "AIP Calendar Hierarchy" for detailed information on file format of calendar hierarchy.

In addition to the hierarchy data listed in Table 3–2, there are two additional files contained in the $AIP_INSTALL/input directory. These are non-optional, non-sample, base code files containing message strings, which must co-exist with the hierarchy data. These must be left intact and must not be replaced. During domain creation, these files are loaded into the domain. These message string data files are described in the following table.

Message Strings File	Description
msgs.dat.aip	Message Hierarchy Positions
r_msglabel.ovr.aip.english	Message String Data Overlay

Production AIP RPAS Domain Build Overview

This section describes the procedure by which the AIP installation files can be used as a starting point for creating an AIP RPAS domain that contains production data. The process consists of some manual intervention during certain points of the installation to most efficiently and expediently create a usable AIP RPAS domain built on customer hierarchy data. The intervention entails a combination of manipulating of the packaged files, running the AIP RPAS Installer, and running some AIP RPAS batch scripts.

These instructions are organized into the following sections:

- Manipulate the Hierarchy Data, Part One

- Run the AIP RPAS Installer

- How to Configure the AIP Solution

- Insert External System Data into the AIP RPAS Domain

- Generate Load-Ready AIP Hierarchy Data

- Create the AIP RPAS Global Domain Configuration XML File

- Manipulate the Hierarchy Data, Part Two

- Build the AIP RPAS Global Domain

- AIP RPAS Domain Build Completion Summary

- Move the RPAS Domain (Optional)

- Configure the RPAS Client to Use the Domain

Manipulate the Hierarchy Data, Part One

1. Locate and extract `AIP-13.2.2-rpas-installer.zip` into a newly created staging directory, referred to as <AIP Installer>. Note that <AIP Installer> is not the same as the environment variable, `$AIP_INSTALL`, used later.

   For more information about the AIP Installer, refer to the *Oracle Retail Advanced Inventory Planning Installation Guide*, chapter "Installing AIP RPAS- Full Version."

   `AIP-13.2.2-rpas-installer.zip` file contains the following:

   `<AIP Installer>/aip/aip/aip_install/aip.tar.zip`

   This `aip.tar.zip` archive must be unpacked and manipulated as detailed in the following steps.

2. Change directories to the `<AIP_Installer>/aip/aip/aip_install/` directory where `aip.tar.zip` is located, and unpack the `aip.tar.zip` archive using the following commands:

   - `cd <AIP_Installer>/aip/aip/aip_install`

   - `cp aip.tar.zip aip.tar.zip.orig`

   - `unzip -p aip.tar.zip | tar -xf -`

   This results in the creation of several subdirectories, including an `<AIP_Installer>/aip/aip/aip_install/input` subdirectory.

3. Replace the `<AIP_Installer>/aip/aip/aip_install/input/clnd.dat` file with a `clnd.dat` file created by the RMS to AIP transform script or by the customer. The `clnd.dat` must be replaced with a `clnd.dat` file created by customer or a `clnd.csv.dat` file created by RMS-AIP transform script or by the customer.

   The details for creating a `clnd.csv.dat` file from RMS to AIP transformation can be found in the *Oracle Retail Advanced Inventory Planning Operations Guide*.

   The `clnd.csv.dat` file contains the calendar hierarchy information. The details on the file format of this file for manual file creation (non-RMS) can be found in Chapter 7, "AIP Calendar Hierarchy". This file must be customized to contain the customer's desired calendar, including the start and end days required by the business. Note that the calendar must begin with a Sunday.

4. Replace each of the following .dat files in `<AIP_Installer>/aip/aip/aip_install/input` with a 0-byte file:

   - `had.dat`

   - `hdgr.dat`

   - `oltc.dat`

   - `ordg.dat`

   - `proc.dat`

   Use the UNIX built-in shell commands, *rm* and *touch*, to accomplish this task:

   - `cd <AIP_Installer>/aip/aip/aip_install/input`

   - `rm had.dat hdgr.dat oltc.dat ordg.dat proc.dat`

   - `touch had.dat hdgr.dat oltc.dat ordg.dat proc.dat`

   - `cd <AIP_Installer>/aip/aip/aip_install`

> **Note:** The hdgr (Delivery Group hierarchy), oltc (Order Lead Time Cycle hierarchy), ordg (Order Group hierarchy), and proc (Profile Order Cycle hierarchy) data files will be supplied by AIP Oracle table exports, and the had (Advertising hierarchy) file will be supplied by the customer's external system, so sample positions must not be loaded into these hierarchies. (Note that they are zeroed out.)

> **Note:** AIP Oracle will also supply the ntwg (Network Group hierarchy) data file, but this hierarchy must have positions in it for the domain build process to succeed. The sample data for ntwg will be removed at the end of this process.

At this point there is no further hierarchy manipulation that can be done to replace sample hierarchy data files with non-sample hierarchy data files without running part of AIP RPAS batch. Therefore, the `<AIP_Installer>/aip/aip/aip_install/aip.tar.zip` file must be repacked so it can be used by the AIP RPAS Installer.

5. Repack the `aip.tar.zip` archive using the following commands:

   ```
   tar -cf aip.tar input configuration domain_build
   ```

   ```
   zip aip.tar.zip aip.tar
   ```

Run the AIP RPAS Installer

The goal of this step is to not only install the AIP binary code, but to also build a temporary AIP RPAS domain that will be used for running a subset of AIP RPAS batch processes to create RPAS-loadable, customer-sourced, hierarchy data.

With the repacked `aip.tar.zip` file, the installation instructions in the "Installing AIP RPAS- Full Version" chapter of the *Oracle Retail Advanced Inventory Planning Installation Guide* must be followed in their entirety, except that the AIP RPAS Installer does not need to be unpacked again. When prompted to build an AIP domain, make note of the location of the domain (AIP path prompt on Domain installation paths window), as this is required as an environment variable, `$TEST_AIPDOMAIN`. Also, be sure to request the creation of the domain at the Create AIP Domain prompt.

The AIP RPAS Installer installs all the AIP binary code and creates an AIP RPAS domain that contains the customer's Calendar hierarchy and the following empty hierarchies:

- Advertising
- Delivery Group
- Order Lead Time Cycle
- Order Group
- Profile Order Cycle

The remaining hierarchies in this temporary domain contain sample data.

Using this hybrid sample-customer hierarchy domain, a subset of the RMS-AIP Transformation scripts and an abbreviated AIP RPAS batch can be executed, according to the instructions in the next section, to create the remaining AIP RPAS hierarchies.

These hierarchies will then be used to create a final domain that is built with customer hierarchy data.

During the RPAS Installer execution, you were prompted to enter the path to store a newly created `retaillogin.ksh` script. During the AIP RPAS Installer execution, an `$AIP_INSTALL/aiplogin.ksh` script was created, which is called by retaillogin.ksh. This retaillogin.ksh script must be executed prior to running the AIP RPAS batch processes because it sets some environment variables, including AIP-specific variables set by aiplogin.ksh, which are needed for the next steps.

At this point you should source the retaillogin.ksh script to set your environment for the remaining steps. It will call aiplogin.ksh, which was created by the AIP RPAS Installer, which sets the `$AIP_INSTALL` and `$TEST_AIPDOMAIN` environment variables.

- `cd <Path to retaillogin.ksh script>`

- `. ./retaillogin.ksh`

How to Configure the AIP Solution

You must make any optional customizations to the AIP configuration prior to building the production domain. Configure the AIP solution using RPAS Configuration Tools.

> **Note:** This section requires that the RPAS Configuration Tools are installed and working properly on your Windows workstation. For information on installing and troubleshooting RPAS Configuration Tools, refer to the *Oracle Retail Predictive Application Server Installation Guide*.

AIP is packaged with a base configuration that all implementations must use as a starting point for any customization. This base configuration is stored within various files and directories, which are unpacked during installation. In order to modify this configuration, the configuration files must be loaded onto a Windows workstation in order to load them into the RPAS Configuration Tools.

> **Note:** This release of the AIP RPAS configuration is enabled for multi-language capability as a default. This means that the domain build will set up positions in the database arrays into which translated strings can be optionally loaded by the domain administrator. See the *Oracle Retail Predictive Application Server Administration Guide for the Classic Client* or the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client* for details. It is strongly recommended that the multi-language setting remain at true. RPAS does not support upgrading a domain single-language configuration to a mutli-language configuration.

Because the RPAS Configuration Tools must run on a Windows workstation, in order to customize the configuration, the `$AIP_INSTALL/configuration/AIP` directory must be accessible from or copied to a Windows PC on a local or network drive.

The AIP solution is configurable to a limited degree. The following table describes what you can and cannot customize with respect to maintaining the integrity of this release.

Rule	Description
Clients cannot change existing measures or rules or add rules to existing rule groups.	Doing so results in a non-supported AIP configuration, which yields unpredictable results during the operation of AIP.
Clients can add additional measures, rule groups, and workbooks.	These must not be modified or otherwise touched during the patch installation.
Clients can customize the domain Hierarchy contained in hierarchy.xml.	In order to insert a customized hierarchy.xml into the configuration, the modified (using the RPAS Configuration Tools) hierarchy.xml must be copied to: `$AIP_INSTALL/configuration/AIP/hierarchy.xml`. This is where the domain build will be looking for the hierarchy.
The AIP RPAS domain must be partitioned along the product hierarchy at the subclass (scls) dimension.	This is not configurable.

Basic instructions for running the RPAS Configuration Tools are as follows:

1. Double-click the ConfigTools.exe file in your RPAS Configuration Tools installation directory to launch the RPAS Configuration Tools.

   The AIP solution consists of one domain structure, named **AIP**.

2. From the File menu, select **Open** and navigate to the configuration directory on your local or network drive.

3. Navigate to the configuration/AIP directory and select the `AIP.xml` file to open the AIP domain configuration.

4. Perform any configuration tasks that are necessary, save, and then close the AIP configuration.

5. Once you are satisfied with the configuration, copy the configuration directory back to `$AIP_INSTALL` before proceeding.

Insert External System Data into the AIP RPAS Domain

External system hierarchy and measure data must be introduced into the AIP RPAS domain in order for the AIP RPAS batch processes to execute and create the remaining AIP RPAS-loadable hierarchies.

To run a partial batch that results in loadable hierarchy data, those external system files required by AIP RPAS batch must be placed into the AIP RPAS domain.

Even though only the hierarchy data files are used for creating the RPAS loadable hierarchy files, the required measure data files must also be present for the batch processes to complete without error. The batch processes checks for the existence of all required files in the early batch of external files. For reference, these early files are listed with their options (Required or Optional) in:

`$AIPDOMAIN/interface/config/external/earlyfiles.config`

Follow these steps to prepare and properly place the required external system data files into the AIP RPAS domain:

1. The following hierarchy data files must be prepared according to the file formats defined in this guide, and copied to the `$AIPDOMAIN/interface/rms` directory:

   - `item.txt`

   - `loc.txt`

   - `splr.txt`

   - `whse.txt`

   RMS customers can:

   - copy splr.txt from the RMS RETL Extracts

   - generate item.txt, loc.txt, and whse.txt

2. For RMS customers to generate item.txt, loc.txt, and whse.txt, follow the instuctions in this step, or continue to Step 3.

   RMS customers can run a subset of the RMS-AIP Transformation scripts against the hybrid sample-customer hierarchy domain to generate item.txt, loc.txt, and whse.txt. See Table 9–46, " RMS 13.0/13.1 RETL Extracts" for the required RMS RETL Extract inputs to the following RMS-AIP Transformation scripts:

   > **Note:** The instructions detailed in this step reference the RMS 13.0/13.1 - AIP Transformation scripts; users of other versions of RMS must substitute for these the appropriate scripts that match their version of RMS.

   > **Note:** These steps will generate additional files in $AIPDOMAIN/interface/rms that are not needed at this time.

   a. Ensure $RPAS_TODAY is defined to satisfy the batch scripting architecture requirements. (The actual value is not important for this step.)

   b. Ensure RETL is installed and that the retl executable is in the $PATH.

   c. Copy all required RMS RETL extracts needed to generate item.txt, loc.txt, and whse.txt to the directory $RAW_RMS_DATA_DIR, defined in $RPAS_HOME/bin/aip_env_rpas.sh.

   d. Copy the RMS schema from the RMS package into $RMS_SCHEMA_DIR, which is also defined in aip_env_rpas.sh.

   e. Copy the AIP schema from the AIP package (installed to the aip_schema_dir subdirectory of the path specified by "Dir to store RMS transform files" during the AIP Installer execution) into $AIP_SCHEMA_DIR, which is also defined in aip_env_rpas.sh.

   f. Run aipt_item_rms13.ksh to generate $AIPDOMAIN/interface/rms/item.txt.

   g. Run aipt_orghier_rms13.ksh to generate $AIPDOMAIN/interface/rms/loc.txt.

   h. Run aipt_rename.ksh and aipt_move.ksh to generate $AIPDOMAIN/interface/rms/whse.txt.

3. For RMS customers to generate clnd.csv.dat, they must the instuctions in this step, or continue to Step 4.

   To replace the sample calendar hierarchy provided with the AIP package, run the following calendar transformation script to generate clnd.csv.dat from the RMS RETL Extracts:

   a. Copy the required RMS RETL extracts needed to generate clnd.csv.dat to $RAW_RMS_DATA_DIR.

   b. Run aipt_clnd.ksh to generate $AIPDOMAIN/interface/rms/clnd.csv.dat.

   > **Note:** The AIP RPAS batch process checks for existence of all required files and halts the process if any required files are missing. Therefore, to complete the batch processes without error, some measure data files must also be present in the `$AIPDOMAIN/interface/rms` directory. However, they only need to exist to pass the existence check. They do not need to be populated with data.

4. Use the UNIX command, *touch*, to create 0-byte data files for the required measures. The optional data files do not need to be created.

   - `dm0_ofseffdt_.txt`
   - `dm0_onseffdt_.txt`
   - `dmx_prdspllks.txt`
   - `dmx_dirspl.txt`

   > **Note:** The goal of this preparation step is to provide files needed to create RPAS-loadable hierarchy files, which can be used to build a domain based on customer hierarchy data. As a result, only the first few steps of AIP RPAS batch will be run as described in the next section. It follows then that the inventory and forecast data files are not required even in 0-byte stub form, because the AIP RPAS batch processes that process those files will not be run.

Generate Load-Ready AIP Hierarchy Data

A subset of the first-day AIP RPAS batch processes can now be run against the AIP RPAS domain created in the previous sections. The batch steps run will create hierarchy data files that can then be used to create a domain using customer hierarchy data positions (for example, customer SKUs and stores).

> **Note:** During the RPAS Installer execution, you were prompted to enter the path to store a newly created retaillogin.ksh script. During the AIP RPAS Installer execution, an `$AIP_INSTALL/aiplogin.ksh` script was created, which is called by `retaillogin.ksh`. This retaillogin.ksh script must be executed prior to running the AIP RPAS batch processes because it sets some environment variables, including AIP-specific variables set by `aiplogin.ksh`, which are needed for the next steps.

1. The master AIP RPAS batch script `aip_batch.sh` reads from `aip_env_ rpas.sh` to find the locations of the domain and log path. The domain and log path variables (`AIPDOMAIN` and `RPAS_INTEGRATION_HOME`) default to the `$TEST_AIPDOMAIN` and `TEST_RPAS_INTEGRATION_HOME` variables. Therefore, add a definition of `TEST_RPAS_INTEGRATION_HOME` to `$AIP_ INSTALL/aiplogin.ksh` or redefine the `RPAS_INTEGRATION_HOME` variable inside `$RPAS_HOME/bin/aip_env_rpas.sh`. This is the location where the logs will be written.

2. Ensure RPAS_TODAY is set before running the aip_batch.sh as shown in Step 3.

   For example, run `export RPAS_TODAY=20060510` at the commandline before run aip_batch.sh.

3. Execute the following command:

   ```
   aip_batch.sh -f -s set_implementation_parameters -e convert_
   hierarchies_for_loading
   ```

   This command instructs the AIP RPAS batch to run all first-day steps as scheduled in the `$RPAS_HOME/bin/aip_batch.sh` script from the set_implementation_ parameters step through the convert_hierarchies_for_loading step.

   These steps accomplish the task of creating RPAS loadable hierarchy files for the following:

   - product (prod.dat)
   - warehouse (whse.dat)
   - supplier (hspl.dat)
   - location (loc.dat)
   - profile (prof.dat)
   - source stocking point (ssp.dat)
   - destination stocking point (dsp.dat)

   These hierarchy data files are now located in `$AIPDOMAIN/input` directory.

   If there are any errors resulting from these batch processes, see the log files written to $TEST_RPAS_INTEGRATION_HOME to determine the error. If the logs indicate that any measure data files are missing, ensure that 0-byte versions of these files are located in the $AIPDOMAIN/interface/rms directory and rerun the above `aip_batch.sh` command.

Create the AIP RPAS Global Domain Configuration XML File

Some previous versions of AIP allowed for two kinds of RPAS domains. The first was an RPAS simple domain, where all the hierarchy and measure data are contained in one set of databases. The second was an RPAS global domain, where the hierarchy and measure data are partitioned across several sets of databases. In a global domain set, there is one master domain and one or more local domains (or subdomains).

This version of AIP supports only RPAS global domains.

The `$AIP_INSTALL/domain_build` directory contains files necessary to instruct the build programs how and where to build domains as well as partitioning information for global domains. Within `$AIP_INSTALL/domain_build`, there is one directory, AIP, corresponding to the build instructions for the AIP domain. Within the AIP directory is a config directory, which contains files that must be edited during installation.

The directory `$AIP_INSTALL/domain_build/AIP/config` contains one file:

`globaldomainconfig.xml`

Inside the `globaldomainconfig.xml` file are XML tags read by the RPAS domain build program that specify the name, location, and partitioning information for each domain in a global domain structure.

The settings provided with this installation specify a global domain set with one master domain and two local domains. The default partitioning dimension is subclass (SCLS), and the default partitioning dimensions are set to match the subclasses contained in the sample data files provided in the input.tar file. The partitioning dimension is not customizable and must remain at subclass (SCLS). However, the subclasses in each local domain and the number of local domains must be determined according to the business needs.

The default globaldomainconfig.xml for AIP is similar to the following example.

Example:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<rpas>
    <globaldomain>
        <path>DOMAIN_PATH</path>
        <partitiondim>SCLS</partitiondim>
        <subdomain>
            <subpath>DOMAIN_PATH/ldom0</subpath>
            <subpositions>1414_1000_1000,25_110_1204,25_116_438,25_116_439,
             25_116_440,25_116_442,25_119_692,3_564_984,43_813_1458,43_813_516,
             44_602_1212,44_602_1214,44_602_1215,48_264_683,
              48_906_803</subpositions>
        </subdomain>
        <subdomain>
            <subpath>DOMAIN_PATH/ldom1</subpath>
            <subpositions>48_906_804,48_906_805,5_503_1401,5_503_1503,5_503_
             1504,5_530_246,5_531_658,5_699_817,66_213_482,66_214_553,66_223_
             394,66_224_1117,71_710_112,71_710_113,71_710_1497,7_562_1108
             </subpositions>
        </subdomain>
    </globaldomain>
</rpas>
```

If the desired global domain solution for the AIP module contains more than two local domains, copy the `<subdomain>` ... `</subdomain>` tag-set as many times as needed and then customize each new copy of the tag-set.

> **Tip:**   Each sub-domain (such as the local domain) must contain at least one position along the partitioning dimension (for example, SCLS) in the production hierarchy data set, namely, prod.dat. In addition, all the positions along the partitioning dimension in the data set (prod.dat) must be listed in one of the local domains. Otherwise, the domain creation will fail. An error will be reported in the build log.

The `<path>` … `</path>` and `<subpath>` … `</subpath>` tags in the globaldomainconfig.xml files must be modified since they specify the absolute path to each component of each global domain. This XML file currently contains DOMAINPATH as a placeholder, which you must replace with the actual domain path components.

> **Tip:** If the globaldomainconfig.xml file refers to domain directories that already exist, the domain build process in the following example will not overwrite these domains. Rather, they will be skipped. It is essential that the `<path>` and `<subpath>` tags contain paths that do not exist.

Example:

```
<path>/u01/acusys/rpas/Domains/aip</path>
<subpath>/u01/acusys/rpas/Domains/aip/ldom0</subpath>
<subpath>/u01/acusys/rpas/Domains/aip/ldom1</subpath>
where /u01/acusys/rpas/Domains/aip does NOT currently exist.
```

> **Note:** Before invoking the utility (described in Manipulate the Hierarchy Data, Part Two) to create the AIP domain, there is one system environment variable clients can wish to consider. This environment variable can be configured to control certain behaviors of the RPAS Configuration Tools utility, `rpasInstall`, which does the majority of the work to build a domain. The variable name is RIDE_OPTIONS. Consult the RPAS documentation for more information about various options that can be configured by customizing the RIDE_OPTIONS variable.

Manipulate the Hierarchy Data, Part Two

The AIP Package files must be updated with the newly created required hierarchy and configuration XML files as follows:

1. Repackage the `<AIP_Installer>/aip/aip/aip_install/aip.tar.zip` file with the following newly created files from the `$AIPDOMAIN/input` directory:

   - `prod.dat`
   - `whse.dat`
   - `hspl.dat`
   - `loc.dat`
   - `prof.dat`
   - `dsp.dat`
   - `ssp.dat`

Repackage the <AIP_Installer>/aip/aip/aip_install/aip.tar.zip
file using the following commands:

- `cd <AIP_Installer>/aip/aip/aip_install/input`

- `cp $TEST_AIPDOMAIN/input/prod.dat .`

- `cp $TEST_AIPDOMAIN/input/whse.dat .`

- `cp $TEST_AIPDOMAIN/input/hspl.dat .`

- `cp $TEST_AIPDOMAIN/input/loc.dat .`

- `cp $TEST_AIPDOMAIN/input/prof.dat .`

- `cp $TEST_AIPDOMAIN/input/ssp.dat .`

- `cp $TEST_AIPDOMAIN/input/dsp.dat .`

- `cd <AIP_Installer>/aip/aip/aip_install`

- `tar -cf aip.tar input configuration domain_build`

- `zip aip.tar.zip aip.tar`

It is important for the domain build process, described in the next section, to find
the customer hierarchy data in the <AIP_Installer>/aip/aip/aip_install/input
directory and the globaldomainconfig.xml file in the <AIP_
Installer>/aip/aip/aip_install/domain_build/AIP/config directory.

> **Note:** The `aip.tar.zip` file does not have to be repackaged in
> order to run the domain build independently. Nevertheless, it is
> suggested that the `aip.tar.zip` file be repackaged so that the entire
> AIP RPAS installer can be run again in the future with the end result
> of an AIP RPAS domain that contains customer data.

Build the AIP RPAS Global Domain

Once the various configuration files and hierarchy files are customized, the temporary
AIP RPAS domain can be deleted and the final AIP RPAS domain can be built. Invoke
the `build_aip_domains.ksh` script to initiate the AIP domain build process
manually. There is no need to go through the Installer to build the domain. This script
is located in the `$RPAS_HOME/bin` directory. Make sure that this directory is in the
`$PATH` environment variable of the UNIX account running the batch. If you have
executed retaillogin.ksh previously, then `$RPAS_HOME/bin` should be in your `$PATH`.

The `build_aip_domains.ksh` requires several command line options listed in the
following table:

Option	Option Description	Argument Value
-d	Domain source	`$AIP_INSTALL/domain_build`
-c	Configuration	`$AIP_INSTALL/configuration`
-i	Input	`$AIP_INSTALL/input`
-l	Log file	< any path and filename to an output log file >

Example execution command:

```
build_aip_domains.ksh -d $AIP_INSTALL/domain_build -c $AIP_INSTALL/configuration
-i $AIP_INSTALL/input -l $AIP_INSTALL/aip_build.log
```

This build script internally calls the appropriate RPAS installation programs to perform the following:

- Create an RPAS global domain in the paths/locations specified by the configuration files. If domain components already exist in the specified locations, they will not be overwritten.

- Register all measures, templates, and rules that were created using the RPAS Configuration Tools in the domain.

- Establish the partitioning mapping according to the partitioning information specified in the globaldomainconfig.xml file.

- Verify the domain build process for errors after the installation programs are complete. In the event that errors occurred in the domain build, you will be alerted and should check the log file to determine the source of the error.

The log file can be scanned for errors by using any text editor or UNIX text search commands. If an error occurs, it will most likely contain the word *error*, so the following command might be useful for detecting if any build errors occurred:

```
grep -i error $AIP_INSTALL/build_logs/*.log
```

Other keywords to search for are :

- <E

- not found

- exception

> **Note:** When viewing or searching through the build log, consult the *Oracle Retail Advanced Inventory Planning Release Notes*. The Release Notes contain all known issues associated with this release.

> **Note:** Once the domain build has successfully completed, you must preserve the `$AIP_INSTALL` directory. The domain configuration files are automatically copied inside the domain after a successful build. However, the `$AIP_INSTALL` directory is used for AIP patches.

Once the domain build is completed, the sample positions from the Network Group hierarchy should be removed. This is done in order that there will be no sample positions in this hierarchy once the AIP Oracle export provides new hierarchy positions during daily AIP RPAS batch.

Remove the Network Group hierarchy positions using the following commands:

- `touch $TEST_AIPDOMAIN/input/ntwg.dat`

- `loadHier -d $TEST_AIPDOMAIN -load ntwg -checkParents -purgeAge 0`

The -purgeAge option indicates that all positions in the hierarchy older than the number specified (in days) should be removed from the hierarchy. Using 0 ensures all positions are removed, and since there are no positions in the ntwg.dat file to be loaded, the hierarchy is effectively cleared.

AIP RPAS Domain Build Completion Summary

The end result after executing the steps in the previous sections is an AIP RPAS domain with the customer-specified arrangement of product subclasses per local domain, together with the following arrangement of hierarchies:

Table 3–3   Customer Data Hierarchies

Calendar	Supplier	Source Stocking Point
Product	Location	Destination Stocking Point
Warehouse	Profile	Advertising

Table 3–4   Empty Hierarchies

Delivery Group	Profile Order Cycle
Order Lead Time Cycle	Network Group
Order Group	

Table 3–5   Default / Sample Hierarchies

Baseline/Contingency Stock	User Specified Allocation
Sequence Number	Interval

> **Note:**   The empty hierarchies will be populated during a full AIP RPAS batch run. The data for these hierarchies will be supplied by the AIP Oracle export that will be loaded into the AIP RPAS domain.

Move the RPAS Domain (Optional)

RPAS global domains contain internal pointers that specify the disk location of the master and local domains. The master domain must know where the local domains exist on disk, and the local domains must each know where the master domain exists.

After the AIP domain is created, you can move it to a different location. However, the following process must be followed to copy or move the domain components in order to update the newly copied/moved domain component directories.

If the local domain directories are subdirectories of the master domain directory, or if you want your local domains to be moved inside the master domain, perform the following:

Use the RPAS copyDomain utility. Refer to the *Oracle Retail Predictive Application Server Administration Guide for the Classic Client* or the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client* for details about this utility. This utility updates the internal pointers between master and sub-domains. It converts the pointers between master and local from absolute UNIX paths to relative paths. The master domain refers to local domains by directory name only (for example, ldom0), and the local domains refer to the master domain by "..".

If the sub-domain directories are not subdirectories of the master domain, and you wish to preserve this spread-out global domain set, but at the same time you wish to move a local domain or the master domain, use the RPAS moveDomain utility. This utility will move some or all parts of an RPAS domain by specifying the new paths in an XML file. Refer to the *Oracle Retail Predictive Application Server Administration Guide for the Classic Client* or the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client* for details about this utility.

> **Note:** Previous versions of AIP contained an updateGlobalPointers utility. This utility is deprecated in AIP due to increased functionality in the copyDomain and moveDomain RPAS utilities.

Configure the RPAS Client to Use the Domain

The RPAS server installation package includes the following RPAS clients:

RPAS Client	Description
RPAS Classic Client	A Windows-based client interface for end users and system administrators of an RPAS domain.
RPAS Fusion Client	A Web-based client developed using Oracle Application Development Framework (ADF). It includes the features available in the RPAS Windows-based client and meets the scalability requirements set for the RPAS platform.

Each RPAS client installation package includes a separate installer to help you install the client. For more information on installing the RPAS clients, refer to the *Oracle Retail Predictive Application Server Installation Guide*.

RPAS Classic Client

The RPAS Classic Client must be configured to point to one of the newly created domains. Refer to the Oracle Retail Predictive Application Server Installation Guide for instructions on how to attach the domains to the client. Double-click the EConfigure.exe file to define the RPAS Client configuration.

RPAS Fusion Client

The AIP installation software enables you to install the taskflow and online help files for the RPAS Fusion Client. In order to install the taskflow files, the RPAS Fusion Client must already be installed. For more information on installing the RPAS Fusion Client, see the *Oracle Retail Predictive Application Server Installation Guide*.

Each RPAS client installation package includes a separate installer to help you install the client. For more information on installing the RPAS clients, refer to the *Oracle Retail Predictive Application Server Installation Guide*.

During the RPAS Fusion Client installation, the installer automatically sets up the RPAS domain connection configurations in the ProfileList.xml file. If you choose to set up the domain connection after the installation or set up an additional domain, you must manually set up the connection. For more information, see the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

Post-Installation Instructions

Refer to other chapters in this *Oracle Retail Advanced Inventory Planning Implementation Guide* and the *Oracle Retail Advanced Inventory Planning Operations Guide* for information on loading data into the domains and for practical use of the AIP batch domains.

The AIP RPAS domain does not contain any accounts. The domain build process for previous versions of AIP and RPAS created the default accounts of adm and usr during the domain build. These accounts are not created in the domain build process for this release.

For details and instructions on how to create admin and user accounts for the AIP RPAS domain, refer to the:

- *Oracle Retail Predictive Application Server Release Notes*.

- *Oracle Retail Predictive Application Server Administration Guide for the Classic Client* or the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client* for the description of the usermgr utility in the "Operational Utilities" chapter.

- *Oracle Retail Predictive Application Server Administration Guide for the Classic Client* or the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client* chapters on "User Maintenance" and "System Administration".

4

System Configuration

This chapter describes the configuration that must be completed for AIP and includes these topics:

- Setting Environment Variables
- Using the Scheduler to Run AIP Overnight Batch Processes

Setting Environment Variables

After AIP is installed, you must define the environment variables for the domain paths, integration directory paths, message logging levels, and so forth. These variables define the environment in which batch scripts are run. These settings do not affect the way in which the business uses AIP to replenish the supply-chain.

The scripts run as part of the nightly batch on both of the AIP platforms, RPAS and Oracle. Both platforms have defined environment variables for configuration.

Configuring AIP RPAS Environment Variables

The following aspects of the RPAS-side batch must be configured so that the controller scripts-aip_batch.sh, aip_export_to_ro.sh, and aip_import_from_ro.sh and each batch step script can be run from the command line or from a job scheduler.

Setting RPAS Position Level Security

The position level security for RPAS needs to be modified. Position Level Security allows access control for dimensions on a position-by-position basis. Refer to the *Oracle Retail Predictive Application Server Administration Guide* for detailed information about this feature. To specify the security dimension for a hierarchy, use the RPAS Configuration Tools or hierarchyMgr utility. Refer to the *Oracle Retail Predictive Application Server Configuration Tools User Guide* for more information.

aip_env_rpas.sh

The variables listed in Table 4–1 must be defined properly within `aip_env_rpas.sh`.

Note that the values of the environment variables can be variables themselves, depending on the business needs. Such variables can add flexibility for environment maintenance and patch testing and are used at the discretion of the business.

Example:

If `aip_env_rpas.sh` contains

`RPAS_INTEGRATION_HOME="${TEST_RPAS_INTEGRATION_HOME}"`

`TEST_RPAS_INTEGRATION_HOME` is a client-specific environment variable whose value is the correct path to the root integration directory. This and all other such variables must also be defined in order to run the batch.

Finally, the variables in Table 4–1, which correspond to directory paths, must not contain white space. For example, AIPDOMAIN can be defined as "`/files1/aip/AIP1`" but cannot be defined as "`/files1/aip/AIP RPAS Domain`".

Table 4–1   Environment Variables for aip_env_rpas.sh

Environment Variable	Description
AIPDOMAIN	Fully qualified path of the AIP RPAS global domain. The default value (TEST_AIPDOMAIN) provided at the time of installation is a variable that must also be defined as part of aip_env_rpas.sh if it is to be retained as the value.
RPAS_INTEGRATION_HOME	Fully qualified path of a readable/writeable directory that serves mainly as a base for other path definitions later in aip_env_rpas.sh. Commonly set equal to AIPDOMAIN. The default value (TEST_RPAS_INTEGRATION_HOME) provided at the time of installation is a variable that must also be defined as part of aip_env_rpas.sh if it is to be retained as the value.
DEFAULT_DOMAIN	Fully qualified path of the AIP RPAS local domain into which any new subclass will be added.
BSA_TEMP_DIR	Fully qualified path of readable/writeable directory where scripts can store temporary files. Valid definition of this variable is required by the BSA common scripts. **Note:** This should not be set to /tmp. Failures can occur due to insufficient temporary workspace.
BSA_LOG_LEVEL	Script logging threshold severity. Only log entries at this or higher severity levels will be written to the script logs. Must be one of { PROFILE | DEBUG | INFORMATION | WARNING | ERROR }. Valid definition of this variable is required by the BSA common scripts.
BSA_MAX_PARALLEL	Script parallel process fan-out maximum. The number of processes that any given process (script instance) can spawn. Valid definition of this variable is required by the BSA common scripts.
BSA_LOG_HOME	Fully qualified path of readable/writeable directory where script logs will be rooted. Script logs are written into a hierarchy that parallels the script call tree, rooted in a date-stamped directory located in this specified directory. Valid definition of this variable is required by the BSA common scripts.
BSA_LOG_TYPE	Integer parameter that specifies the type of script log files to be written. Must equal one of { 0 | 1 | 2 | 3 }. These values are defined as follows: 0 = No logging 1 = Text ".log" files; 2 = XML structured ".xml" file; 3 = Text and XML log files. Valid definition of this variable is required by the BSA common scripts.
BSA_CONFIG_DIR	Fully qualified path to directory that contains the BSA configuration file bsa_prep_files.config. Valid definition of this variable is required by the BSA common scripts.

Table 4–1   (Cont.) Environment Variables for aip_env_rpas.sh

Environment Variable	Description
BSA_ARCHIVE_DIR	Fully qualified path to directory to which BSA file processing operations will archive files. Valid definition of this variable is required by the BSA common scripts.
RPAS_LOG_LEVEL	RPAS binary logging threshold severity. Only log entries at this or higher severity levels will be written to the script logs from binaries that accept a -loglevel argument. Must be one of: { PROFILE | DEBUG | INFORMATION | WARNING | ERROR }.
RAW_RMS_DATA_DIR	Fully qualified path to directory that contains untransformed RMS output data.
RMS_SCHEMA_DIR	Fully qualified path to the directory that contains the RETL schema files corresponding to the untransformed RMS output data.
AIP_SCHEMA_DIR	Fully qualified path to directory that contains RETL schema files depicting the transformed RMS output data.
RPAS_PAGE_SPLIT_PERCENTAGE	This variable is used to optimize AIP performance. Do not alter this setting without consulting AIP Technical Management.
ORACLE_AIP_PERISHABLE_ON	This UNIX variable is set to *yes* (ORACLE_AIP_PERISHABLE_ON=yes) when AIP is replenishing perishable products. This setting is case sensitive.
LIMIT_OF_SKPS_LOCAL_DOMAIN	Maximum number of SKU-Pack Sizes allowed in a local domain when considering where to add a new subclass received from Merchandising System.

> **Note:**   aip_env_rpas.sh also includes some Implementation Parameters. See Chapter 6, "AIP RPAS Configurations" for details on these parameters.

aip_ro_common.sh

The variables listed in Table 4–2 must be defined properly in order for the Oracle Retail Replenishment Optimization (RO) integration controller scripts to execute.

Installations not integrating with a replenishment optimization solution can disregard these settings.

Table 4–2   Environment Variables for aip_ro_common.sh

Environment Variable	Description
RO_INPUT	The location of input data copied or transferred from the RO server.
RO_OUTPUT	The location of output data to be copied or transferred to RO.
RO_CONFIG	The location of RO integration configuration files.
RO_FILE_TYPE	The file type for data exchange between AIP and RO. Must be either csv or txt.

RPAS_TODAY

This value defines *TODAY* for the AIP RPAS environment. It is used to ensure that the replenishment batch can be run for a single calendar day, independent of the actual server date. During a normal production run of the batch, this value should be set by the VDATE (virtual date) value exported from AIP Online. This variable can be set for ad hoc procedures, but it should be cleared after the procedure has completed, as this can have an adverse affect on the user workbooks.

Number of Available File Handles (ULIMIT)

Prior to AIP batch execution, the System Administrator should ensure that the limit of available file handles (ulimit -n <number>) is above 2000 file handles per process. Setting ulimit to less than the recommended value can cause the AIP batch process to fail. Exercise caution while setting this system variable. Do not set this too high, as it can seriously impact performance system-wide.

Configuring AIP Online Environment Variables

aip_env_online.sh

The aip_env_online.sh variables in the following table must be configured for your environment. This information can also be found in the README file provided with the online integration files.

Note that the values of the environment variables can be variables themselves, depending on the needs of the client. Such variables can add flexibility for environment maintenance and patch testing and are used at the discretion of the business.

Table 4–3   Environment Variables for aip_env_online.sh

Environment Variable	Description
INTEGRATION_HOME	Fully qualified path to the interface home directory. The default value references TEST_ONL_INTEGRATION_HOME, an externally defined variable. However, the client can assign a hardcoded path to this value at their discretion.
ONL_OUTBOUND_DIR	The default is `${INTEGRATION_HOME}/outbound`. This variable defines the directory location where the cron_export.sh script will put the files containing the data exported from AIP Online. If bypassing the RIB, the tsf_po_export.sh script will also write the exported transfers and purchase order files to this directory. This must match the ONL_OUTBOUND_DIR defined in aip_env_rpas.sh script, which can reside on a different server.
ONL_INBOUND_DIR	The default is `${INTEGRATION_HOME}/inbound`. This variable defines the directory location where cron_import.sh and cron_import_order.sh expect the inbound files from RPAS to be sourced from.
BSA_ARCHIVE_DIR	The default is `${INTEGRATION_HOME}/archive`. This variable defines the directory location where cron_import.sh and cron_import_order.sh scripts will send the input data files for archiving.
BSA_LOG_HOME	Fully qualified path of readable/writeable directory where script logs will be rooted. Script logs are written into a hierarchy that parallels the script call tree, rooted in a date stamped directory located in this specified directory. Valid definition of this variable is required by the BSA common scripts. This variable is initially set to `${INTEGRATION_HOME}/logs`.
BSA_CONFIG_DIR	Fully qualified path to directory that contains the BSA configuration file bsa_prep_files.config. Valid definition of this variable is required by the BSA common scripts. This variable is initially set to `${INTEGRATION_HOME}/config`.
BSA_TEMP_DIR	Fully qualified path of readable/writeable directory where scripts can store temporary files. Valid definition of this variable is required by the BSA common scripts.

Table 4–3 (Cont.) Environment Variables for aip_env_online.sh

Environment Variable	Description
BSA_LOG_LEVEL	Logging severity threshold for batch scripts. Only log entries at this or higher severity levels will be written to the script logs from procedures that accept the -loglevel argument. Listed in increasing order of severity, one of the following levels must be selected { PROFILE | DEBUG | INFORMATION | WARNING | ERROR }.
BSA_LOG_TYPE	Integer parameter that specifies the type of script log files to be written. Must equal one of { 0 | 1 | 2 | 3 }. These values are defined as follows: 0 = No logging 1 = Text ".log" files 2 = XML structured ".xml" file 3 = Text and XML log files Valid definition of this variable is required by the BSA common scripts.
BSA_MAX_PARALLEL	Script parallel process fan-out maximum. The number of processes that any given process (script instance) can spawn. Valid definition of this variable is required by the BSA common scripts.
DEFAULT_BSA_SQL_CRED_APP	The default is DATABASE. It is used by bsa_sql.sh script to perform a lookup from the config.xml file to connect to the AIP Online database.
RETL_MAX_HEAP_SIZE	The default value is 700M. Raise this limit to improve performance on production systems.
RETL_CONFIG_FILE	File name containing database connection information. This variable is used by RETL scripts. The default value references TEST_RETL_CONFIG_FILE, an externally defined variable. The client can assign a hardcoded value. In either case, the variable should ultimately point to the fully-qualified path of a RETL configuration file. An example config.xml file is included with AIP.
AIPDOMAIN	Fully qualified path of the AIP RPAS global domain. The default value references TEST_AIPDOMAIN, an externally defined variable. The client can assign a hardcoded path to this value.
ONL_DB_ALIAS	This variable holds the alias of the AIP database credentials in the Oracle Wallet. This alias is used by AIP shell scripts to access the Oracle Database.
ONL_SCHEMA_OWNER	This variable sets the database schema owner. It is used by the store_source extract. For example, if you are running AIP online extracts as *aipdev131user* but the schema owner is *aipdev131*, then regardless of the running database user, ONL_SCHEMA_OWNER should be set to *aipdev131*.
NLS_LANG	This variable defines the character encoding of the RETL import files.
ONL_VDATE_DIR	The directory location of the vdate.int file.
ONL_DATA_DIR	This variable defines the location of data directory that contains the compressed and zipped orders from AIP-RPAS. (Such as, location where srp.tar.Z is placed for cron_import_order).
RETL_INIT_HEAP_SIZE	The default value is 200M. Raise this limit to improve performance on production systems.

Table 4–3   (Cont.) Environment Variables for aip_env_online.sh

Environment Variable	Description
ONL_IMPORT_DIR	This variable defines the location of all lower-level script files that are used for importing data into AIP Online.
	Default value of this variable is: ${INTEGRATION_HOME}/scripts/import.
ONL_EXPORT_DIR	This variable defines the location of all lower-level script files that are used for exporting data from AIP Online.
	Default value of this variable is: ${INTEGRATION_HOME}/scripts/export.
ONL_SCHEMA_DIR	This variable defines the location of all lower-level XML schema files that are used for importing and exporting data from AIP Online.
	This variable is internally used by lower-level importing and exporting scripts.

> **Note:**   RETL runs within a Java Virtual Machine (JVM). Errors concerning the JVM stack size can be encountered when executing AIP Oracle batch processes. This value represents the amount of memory allocated to a single JVM thread and is defaulted by the JVM. You can override it by setting the RETL_THREAD_STACK_SIZE variable in aip_env_online.sh or in your user profile.
>
> **Example:**
>
> ```
> export RETL_THREAD_STACK_SIZE=200000
> ```
>
> It can also be set in rfx.conf, the configuration file for RETL itself. However, modifying rfx.conf will affect all users accessing the RETL installation, not just those using AIP. When manipulating the JVM stack size, extreme care should be taken to prevent RETL from using an inordinate amount of the available physical memory.

RETL

Once RETL is installed, the environment variables listed in Table 4–4 should be defined. Verify that these environment variables are properly defined.

Table 4–4   Environmental Variables for post-RETL Installation

Variable	Description
RFX_HOME	The RETL home directory
RFX_TMP	The RETL temp directory
ORACLE_HOME	The Oracle installation directory

User Path

When you invoke online shell scripts, the PATH must include the following directories:

- `$INTEGRATION_HOME`

- `$INTEGRATION_HOME/bsa`

- `$INTEGRATION_HOME/config`

- `$INTEGRATION_HOME/scripts`

- `$RFX_HOME`

- `$RFX_TMP`

- `$ORACLE_HOME`

Example:

If aip_env_online.sh contains:

`INTEGRATION_HOME= "${TEST_ONL_INTEGRATION_HOME}"`

`TEST_ONL_INTEGRATION_HOME` is an environment variable whose value is the correct path to the root integration directory. The path that is defined for `TEST_ONL_INTEGRATION_HOME` must be in the your PATH.

Using the Scheduler to Run AIP Overnight Batch Processes

This topic provides information about using the Scheduler to run the AIP on RPAS and AIP on Oracle overnight batch processes. The overnight batch processes span both platforms and depend on inputs from the merchandising and forecasting and optimization systems.

> **Note:** For details on scheduling the intraday batch processes, refer to these chapters in the *Oracle Retail Advanced Inventory Planning Operations Guide*:
>
> - Chapter 7, "AIP Java/Oracle Batch Process Flow"
> - Chapter 8, "AIP Java/Oracle Daily Batch Process Details"
> - Chapter 12, "AIP RPAS Intraday Batch Processing"
> - Chapter 13, "AIP RPAS Intraday Batch Scripts"

The following control scripts can be used to execute AIP batch:

aip_batch.sh	cron_purge.sh
aip_export_to_ro.sh	cron_release.sh
aip_import_from_ro.sh	merge_order.sh
aip_t_master.ksh	post_scale.sh
batch_lock.sh	pre_scale.sh
cron_export.sh	purge_log.sh
cron_import.sh	scale_order.sh
cron_import_order.sh	smooth_order.sh
cron_post_release.sh	vdate.sh

If the Oracle Retail Integration Bus (RIB) is not used to communicate the purchase orders and transfers released by the overnight batch, the following script should also be used:

`tsf_po_export.sh`

Also, once a week or once a month, the data purging script can be run to delete invalid or ineffective data from Oracle tables by executing following script:

`scripts/aip_purge.sh`

This script should be followed by executing purging_aip_batch.sh.to make corresponding changes in AIP-RPAS database

Many of these control scripts accept or require parameters to indicate the specific logic to execute. Therefore, you will notice that the control script can be called multiple times with different parameters. Where restart/recovery at the control script level is not sufficiently granular, the sub-scripts, called by the top level control script, can be scheduled instead. However the scheduled tasks must carefully consider all tasks executed by the control script, including common environment control.

Figure 4–1 outlines the AIP script/step execution and dependencies. Note that the shaded boxes of the pre-critical, critical, and post-critical diagrams represent the executable steps of `aip_batch.sh`. The `aip_batch.sh` step name, in bold, can be passed into the script as a parameter, or the subscript, listed below the step name, can be scheduled.

> **Note:** AIP does not move data between platforms internally or retrieve files that were generated external to AIP. All data that is input to AIP must be transferred by FTP or copied to the appropriate inbound directory on the AIP server.

Pre-Critical Path Tasks

Figure 4–1 and Table 4–5 provide information about the pre-critical path steps that must be performed.

Figure 4–1   Pre-Critical Tasks Process Flow Diagram
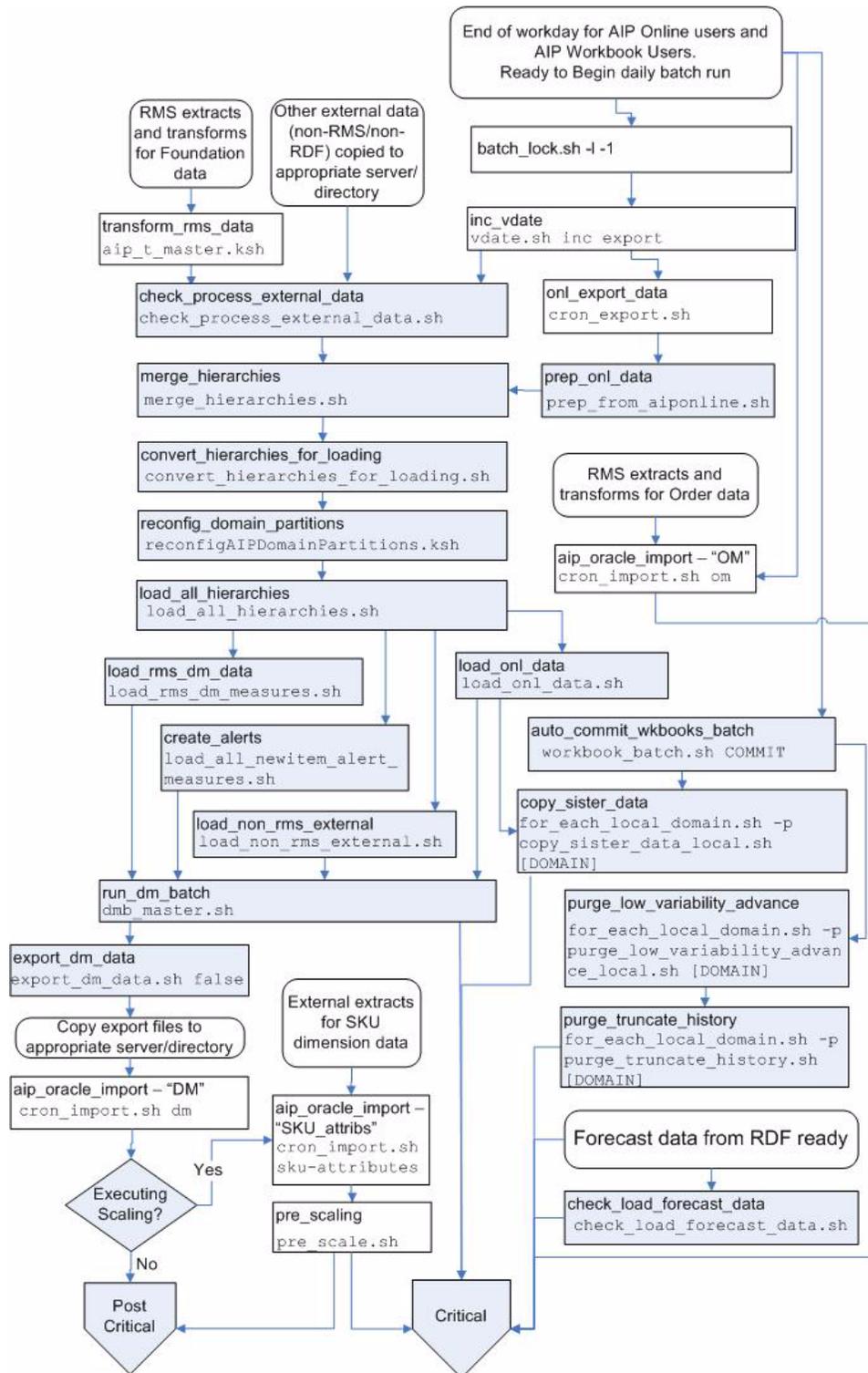
Table 4–5 provides information about the script or action performed in the Pre-Critical Tasks process flow diagram. These steps include the scaling module scripts that are only required by those Retailers who are supplier scaling and/or container scaling.

Table 4–5   Pre-Critical Tasks Process Scripts or Actions

Script or Action	Parameters	Platform Location
Bring down the domain daemon to lockout users before the start of overnight batch.		RPAS
batch_lock.sh	-l -1	Oracle
vdate.sh	inc export	Oracle
cron_export.sh		Oracle
Copy/FTP vdate.int file from: `${INTEGRATION_HOME}/vdate` to `${AIPDOMAIN}/interface/import/meas`		RPAS
Copy/FTP AIP Online export files from: `${ONL_OUTBOUND_DIR}` to `${AIPDOMAIN}/interface/export`		RPAS
Copy/FTP RMS data files to: `${RAW_RMS_DATA_DIR}`. Perform uncompress and un-tar operations.		RPAS
aip_t_master.ksh		RPAS
Copy/FTP all external/custom data files to: `${AIPDOMAIN}/interface/rms`. Perform uncompress and un-tar operations.		RPAS
aip_batch.sh	check_process_external_data	RPAS
aip_batch.sh	prep_onl_data	RPAS
aip_batch.sh	merge_hierarchies	RPAS
aip_batch.sh	convert_hierarchies_for_loading	RPAS
aip_batch.sh	reconfig_domain_partitions	RPAS
aip_batch.sh	load_all_hierarchies	RPAS
aip_batch.sh	load_onl_data	RPAS
aip_batch.sh	load_rms_dm_data	RPAS
aip_batch.sh	create_alerts	RPAS
aip_batch.sh	load_non_rms_external	RPAS
aip_batch.sh	auto_commit_wkbooks_batch	RPAS
aip_batch.sh	run_dm_batch	RPAS
aip_batch.sh	export_dm_data	RPAS
Copy/FTP RPAS export files from: `${AIPDOMAIN}/interface/export` to `${INTEGRATION_HOME}/data`.		Oracle
cron_import.sh	dm	Oracle
Copy/FTP SKU dimension export files to: `${ONL_INBOUND_DIR}`. Perform uncompress and un-tar operations.		Oracle
cron_import.sh	sku-attributes	Oracle

Table 4–5   (Cont.) Pre-Critical Tasks Process Scripts or Actions

Script or Action	Parameters	Platform Location
pre_scale.sh		Oracle
Copy or FTP the RDF forecast files to: ${INTERFACE_FORECAST_DIR}. Perform uncompress and un-tar operations.		RPAS
aip_batch.sh	check_load_forecast_data	RPAS
aip_batch.sh	purge_low_variability_advance	RPAS
aip_batch.sh	purge_truncate_history	RPAS
aip_batch.sh	copy_sister_data	RPAS
Copy/FTP RMS and custom OM data files to: ${ONL_INBOUND_DIR}. Perform uncompress and un-tar operations.		Oracle
cron_import.sh	om	Oracle

Critical Path Tasks

Figure 4–2 displays the Critical Path Tasks process flow diagram.

> **Note:**   The release of Purchase Orders can be executed before the release of Transfers; however, the release of Transfers and Purchase Orders must not run in parallel when using the tsf_po_export.sh script to extract the Transfers and/or POs to a flat file.

> **Note:**   cron_release must not be run for a second time until tsf_po_export.sh has completed for the previous set.

Figure 4–2   Critical Path Tasks Process Flow Diagram
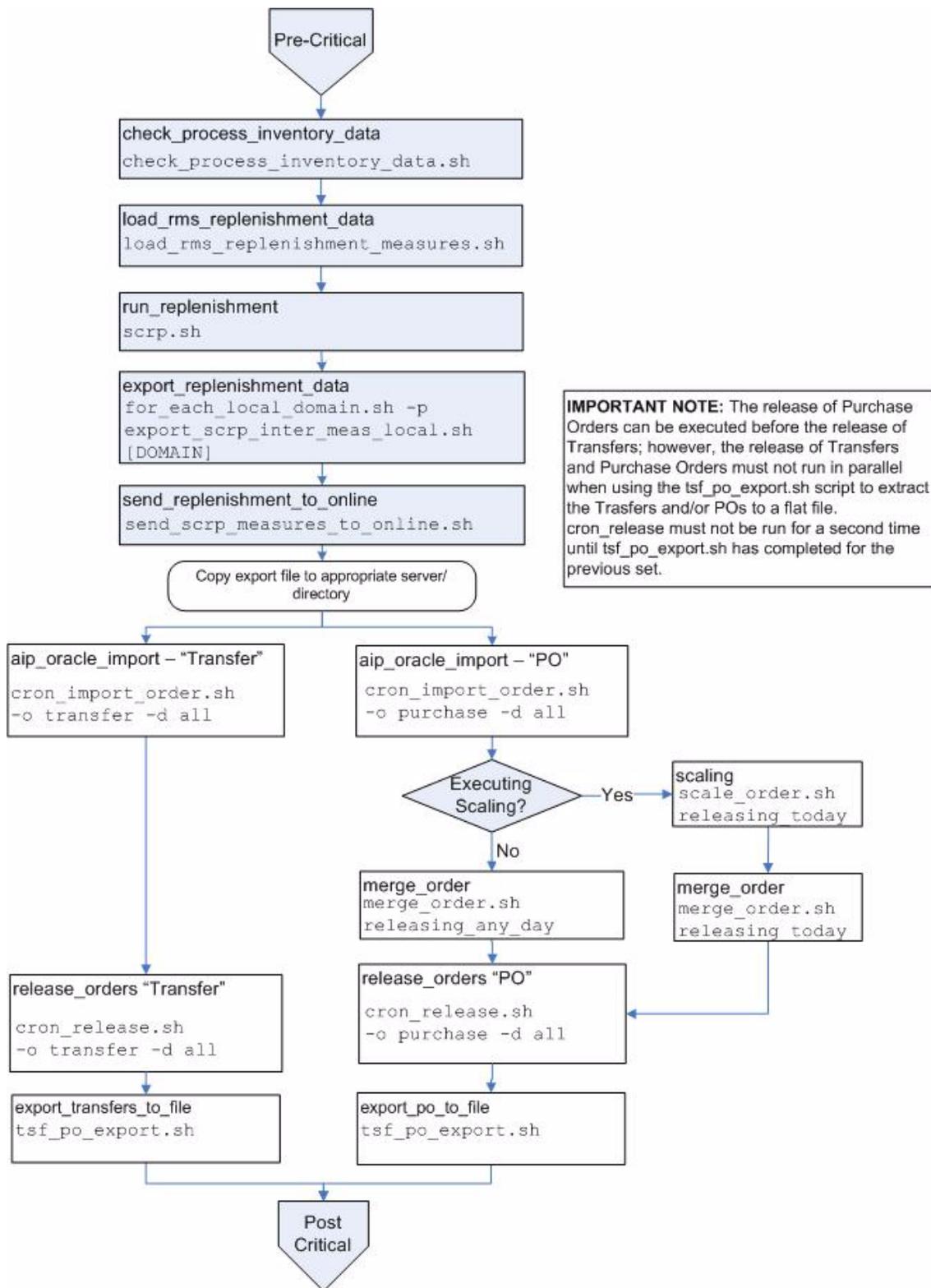
Table 4–6 provides information about the critical path steps that must be performed.

Table 4–6   Critical Path Tasks Process Scripts or Actions

Script or Action	Parameters	Platform Location
Copy/FTP the RMS inventory position files to `${AIPDOMAIN}/interface/rms`. Perform uncompress and un-tar operations.		RPAS
aip_batch.sh	check_process_inventory_data	RPAS
aip_batch.sh	load_replenishment_data	RPAS
aip_batch.sh	run_replenishment	RPAS
aip_batch.sh	export_replenishment_data	RPAS
aip_batch.sh	send_replenishment_to_online	RPAS
Copy/FTP RPAS export files from `${AIPDOMAIN}/interface/export` to `${INTEGRATION_HOME}/data`.		Oracle
cron_import_order.sh	-o transfer -d all	Oracle
cron_release.sh	-o transfer -d all	Oracle
tsf_po_export.sh (for RIB bypass)	-o transfer -d all	Oracle
cron_import_order.sh	-o purchase -d all	Oracle
smooth_order.sh		Oracle
scale_order.sh	releasing_today	Oracle
merge_order.sh	releasing_today	Oracle
cron_release.sh	-o purchase -d all	Oracle
tsf_po_export.sh (for RIB bypass)	-o purchase -d all	Oracle
When bypassing the RIB, copy/FTP the AIP purchase order and transfer files from `${ONL_OUTBOUND_DIR}` to RMS.		Oracle

Post Critical Path Tasks

Figure 4–3 displays the Post Critical Path Tasks process flow diagram.

Figure 4–3   Post Critical Path Tasks Process Flow Diagram

Figure 4–3   Post Critical Path Tasks Process Flow Diagram
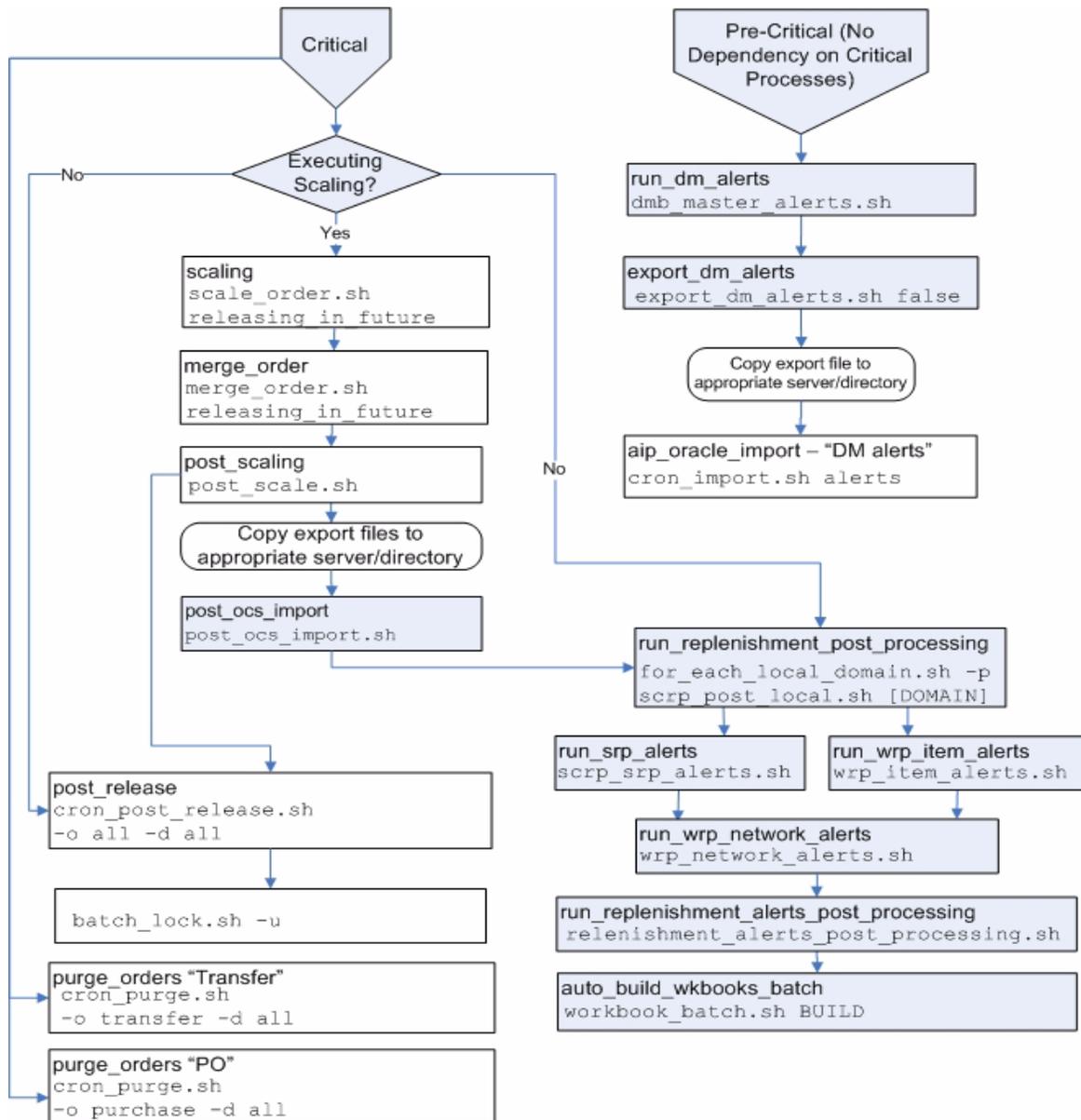
Table 4–7 provides information about the post-critical path steps that must be performed. These steps include the scaling module scripts that are only required by those Retailers who are supplier scaling and/or container scaling.

Table 4–7   Post Critical Path Tasks Process Scripts or Actions

Script or Action	Parameters	Platform Location
scale_order.sh	releasing_in_future	Oracle
merge_order.sh	releasing_in_future	Oracle
post_scale.sh		Oracle
aip_batch.sh	post_ocs_import	RPAS
aip_batch.sh	run_replenishment_post_processing	RPAS
aip_batch.sh	run_dm_alerts	RPAS
aip_batch.sh	export_dm_alerts	RPAS
cron_import.sh	alerts	Oracle
aip_batch.sh	run_srp_alerts	RPAS
aip_batch.sh	run_wrp_item_alerts	RPAS
aip_batch.sh	run_wrp_network_alerts	RPAS
aip_batch.sh	run_replenishment_alerts_post_processing	RPAS
aip_batch.sh	auto_build_wkbooks_batch	RPAS
aip_batch.sh	run_reports_calculation	RPAS
Start the AIP RPAS domain daemon.		RPAS
cron_post_release.sh	**1.** Order Type **2.** Destination Type See the details of this script in the *Oracle Retail Advanced Inventory Planning Operations Guide* for the possible valid values of these two parameters.	Oracle
cron_purge.sh	**1.** Order Type **2.** Destination Type See the details of this script in the *Oracle Retail Advanced Inventory Planning Operations Guide* for the possible valid values of these two parameters.	Oracle
batch_lock.sh	-u	Oracle
purge_log.sh		Oracle

Interval Batch Tasks

The first opportunity that AIP will have to apply new replenishment settings to the plan is the next replenishment batch run that occurs after the data is loaded from RO. AIP assumes that RO or the legacy system that is providing the optimized replenishment settings has set the appropriate effective date for the data.

The following examples in Figure 4–4 and Figure 4–5 illustrate when the data is applied to the AIP replenishment plan.

Example 1: Interval Batch Tasks

For a particular virtual date, the replenishment batch run occurs after the load of RO data into AIP. The loaded replenishment methods and thresholds will be used in the upcoming replenishment batch run.

Figure 4–4   Example 1: Interval Batch Tasks
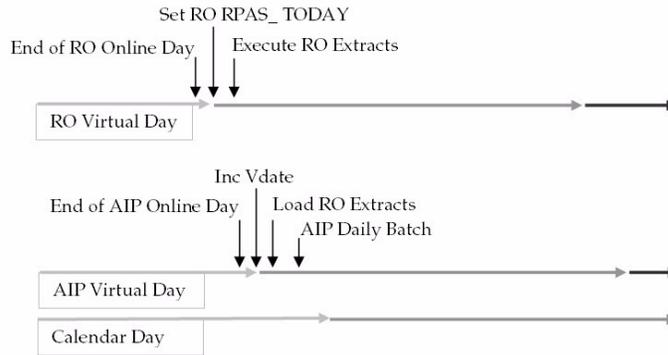
Example 2: Interval Batch Tasks

This order of execution is only valid if RO RPAS_TODAY is set to Vdate + 1 before the data is extracted because the data loaded from RO will not be used in replenishment planning until the next replenishment batch run that occurs on vdate + 1. You must see the loaded data effective tomorrow, instead of today.

Figure 4–5   Example 2: Interval Batch Tasks
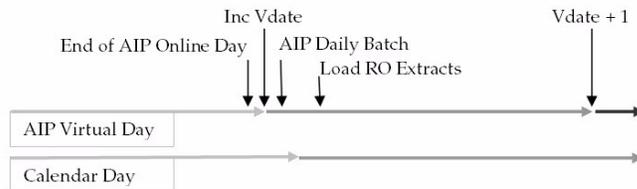
Export to RO

Figure 4–6 displays the export of data from AIP to RO.

Figure 4–6   Export to RO
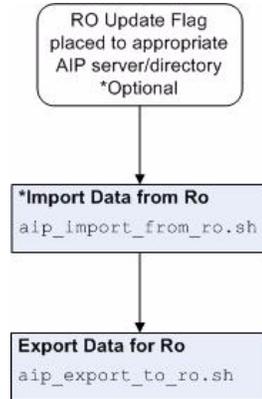
Table 4–8 provides information about the export steps that must be performed. These steps assume that the data exported from AIP is limited by the RO Update Flag and that this information is specified by the RO User. It also assumes that the next set of sku/locations to be exported/optimized is not known until after the last import of replenishment data. Therefore, the file is not imported with the last set of optimized replenishment data files.

Table 4–8   Export to RO Script or Action

Script or Action	Parameters	Platform Location
Copy/FTP the RO Update SKU/locations to: `${RO_INPUT}`. Perform uncompress and un-tar operations.		RPAS
`aip_import_from_ro.sh`		RPAS
`aip_export_to_ro.sh`		RPAS

Import from RO

Figure 4–7 displays the import of replenishment optimization data from RO.

Figure 4–7   Import from RO
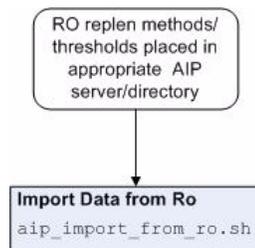
Table 4–9 provides information about the export steps that must be performed.

Table 4–9   Import from RO Script or Action

Script or Action	Parameters	Platform Location
Copy/FTP the RO files to `${RO_INPUT}`. Perform uncompress and un-tar operations.		RPAS
aip_import_from_ro.sh		RPAS

Purging

Purging data is important for maintaining database sizing as well as for improving the user experience. Purging data decreases the amount of data that a user has to sort through in order to get to the data that is desired.

Purging should be executed on a routine basis, either weekly or monthly. Figure 4–8 and Table 4–10 provide information about purging data.

Figure 4–8   Purging
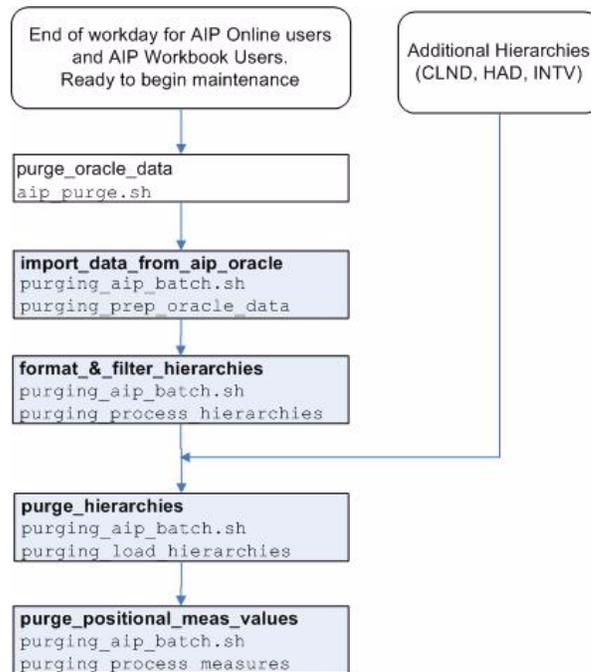
Table 4–10   Purging Script or Action

Script or Action	Parameters	Platform Location
aip_purge.sh		RPAS
Copy/FTP AIP Online purge_hierarchy.tar.Z file from: `${ONL_EXPORT_DIR}` to `${AIPDOMAIN}/interface/purge/import`		RPAS
purging_aip_batch.sh	purging_prep_oracle_data	RPAS
purging_aip_batch.sh	purging_process_ hierarchies	RPAS
Copy/FTP additional hierarchies to `${AIPDOMAIN}/input`		RPAS
purging_aip_batch.sh	purging_load_hierarchies	RPAS
purging_aip_batch.sh	purging_process_measures	RPAS

5

AIP Online Configurations

AIP Online consists of three different but equally important environments: a UNIX-based platform for executing RETL scripts and batch shell scripts; an Oracle database; and an application server for hosting the web-based Java graphical user interface (GUI). Each environment requires specific values, properties, and files to be configured in order to fully implement the AIP Online portion of the solution.

AIP Online UNIX Environment

The batch scripts that execute on the data stored in the Oracle database run on a UNIX-based platform. RETL must be installed, and it must be able to access the AIP Oracle database. In order to execute the batch scripts config.xml, the integration directories, and any files shared by the Online and RPAS must be set up and operational.

config.xml

The RETL interface process, run from a UNIX-based platform, is designed to be fully automated once configured. In addition to the environment variables described above, config.xml is required when invoking the RETL scripts. This file should be located in the root integration directory on the UNIX server in which the AIP Online application is installed.

This configuration file contains the database connection information required by RETL for performing import and export operations. Refer to the RETL documentation for detailed descriptions of element definitions. There are two operator sections that must be completed, one for oraread and one for orawrite. The oraread section defines the properties required for all export operations on the database, and the orawrite section defines these for all import operations. Though both contain similar attributes, it is imperative that each section is defined as needed for the specific Oracle database installation. This information is also dependent on the requirement that all databases can be connected to through a properly defined tnsnames file and reachable by SQLPlus.

Example 5–1   Example config.xml file

```
<CONFIG>
  <DEFAULTS operator="oraread">
    <PROPERTY name="arraysize"     value="5000" />
    <PROPERTY name="dbname"        value="DEV029i"/>
    <PROPERTY name="dbuseralias" value="aip-rib-alias"/>
<PROPERTY name="jdbcdriverstring" value="oracle.jdbc.driver.OracleDriver" />
    <PROPERTY name="jdbcconnectionstring" value="jdbc:oracle:oci:@ " />
  </DEFAULTS>
```

```
        <DEFAULTS operator="orawrite">
          <PROPERTY name="dbname"        value="DEV029i"/>
          <PROPERTY name="dbuseralias"     value="aip-rib-alias"/>
          <PROPERTY name="method"        value="conventional"/>
          <PROPERTY name="jdbcdriver"    value="oci"/>
        </DEFAULTS>
    </CONFIG>
```

Integration Directories

The following directories must be created by the system administrator. They are required and will cause errors if absent:

- `$INTEGRATION_HOME/inbound`

- `$INTEGRATION_HOME/archive`

Shared Files

When the AIP RPAS module is not installed on the same server as the AIP ONLINE module, the shared credential and verification files must be present in both locations.

Table 5–1 lists the files and the appropriate location on the UNIX server. Copy the files from the AIP RPAS server location to the AIP ONLINE server. Where the destination directory does not exist, one should be made. All server locations are written in reference to the aip_env_online.sh environment variables.

Table 5–1   Shared Files

File Name	Location
prep_files.sh	$INTEGRATION_HOME/scripts/
bsa_prep_files.config	$INTEGRATION_HOME/config
bsa_archive.sh	$INTEGRATION_HOME/bsa
bsa_check_for_required_files.sh	$INTEGRATION_HOME/bsa
bsa_common.sh	$INTEGRATION_HOME/bsa
bsa_env.sh	$INTEGRATION_HOME/bsa
bsa_prep_files.sh	$INTEGRATION_HOME/bsa
bsa_logger.sh	$INTEGRATION_HOME/bsa
bsa_para.sh	$INTEGRATION_HOME/bsa
bsa_sort.sh	$INTEGRATION_HOME/bsa
bsa_sql.sh	$INTEGRATION_HOME/bsa
bsa_verify.sh	$INTEGRATION_HOME/bsa

Importing Configuration Files

The files imported into AIP Online are bundled (in a *.tar file) together into logical groupings based on dependencies and availability within the batch window. Each RETL import file has one, and only one, corresponding script that executes the loading of the file into the database. The execution of all RETL import scripts is controlled by a set of configuration files that list the load scripts to be run and the order in which they will run. Each configuration file corresponds to one *.tar file.

- The configuration files can be modified to prevent the execution of load scripts for files that will never be present (for example, they are optional files for

functionality that will not be used by the business). For example, Sister Stores cannot be available in the merchandising system to provide to AIP or purged order numbers cannot be available for PO number recycling. The line containing the path to the "_in.sh" load script should be deleted or commented out.

- The configuration files are a command line argument passed to the parent script, `process_aiponline_data.sh`. Either a modified configuration file or a specially constructed configuration file can be passed to the parent script to aid the initial, first day import, restart/recovery, or special ad hoc processing.

- In addition to the configuration file, the location of import scripts as defined in AIP Online environment variable ONL_IMPORT_DIR is also passed as an argument to the `process_aiponline_data.sh` script.

- The parent script will execute all load files listed in the configuration file that are passed to it. A warning message will be logged when the load script is executed but the corresponding data file is not present.

The import configuration files are listed in Table 5–2, along with any potentially optional load scripts. Optional load scripts are those that are not critical to replenishment processing. They are eithre related to functionality outside of replenishment or provide special information that can be used as an alternative to the standard processing. Settings in both AIP RPAS import/export configuration files and AIP Online import configuration files should reflect the file requirements consistently.

Table 5–2   Configuration Files

Configuration File	Optional Load Scripts
import_hierarchy.config	
import_dm.config	dm_banded_comm_in.sh
	dm_is_prepriced_in.sh
	dm_dir_store_frmt_pksz_in.sh
	dm_dir_store_pksz_in.sh
	dm_sis_store_in.sh
	dm_sis_wh_in.sh
	dm_store_frmt_pksz_in.sh
	dm_store_pksz_in.sh
	dm_value_added_comm_in.sh
	dm_wh_prom_dates_in.sh
import_dm_alerts.config	
import_sale_date.config	
import_om.config	om_po_recycling_in.sh
import_sku_attribute.config	commodity_weight_volume_in.sh
	commoditiy_cost_in.sh

Export Configuration Files

The files exported from AIP Online are bundled (.tar) together into logical groupings based on dependency. Each RETL export file has one, and only one, corresponding script that executes the extraction of the file data from the database. The execution of all RETL extract scripts is controlled by a set of configuration files that list the export scripts to be run and the order in which they will run.

- The configuration files can be modified to prevent the execution of export scripts for files that will never be present (for example, they are optional files for functionality that will not be used by the current client). For example, if Sister Stores are never imported then the copy date never needs to be extracted for AIP on RPAS.

    > **Note:** Files that are optional for import cannot be optional for export. Some import files are optional because the data can be loaded. Alternatively, the data can be entered in the Data Management (DM) application. Regardless of how the data gets into the Oracle database, this data is required by AIP RPAS to run the replenishment batch.

- The configuration files are a command line argument passed to the parent script, process_aiponline_data.sh. A modified configuration file or a specially constructed configuration file can be passed to the parent script to aid restart/recovery or special ad hoc processing.

- In addition to the configuration file, the location of export scripts as defined in AIP Online environment variable ONL_EXPORT_DIR is also passed as an argument to the process_aiponline_data.sh script.

The export configuration files are:

- export_hierarchy.config

- export_dm.config

- export_scale.config

- export_hierarchy_purge.config

Oracle Database

The configurations performed in the Oracle database affect how the business uses AIP. Each setting will be used when performing some action of supply chain setup, either; automatically or manually, or order execution and maintenance.

SYSTEM_PARAMETERS

Table 5–3 contains the configuration parameters contained in the SYSTEM_PARAMETERS database table, the default value assigned to the parameter, and a description about what the parameters controls. The default parameter values in the table must be set according to your individual business needs.

> **Note:** In addition to the parameters listed in Table 5–3 there are a number of parameters that can be tweaked for performance reasons. These parameters begin with the BFL prefix and serve to limit the number of records retrieved at one time when executing a Bulk Fetch. The parameters are specific to a procedure or function.

Table 5–3   Configuration Parameters Contained in the SYSTEM_PARAMETERS Database Table

Configuration Parameter	Default Value	Description
AIP_VERSION	13.2.2	The currently installed version of AIP Online.
AUTO_ASSIGN_CASE_WT	N	Indicates whether case weights should be automatically assigned for new SKU/pack size combinations. This flag and the assignment process are deprecated.
AUTO_ASSIGN_OF_SKUS_TO_PROFILES	Y	Indicates whether to automatically assign the SKU of new SKU/supplier combos to profiles.
AUTO_ASSIGN_ORDER_CYCLES	Y	Indicates whether to calculate the store lead time prior to the store opening. If no calculation is performed, the profile order cycle and any applicable exceptions will be used.
AUTO_ASSIGN_ORDER_MULTIPLES	Y	Indicates whether order multiples should be automatically assigned for new SKU/pack size combinations.
AUTO_ASSIGN_PALLET_MULT	N	Indicates whether pallet multiples should be automatically assigned for new SKU/pack size combinations.
AUTO_ASSIGN_STACKING_FLAG	N	Indicates whether stacking flag should be automatically assigned for new SKU/pack size combinations. This flag and the assignment process are deprecated.
AUTO_ASSIGN_STORE_FORMAT_PACK_SIZE	Y	Indicates whether to automatically assign a store format pack size for warehouse and supplier sources.
AUTO_CREATION_OF_DELIVERY_GROUP	Y	Indicates whether to automatically create delivery groups for new supplier.
AUTO_CREATION_OF_ORDER_GROUP	Y	Indicates whether to automatically create order groups for new supplier.
AUTO_CREATION_OF_PROFILE	Y	Indicates whether to automatically create profiles for new suppliers.
AUTO_RANGE_BY_SHIP_TO_ONLY	N	Indicates whether to automatically range new SKU packs only to warehouses that match the supplier Ship To value. Otherwise ranges to all valid SKU pack/warehouse combinations.
AUTO_RANGE_DEMAND_GROUP	Y	Indicates whether to automatically range demand group for new SKU.
BATCH_LOCK	N	The Batch Lock system parameter indicates that user operations are limited in the GUI because batch is running. Possible values are Y (indicating batch in progress, actions will be limited) and N (Batch not in progress, no GUI limitations). See also: BATCH_LOCK_ RELEASE_WAVE.
BATCH_LOCK _RELEASE_WAVE	-1	This parameter holds the release wave that is locked for batch operations (when BATCH_ LOCK=Y). A value of -1 indicates an overnight batch run. Valid values are integer values from -0 to 23.

Table 5–3   (Cont.) Configuration Parameters Contained in the SYSTEM_PARAMETERS Database Table

Configuration Parameter	Default Value	Description
CONTAINER_SCALING_GLOBAL_FLAG	Y	Indicates whether or not Container Scaling is enabled at a global level. Valid values are Y and N.
CONTINUE_ORDER_SENDER_BEAN_FOR_PO	Y	Switch to start/stop polling for purchase orders by order sender bean. Possible values are Y (start) and N (stop).
CONTINUE_ORDER_SENDER_BEAN_FOR_TSF	Y	Switch to start/stop polling for transfer orders by order sender bean. Possible values are Y (start) and N (stop).
COPY_SISTER_STORE	Y	Indicates whether to copy sister store to associated new store.
COPY_SISTER_WAREHOUSE	Y	Indicates whether to copy sister warehouse to associated new warehouse.
DEFAULT_CASE_WT	1	The default case weight used by the case weight automatic assignment process. This value must be between .1 and 9999.99, inclusive.
DEFAULT_DMG_SIZE	1	The demand group size inserted for all automatically created demand groups. Valid values are 1 (small), 2 (medium), 3 (large), 4 (x-large).
DEFAULT_DMG_TYPE	0	The demand group type inserted for all automatically created demand groups. Valid values are 0 (cases) and 1 (merchandising unit).
DEFAULT_PALLET_SETTING_USE_PALLET_HEIGHT	N	Indicates whether to use pallet height in pallet settings for system generated delivery groups.
DEFAULT_PALLET_SETTING_USE_PALLET_WEIGHT	N	Indicates whether to use pallet weight in pallet settings for system generated delivery groups.
DEFAULT_STACKING_FLAG	0	The default stacking flag used by the order multiple automatic assignment process. Valid values are: 0 = Yes, 1 = Same, 2 = No. Note that Same implies that only item A can be stacked on top of item A.
DEFAULT_VEHICLE_FOOTPRINT	22	Indicates the default vehicle footprint for system generated delivery groups.
DEFAULT_VEHICLE_HEIGHT	1	Indicates the default vehicle height for system generated delivery groups.
DEFAULT_VEHICLE_MINIMUM_DROP	0	Indicates the default vehicle minimum drop for system generated delivery groups.
DEFAULT_VEHICLE_WEIGHT_LIMIT	99999	Indicates the default vehicle weight limit for system generated delivery groups.
DIFFERENT_ORDER_MULTIPLE_FLAG	Y	Indicates if there is more than one order multiple for the scaling group assignments. This parameter is used in PO scaling.
DLG_OG_VALIDATION_IND	Y	This property indicates whether the validation that checks if there is a delivery group and/or order group assigned for the given demand group, destination, and effective date should execute.

Table 5–3   (Cont.) Configuration Parameters Contained in the SYSTEM_PARAMETERS Database Table

Configuration Parameter	Default Value	Description
DMG_ASSIGNMENT_METHOD	1	The value 1 indicates that new pack sizes associated with an existing SKU will be assigned to the existing SKU's demand group. The value 2 indicates that each new SKU/pack size will be assigned to a unique demand group.
EXTENDED_PLANNING_HORIZON	7	The number of days beyond the planning horizon for which AIP Online will extract data. This ensures proper order quantities for delivery on the last day of the planning horizon and must match the corresponding AIP RPAS implementation parameter.
GATHER_SCHEMA_STATS	Y	Switch to turn ON/OFF schema analyze option. A value of Y will turn the option ON, and N will turn the option OFF.
GATHER_SCHEMA_STATS_ESTIMATE_PERCENT	100	The estimate percent to be used for gathering schema statistics.
GLOBAL_SMOOTHING_HORIZON	-1	The Global smoothing horizon is a default smoothing horizon value that is used when smoothing horizon at SG level is not specified. Valid values are -1, 0, and a positive integer. A value of -1 indicates the sku planning horizon will be used.
INVENTORY_TRACKING_LEVEL	EACHES	The level at which inventory is tracked. Valid values are PACKS and EACHES. If the value is EACHES, then the DMG_ASSIGNMENT_ METHOD parameter will be overridden, and all pack sizes of a SKU will be assigned to the same demand group.
MAX_WALKING_LEAD_TIME	22	Indicates the maximum lead time to use in calculating a walking lead time.
MIN_PLANNING_HORIZON	35	Minimum number of planning days for any SKU. This value is used in SKU planning horizon when there exists no SKU level planning horizon exception or class level planning horizon default.
MULTIPLE_DELIVERY_DATE_FLAG	Y	Indicates if there are multiple delivery dates for a warehouse schedule. This parameter is used in PO scaling.
OFF_SUPPLY_OFFSET	3	The corporate off-supply offset value is used to calculate off-supply dates based on off-sale dates imported from the merchandising system. Off-supply dates will be set to: [off-sale date] - OFF_SUPPLY_OFFSET.
ON_OFF_SUPPLY_OVERWRITE_IND	Y	Indicates whether or not to update the existing on/off supply dates when importing sale dates. A value of Y will update both on/off supply and on/off sale dates. A value of N will update only the on/off sale dates.
ON_SUPPLY_OFFSET	3	The corporate on-supply offset value is used to calculate on-supply dates based on on-sale dates imported from the merchandising system. On-supply dates will be set to: [on-sale date] - ON_SUPPLY_OFFSET.

Table 5–3   (Cont.) Configuration Parameters Contained in the SYSTEM_PARAMETERS Database Table

Configuration Parameter	Default Value	Description
ONL_SCHEMA_OWNER	USER	The username of the AIP Online schema owner.
ORDER_DELETE_RATE	10000	The maximum number of order lines deleted at a time during the batch order purge process. This parameter controls the performance of order purge process.
ORDER_UPDATE_RATE	100000	The maximum number of order lines updated at a time during the batch order release process. This parameter controls the performance of order release process.
PARTIAL_PALLET_ROUNDING_FLAG	N	Indicates if partial pallets should be rounded during scaling and smoothing. Valid values are Y and N.
PLSQL_LOG_LEVEL	INFORMATION	Indicates PLSQL logging level. Valid values are DEBUG, INFORMATION, ERROR and NONE. While DEBUG level is the most informative, ERROR level is the least informative logging. Logging level NONE results in no logging at all.
PLSQL_LOG_PURGE_PERIOD	7	This parameter is used for purging PLSQL logs from table. Records that have logging VDATE <= (current VDATE - PLSQL_LOG_PURGE_PERIOD) are purged.
PLSQL_LOG_TARGETS	FILES_AND_TABLES	Indicates where the PLSQL logs are written. Valid values are FILES_ONLY (for BSA log files), TABLES_ONLY (for logging table) and FILES_AND_TABLES (for both).
PO_INTERFACE_METHOD	M	Determines whether purchase orders are interfaced to external systems through XML messages (M) or text files (F).
PULL_ACROSS_STOCKLESS_DAYS	N	Indicates whether orders can be pulled across stockless days when performing Supplier Scaling and Container Scaling. Valid values are Y for yes and N for no.
REBUILD_INDEXES_POST_RELEASE	Y	A value of Y (recommended) will rebuild unusable indexes after all orders are released. A value of N will rebuild the indexes during LOAD. This flag and the rebuild process are deprecated.
RESET_SEQUENCE_FOR_SCALING	Y	Indicates if IDs used in order scaling start from same value on every load. If N, the order id starts from sequence NEXTVAL
RESTART_SCALING_FROM_SAVEPOINT	Y	Indicates if system recovery should be used for scaling. If Y, then the scaling starts from the point that it failed earlier, else this starts from beginning.
RESTART_SMOOTHING_FROM_SAVEPOINT	Y	Indicates if re-smoothing should skip the already smoothed (scaling_group, warehouse, delivery date) combinations. Valid values are Y and N. If Y, then already smoothed combinations are skipped, else they are considered again for smoothing.

Table 5–3   (Cont.) Configuration Parameters Contained in the SYSTEM_PARAMETERS Database Table

Configuration Parameter	Default Value	Description
SCALING_HORIZON_MAX	35	The Scaling Horizon Max is a maximum cap to individual Scaling Group horizon values. All individual Scaling Group horizon values will be capped by this value.
SCHEDULE_EXCEPTION_OFFSET	9	Indicates the number of days after store open that schedule exceptions copied in the sister store process will begin.
SCHEMA_STATS_DEGREE	8	Controls parallelization of function gen_schema_stats.
SEQUENCE_CACHE_BULK_INSERT_VALUE	20	This is the recommended cache value for the sequences while doing bulk insert.
SET_WH_ORD_MULT	1000	Bulk fetch limit for the procedure/function.
SISTER_STORE_OFFSET_WEEKS	12	Indicates the maximum number of weeks before store open that a sister store copy will take place.
SISTER_WAREHOUSE_OFFSET_WEEKS	12	Indicates the maximum number of weeks before warehouse open that a sister warehouse copy will take place.
SMOOTHING_GLOBAL_FLAG	Y	Indicates whether or not Smoothing is enabled at a global level. Valid values are Y and N.
SUPPLIER_MINIMUM_SCALING_GLOBAL_FLAG	Y	Indicates whether or not Supplier Minimum Scaling is enabled at a global level. Valid values are Y for yes and N for no.
SYSTEM_HIGH_DATE	99991231	The default high date used by the system. Date format is yyyymmdd.
TABLE_STATS_DEGREE	8	Controls parallelization of function gen_table_stats.
TSF_INTERFACE_METHOD	M	Determines whether transfers are interfaced to external systems through XML messages (M) or text files (F).
USE_DBMS_STATS_AUTO_SAMPLE_SIZE	Y	A value of Y (recommended) will use AUTO_SAMPLE_SIZE as estimate_percent in gen stat functions of aip_util package. A value of N will use NULL in gen_table_stats and GATHER_SCHEMA_STATS_ESTIMATE_PERCENT in gen_schema_stats.
VALID_SOURCE_VALIDATION_IND	Y	Indicates whether to execute the validation to determine whether a source is valid. A valid source is one that is currently acting as a destination with a split percentage against it or where all the commodity pack sizes for the demand group are pending de-ranged.
VDATE	19991231	Used to maintain the same date throughout the batch run. Functions get_vdate, set_vdate, and inc_vdate of the aip_util package are used to retrieve, set, and increment. Date format is YYYYMMDD.
WALKING_LEAD_TIME_OFFSET	45	Indicates the number of days before a store open date to begin calculating a walking lead time for that store.

RESTART_CONTROL

The Oracle RESTART_CONTROL table defines the number of parallel subprocesses that a high data volume process uses in shell script. For example:

- Importing STORE SOURCE data from RPAS into Online

- Exporting STORE SOURCE data from Online to RPAS

- Importing INTO-STORE PURCHASE ORDERS from RPAS to Online

- Importing INTO-STORE Transfers from RPAS to Online

- Importing ON-SALE-OFF-SALE data from RPAS to Online

- Executing ORDER-SMOOTHING process in AIP Online

- Executing ORDER-SCALING process in AIP Online

The column NUM_THREADS controls the degree of parallelism while executing the processes defined in column PROGRAM_NAME of this table.

ORDER_NUMBER

The Oracle ORDER_NUMBER table defines the valid range of order numbers for purchase orders and transfers. The range of values should not overlap the range of values allocated to any other system capable of generating orders. Update the ORDER_NUMBER table to reflect the range of purchase order and transfer numbers that are appropriate for AIP.

ORDER_PURGE_PERIOD

The Oracle ORDER_PURGE_PERIOD table defines the number of days an order remains in the system after it has been set to a Closed status. Review the default purge periods inserted in the table at installation time, and update the values for purchase order purging and transfer purging when needed.

ORDER_DEFINITION

In AIP Online, orders are held at order detail level (such as order line time level). When an order number is generated, it is generated at the order header level. The Oracle ORDER_DEFINITION table holds information that specifies how order line items are grouped into to order headers.

The following options are available for defining the level of grouping:

- Source - Indicates if order sources are used in order header roundup.

- SKU - Indicates if SKUs are used in order header roundup.

- Pack Size - Indicates if pack sizes are used in order header roundup.

- Destination - Indicates if the order destinations are used in order header roundup.

- Delivery Date - Indicates if delivery dates are used in order header roundup.

In the example shown in Table 5–4, SKU (commodity) and pack size are not used in the order definition. This means that, for each order type, an order number will be assigned to each unique combination of source, destination, and delivery date. This will result in one too many SKU pack sizes being grouped under a single order number for an order type.

Table 5–4   Example of the Oracle ORDER_DEFINITION table

Destination	Order Type	Use Source	Use Commodity	Use Pack_ Size	Usedest	Use Delivery_ Date
Warehouse	Purchase Order	Y	N	N	Y	Y
Store	Purchase Order	Y	N	N	Y	Y
Warehouse	Transfer	Y	N	N	Y	Y
Store	Transfer	Y	N	N	Y	Y

Review the ORDER_DEFINITION table and change the settings if needed.

> **Note:**   The only supported configurations for this release of AIP are the defaults provided in the table above and Y for all columns. These two configurations can be applied per destination/order type. They do not need to be applied uniformly across destination or order type.

ORDER CYCLES

The default order cycles created at implementation time are used by the batch processes that automatically create Profiles and Order Groups. These order cycles can be modified to match your business needs, however, they must remain in sync with the same special default order cycles created in the RPAS platform.

Store Order Cycles

Store order cycles are assigned to a profile when it is automatically generated by the batch processes. The following Store Order Cycles exist for these procedures:

- Warehouse profiles (PRFWS)

- Direct Profiles (PRFVS).

The following store order cycles are created during installation.

Order Cycle	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
PRFVS		15					
PRFWS	1	1	1	1	1	1	1

Store Order cycles are maintained in two tables, STORE_ORDER_CYCLE and STORE_ ORDER_CYCLE_LEAD_TIME.

Table 5–5   STORE_ORDER_CYCLE

STORE_ORDER _ CYCLE_ID	STORE_ORDER_ CYCLE_CODE	STORE_ORDER_ CYCLE_NAME	STORE_ORDER_ CYCLE_LENGTH
2	PRFVS	New Sup To Store Default OC	7
3	PRFWS	New Sup Warehouse to Store OC	7

Table 5–6   STORE_ORDER_CYCLE_LEAD_TIME

STORE_ORDER _CYCLE_ID	STORE_ORDER _CYCLE_SEQ	RELEASE _LEAD_TIME	PLACEMENT _LEAD_TIME
2	1	-1	-1
2	2		
2	3	-1	-1
2	4	-1	-1
2	5	-1	-1
2	6	-1	-1
2	7	-1	-1
3	1	1	1
3	2	1	1
3	3	1	1
3	4	1	1
3	5	1	1
3	6	1	1
3	7	1	1

- The STORE_ORDER_CYCLE_LENGTH is 7; therefore, there is one row in the STORE_ORDER_CYCLE_LEAD_TIME table for each of the 7 days in the order cycle. Changing the length of the Store order cycle requires additional rows to be added to the STORE_ORDER_CYCLE_LEAD_TIME table such that the STORE_ ORDER_CYCLE_SEQ runs from 1 to n where n, is the order cycle length. The *only* supported lengths are 7, 14, or 28. Do *not* choose a length other than those values.

- A RELEASE_LEAD_TIME or PLACEMENT_LEAD_TIME value of -1 indicates *blank* on the window or no lead time.

- The PLACEMENT_LEAD_TIME value must be equal to or greater than the RELEASE_LEAD_TIME. Therefore, you cannot change one and not the other. The PLACEMENT_LEAD_TIME must not contain a value other than -1 when the RELEASE_LEAD_TIME is -1.

Warehouse Order Cycles

Warehouse Order Cycles are assigned to an Order Group when the Warehouse Order Cycle is automatically generated by the batch procedures. The following Warehouse Order Cycles exist for these procedures:

- Warehouse sourced Order Groups (OGWW)

- Supplier sourced Order Groups (OGVW)

The following store order cycles are created during installation.

Order Cycle	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
OGVW		15					
OGWW	1	1	1	1	1	1	1

Warehouse order cycles are maintained in two tables, ORDER_CYCLE and ORDER_CYCLE_LEAD_TIME.

ORDER_CYCLE Table

Table 5–7   ORDER_CYCLE

ORDER _CYCLE_ID	ORDER_CYCLE_CODE	ORDER_CYCLE_NAME	ORDER_CYCLE_LENGTH	ORDER_CYCLE_LENGTH
1	OGVW	New Supplier Default Order Cycle	7	-1
2	OGWW	New Supplier Whs to Whs Order Cycle	7	-1

ORDER_CYCLE_LEAD_TIME Table

Table 5–8   ORDER_CYCLE_LEAD_TIME

ORDER_CYCLE_ID	ORDER_CYCLE_SEQ	ORDER_LEAD_TIME
1	1	-1
1	2	15
1	3	-1
1	4	-1
1	5	-1
1	6	-1
1	7	-1
2	1	1
2	2	1
2	3	1
2	4	1
2	5	1
2	6	1
2	7	1

- The warehouse order cycle length (ORDER_CYCLE_LENGTH) is 7; therefore, there is one row in the ORDER_CYCLE_LEAD_TIME table for each of the 7 days in the order cycle. Changing the length of the warehouse order cycle requires additional rows to be added to the ORDER_CYCLE_LEAD_TIME table such that the ORDER_CYCLE_SEQ runs from 1 to n, where n is the order cycle length. The only supported lengths are 7, 14, or 28. Do not choose a length other than those values.

- An ORDER_LEAD_TIME value of -1 indicates *blank* on the window or no lead time.

- The COLLECTION_LEAD_TIME must be equal to or less than the smallest ORDER_LEAD time for the order cycle. For the existing, unmodified, order cycle

OGVW, the COLLECTION_LEAD_TIME can be at most 15. For the existing, unmodified, order cycle OGWW, the COLLECTION_LEAD_TIME can be at most 1.

DATA_PURGE_PARAMETERS

In order to purge invalid or ineffective hierarchy data from AIP Online tables, purge parameters are used to configure the purge ages. These parameters are defined in a table called PURGE_PARAMETER and are used by purging script aip_purge.sh to identify invalid/ineffecttive data for purging. The default parameter values in Table 5–9 must be set according to individual business needs.

Table 5–9   DATA_PURGE_PARAMETERS

Name	Value	Description
AUDIT_PURGE_FREQUENCY	W	The frequency at which audit tables are purged. Valid values are D (Daily), W (Weekly), M (Monthly), H (every 6 months), Y (Yearly).
CHAMBER_PURGE_AGE	60	The number of days a chamber remains in the system before being purged, beginning when the chamber was set to a closed status.
CLOSED_ALERT_PURGE_AGE	14	The number of days a closed alert remains in the system before being purged, beginning when the alert was closed.
COMMODITY_PACK_SIZE_PURGE_AGE	30	The number of days a SKU-pack size remains in the system before being purged, beginning when the SKU-pack size does not appear in the daily import from RPAS.
DELIVERY_GROUP_PURGE_AGE	60	The number of days a delivery group remains in the system before being purged, beginning when the delivery group does not have at least one demand group assigned to it.
ENT_AUDIT_PURGE_AGE	90	The number of days a END_AUDIT record remains in the system before being purged, beginning from when the record was created.
LAST_AUDIT_PURGE_DATE	<SYSDATE>	The date the audit tables were last purged. Used in conjunction with the AUDIT_PURGE_FREQUENCY to determine when audit tables are purged.
NON_ORDER_NON_RELEASE_PURGE_AGE	180	The number of days a non-order or non-release date record remains in the system after it has passed before being purged.
ON_SUPPLY_OFF_SUPPLY_PURGE_AGE	45	The number of days an on supply/off supply record remains in the system before being purged, beginning from the off sale date.
ORDER_GROUP_PURGE_AGE	60	The number of days an order group remains in the system before being purged, beginning from when the order group does not have at least one demand group assigned to it.
PLANNING_GROUP_PURGE_AGE	90	The number of days a planning group remains in the system before being purged, beginning when the planning group is not assigned to at least one network group.

Table 5–9   (Cont.) DATA_PURGE_PARAMETERS

Name	Value	Description
PROFILE_PURGE_AGE	60	The number of days a profile remains in the system before being purged, beginning when the profile does not have at least one SKU assigned to it.
SCALING_GROUP_PURGE_AGE	60	The number of days a scaling group remains in the system before being purged, beginning when the order group does not have at least one SKU assigned to it.
STORE_ORDER_CYCLE_PURGE_AGE	366	The number of days a store order cycle remains in the system before being purged, beginning when the order cycle is not assigned to at least one profile.
STORE_PURGE_AGE	90	The number of days a store remains in the system before being purged, beginning when the store does not appear in the daily import from RPAS.
SUPPLIER_COMMODITY_PACK_ SIZE_PURGE_AGE	30	The number of days an on supplier/sku link remains in the system before being purged, beginning when the link does not appear in the daily import from RPAS. This value should be less than or equal to COMMODITY_PACK_SIZE_PURGE_AGE and SUPPLIER_PURGE_AGE values.
SUPPLIER_PURGE_AGE	90	The number of days a supplier remains in the system before being purged, beginning when the supplier does not appear in the daily import from RPAS.
WAREHOUSE_ORDER_PURGE_AGE	366	The number of days a warehouse order cycle remains in the system before being purged, beginning when the order cycle is not assigned to at least one order group.
WAREHOUSE_PURGE_AGE	90	The number of days a warehouse remains in the system before being purged, beginning when the warehouse does not appear in the daily import from RPAS.

WH_TYPE_INITIAL_PACK_TYPE

The Oracle WH_TYPE_INITIAL_PACK_TYPE table contains the warehouse type and pack type associations that are used for defaulting warehouse orderable units and order multiples. When the AIP Automated Data Maintenance batch processes run the pack type value defined for the respective process, it defines which pack size should be used for assignment first. If the pack size associated with the pack type is not valid for a given warehouse of the assigned warehouse type, additional logic in the batch will determine the next valid pack size to use.

The constraints on the table must be modified if additional warehouse types are added to the system by the STOCKING_POINT table. The warehouse type describes the destination warehouse type.

The process type identifies the process to which the warehouse type/pack type setting applies: either warehouse orderable units or order multiples.

SUPPLIER

Prior to importing any supplier data, the column constraint on the SHIP_TO column should be modified to match the SHIP_TO values that will be imported from the merchandising system. If additional values are being added, the Ship-to source and destination mappings must also be added to the SHIP_TO_WH_TYPE_SOURCE and SHIP_TO_WH_TYPE_DEST tables.

STOCKING_POINT

Prior to importing any warehouse data, the column constraint on the WH_TYPE column should be modified to match the WH_TYPE values that will be imported from the merchandising system.

SHIP_TO_WH_TYPE_SOURCE

This Oracle table contains the mappings between Supplier SHIP_TO values and the appropriate sources. These values are used when automatically generating Delivery Groups and Order Groups. When the WH_TYPE column is null, the supplier will be used as the source. A non-null WH_TYPE value indicates that the warehouse the supplier ships to is an intermediate warehouse that does not ship directly to the store. When the WH_TYPE is populated, the source of the Delivery Groups and Order Groups created will be Warehouses that match the WH_TYPE.

SHIP_TO_WH_TYPE_DEST

This Oracle table contains the mappings between Supplier sources (SHIP_TO_WH_TYPE_SOURCE) and the destinations. The destinations are used to determine the valid warehouse chambers to assign to the delivery groups and order groups. One SHIP_TO value can map to many sources and destination WH_TYPEs.

ALERT_DEFINITION

Every alert is assigned a priority based on the type of the alert. The priority assigned to each alert type can be set in the ALERT_DEFINITION table. The priority setting currently has no bearing on the rest of the system. It is simply a visual indicator of importance and a search mechanism for the user.

> **Note:** Updating the alert type priority in the ALERT_DEFINITION table changes the priority of any previously existing alerts corresponding to the alert type being modified

ALERT_DEFINITION_DESC

The Oracle ALERT_DEFINITION_DESC table contains the text of each alert and the corresponding SHORT_DESC or alert type description. The SHORT_DESC value is displayed to you as a search criteria. You can modify the text of the SHORT_DESC; however, the window is optimized to display the values provided in the installation. It is not recommended that you modify the LONG_DESC, as the correct placement of the data displayed to you depends on the structure of the LONG_DESC text.

The LONG_DESC and SHORT_DESC are translated for several different LANGUAGE and COUNTRY codes.

ALERT_STATUS_DESC

Each alert that is imported or generated by AIP Automated Data Maintenance batch will be assigned a status. The status is displayed to you in the Data Management (DM) window. You can then modify the status of the alert by selecting a status option from a drop-down list. The status options displayed in the list and their descriptions are contained in the ALERT_STATUS_DESC table.

Adding a Status

The ALERT_STATUS_CODE indicates the chronological order of the statuses displayed on the window as well as the code that is saved indicating the alert's current status.

When adding a status:

- The smallest value will be automatically assigned to every new alert.

- The largest value will be considered the final status indicating no more work needs to be completed related to the alert.

AIP Application Server

The following properties files are used to configure the application during implementation:

All files are located in:
```
<ear file deploy location>/AIPOnlineWAR.war/config
```

Review the values in the files for completeness and accuracy. There are additional properties outlined that must be manipulated when using the RIB with AIP.

main.properties

File Location:

```
<ear file deploy location>/AIPOnlineWAR.war/WEB-INF/config
```

The following table provides a description of the properties contained in the main.properties file. This file is used by the Java-enabled applications: DM, OM, and RIB publication through the OrderSenderBean.

Property	Description
base	This must match the context root of the ear or war file. This is "/" for a production system, or "/test1" for the 1st of several test systems on a single physical computer.
setfileattr.rcapps.properties	This defines a file to contain color attributes. The default setting is rcapps.properties.

Publishing Purchase Orders and Transfer Data to RMS

You can configure AIP Online to publish Purchase Order and Transfer Data to the Oracle Retail Merchandising System (RMS) through the Oracle Retail Integration Bus (RIB). Perform the following procedure to enable RIB publication.

1. Change the Off status of keys to On status where applicable in the main.properties file to activate the OrderSenderBean, that calls the RIB publication routines:

aip.prop.order.po.export=OFF

aip.prop.order.tsf.export=OFF

aip.prop.order.period.count=1

aip.prop.order.period.start.1=08:00:00

aip.prop.order.period.end.1=20:00:00

aip.prop.order.time.interval=00:01:00

aip.prop.order.po.message.family=XOrder

aip.prop.order.po.message.type.name=msg_type

aip.prop.order.po.queue.table.name=PO_MFQUEUE

aip.prop.order.po.table.id.name= orderNo

aip.prop.order.tsf.message.family=XTsf

aip.prop.order.tsf.message.type.name=msg_type

aip.prop.order.tsf.queue.table.name=TSF_MFQUEUE

aip.prop.order.tsf.table.id.name= tsfNo

aip.prop.order.max.messages.per.bundle=20

aip.prop.order.max.number.of.bundles=10

2. Save the main.properties file.

3. Have the application server administrator restart the server instance where the OrderSenderBean and AIP Online application are deployed.

main.properties Publication Properties

File Location:

```
<ear file deploy location>/AIPOnlineWAR.war/WEB-INF/config
```

The following table provides a description of the publication properties referenced in "Publishing Purchase Orders and Transfer Data to RMS".

Property	Description
aip.prop.order.po.export	This property must be set to ON to do RIB-based publications Purchase Orders. (PO_MFQUEUE).
aip.prop.order.tsf.export	This property must be set to ON to do RIB-based publications of Transfers (TSF_MFQUEUE).
aip.prop.order.period.count	The number of periods in the day during that the OrderSenderBean will invoke RIB publication. This value must be greater than zero if RIB-based publication is to be used. In addition, at least one of the above two properties must be set to ON.
aip.prop.order.period.start.x	The start time in HH:MM:SS format of period x where x is 1 … aip.prop.order.period.count.
aip.prop.order.period.end.x	The end time in HH:MM:SS format of period x where x is 1 … aip.prop.order.period.count.

Property	Description
aip.prop.order.time.interval	The amount of time in HH:MM:SS format between calls to OrderSenderBean.checkAndPublish() function.
aip.prop.order.po.message.family	The purchase order message family name. This value is required by the RIB to ensure proper validation of message payloads. This value should be set to *XOrder*.
aip.prop.order.po.message.type.name	This value can be used to indicate if the message is a header-create, header-update, detail-create, or detail-update message. Although message types are used to order the OrderSenderBean query, this parameter value is not currently used.
aip.prop.order.po.queue.table.name	The AIP Online table that OrderSenderBean queries to check for Purchase Order related messages awaiting publication. This value should be: *PO_MFQUEUE*.
aip.prop.order.po.table.id.name	This value is used to group functionally related message content. For example, all message content related to purchase order number 123 would be grouped. This value should be *orderNo*.
aip.prop.order.tsf.message.family	The transfer message family name. This value is required by the RIB to ensure proper validation of message payloads. This value should be set to *XTsf*.
aip.prop.order.tsf.message.type.name	This value can be used to indicate if the message is a header-create, header-update, detail-create, or detail-update message. Although message types are used to order the OrderSenderBean query, this parameter value is not currently used.
aip.prop.order.tsf.queue.table.name	The AIP Online table that OrderSenderBean queries to check for Transfer related messages awaiting publication. This value should be *TSF_MFQUEUE*.
aip.prop.order.tsf.table.id.name	This value is used to group functionally related message content. For example, all message content related to transfer number 456 would be grouped. This value should be *tsfNo*.
aip.prop.order.max.number.of.bundles	The maximum number of message bundles to publish per call to OrderSenderBean.checkAndPublish(). The default is 10, but this number should be recalculated by the client based upon on-site performance testing.
aip.prop.order.max.messages.per.bundle	The maximum number of messages per message bundle. For example, multiple Purchase Order header create message can be grouped in one message bundle to improve performance. The default value is 20, but this value should be recalculated by the client based upon on-site performance testing.

rcapps.properties

File Location:

```
<ear file deploy location>/AIPOnlineWAR.war/WEB-INF/config
```

These properties are applied to the main application login and navigation pages. These property settings do not apply to the pop-up applet windows.

The color properties can be set to any six- character hexadecimal value and are preceded with the # symbol.

Hexadecimal color property examples:

#0000FF = blue

#FF0000 = red

The files defined for various properties are located off of the following base directory:

```
<ear file deploy location>/AIPOnlineWAR.war
```

Property settings that contain path assignments are appended to the base directory provided above. Use the complete path (base directory plus property path) to locate specific files as needed.

Example:

```
apptop.page=/fragments/apptop.jsp
```

apptop.jsp can be found in the following path:

```
<ear file deploy location>/AIPOnlineWAR.war/fragments
```

The following table provides a description of the properties contained in the rcapps.properties file:

Property	Description
about.width	Width of *about* windows. Currently, *about* windows are not supported.
apps.width	Width of application windows.
appbanner.bg	Defines the main background color. This appears as the horizontal banner.
appmenu.bg	Menu banner background color. This appears as the vertical strip on the left side of the page. It is the background for any *Applications*, *User Console*, and *Administration* menu items.
text.fg	Main text color. This is the text color for the main welcome on the login pages.

security.properties

File Location:

```
<ear file deploy location>/AIPOnlineWAR.war/WEB-INF/config
```

This file defines security administration settings for the application.

strings.properties

This file provides the displayed text for the windows. Error text originating in the database is not provided in this file and is not accessible for customization. Customizing this file can have an effect on the visual presentation of the window or popup message. The new text should be of equal or similar character length as the modified text.

The file is located in the following server path:

```
<ear file deploy location>/AIPOnlineWAR.war/appclasses/res/com/retek/applet/strings.properties
```

Config.properties

This file contains configurable settings for Data Management and Order Management that determine how certain windows appear immediately when opened. It also contains settings that allow or prevent certain user activities on the windows.

This file is located in:

```
<ear file deploy
location>/AIPOnlineWAR.war/appclasses/res/com/retek/applet
```

The following table provides a description of properties found in the Config.properties file that are used to define Data Management (DM) settings:

Property	Description
datamanagement.suppress.pre.save.message	Indicates whether or not to suppress the pre-save message saying that all applicable rows will be updated. This setting currently only applies to the On Supply/Off Supply window when performing mass updates of SKUs and Stores. The valid values for this property are 0 to display the pre-save message and 1 for do not display the pre-save message.
datamanagement.unit.of.measure.default	Defines the unit of measure (UOM) option button that is initially selected when displaying Data Management (DM) windows containing UOM. Valid values are 0 for cases or 1 for eaches.
datamanagement.warehouse.type.available	This setting determines whether the warehouse type field is displayed in the Data Management (DM) application. This should be set to 0 when warehouse types are not defined for warehouses or set to 1 if warehouse types are assigned to warehouses.
delivery.demand.percent.entry.type	This property indicates whether Delivery Demand Percentages are user-entered for all locations, warehouses only, or none. The window will be accessible to users only if this value is not *none*. Valid values are 0 for *all*, 1 for *warehouses only*, and 2 for *none*.
export.launch	When you export the Alerts from the Data Management (DM) application to a savable file, this setting will determine whether the file is opened immediately or not. If set to launch immediately, you must have a default program for the particular file extension being saved. Two file formats are available: spreadsheet (.xls) or comma delimited (.csv). The default program associated with the file extension is specific per PC and is not an AIP-controlled setting. If no program is associated to the file extension, you can receive an error, and the file will not be opened. If an error occurs, you must manually open the file in the appropriate program. The valid values for this property are 0 for do not launch, and 1 for launch immediately.
export.type.default	When exporting the Alerts from the Data Management (DM) application to a savable file, you have the option of saving the data in spreadsheet or a comma-delimited file format. This property setting is applied to the initial option button selection that defines the format. This property defines the value selected by default. You have the option of choosing the other format by selecting the other option button . The valid values for this property are 0 for comma-separated file (CSV) or 1 for spreadsheet (XLS).
intraday.releasewave.earliest.wave	This property indicates the hour of the earliest possible Intraday release wave on any day. The default value is 7.
intraday.releasewave.entry.type	This property indicates whether Intraday release wave assignments and snapshot times are user entered for *all* sku/stores or *none*. The window will be accessible to users only if this value is *all*. Valid values are 0 for *all* and 1 for *none*.
intraday.releasewave.latest.wave	This property indicates the hour of the latest possible Intraday release wave on any day. The default value is 20.

Property	Description
intraday.revise.sales	This property indicates the method of revising the forecasted store sales after Intraday sales have been loaded. The revision occurs when re-planning a sku/store Intraday. A value of *actuals* will set the revised sales forecast to actual sales when actual sales have exceeded the forecast sales for the day. A value of *recalculate* will calculate a new value based on the actual sales and sales profile. Inventory Snapshot Time will be required when set to *recalculate*. Valid values are 0 for *actuals* and 1 for *recalculate*.
paginggrid.<window name>.page.size	Each window that uses paging has its own pagesize setting. This setting, when greater than 0, will override the default *pagesize* setting. The same considerations for the default should be applied to the individual window settings. A value of -1 indicates that the default should be used. The valid values for this property are -1 or any number greater than 0 and less than or equal to 9999999.
paginggrid.page.size	This is the default pagesize setting applied to all windows with paging. Pages contain a certain number of rows, and only the content for one page is displayed at a time. This property defines the number of rows that are displayed in a single page. When setting this value you should consider that the setting is system wide setting, not a user-specific setting. The resolution of each user's window will affect how many rows are visible without scrolling. Assign a large number to this property can result in the need for some users to scroll down the page to see all of the rows. Setting this property to an arbitrarily large number also negates the benefits of paging, that is used to improve window rendering time performance and display information in a more usable fashion. This property can be set to any value greater than 0 and less than or equal to 9999999.
scalinggroups.container.assignments.defaul	This property indicates the default selection for Container Assignments when creating new Scaling Groups. ■ 0 for Same as Scaling Group ■ 1 for Expand Scaling Group

Order Management Settings

The following table provides a description of properties found in the config.properties file that are used to define Order Management (OM) settings.

Property	Description
ordermanagement.order.type.default	This setting defines which order type option button is selected by default. The available options are All, Transfers, or Purchase Orders. This setting applies to all Order Management windows that allow you to search or select an order type. Valid values for this property are as follows: ■ 0 for All ■ 1 for Purchase Orders ■ 2 for Transfers **Note:** The ordermanagement.viewable.order.type setting takes precedence over this setting. If this setting conflicts with it, the ordermanagement.viewable.order.type will be used instead.

Property	Description
ordermanagement.viewable.order.type	This setting defines which order types users are able to view and possibly manipulate. Users cannot perform any operations on orders types that do not match this setting, nor can they view order types that do not match this setting. This setting applies to all Order Management windows. The valid values for this property are as follows: ■　0 for All ■　1 for Purchase Orders ■　2 for Transfers **Note:** Users can have privileges to the Order Create window but they will be unable to perform any operations if the ordermanagement.viewable.order.type is not set to All or Purchase Order.
ordermanagement.unit.of.measure.default	Defines the unit of measure (UOM) option button that is initially selected when displaying OM Online windows containing UOM. Valid values are 0 for cases or 1 for eaches.
ordermaintenance.order.display.format	This setting defines the display format that is selected by default in the Order Maintenance search criteria pop-up. The valid options for this property are 0 for the tree format and 1 for the grid format.
ordermaintenance.expand.all.default	When the search results in the Order Maintenance window are displayed in a tree format, this setting is used to determine whether the tree should be initially displayed in a collapsed or expanded state. When collapsed, only the header level order information appears. When expanded, all of the SKU-pack sizes and order quantities associated with the order display. Valid values for this property are 0 for collapsed or 1 for expanded.
ordermaintenance.update.quantity.default	In the Order Maintenance window, you have the option of viewing the quantity on the order as the total ordered quantity or as the outstanding order quantity. This setting is used to determine which option button will be initially selected on the window. The valid values for this property are 0 to view the total order quantity or 1 to view the outstanding order quantity.

Property	Description
ordermaintenance.supplier.tracking.default	When moving the outstanding purchase order quantity to a new delivery date and/or destination, you must specify whether the supplier was the cause of the change or their business. The value that is specified affects the supplier performance tracking. This property defines which drop-down list option should be selected by default. The valid values are as follows: ■ 0 - Always Ask ■ 1 - Supplier Initiated ■ 2 - Business Initiated The Always Ask option is recommended if the business will be viewing and using the supplier performance tracking information. This option forces you to consciously select the appropriate value. If the business will not be using the supplier performance tracking information, then either the Supplier Initiated or Business Initiated option should be selected so that a value is always selected by default. This prevents you from having to randomly pick one of the two options, as well as prevents the unnecessary pop-up that appears when the Always Ask option is selected in the drop-down list.
ordermaintenance.view.default	This setting defines which view should be displayed initially in the Order Maintenance Window: the Standard View or the Extended View. The extended view includes the Supplier Tracking value and the Release Date. The additional columns displayed in the extended view result in each column having a smaller display size. Valid values for this property are 0 for the standard view and 1 for the extended view.
ordermaintenance.allow.move.outstanding	This setting allows the business to prevent users from changing the destination and delivery date of a purchase order. The valid values for this property are 0 to allow changing delivery dates and destinations or 1 to prohibit changing delivery dates and destinations.
ordermaintenance.move.outstanding.criteria	This setting allows the business to define when it is acceptable to move outstanding order quantities to a new delivery date and/or destination. Outstanding quantity is defined as order quantity - (received quantity + in-transit quantity). The first option is anytime the outstanding quantity is less than or equal to the order quantity and greater than zero. This means that you can change the order delivery date and/or destination any time the order is released and not fully shipped from supplier. The second option is anytime the order is totally outstanding. This means that you can change the order delivery date and/or destination anytime the order has been released but not yet shipped from supplier. The valid values for this property are 0 for not fully shipped or 1 for zero shipped quantity.

Property	Description
ordermaintenance.move.allow.destination.change	This setting allows the business to restrict users from changing delivery destinations of their orders. This setting is used in the Order Maintenance Move Outstanding Order Quantity popup. When users are not allowed to change order destinations, they are left with the sole option of changing the delivery date. Valid values for this property are 0 to allow destination changes or 1 to prevent destination changes.
ordermaintenance.move.require.new.order.number	This setting determines whether or not a new order number is required when moving an order. If a new order number is not required, users are allowed to choose whether to retain the existing order number or generate a new one when moving outstanding quantities. Valid values for this property are 0 - Do not require a new order number or 1 - Require a new order number.
ordermaintenance.allow.cancel.outstanding	This setting allows the business to restrict users from fully canceling a Purchase Order. You can still modify the Purchase Order quantity but you cannot fully cancel the outstanding quantity. The valid values for this property are 0 to allow the outstanding order quantity to be canceled or 1 to prohibit the cancelling of all outstanding order quantity.
ordermaintenance.allow.release.orders	This setting allows the business to prevent users from manually releasing purchase orders in the Order Maintenance window. Orders that have not been released cannot be modified. Only purchase orders released on their lead time by the batch order release process would be available for modification. The valid values for this property are 0 to allow manual release of orders or 1 to prevent manual release of orders.
ordermaintenance.allow.edit.quantities	This setting allows the business to prevent users from modifying purchase order quantities. You still have the ability to cancel the outstanding order quantity unless the ordermaintenance.allow.cancel outstanding property is also set to disallow cancelling outstanding order quantities. Valid values for this property are 0 to allow modification of order quantities or 1 to prevent modification of order quantities.
ordermaintenance.release.status.default	This setting determines which Release Status option button is initially selected in the Order Maintenance search criteria popup. The valid values for this property are 0 for all statuses, 1 for Released, or 2 for unreleased.

Property	Description
orderreview.display.quantity.default	This setting determines which Display Quantity value is initially selected in the Order Review search criteria popup.
	The first option is total quantity. This displays the summed order quantity in the search results.
	The second option is outstanding quantity. This will display the total order quantity that is still outstanding. This quantity is calculated as the total order quantity minus the sum of total received quantity and total in-transit quantity.
	The third option is received quantity. This will display the summed received quantity in the search results.
	The fourth option is in-transit quantity. This will display the summed in-transit quantity.
	The valid values for this property are 0 for total quantity, 1 for outstanding quantity, 2 for received quantity, and 3 for in-transit quantity.
orderreview.display.zero.values.default	This setting determines whether the Display Zero Values check box is initially checked or unchecked in the Order Review search criteria popup. Choosing to display zero values will result in zeros being displayed in the columns where no quantity is found. Note, that at least one order must be found for the search criteria and date range in order to have a row displayed in the search results. When choosing to view received or outstanding or in-transit quantities instead of the order quantity, it will be impossible to distinguish a displayed zero, which means no orders were found for the date range, from a 0 quantity was received or 0 quantity is outstanding or a 0 quantity is in-transit.
	The valid values for this property are 0 to not initially select the check box (do not display zeros) or 1 to initially select the check box (display zeros).

6

AIP RPAS Configurations

The AIP RPAS configurations listed in this section allow the business to manipulate AIP to meet its business needs. The XML files, configuration files, and measures are applied to the replenishment processing to affect the plan that is produced.

shortfallPriorityMatrix.xml

The Shortfall Priority Matrix describes the order in which available inventory is allocated when an inventory shortfall occurs. The matrix is organized across two axes, Destination Types and Boundaries.

The Destination Types are the list of store priorities in the system plus a single entry for warehouses (because warehouses do not have priorities). The list of store priorities is configurable, but the default Destination Types are as follows:

- Super High Priority Stores
- High Priority Stores
- Normal Priority Stores
- All Warehouses

The four Boundaries in the Shortfall Priority Matrix are as follows:

- CORT (Customer Orders over Review Time)
- MSS (Minimum Sales Stock)
- RP (Receipt Point)
- RUTL (Receive Up To Level)

The following is the default Shortfall Priority Matrix:

Default Shortfall Priority Matrix

Table 6–1   Default Shortfall Priority Matrix

	CORT	MSS	RP	RUTL
Super High	1	4	5	6
High	2	7	9	11
Normal	3	8	10	12
Warehouse		13	14	15

> **Note:** CORT is not a valid boundary for Warehouses because Warehouses do not deal directly with customers.

The Shortfall Priority Matrix ranking is configurable. The configuration is specified using an XML file, shortfallPriorityMatrix.xml, that is formatted as shown in the following example:

Example: Shortfall Priority Matrix

```
<reconciliation-priority-matrix>
    <boundary componentName="CustomerOrderOverReviewTime">
        <group id="1" priority="1"/>
        <group id="2" priority="2"/>
        <group id="3" priority="3"/>
    </boundary>
    <boundary componentName="WarehouseMinimumStock">
        <group id="0" priority="13"/>
    </boundary>
    <boundary componentName="MinimumSalesStock">
        <group id="0" priority="13"/>
        <group id="1" priority="4"/>
        <group id="2" priority="7"/>
        <group id="3" priority="8"/>
    </boundary>
                <boundary componentName="SupplyChainReceiptPoint">
        <group id="0" priority="14"/>
        <group id="1" priority="5"/>
        <group id="2" priority="9"/>
        <group id="3" priority="10"/>
    </boundary>
                <boundary componentName="SupplyChainReceiptUptoLevel">
        <group id="0" priority="15"/>
        <group id="1" priority="6"/>
        <group id="2" priority="11"/>
        <group id="3" priority="12"/>
    </boundary>
```

Within the XML file, the group id corresponds to a destination priority, where **0** is reserved for All Warehouses. The remaining destination priorities should match the store priorities. For example, the default destination priorities are **1** for Super High Priority Stores, **2** for High Priority Stores,and **3** for Normal Priority Stores. The **componentName** is the name of a numeric DataContainer that will contain the calculated allocation boundary data.

For each group, the allocation boundaries should only be prioritized in the following ascending order: CORT < MSS < RP < RUTL. Since the allocation boundaries are cumulative, undesirable results can be generated if this order is not followed.

It should also be noted that same priority numbers across multiple cells will not be supported in the current release. Each cell within the matrix should be assigned a unique priority number. Not doing so will result in erroneous results.

surplusStorePriorityMatrix.xml

The Surplus Store Priority Matrix describes the order in which available inventory is allocated to stores when an inventory surplus occurs. This matrix is used when pushing only to stores. There are two surplus matrices, surplusStorePriorityMatrix and surplusAllPriorityMatrix, and which one is used for pushing depends on the valid destinations served by a supplier with a fixed purchase quantity or stockless warehouse. The surplusAllPriorityMatrix is not configurable and therefore is not listed in this guide. The matrix is organized across two axes, Destination Types and Boundaries. The Destination Types are the same as those in the shortfall version, but the Boundaries are different.

The two Boundaries in the Surplus Priority Matrix are as follows:

- Up To Upper Boundary
- Above Upper Boundary

Table 6–2 Default Prioritized Store Surplus Priority Matrix

	Up To Upper Boundary	**Above Upper Boundary**
Super High	1	6
High	2	5
Normal	3	4
Warehouse		7

Table 6–3 Default All Destination Type Surplus Priority Matrix

	Up To Upper Boundary	**Above Upper Boundary**
All Destinations	1	2

When stepping through the Surplus Priority Matrix, the *Upper Boundary* is simply the appropriate Upper Boundary for the SKU and destination type. The *Lower Boundary*, on the other hand, is always assumed to be zero. This is because when pushing inventory to destinations, the inventory position of those destinations need not have reached any particular lower boundary, because they cannot have ordered anything. Therefore, by treating the lower boundary as zero, it is possible to assess all destinations against the *Upper Boundary*, regardless of their inventory position.

This matrix is configurable through direct access to the database. However, the rule that must be observed is that, for any given Destination Type (consider this a row in the matrix), the boundaries must be addressed in increasing numerical order. There is no point in giving destinations a quantity *Up to their Upper Boundary* after giving them inventory *Above their Upper Boundary*. Note that by definition, the *Above the Upper Boundary* cell has no upper numerical limit, and so as long as there are destinations associated with a particular row to which inventory can be sent, an *Above Upper Boundary* cell will always exhaust all remaining inventory.

The Surplus Priority Matrix ranking is configurable. The configuration is specified using an XML file, surplusStorePriorityMatrix.xml, that is formatted as shown:

Example: Surplus Priority Matrix

```
<reconcilication-priority-matrix>
  <boundary componentName="Above Upper Boundary">
    <group id="1" priority="6" method="fair-share"/>
    <group id="2" priority="5" method="fair-share"/>
    <group id="3" priority="4" method="fair-share"/>
  </boundary>
  <boundary componentName="Up To Upper Boundary">
    <group id="1" priority="1"/>
    <group id="2" priority="2"/>
    <group id="3" priority="3"/>
  </boundary>
</reconcilication-priority-matrix>
```

Within the XML file, the group id corresponds to a destination grouping. The destination priorities should match the store priorities. For example, the default destination priorities are **1** for Super High Priority Stores, **2** for High Priority Stores, and **3** for Normal Priority Stores. The componentName is the name of a numeric DataContainer that will contain the calculated allocation boundary data. The method currently has only one valid designation (fair-share) and should not be changed.

For each group, the allocation boundaries should only be prioritized in the following ascending order: Up To Upper Boundary < Above Upper Boundary. Since the allocation boundaries are cumulative, undesirable results can be generated if this order is not followed.

It should also be noted that same priority numbers across multiple cells will not be supported in the current release. Each cell within the matrix should be assigned a unique priority number. Not doing so will result in erroneous results.

Measures

The measures in the following sections are applied to the replenishment processing to affect the plan.

aip_env_rpas.sh

In addition to the infrastructure-type environment variables listed in Chapter 4, "System Configuration," the aip_env_rpas.sh script contains implementation parameters that the business must customize. The values assigned to the variables in the **Implementation Parameters** section of aip_env_rpas.sh are assigned as values to selected AIP RPAS measures during execution of the set_implementation_parms.sh script--which is run from aip_batch.sh when the first time parameter is True.

See Chapter 18, "First Day of AIP," for details on running the AIP batch with the first time parameter set to True.

Table 6–4 contains a description of the variables in aip_env_rpas.sh that correspond to the Implementation Parameters for AIP RPAS.

Table 6–4   Implementation Parameters for aip_env_rpas.sh

Implementation Parameters	Default Values	Description
DEFAULT_PLANNING_HORIZON	35	This variable is used as a default store planning horizon for DM. This parameter will be used to initialize the RPAS measure: dm0_defplnhzn.
POST_PROMOTION_ SUBSTITUTION_FLAG	FALSE	The Post Promotion Substitution Flag determines whether promotional items should be substituted after their promotional date. This parameter will be used to initialize the RPAS measure: dmx_pstpmsflg.
SUPPLIER_ORDER_MULTIPLE_ ALGORITHM	1	This flag determines whether you will manually enter ordering parameters for the entire supply chain, or whether the supplier's value for Pallet Multiple and Order Multiple will be spread through the supply chain. If the value is 1, the two parameters listed above must be defined for both supplier-to-warehouse and warehouse-to-warehouse combinations of the supply chain. If the value is 0, the two parameters listed above need only be defined for the top tier of the supply chain--supplier-to-warehouse combinations. An algorithm will run as part of DM Batch to set the values for the inner tiers of the supply chain equal to the value of the top tier. Note that any warehouse-to-warehouse combinations that are either system-generated by DM Automated Maintenance or user-generated will be overwritten in the RPAS measure! This parameter will be used to initialize the RPAS measure: dmx_somalg.
SPECIAL_ORDER_CYCLE	PRFWS	The dmx_speocy measure contains the default Order Cycle identifier. This order cycle is used by default when automatically generating profiles and order groups. This should not be changed unless the AIP Oracle PL/SQL is customized to use the new Order Cycle code and the order cycle exists in the AIP Oracle database. The order cycle lengths and lead times are not defined in AIP RPAS at implementation time. The order cycle lengths and lead times are defined in AIP Oracle at implementation time and will be loaded into AIP RPAS before the first full run of DM Batch. PRFWS - Used when automatically creating new Warehouse Profiles.
STORE_ONLY_STRING	STR	This string contains the Supplier Ship-to code that represents *Stores Only*. This code is used when attempting to automatically set the store source value for a new SKU. Because the Supplier Ship-to values are also sent to AIP on Oracle, the codes and table constraints in both systems must remain consistent. This parameter will be used to initialize the RPAS measure: dmx_storeonly.

Table 6–4   (Cont.) Implementation Parameters for aip_env_rpas.sh

Implementation Parameters	Default Values	Description
CSC_STORE_FORMAT_STRING	1002	This string contains the store format of the stores that receive their SKUs from the warehouse when the supplier of the SKU can supply both the stores and the warehouses.
		This setting is used when the batch tries to automatically set the Store Source value for a new SKU. When the selected supplier of the SKU has a Supplier Ship-to value equal to the value in dmx_cscdir, this indicates that the supplier can ship to either CSC warehouses or directly to stores. To determine which store source to select (the supplier or warehouse) the store format of each store that the SKU is on-supply at is compared to the store format listed in this measure. If the store's format matches, then the store's default CSC warehouse is saved as the source for the SKU/store. This means that the supplier will provide the SKU to the warehouse and the warehouse will provide the SKU to the store.
		This parameter will be used to initialize the RPAS measure: dmx_cscstrfmt.
CSC_AND_STORE_DIRECT_STRING	CS_ST	This is the supplier ship-to value that indicates the supplier ships to both CSC warehouses and stores. Because the Supplier Ship-to values are also sent to AIP on Oracle, the codes and table constraints in both systems must remain consistent.
		This parameter will be used to initialize the RPAS measure: dmx_cscdir.
WAREHOUSE_TYPE_RDC	CS_RG	The value of this variable is a string that is used to represent warehouses that are Regional Distribution Centers.
		This parameter will be used to initialize the RPAS measure: IpWhTypRDCI.
WAREHOUSE_TYPE_GSS	XD_GS	The value of this variable is a string that is used to represent warehouses that are Deconsolidation Centers.
		This parameter will be used to initialize the RPAS measure: IpWhTypGSSI.
WAREHOUSE_TYPE_XDK	XD_RG	The value of this variable is a string that is used to represent warehouses that are Cross docks.
		This parameter will be used to initialize the RPAS measure: IpWhTypXDKI.
AUTOMATIC_WAREHOUSE_PROFILE_CREATION	FALSE	Controls the execution of the automatic warehouse profile creation logic. If set to False, the logic will not execute and warehouse profiles will not be automatically created. You are responsible for manually creating warehouse profiles. If set to True, one warehouse profile is created for each new supplier. This parameter should be True if AUTOMATIC_WAREHOUSE_PROFILE_ASSIGNMENT is set to 1- Supplier. Otherwise, this parameter should beFalse.
		Valid values are True and False.

Table 6–4   (Cont.) Implementation Parameters for aip_env_rpas.sh

Implementation Parameters	Default Values	Description
AUTOMATIC_WAREHOUSE_ PROFILE_ASSIGNMENT	0	This measure controls the execution of the automatic warehouse profile assignment logic. If set to 2-Disabled, the logic will not execute and you are responsible for manually assigning new SKUs to warehouse profiles. If set to 1 - Supplier, the system will search for a warehouse profile that was created for one of the SKU's suppliers and assign the new SKU to it. If set to 0 - Class, the system will look for the warehouse profile that has been designated as the default profile for the SKU's class (Class to Profile Assignment) and assign the new SKU to it. This measure should be set to *Class* or *Disabled* when AUTOMATIC_WAREHOUSE_PROFILE_CREATION is False.
YEARS_HISTORY_IN_CALENDAR	1	This parameter is used by the RMS-AIP Transformation script, aipt_clnd.ksh, to create the calendar hierarchy load file, clnd.csv.dat, from the RMS calendar extract file. This paramter defines the number of years of historical days that will be put into clnd.csv.dat.
YEARS_FUTURE_IN_CALENDAR	2	This parameter is used by the RMS-AIP Transformation script, aipt_clnd.ksh, to create the calendar hierarchy load file, clnd.csv.dat, from the RMS calendar extract file. This parameter defines the number of years of future days that will be put into clnd.csv.dat.
CYCLE_START_DATE	20000102	The date in YYYYMMDD format, that denotes the start date for counting day of fortnight and day of four-week period positions. This variable can be customized if you are not using AIP-Oracle.

IpRoLocTypeI

Replenishment Optimization Location Types

This measure specifies which location types are considered when extracting data for RO. By default this measure is set to **0** for Stores. The valid values for this measure are 0 to 2:

- 0 - Stores

- 1 - Warehouses

- 2 - Stores and Warehouses

This measure can also be edited by inserting it into an analysis workbook. This measure value should be limited to just those location types that are optimized in the optimization system and replenished in AIP.

IpFirstBusDayI

Replenishment Optimization First Business Day

This measure represents the first day of the normal business week, which is used to determine the first day-of-week that the extract processes will begin to search for the lead times to send to RO. By default this measure is set to 0 (Monday). The valid values of this measure are 0 to 6:

- 0 - Monday

- 1 - Tuesday

- 2 - Wednesday

- 3 - Thursday

- 4 - Friday

- 5 - Saturday

- 6 - Sunday

This measure can also be edited by inserting it into an analysis workbook.

IpRoRtDaysStrI

Replenishment Optimization Review Time Extract Days for Stores

This measure specifies the period of time (in days) to search for a review time to send to RO when extracting store data. This measure is an integer, and by default this measure is set to **28**. The valid value for this measure is any integer. This measure can also be edited by inserting it into an analysis workbook.

IpRoRtDaysWhI

Replenishment Optimization Review Time Extract Days for Warehouses

This measure specifies the period of time (in days) to search for a review time to send to RO when extracting warehouse data. This measure is an integer, and by default this measure is set to **28**. The valid value for this measure is any integer. This measure can also be edited by inserting it into a workbook.

Modifying Measure Base Intersections Using Configuration Tools

Using the RPAS Configuration Tools, the base intersection of the following measures can be modified.

> **Note:** The data file containing the data must match the configured measure intersection.

Measure	Description	Valid Configuration
IpFctWkPrfD	Week to Day Demand Forecast Percentage Default	All Products/Chain/Day-Of-Week Company/Chain/Day-Of-Week Division/Chain/Day-Of-Week Department/Chain/Day-Of-Week Class/Chain/Day-Of-Week Subclass/Chain/Day-Of-Week
IpFctWkPrfE	Week to Day Demand Forecast Percentage Override	Subclass/Chain/Day-of-Week

Import Configuration Files

Missing data files can corrupt downstream data and cause errors that are difficult to interpret and trace to the root. Therefore, validation of the received import files must be performed prior to running any batch calculations or loading any files with dependencies. A set of configuration files are used to validate that all required files are present before proceeding to load them.

- The configuration files provide a complete list of hierarchy and measure data that can be loaded. If a client chooses to load additional data rather than have the user enter it, the client can add the file to the appropriate configuration file so that its presence in the AIP RPAS import directory is validated.

  - The configuration files can be modified to specify whether a file is required or optional.

  - A file is considered required if its presence is essential for the batch run. A missing required file will cause batch to halt. A required file must be present, even if it is zero (0) byte, that indicates that the extracting worked correctly but there was no data to extract.

  - A file is considered optional if the batch will not halt when the file is not present. No zero (0) byte file is required. A file can only be deemed optional if it provides data that is not required by the replenishment batch modules, is not required by AIP Online, and there are no required files that are dependent on it.

  - Additionally, if the same data can be entered in a workbook before the batch run, the loaded data can also be considered optional.

  - Optional files do not have to be loaded, or they can be loaded weekly or less frequently depending on the file/purpose.

The configuration files for validation are:

- `earlyfiles.config`
- `latefiles.config`
- `forecastdata_from_external.config`

After the presence of all required files has been validated, a number of files are run through a stocking point prefix-adding script as well as a binary executable called interutil. These processes perform a myriad of formatting tasks, including splitting files, adding S, V or W prefixes to Stores, Suppliers, and Warehouses respectively, and transforming RMS-sourced files from RMS SKU to AIP SKU or SKU-pack size. The list of files containing measure data that are reformatted by interutil is determined by a second set of configuration files.

- The configuration files can be modified to prevent interutil from being run for files that are in AIP RPAS loadable format.

- Only files containing measure data are listed in the configuration files. Hierarchy files must be provided in the predetermined format.

> **Note:** The *Oracle Retail Advanced Inventory Planning Operations Guide* and Chapter 9, "RMS Integration and Data Mapping" should be reviewed for file format and file output from interutil before modifying the contents of the configuration files.

The interutil configuration files are:

- `dm_rms_measures.config`

- `srp_rms_measures.config`

- `wrp_rms_measures.config`

Table 6–5 provides information about each of the loadable data files mentioned in the configuration files.

Table 6–5 Loadable Data Files

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Ad (advertisement) Hierarchy	had.txt	Used for viewing Ad information and filtering workbook wizard selections based on Ad information.	Early
Ad/Rollout Notes	ipadrltntsi.txt	Notes to the Planner about advertisements, new SKU rollout, or any other pertinent information needed for planning. Notes can be entered/changed in workbooks as well.	Early
Banded SKU	dmx_bndprdasc.txt	Used if the client buys merchandise in product weight bands (such as turkeys). This file contains the parent child relationship between the SKUs.	Early
Customer Orders	sr0_co_.txt	Contains a total order quantity of a SKU that has been committed to customers. Customer Orders are treated as additional need above and beyond forecasted need.	Early
Daily Forecast	sr0_frclvl1_[1..n].txt	The daily forecast is optional for three reasons: ■ Both a daily and weekly forecast are not required. One can be provided and not the other (depending on system configuration). ■ An updated forecast is typically not reproduced daily, and therefore is not required daily. ■ A forecast is not required if using replenishment methods that use historical sales.	Late-precritical
Daily Forecast Standard Deviation	sr0_fcterrlvl1.txt	Standard Deviation of the daily forecast.	Late-precritical

Table 6–5   (Cont.) Loadable Data Files

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Daily Sales	sr0_dayslsld.txt	Daily Sales are used in store replenishment to calculate Today's Projected Inventory position when a Current Inventory Feed is not available. If daily sales are also unavailable, then another calculation alternative is used.	Early
Daily Short Code Sales	sr0_dyscsls.txt	This value represents the number of units that were sold as a Markdown yesterday. This value is used for calculating High Dissipation alerts.	Late
Default Warehouse	default_wh.txt	Used to automatically assign the STORE SOURCE. If not provided, the Default Warehouse CSC might be used. Otherwise, the store source will not be automatically assigned when the store's source is determined to be the default warehouse (based on the SKU's supplier/ship-to value).	Early
Default Warehouse CSC	default_wh.txt	Used to automatically assign the STORE SOURCE. If not provided, the Default Warehouse might be used. Otherwise, the store source will not be automatically assigned when the store's source is determined to be the default CSC warehouse (based on the SKU's supplier/ship-to value).	Early
Direct Supplier Flag	dmx_dirspl.txt	This flag indicates whether the Supplier is able to supply stores directly or not. This prevents the system from allowing certain supply-chain setups.	Early
Discontinuation Date	dmx_dscdt_.txt	Flags SKU-packs as discontinued. Used to automatically de-range SKU-pack sizes and automatically re-assign ordering pack sizes.	Early
Expected Write-off	sr0_expwrtoff.txt	Represents the quantity of stock expected to be thrown out for any reason (spoilage, breakage) on a given day. Expected Write-offs override calculated expected spoilage.	Early
Historical Lost Sales	sr0_hstls_.txt	Used in Alert Calculations.	Early
Inbound Capacity Cases for Reporting	IpIbCpcCO.txt	Inbound capacity in cases at a warehouse. Used for OBIEE Reporting.	Early
Interval Hierarchy	intv.txt	This is used when loading the Poisson Distribution Lookup table. This is required if Poisson will be used as a replenishment method.	Early
Inventory Adjustments	sr0_invadj.txt	This value contains the total of all Inventory Adjustments made yesterday for the SKU at a particular store. This value can be used for resolving alerts. This value can be positive or negative since it represents net adjustments, some of that can be negative (inventory decreases).	Late

Table 6–5   (Cont.) Loadable Data Files

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Off Sale Dates	dm0_ofseffdt_.txt	Contains Store, SKU, Off Sale Dates. Determines the date that the SKU will no longer be sold at the store. This value is used in determining the off-supply date that determines when AIP will no longer replenish the SKU at the store. If this file value is blank, the system will use the SYSTEM_HIGH_DATE (infinity) as the off-sale date.	Early
On Sale Dates	dm0_onseffdt_.txt	Contains Store, SKU, On Sale Dates. Determines when the SKU will be sold at the store. This value is used in determining the on-supply date that determines when AIP will begin to replenish the SKU at the store.	Early
Outbound Capacity Cases for Reporting	IpObCpcCO.txt	Outbound capacity in cases at a warehouse. Used for OBIEE Reporting.	Early
Pack Type	dmx_pcktyp.txt	Defines a single pack type for each SKU-pack size. Pack Type is used in the Automation to set Location Orderable Unit, Order Multiple, and store ordering pack sizes (store/store format pack size). Automation will not be able to assign a value if the pack type is not defined for SKU-pack sizes.	Early
Poisson Distribution Table	srx_poidst.txt	Poisson Distribution Table.	Early
Pre-Priced Status	dmx_pprsts.txt	Used to substitute a pre-priced item in place of a standard item during a promotion. The Default status of a SKU is *False* or *Not Pre-priced*.	Early
Product Life (shelf life)	sr0_prdlfe.txt	Indicates the number of days a product can sit in the store before is spoils. This value should only be set for short life items that are at high risk of waste due to spoilage.	Late
Promotional Substitution End Date (WH Source)	dm0_pmsstasrc.txt	Used for substituting a promotional item for a standard item during a promotion. Defines the end of the promotional period.	Early
Promotional Substitution Start Date (WH Source)	dm0_pmsendsrc.txt	Used for substituting a promotional item for a standard item during a promotion. Defines the start of the promotional period.	Early
RDF Detail Alert (for Store)	sr0_rdfdtdmsk.txt	Optional flag to load into AIP from forecasting system indicating there is an issue resolving in AIP, the planning app, instead of the forecasting app.	Late-precritical
RDF Detail Alert (for Warehouse)	iprdfdtdaltv.txt	Optional flag to load into AIP from the forecasting system for resolving in AIP, the planning app, instead of the forecasting application.	Late-precritical
RDF Detail Alert Count	sr0_rdfdtdcnt.txt	Count of all RDF Detail alerts generated for a SKU/store.	Late-precritical

Table 6–5 (Cont.) Loadable Data Files

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Sister Store	sister_store.txt	Defines a *like store* for a New Store. When the file is provided along with a future store open date, the system will copy the supply-chain of the existing store to the new store.	Early
Sister Warehouse	sister_wh.txt	Defines a *like warehouse* for a New Warehouse. When the file is provided along with a future warehouse open date, the system will copy the supply-chain of the existing warehouse to the new warehouse.	Early
SKU Hierarchy (Product Hierarchy)	item.txt	Contains all SKUs that should exist in AIP. All files that contain a SKU intersection are dependent upon this file. SKUs begin to age when not present/loaded from this file. If not yet purged, the age of a SKU is reset if it is later re-loaded.	Early
SKU Retail Price	srx_prdrpr.txt	SKU Retail Price interfaced through an external system or custom RMS.	Early
SPQ Commitment Type Exception	ipcmtmtdinit.txt	This value can be entered in the workbooks or loaded (one or the other is expected). The SPQ Commitment Type is only needed if Supplier Purchase Quantities will be entered.	Early
SPQ Order Commit Quantity	ipodcmti.txt	This is the quantity that has been committed to be ordered/purchased from the supplier in a particular week. The nature of the commitment is defined in the SPQ commitment type. This value can be entered manually in a workbook or loaded.	Early
Store Ad End Date	ipadendi.txt	Defines the end date of a Store Ad.	Early
Store Ad Start Date	ipadstai.txt	Defines the start date of a Store Ad.	Early
Store Adjusted Sales	sr0_adjsls.txt	Can be used in User Specified Allocations for Allocation on Rule Based Index.	Early
Store Ads - Grand Opening	sr0_ad_go_.txt	Determines which SKU/store/day has grand opening ads.	Early
Store Ads - Inserts	sr0_ad_irt.txt	Indicates inserts ads exist for the listed SKU/Store/Day.	Early
Store Ads - Others	sr0_ad_oth.txt	Indicates ads classified as other non-standard ads exist for the listed SKU/Store/Day.	Early
Store Ads - Run On Press	sr0_ad_rop.txt	Indicates an ad has been run as a result of extra Press for the listed SKU/Store/Day.	Early
Store Ads (advertisements)	sr0_ad_.txt	Information to be viewed in the Workbooks. Flags whether a SKU/store is included in any ads.	Early

Table 6–5 (Cont.) Loadable Data Files

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Store Average Weekly Rate of Sale	sr0_avgrosld_.txt	Used to calculate the total Average Weekly Rate of Sales across all stores served by a warehouse. The value is used when the warehouse replenishment method is Factor ARS.	Early
Store Current Inventory	sr0_curinv_1.txt	The quantity of inventory at the store that is available to meet immediate demand.	Late
Store Hierarchy	loc.txt	Contains all Stores that should exist in AIP. All files that contain a Store intersection are dependent upon this file. Stores begin to age when not present/loaded from this file. If not yet purged, the age of a Store is reset if it is later re-loaded.	Early
Store In-transit Quantity	sr0_it_.txt	In-transit quantities represent those orders that have physically shipped to the destination.	Late
Store Known Demand	sr0_knowndemand.txt	Used in place of forecasted demand if loaded.	Early
Store Loaded Safety Stock	sr0_ss_ld_.txt	Safety Stock for Loaded Safety Stock Dynamic replenishment method.	Early
Store On-order Quantity	sr0_oo_.txt	On-order Quantity represents those orders that have been executed, but as of yet there is no information regarding their physical shipment to the destination.	Late
Store Open Date	sister_store.txt	Defines the date that a new store is opening. This date is used along with the Sister Store data to perform a copy of the existing Store's supply-chain to the new store. This value is also used for Walking Store Lead Time automation.	Early
Store Replenishment Subtype Code	sr0_rplsubcde.txt	This is for informational purposes only. It provides the planner with more detailed information about how the SKU is replenished at the store.	Early
Store Replenishment Type Code	sr0_rplcde.txt	This is for informational purposes only. It provides the planner with information about how the SKU is replenished at the store.	Early
Store Trading Days	sr0_tdgday.txt	Used to calculate the In-Scope indicator for Alerts. Typically, a day will not be counted or considered during alert calculations if it is not a trading day (for example, the business is not Open). By default, all days are trading days.	Early
Supplier Hierarchy	splr.txt	Contains all Suppliers that should exist in AIP. All files that contain a Supplier intersection are dependent upon this file. Suppliers begin to age when not present/loaded from this file. If not yet purged, the age of a Supplier is reset if it is later re-loaded.	Early

Table 6–5   (Cont.) Loadable Data Files

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Supplier Ship-to	dmx_shpto.txt	Provides a code that maps the supplier to the types of locations that it ships products to. The ship-to mappings (configured in a table) are used to automatically set up the supply-chain. If missing, Automation will be unable to automatically set up the supply chain for the new Supplier and its new SKUs.	Early
Supplier/SKU-pack size Associations	dmx_prdspllks.txt	Defines which SKU-pack sizes are available from each Supplier.	Early
Total Store Average Rate of Sales	ipavgrtslsi.txt	Can be calculated by summing the values in sr0_avgrosld_ for each store that is served by the warehouse or loaded outright. It is used when the warehouse replenishment method is Factor ARS.	Early
Value Added Product Association	dmx_vadprdasc.txt	Used to substitute pre-priced/added value items for standard items during a promotion. This file contains the parent child relationship between the SKUs.	Early
Warehouse Current Inventory	wr1_curinv.txt	The quantity of inventory at the warehouse that is available to meet immediate demand. This file is required. A 0-byte *empty* file can be provided in place of actual values if inventory positions at the warehouse are not available. Replenishment will then fall into the *contingency* processing for missing warehouse inventory positions.	Late
Warehouse Hierarchy	whse.txt	Contains all stockholding Warehouses that should exist in AIP. All files that contain a Warehouse intersection are dependent upon this file. Warehouses begin to age when not present/loaded from this file. If not yet purged, the age of a Warehouse is reset if it is later re-loaded.	Early
Warehouse Historical Weekly Sales	ipslsi.txt	Historic Weekly Sales are used in the Sales Week Range and Average Weekly Sales replenishment methods. The value will be used when warehouse replenishment method is set to either of these methods.	Early
Warehouse Holdback Quantity	iphldbckqtyi.txt	A quantity of inventory at the warehouse that should be held in reserve.	Early
Warehouse Holding Capacity	ipwhhldcpci.txt	Used for Network Group Alert calculations.	Early
Warehouse In-transit Qty	wr1_it_.txt	In-transit quantities represent those orders that have physically shipped to the destination. If no on-order quantity exists, it is assumed to be 0. This file is required. A 0-byte *empty* file can be provided if running Store-only replenishment without reconciliation.	Late
Warehouse Loaded Safety Stock	ipldssi.txt	Required if the Loaded Safety Stock replenishment method will be used for warehouse replenishment.	Early

Table 6–5   (Cont.) Loadable Data Files

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Warehouse On-order Qty	wr1_oo_.txt	On-order Quantity represents those orders that have been executed, but as of yet there is no information regarding their physical shipment to the destination. If no on-order quantity exists, it is assumed to be 0. This file is required. A 0-byte *empty* file can be provided in place of actual values if running Store-only replenishment without reconciliation.	Late
WH Allocations In The Well	wr1_aiw.txt	Future allocations out of the warehouse from an external system not accounted for in inventory figures. This file is required. A 0-byte file can be provided in place of actual values.	Late
WH Transfers in the Well	wr1_tiw.txt	Outstanding transfers out of the warehouse from an external system not accounted for in inventory figures. This file is required. A 0-byte file can be provided in place of actual values.	Late
Warehouse Replenishment Sub-type Code	iprplstcdi.txt	Information to be viewed in the Workbooks. Indicates how the SKU is replenished at the warehouse.	Early
Warehouse Replenishment Type Code	iprpltcdi.txt	Information to be viewed in the Workbooks. Indicates how the SKU is replenished at the warehouse.	Early
Warehouse Total Held Stock	ipttlhlstki.txt	Total quantity of unavailable stock held at the warehouse. This quantity is for informational purposes only. It is assumed to have been subtracted out of the Current Inventory position provided.	Early
Warehouse Type	wh_type.txt	This warehouse attribute is used for virtually all into-warehouse automation. It is also used in the WRP Company Level Inventory Analysis Worksheet, which, if used, displays end of week inventory against specific warehouse types. This data should be set to required if into-warehouse Automation is desired.	Early
Waste Adjustments	sr0_wstadj.txt	This value contains the total of all Waste Adjustments made yesterday for the SKU at a particular store. This value can be used for calculating High Dissipation alerts. This value is expected to be negative because waste decreases inventory.	Late
Week to Day Forecast Percentage Default	ipfctwkprfd.txt	Used to spread weekly forecasts to a daily level. This file is needed when using weekly forecasts.	Early
Week to Day Forecast Percentage Exception	ipfctwkprfe.txt	Used to spread weekly forecasts to a daily level. This file is only needed if an exception to the default is needed.	Early

Table 6–5   (Cont.) Loadable Data Files

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Weekly Base Sales Forecast	sr0_wkbsf_ld.txt	A base line forecast at the weekly level that does not include promotions. Used in calculated Presentation Stock.	Late-precritical
Weekly Forecast	sr0_frclvl2_[1..n].txt	The weekly forecast is optional for three reasons. ■ Both a daily and weekly forecast are not required. One can be provided and not the other (depending on system configuration). ■ An updated forecast is typically not reproduced daily, and is therefore not required daily. ■ A forecast is not required if using replenishment methods that use historical sales.	Late-precritical
Weekly Forecast Standard Deviation	sr0_fcterrlvl2.txt	Standard Deviation of the weekly forecast.	Late-precritical

Moving Integration Data Source from RMS to a Non-RMS External System

AIP is configurable to allow some files, whose default source is RMS, to be sourced instead from a Non-RMS External System. The following instructions detail the procedure for adjusting the configuration files to support this change of source.

Prerequisites for Moving the Source Application of an RMS Data Feed

1. The data feed must be one of the inventory data feeds that arrives late from RMS, as listed in wrp_rms_measures.config or srp_rms_measures.config file, as well as the latefiles.config file. These files are located in the following directory of the domain:

   ```
   $AIPDOMAIN/interface/config/external/latefiles.config
   $AIPDOMAIN/interface/config/rms/srp_rms_measures.config
   $AIPDOMAIN/interface/config/rms/wrp_rms_measures.config
   ```

2. The data feed must now be formatted in RPAS-loadable format. No processing will be performed to translate RMS SKU to AIP SKU or to add stocking-point prefixes. However, the data can still be split into multiple pieces (for Store Current Inventory, namely sr0_curinv).

   > **Note:** For the RPAS measure loadable formats of the inventory data feeds, see "File Format Including Mapping to AIP RPAS Measure Format" on page 9-12

3. The data feed is still considered to be a late arrival.

Setup

1. Add the data feed to the measdata_from_external.config configuration file. It is located is in the following directory of the domain:

   ```
   $AIPDOMAIN/interface/config/external/measdata_from_
   external.config
   ```

2. Remove the data feed from srp_rms_measures.config or wrp_rms_measures.config. Also remove the data feed from inv_meas_ntier_prefix.config. These configuration files are located in the following directories of the domain:

   ```
   $AIPDOMAIN/interface/config/rms/srp_rms_measures.config
   ```

   ```
   $AIPDOMAIN/interface/config/rms/wrp_rms_measures.config
   ```

   ```
   $AIPDOMAIN/interface/config/rms/meas/inv_meas_ntier_
   prefix.config
   ```

Process

1. After the early files (as listed in earlyfiles.config) are placed into the domain, run the appropriate aip_batch processes, as normal, to process external data.

   > **Note:** process_external_data.sh will not process any file that has been moved from RMS to External source, as the feed is still considered late.
   >
   > Additionally, `load_non_rms_external.sh` will not load the moved feed, as it is not in the `$INTERFACE_EXTERNAL_DIR` directory yet.

2. After the late files (as listed in latefiles.config) are placed into the domain (in the $INTERFACE_RMS_DIR directory), run the appropriate aip_batch steps, as normal, to process inventory data.

> **Note:** `process_inventory_data.sh` will consolidate the current inventory data feeds as prescribed in the script, regardless of whether they are RMS-sourced or non-RMS-sourced. However, process_ inventory_data.sh will not process any moved feed by adding stocking point prefixes or conversion from RMS SKU to AIP SKU/SKU-pack size, as the feed is no longer listed in the appropriate configuration files as in Step 2 in "Setup" on page 6-18.
>
> Finally, load_replenishment_measures.sh will not load the moved feed, for the same reason.

> **Note:** All non-RMS external late files are moved and loaded without manual client intervention by way of the logic added to process_ inventory_data.sh and load_non_rms_files.sh as called by load_ replenishment_measures.sh. The script, process_inventory_data.sh, moves the files to the correct spot for external processing, andthe script, load_non_rms_files.sh, loads the files.

7

AIP Calendar Hierarchy

This chapter describes the AIP calendar hierarchy data.

AIP Calendar Data - clnd.dat or clnd.csv.dat

Table 7–1 provides information about the `AIP clnd.dat` file or `clnd.csv.dat` formats, that contains AIP calendar hierarchy data.

> **Note:** When constructing the `clnd.dat` file, ensure that the first day of the calendar is a Sunday. This is a requirement of the AIP RPAS functionality.

> **Note:** Manual creation of the calendar hierarchy should still be done in a space-separated file (`clnd.dat`). When the calendar hierarchy is created by the transform scripts, it will be comma separated (`clnd.csv.dat`).

Table 7–1   AIP Calendar Data

#	Data Entry	Description	Start	Width	Format	Example
1	DAY	Day	1	9	Dyyyymmdd	D20040104
2	DAY Label		10	120	mm/dd/yy	01/04/04
3	DOFP	Day of 4 Week Period	130	8	nn	01
4	DOFP Label		138	120	DOFP nn	DOFP 01
5	DOFN	Day of Fortnight	258	8	nn	01
6	DOFN Labe		266	120	DOFP nn	DOFN 01
7	DOW	Day of Week	386	8	Day of Week (short)	SUN
8	DOW Label		394	120	Day of Week (long)	Sunday
9	DOS	Day of Season	514	8	DOSnnn	DOS008
10	DOS Label		522	120	DOS nnn	DOS 008
11	WEEK	Week	642	8	Wnn_yyyy	W02_2004
12	WEEK Label		650	120	Week mm/dd/yy	Week 01/10/04
13	WOS	Week of Season	770	8	WOSnn	WOS02
14	WOS Label		778	120	WOS nn	WOS 02

Table 7–1   (Cont.) AIP Calendar Data

#	Data Entry	Description	Start	Width	Format	Example
15	WOY	Week of Year	898	8	WYnn	WY02
16	WOY Label		906	120	WOY nn	WOY 02
17	UMC1	Week Grouping - 1	1026	8	UMC1UNASSIGNED	UMC1UNAS
18	UMC1 Label		1034	120	Unassigned	Unassigned
19	MNTH	Month	1154	8	Mnn _yyyy	M01_2004
20	MNTH Label		1162	120	Mnn, FY yyyy	M01, FY 2004
21	MOY	Month of Year	1282	8	MYnn	MY01
22	MOY Label		1290	120	MOY nn	MOY 01
23	QRTR	Quarter	1410	8	Qn_yyyy	Q1_2004
24	QRTR Label		1418	120	Qn FY yyyy	Q1, FY 2004
25	YEAR	Year	1538	8	Ayyyy	A2004
26	YEAR Label		1546	120	FYyyyy	FY2004
Day of Week (short): Short form of day-of-week names (SUN, MON, TUE, WED, THR, FRI, SAT)						
Day of Week (long): Long form of day-of-week names (Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday)						

Setting Compatible Cycles

The Day of Fortnight (DOFN) and Day of 4-week Period (DOFP) values directly relate to the order cycles values that the retailers will set up in the Data Management (DM) application. When you set up a 14- or 28-day lead time cycle, that cycle day should correspond to the AIP RPAS DOFN and DOFP values; otherwise, the schedules shown to you in Data Management (DM) will not match the executed plan and the plan days viewed in the Workbooks. To ensure the AIP RPAS DOFN and DOFP match the Data Management (DM) cycle days, perform the following:

1. For the first day in the calendar, determine the DOFN and DOFP values by replacing the values marked by < > with an appropriate value and performing the following SQL select statement:

   MOD((TO_DATE(<FIRST CALENDAR DAY>, MM/DD/YYYY) - TO_ DATE(01/02/2000, MM/DD/YYYY)), <14 FOR DOFN and 28 FOR DOFP>) +1

   For example:

   MOD((TO_DATE(04/01/2007, MM/DD/YYYY) - TO_DATE(01/02/2000, MM/DD/YYYY)), 14) +1

2. Format the cycle day (01-14 for DOFN, 01-28 for DOFP) from the SQL statement above and use it as the starting cycle day in the file.

3. Increment the DOFN value for each subsequent day to 14, then restart the count at 1. Increment the DOFP value for each subsequent day to 28, then restart the count at 1.

Notes on Manual Construction

1. The file clnd.dat must start at the beginning of a 4-5-4 fiscal year. This ensures that the day-of-week, day-of-season, and week-of-season are appropriately calculated and/or loaded.

2. AIP supports a Sunday-to-Saturday week. However, in order to enable customization, the transformation of the RMS calendar feed to `clnd.csv.dat` can appropriately generate the day-of-week for non-Sunday-based weeks.

   For more information, see Chapter 9, "RMS Integration and Data Mapping".

3. When manually constructing the calendar hierarchy (versus using the RMS-AIP Transformation scripts), place the clnd.dat in the $AIPDOMAIN/interface/rms directory.

8

Integration

This chapter describes AIP integration with applications within the Integrated Inventory Planning Suite.

Overview of the Integrated Inventory Planning Suite

The Integrated Inventory Planning Suite is the integration of Demand Forecasting (RDF), Advanced Inventory Planning (AIP), Replenishment Optimization (RO), and Analytic Parameter Calculator Replenishment Optimization (APC RO) as a full-suite inventory management solution for retailers.

Figure 8–1 Integrated Inventory Planning Suite Conceptual Overview
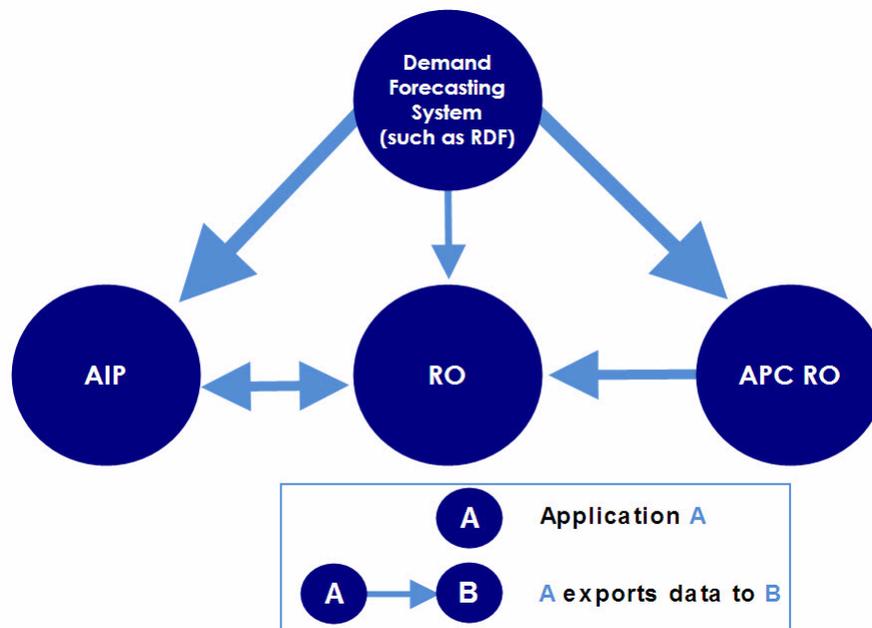
This solution supports data sharing among these applications. Note that the data sharing functionality is not dependent on the presence of all these applications. The defined data sharing between any of the applications works for the entire suite as well as for a subset of the applications.

Integrated Inventory Planning Suite Data Flow

Figure 8–2 shows the integration of the Integrated Inventory Planning Suite applications and the flow of data among those applications. Note that Figure 8–2 shows a replenishment system. This can be AIP or any other replenishment system. The demand forecasting application can be RDF or any other forecasting system.

Figure 8–2 Integrated Inventory Planning Suite Data Flow
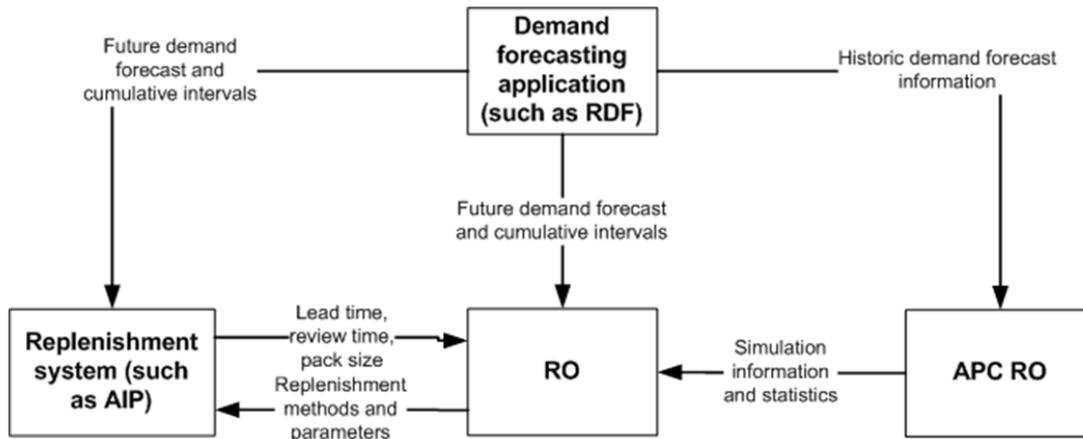
Data Flow Description

These descriptions explain each of the data flows in Figure 8–2

From a Demand Forecasting Application to APC RO

The following data flow is from a Demand Forecasting Application (such as RDF) to APC RO:

- Sends historic demand forecasts for a forecast horizon for a series of forecast start dates. It sends a separate forecast file for each forecast start date.

From a Demand Forecasting Application to a Replenishment System

The following data flow is from a Demand Forecasting Application (such as RDF) to a Replenishment System (such as AIP):

- Sends time-phased demand forecasts (starting today and looking forward) at the item/store level.

- Sends the cumulative standard deviation of the forecast. This is needed for the calculation of safety stock.

From APC RO to RO

The following data flow is from APC RO to RO:

- Sends simulation information and statistics:

  - Item/location/scenario level information

  - Mean/variability/lead time grouping level information

  - Mean/variability grouping/scenario level information

  - Scenario level information

From a Replenishment System to RO

The following data flow is from a Replenishment System (such as AIP) to RO:

- Sends the lead time in flat files. The lead time (or order cycle) pattern generally contains the same lead time on all days that have a lead time; however, the lead time can increase for the weekend. Therefore, the most common lead time is found during the business week.

- Sends the review time in flat files. Review time is the number of days until the next possible receipt. It is a key factor in determining the minimum amount of projected stock that should be available until the next receipt. Since review time can change daily, the minimum available inventory must cover the longest review time in order to avoid stock outs.

- Sends the ordering pack size in flat files. The ordering pack size is the preferred pack size of an item that should be ordered from a source to the destination.

From a Demand Forecasting Application to RO

The following data flow is from a Demand Forecasting Application (such as RDF) to RO:

- Sends time-phased demand forecasts (starting today and looking forward) at the item/store level. This allows you to understand how the replenishment settings would perform based on that demand.

- Sends the cumulative standard deviation of the forecast. This is needed for the calculation of safety stock.

From RO to a Replenishment System

The following data flow is from RO to a Replenishment System (such as AIP):

- Sends the recommended replenishment methods and parameters in flat files based on the schedule that you set.

- For AIP specifically, RO performs the necessary transformations needed to convert order-based replenishment parameters to a relevant form before sending it to AIP since AIP is a receipts-based system.

9

RMS Integration and Data Mapping

This chapter describes integration between AIP and Oracle Retail Merchandising System (RMS).

RMS to AIP Data

There are two types of data that RMS can provide to AIP:

- Hierarchy data
- Measure data

Hierarchy Data

Overview

Table 9–1 lists the hierarchy files that AIP can receive from RMS.

Table 9–1   Hierarchy Files

#	File Name	Description	Source
1	loc.txt	Location Hierarchy	RMS-partial (†)
2	item.txt	Item Hierarchy (Product Hierarchy)	RMS-partial (*)
3	splr.txt	Supplier Hierarchy	RMS
4	whse.txt	Warehouses	RMS-partial (*)
5	clnd.csv.dat	Calendar Hierarchy	RMS

(†) RMS delivers only some fields in the location hierarchy. See"File Format" on page 9-1 for details.

(*) These hierarchies go through a merge process with AIP-Oracle data prior to being fully loaded into AIP-RPAS.

File Format

The Retail Extraction, Transformation, and Loading (RETL) tool, through the RMS-AIP Transformation scripts, provides AIP with the file format displayed in Table 9–2.

> **Note:** Customers who do not have RETL are required to provide files with this same format.

Table 9–2 Location Hierarchy File Name: loc.txt

Data Entry	Start	Width	Source
Store	1	20	RMS
Store Description	21	150	RMS
Site	171	20	RMS
Site Description	191	120	RMS
Region	311	20	RMS
Region Description	331	120	RMS
Zone	451	20	RMS
Zone Description	471	120	RMS
Chain	591	20	RMS
Chain Description	611	120	RMS
Company	731	20	RMS
Company Description	751	120	RMS
TV Region	871	4	External
TV Region Description	875	24	External
Weather Region	899	4	External
Weather Region Description	903	24	External
Market Region	927	4	External
Market Region Description	931	24	External
Store Format	955	20	RMS
Store Format Description	975	40	RMS

> **Note:** RMS does not provide Weather Region, TV Region, or Market Region data in its extract. The RMS-AIP transformation script stubs these fields (positions and labels) with a *0* value. If customers want to use these dimensions, they need to add a custom step between RMS transforms and aip_batch to use them. RMS can provide a store format; however, it is an optional value in RMS. Store Format is not optional in AIP and should be set appropriately in RMS to prevent errors in AIP.

Table 9–3 Item Hierarchy (Product Hierarchy) File Name: item.txt

Data Entry	Start	Width	Source
AIP SKU	1	20	RMS /This is the forecasted, selling SKU.
Order Multiple	21	4	RMS
Pack Quantity	25	4	RMS

Table 9–3   (Cont.) Item Hierarchy (Product Hierarchy) File Name: item.txt

Data Entry	Start	Width	Source
RMS SKU	29	20	RMS
RMS SKU Description	49	250	RMS/ The description must not contain the pipe character due to its use as a field delimiter in the flat files loaded within AIP.
Banded Item Indicator	299	1	RMS/banded = 1 Not banded=0
Segment	300	20	RMS
Segment Description	320	120	RMS
Sub-Category	440	20	RMS
Sub-Category Description	460	120	RMS
Category	580	20	RMS
Category Description	600	120	RMS
Super-Category	720	20	RMS
Super-Category Description	740	120	RMS
Business Unit	860	20	RMS
Business Unit Description	880	120	RMS
Company	1000	20	RMS
Company Description	1020	120	RMS
SKU Type	1140	20	RMS
SKU Type Description	1160	100	RMS

The `item.txt` file maps as follows:

1. The RMS SKU to the AIP SKU.

2. The Pack Quantity and Order Multiple to the AIP SKU-pack size. AIP processing code creates a mapping table (measure) to tie the RMS SKU to the AIP SKU pack size, and uses this mapping method to send data back to RMS using the RMS SKU.

3. The Pack Quantity must be Null, and the Order Multiple equal to the AIP SKU-pack size.

> **Note:**   While RMS can extract pack items, AIP does not support RMS Formal Packs. All item-related data must be for the forecasted, selling SKU.

Mapping Table

Table 9–4 is used for mapping the RMS SKU to the AIP SKU pack size. This information is sent in the item.txt file as shown in Table 9–3.

Table 9–4   Mapping Table: (Examples)

RMS SKU	Order Multiple	Pack Quantity	AIP SKU Pack Size
300	1	(null)	300_1
303	6	(null)	300_6

> **Note:**   RMS truncates fractional pack sizes before sending the data to AIP, as AIP cannot handle fractional pack sizes.

Table 9–5   Banded Items Mapping Table: (Examples)

RMS SKU	Order Multiple	Pack Quantity	AIP SKU Pack Size
300	1	(null)	300_1
303	6	(null)	303_6

> **Note:**   RMS handles the setting of banded items in item.txt file.

Table 9–6   Supplier Hierarchy File Name: splr.txt

Data Entry	Start	Width	Source
Supplier	1	20	RMS
Supplier Description	21	240	RMS

Table 9–7   Warehouse Hierarchy File Name: whse.txt

Data Entry	Start	Width	Source
Warehouse Chamber	1	20	DM-Online
Warehouse Chamber Description	21	150	DM-Online
Warehouse	171	20	RMS
Warehouse Description	191	150	RMS

> **Note:**   RMS sends warehouse chamber values equal to warehouse values.

Table 9–8   Calendar Hierarchy File Name: clnd.csv.dat

Data Entry	Source
Day	RMS
Day Label	AIP
DOFP	AIP

Table 9–8   (Cont.) Calendar Hierarchy File Name: clnd.csv.dat

Data Entry	Source
DOFP Label	AIP
DOFN	AIP
DOFN Label	AIP
DOW	RMS
90 DOW Label	AIP
DOS	RMS
DOS Label	AIP
Week	RMS
Week Label	AIP
WOS	AIP
WOS Label	AIP
WOY	AIP
WOY Label	AIP
UMC	AIP
UMC Label	AIP
Month	RMS
Month Label	AIP
MOY	AIP
MOY Label	AIP
Quarter	RMS
Quarter Label	AIP
Year	RMS
Year Label	AIP

> **Note:** See Chapter 7, "AIP Calendar Hierarchy" for a detailed file format of the calendar hierarchy.

Measure Data

Overview

AIP receives the following measure files from RMS:

Table 9–9   RMS Measure Files

#	File Name	Description	Source
1	dm0_pmsstasrc.txt	Store Promotional Substitution Start Date for Warehouse	RMS
2	dm0_pmsendsrc.txt	Store Promotional Substitution End Date for Warehouse	RMS
3	dmx_dscdt_.txt	Corporate Discontinuation Date	RMS

Table 9–9 (Cont.) RMS Measure Files

#	File Name	Description	Source
4	dmx_vadprdasc.txt	Value-Added Commodity Association	RMS
5	dmx_prdspllks.txt	Commodity-Supplier Links	RMS
6	dmx_bndprdasc.txt	Banded Item Association	RMS
7	dmx_dirspl.txt	Direct Suppliers	RMS
8	sr0_curinv_[1..n].txt	Store-on-hand inventory (used to be historical inv)	RMS
9	sr0_it_.txt	Store In-transits	RMS
10	sr0_oo_.txt	Store On-orders	RMS
11	sr0_prdlfe.txt	Store Product Life	RMS
12	wr1_curinv.txt	Current WH Inventory (on hand)	RMS
13	wr1_oo_.txt	Warehouse On-orders	RMS
14	wr1_it_.txt	Warehouse In-transits	RMS
15	wr1_aiw.txt	Warehouse Allocations in the Well	RMS
16	wr1_tiw.txt	Warehouse Transfers in the Well	RMS
17	wh_type.txt	Warehouse Type	RMS
18	sr0_dayslsld.txt	Daily Sales	RMS
19	received_qty.txt	RMS received quantity	RMS*
20	closed_order.txt	RMS closed orders	RMS*

> **Note:** The last two files, with an *, are files coming from RMS to AIP-Oracle and are *not* loaded into AIP-RPAS.

Note on File Formats

Two sets of file formats for the data listed in Table 9–9, " RMS Measure Files" follow in tables located in these sections:

Section	Description
"File Formats" on page 9-7	Describes the format the data have after the RMS-AIP Transformation scripts have completed. For more information about the RMS-AIP Transformation process, refer to the *Oracle Retail Advanced Inventory Planning Operations Guide*, Chapter 5, "AIP Interfaces and Transformation Scripts."
"File Format Including Mapping to AIP RPAS Measure Format" on page 9-12	Describes the mapping between the RMS-AIP Transformation output format and the RPAS measure format. AIP RPAS batch scripts contain logic to transform the data into the RPAS measure loadable format.

When moving an integration data source from RMS to a non-RMS external system, as described in Chapter 6, "AIP RPAS Configurations", it is assumed that the RMS-AIP Transformation process will not be run. Therefore, it is your responsibility to create the data files in the RPAS measure loadable format, as described in the second set of file format tables, "File Format Including Mapping to AIP RPAS Measure Format" on page 9-12. The **AIP Field**, **Start** and **Width** columns make up the RPAS measure loadable format.

File Formats

The Retail Extraction, Transformation, and Loading (RETL) tool provides AIP with the file formats listed in the following tables.

> **Note:** Customers who do not have RETL are required to provide files with these same formats.

Store Promotional Substitution Start Date for Warehouse Data

Table 9–10   File Name: dm0_pmsstasrc.txt

Field Name	Type	Start	Width	Source/Comments
Warehouse	String	1	20	RMS
RMS SKU (Promotional)	String	21	20	AIP will get the Store from store source measure.
Order Multiple	String	41	4	
Store Promotional Substitution Start Date	YYYYMMDD	45	8	

Store Promotional Substitution End Date for Warehouse Data

Table 9–11   File Name: dm0_pmsendsrc.txt

Field Name	Type	Start	Width	Source/Comments
Warehouse	String	1	20	RMS
RMS SKU (Promotional)	String	21	20	AIP will get the store value from the store source measure.
Order Multiple	String	41	4	
Store Promotional Substitution End Date	YYYYMMDD	45	8	

Corporate Discontinuation Date Data

Table 9–12   File Name: dmx_dscdt_.txt

Field Name	Type	Start	Width	Source/Comments
RMS SKU (Promotional)	String	1	20	RMS
Order Multiple	String	21	4	RMS sends today's date. AIP sets the ranging status at all supply locations to pending-deranged as well as initializes the stop-receiving-dates at all warehouses.
Corporate Discontinuation Date	YYYYMMDD	25	8	

Value-Added Commodity Association

Table 9–13   File Name: dmx_vadprdasc.txt

Field Name	Type	Start	Width	Source/Comments
RMS SKU (child)	String	1	20	RMS
Order Multiple	String	21	4	
RMS SKU (parent)	String	25	20	
Order Multiple	String	45	4	

Commodity-Supplier Links

Table 9–14   File Name: dmx_prdspllks.txt

Field Name	Type	Start	Width	Source/Comments
Supplier	String	1	20	RMS
RMS SKU	String	21	20	
Order Multiple	String	41	4	
SKU Supplier Links	Boolean	45	1	

Banded Item Association

Table 9–15   File Name: dmx_bndprdasc.txt

Field Name	Type	Start	Width	Source/Comments
RMS SKU (child)	String	1	20	RMS
Order Multiple	String	21	4	
RMS SKU (parent)	String	25	20	
Order Multiple	String	45	4	

Direct Suppliers

Table 9–16   File Name: dmx_dirspl.txt

Field Name	Type	Start	Width	Source/Comments
Supplier	String	1	20	RMS
Direct Supplier	Boolean	21	1	

Store Current Inventory Data

Table 9–17   File Name: sr0_curinv_[1..n].txt

Field Name	Type	Start	Width	Source/Comments
Store	String	1	20	RMS
RMS SKU	String	21	20	Order Multiple value is always one (1).
Store current inventory	Float	41	8	

> **Note:** RMS can also send the Store Current Inventory file in partitions. For example, AIP interface code can handle `sr0_curinv_[1..n].txt` where n is the partition number. The data will always arrive from RMS RETL extract with at least one partition, namely, `sr0_curinv_1.txt`.

Store In-transits Data

Table 9–18   File Name: sr0_it_.txt

Field Name	Type	Start	Width	Source/Comments
Day	DYYYYMMDD	1	9	RMS
Store	String	10	20	
RMS SKU	String	30	20	
Order Multiple	String	50	4	
Store In-transits	Float	54	8	

Store On-orders Data

Table 9–19   File Name: sr0_oo_.txt

Field Name	Type	Start	Width	Source/Comments
Day	DYYYYMMDD	1	9	RMS
Store	String	10	20	RMS will send today's date with sum of all previous number of days values.
RMS SKU	String	30	20	
Order Multiple	String	50	4	
Store On-orders	Float	54	8	

Store Product Life Data

Table 9–20   File Name: sr0_prdlfe.txt

Field Name	Type	Start	Width	Source/Comments
Day	DYYYYMMDD	1	9	RMS
RMS SKU	String	10	20	
Order Multiple	String	30	4	
Store Product Life	Float	34	8	

Current Warehouse Inventory Data

Table 9–21   File Name: wr1_curinv.txt

Field Name	Type	Start	Width	Source/Comments
Warehouse	String	1	20	RMS
RMS SKU	String	21	20	
Order Multiple	String	41	4	
Current Warehouse Inventory	Float	45	8	

On-orders Data

Table 9–22   File Name: wr1_oo_.txt

Field Name	Type	Start	Width	Source/Comments
Day	DYYYYMMDD	1	9	RMS
Supplier	String	10	20	RMS will send today's date with sum of all previous number of days values.
Warehouse	String	30	20	
RMS SKU	String	50	20	
Order Multiple	String	70	4	
On-orders	Float	74	8	

In-transit Data

Table 9–23   File Name: wr1_it_.txt

Field Name	Type	Start	Width	Source/Comments
Day	DYYYYMMDD	1	9	RMS
Supplier	String	10	20	
Warehouse	String	30	20	
RMS SKU	String	50	20	
Order Multiple	String	70	4	
In-transit	Float	74	8	

Allocations in the Well Data

Table 9–24   File Name: wr1_aiw.txt

Field Name	Type	Start	Width	Source/Comments
Day	DYYYYMMDD	1	9	RMS
Warehouse	String	10	20	RMS sends today's date with the sum of all previous number of days values.
RMS SKU	String	30	20	
Order Multiple	String	50	4	
Allocations in the Well	Float	54	8	

Transfers in the Well Data

Table 9–25   File Name: wr1_tiw.txt

Field Name	Type	Start	Width	Source/Comments
Day	DYYYYMMDD	1	9	RMS
Warehouse	String	10	20	RMS sends today's date with the sum of all previous number of days values.
RMS SKU	String	30	20	
Order Multiple	String	50	4	
Transfers in the Well	Float	54	8	

Daily Sales Data

Table 9–26   File Name: sr0_dayslsld

Field Name	Type	Start	Width	Source/Comments
Day	DYYYYMMDD	1	9	RMS
Store	String	10	20	
RMS SKU	String	30	20	
Daily Sales	Float	50	8	

RMS Received Quantity Data

Table 9–27   File Name: received_qty.txt

Field Name	Type	Start	Width	Source/Comments
Order Number	Integer	1	10	RMS
Order Type	String	11	1	
RMS SKU	String	12	25	
Order Multiple	Integer	37	8	
Pack Quantity	Integer	45	8	
Store	Integer	53	10	
Warehouse	Integer	63	10	
Received Date	Date	73	8	
Quantity	Integer	81	8	

RMS Closed Orders Data

Table 9–28   File Name: closed_order.txt

Field Name	Type	Start	Width	Source/Comments
Order Number	Integer	1	10	RMS
Order Type	String	11	1	

File Format Including Mapping to AIP RPAS Measure Format

Store Promotional Substitution Start Date for Warehouse Data

Table 9–29   File Name: dm0_pmsstasrc.txt

RMS Field	Start	Width	AIP Field	Start	Width
Warehouse	1	20	Store	1	20
RMS SKU	21	20	Warehouse	21	20
Order Multiple	41	4	SKU	41	20
Store Promo Subs Start Date	45	8	Store Promo Subs Start Date	61	8

Store Promotional Substitution End Date for Warehouse Data

Table 9–30   File Name: dm0_pmsendsrc.txt

RMS Field	Start	Width	AIP Field	Start	Width
Warehouse	1	20	Store	1	20
RMS SKU	21	20	Warehouse	21	20
Order Multiple	41	4	SKU	41	20
Store Promo. Subs. Date	45	8	Store Promo. Subs. Date	61	8

Corporate Discontinuation Date Data

Table 9–31   File Name: dmx_dscdt_.txt

RMS Field	Start	Width	AIP Field	Start	Width
RMS SKU	1	20	Commodity-Pack Size	1	20
Order Multiple	21	4			
Corp Disc. date	25	8	Corp. Disc. Date	21	8

Value-Added Association

Table 9–32   File Name: dmx_vadprdasc.txt

RMS Field	Start	Width	AIP Field	Start	Width
RMS SKU (child)	1	20	SKU (child)		20
Order Multiple	21	4			
RMS SKU (parent)	25	20	SKU (parent)	21	24
Order Multiple	45	4			

Commodity Supplier Links

Table 9–33   File Name: dmx_prdspllks.txt

RMS Field	Start	Width	AIP Field	Start	Width
Supplier	1	20	Supplier	1	20
RMS SKU	21	20	Commodity-Pack Size	21	20
Order Multiple	41	4			
SKU Supplier Links	45	1	Commodity-Supplier Links	41	1

Banded Item Association

Table 9–34   File Name: dmx_bndprdasc.txt

RMS Field	Start	Width	AIP Field	Start	Width
RMS SKU (child)	1	20	SKU (child)	1	20
Order Multiple	21	4			
RMS SKU (parent)	25	20	SKU (parent)	21	24
Order Multiple	45	4			

Direct Suppliers

Table 9–35   File Name: dmx_dirspl.txt

RMS Field	Start	Width	AIP Field	Start	Width
Supplier	1	20	Supplier	1	20
Direct Supplier	21	1	Direct Supplier	21	1

Store Current Inventory Data

Table 9–36   File Name: sr0_curinv_[1..n].txt

RMS Field	Start	Width	AIP Field	Start	Width
Store	1	20	Store	1	20
RMS SKU	21	20		21	20
Store current inventory	41	8	Store Current Inventory	41	8

Store In-transit Data

Table 9–37   File Name: sr0_it_.txt

RMS Field	Start	Width	AIP Field	Start	Width
Day	1	9	Day	1	9
Store	10	20	Store	10	20
RMS SKU	30	20	SKU	30	20
Order Multiple	50	4			
Store In-transits	54	8	Store Intransits	50	8

Store On-orders Data

Table 9–38   File Name: sr0_oo_.txt

RMS Field	Start	Width	AIP Field	Start	Width
Day	1	9	Day	1	9
Store	10	20	Store	10	20
RMS SKU	30	20	SKU	30	20
Order Multiple	50	4			
Store Orders	54	8	Store Orders	50	8

Store Product Life Data

Table 9–39   File Name: sr0_prdlfe.txt

RMS Field	Start	Width	AIP Field	Start	Width
Day	1	9	Day	1	9
RMS SKU	10	20	SKU	10	20
Order Multiple	30	4			
Store Product Life	34	8	Store Product Life	30	8

Current Warehouse Inventory Data

Table 9–40   File Name: wr1_curinv.txt

RMS Field	Start	Width	AIP Field	Start	Width
Warehouse	1	20	Warehouse	1	20
RMS SKU	21	20	Commodity-Pack Size	21	20
Order Multiple	41	4			
Current Warehouse Inventory	45	8	Current Warehouse Inventory	41	8

On-orders Data

Table 9–41   File Name: wr1_oo_.txt

RMS Field	Start	Width	AIP Field	Start	Width
Day	1	9	Day	1	9
Supplier	10	20	Supplier	10	20
Warehouse	30	20	Warehouse	30	20
RMS SKU	50	20	Commodity-Pack Size	50	20
Order Multiple	70	4			
On-orders	74	8	On-orders	70	8

In-transit Data

Table 9–42   File Name: wr1_it_.txt

RMS Field	Start	Width	AIP Field	Start	Width
Day	1	9	Day	1	9
Supplier	10	20	Supplier	10	20
Warehouse	30	20	Warehouse	30	20
RMS SKU	50	20	Commodity-Pack Size	50	20
Order Multiple	70	4			
In-transit	74	8	In-transit	70	8

Allocations in the Well Data

Table 9–43   File Name: wr1_aiw.txt

RMS Field	Start	Width	AIP Field	Start	Width
Day	1	9	Day	1	9
Warehouse	10	20	Warehouse	10	20
RMS SKU	30	20	Commodity-Pack Size	30	20
Order Multiple	50	4			
Allocations in the Well	54	8	Allocations in the Well	50	8

Transfers in the Well Data

Table 9–44   File Name: wr1_tiw.txt

RMS Field	Start	Width	AIP Field	Start	Width
Day	1	9	Day	1	9
Warehouse	10	20	Warehouse	10	20
RMS SKU	30	20	Commodity-Pack Size	30	20
Order Multiple	50	4			
Transfers in the Well	54	8	Transfers in the Well	50	8

Daily Sales Data

Table 9–45   File Name: sr0_dayslsld

RMS Field	Start	Width	AIP Field	Start	Width
Day	1	9	Day	1	9
Store	10	20	Store	10	20
RMS SKU	30	20	SKU	30	20
Daily Sales	50	8	Daily Sales	50	8

RMS RETL Extract and RMS-AIP Transformation Overview

AIP requires that the following text files must be processed from an external merchandising system:

- Closed POs
- Item Sale
- Item Supplier
- Location Mapping
- Received Qty
- Store Current Inv
- Store Product Life
- Substitute Items
- Supplier
- Warehouse Current Inv
- Warehouse
- Item
- Calendar
- Daily Sales

The *Oracle Retail Merchandising Batch Schedule,* and *Oracle Retail Merchandising System Operations Guide, Volume 1 - Batch Overviews and Designs*, detail the RMS RETL Extract scripts used to extract the data from various tables in RMS. These extracts are processed by the RMS-AIP Transformation scripts to generate the data.

Mapping Overview

Some of the data RMS RETL Extracts generate require transformation by an RMS-AIP Transform Script. The RMS RETL Extracts and the RMS-AIP Transform Scripts that transform them are listed in Table 9–46. Some of these RMS RETL Extracts are input to multiple transform scripts to create different AIP input files. All of the transformations are for data files that are loaded into AIP-RPAS.

> **Note:** The RMS-AIP Transform Scripts and RMS RETL Extracts listed in Table 9–46 correspond to the names of the files for RMS 13.0/13.1 integration. These names will differ for other versions of RMS. Refer to the *Oracle Retail Advanced Inventory Planning Operations Guide*, chapter on "AIP Interfaces and Transformation Scripts," for details.

Table 9–46   RMS 13.0/13.1 RETL Extracts

AIP-RPAS Required File	RMS-AIP Transform Script	RMS RETL Extracts
clnd.csv.dat	aipt_clnd.ksh	date_format_preference.txt
		last_day_of_week.txt
		rmse_rpas_clndmstr.dat
dm0_pmsendsrc.txt	aipt_sub_items_rms13.ksh	rmse_aip_item_master.dat
dm0_pmsstasrc.txt		rmse_aip_item_supp_country.dat
dmx_vadprdasc.txt		rmse_aip_substitute_items.dat
dmx_dscdt_.txt	aipt_item_rms13.ksh	dmx_bndprdasc.txt
item.txt		rmse_aip_item_master.dat
		rmse_aip_item_retail.dat
		rmse_aip_item_supp_country.dat
		rmse_aip_merchhier.dat
		rmse_aip_purged_item.dat
loc.txt	aipt_orghier_rms13.ksh	rmse_aip_orghier.dat
		rmse_aip_store.dat
sr0_dayslsld.txt	aipt_sr0_dayslsld_rms13.ksh	rmse_rpas_daily_sales.dat
sr0_it_.txt	aipt_future_delivery_rms13.ksh	rmse_aip_alloc_in_well.dat
sr0_oo_.txt		rmse_aip_future_delivery_alloc.dat
wr1_aiw.txt		rmse_aip_future_delivery_order.dat
wr1_it_.txt		
wr1_oo_.txt		rmse_aip_future_delivery_tsf.dat
wr1_tiw.txt		rmse_aip_store.dat
		rmse_aip_tsf_in_well.dat
		rmse_aip_wh.dat
		rmse_aip_wh.txt
sr0_prdlfe.txt	aipt_str_prd_life_rms13.ksh	rmse_aip_item_loc_traits.dat
		rmse_aip_item_master.dat
		rmse_aip_store.dat
		rmse_aip_item_supp_country.dat
whse.txt	aipt_rename.ksh	rmse_aip_wh.txt
wh_type.txt	aipt_rename.ksh	rmse_aip_wh_type.txt

RMS-AIP Transform Scripts

The RMS-AIP Transform Scripts reside in `$RPAS_HOME/bin` directory. In addition to the required RMS RETL Extract files for input, the RMS-AIP Transform scripts depend on two sets of file format schemas. The input schemas match the RMS RETL Extracts and are bundled with RMS installation. The outputs schemas match the AIP-RPAS Required Files and are bundled with the AIP installation.

Some of the data are extracted from RMS in the format required by AIP. These do not require transformation by the RMS-AIP Transformation scripts.

- `closed_order.txt`

- `dmx_dirspl.txt`

- `dmx_prdspllks.txt`

- `received_qty.txt`

- `splr.txt`

- `sr0_curinv_[1..n].txt`

- `wr1_curinv.txt`

Some of the data extracted by the RMS RETL Extract Scripts are not used by AIP. These extracts are:

- `dm0_ofseffdt_.txt`

- `dm0_onseffdt_.txt`

- `rmse_aip_item_supp_country_reject_ord_mult.txt`

- `rmse_aip_suppliers.dat`

> **Note:** This release of AIP cannot load the on sale/off sale files, `dm0_onseffdt_.txt` and `dm0_ofseffdt_.txt`, that RMS RETL Extract scripts produce. These files are considered to be coming from an external system. The customer can create a custom transformation in order to load these files into AIP. This transformation should drop the order multiple field and only retain the single unique on-sale date and off-sale date for the SKU/Store. This script needs to place the file in the external files inbound directory.

Technical Details of Load Process

For technical details of the processing and loading of the merchandising system hierarchy and measure data, refer to the *Oracle Retail Advanced Inventory Planning Operations Guide*.

10

RMS Intraday Integration and Data Mapping

This chapter describes the measure data related to Intraday integration.

Measure Data

Table 10–1 lists Intraday measure files that AIP receives from RMS. The formats of these files are same as those of the overnight measure files and are listed in Table 10–1.

Refer to Chapter 9, "RMS Integration and Data Mapping" for the detailed formats of the matching overnight measure files:

Table 10–1   RMS Intraday Measure File

#	File Name	Description	Same Format as...	Source
1	idstrcurinvi.txt	Intraday Loaded Store Current Inventory Data	sr0_curinv_[1..n].txt	RMS
2	idstriti.txt	Intraday Store In-transits Data	sr0_it_.txt	RMS
3	idstrooi.txt	Intraday Store On-orders Data	sr0_oo_.txt	RMS
4	idwhcurinvi.txt	Intraday Loaded Warehouse Current Inventory Data	wr1_curinv.txt	RMS
5	idwhiti.txt	Intraday Warehouse In-transit Data	wr1_it_.txt	RMS
6	idwhooi.txt	Intraday Warehouse On-orders Data	wr1_oo_.txt	RMS
7	idaiwi.txt	Intraday WH Allocations in the Well Data	wr1_aiw.txt	RMS
8	idtiwi.txt	Intraday WH Transfers in the Well Data	wr1_tiw.txt	RMS
9	iddayslsi.txt	Intraday Loaded Daily Sales Data	sr0_dayslsld.txt	RMS

11

RDF Integration

This chapter details the integration between AIP and the Oracle Retail Demand Forecasting (RDF) system.

RDF to AIP Data

AIP receives only measure data from RDF.

Measure Data

AIP receives the following measure files from RDF:

	File Name	Description	Source
1	iprdfdtdaltv.txt	RDF Detail Alert	RDF
2	sr0_rdfdtdmsk.txt	RDF Detail Alert Mask	RDF
3	sr0_rdfdtdcnt.txt	RDF Detail Alert Count	RDF
4	sr0_fcterrlvl1.txti	Daily Store Forecast Standard Deviation	RDF
5	sr0_fcterrlvl2.txt	Weekly Store Forecast Standard Deviation	RDF
6	isr0_frclvl1_[1..n].txt	Daily Store Demand Forecast	RDF
7	sr0_frclvl2.txt	Weekly Store Demand Forecast	RDF

Note on File Formats

AIP requires that the file formats of the data files corresponding to the RDF exports have the file formats listed in the following tables.

Technical Details of Load Process

For technical details of the processing and loading of the forecasting system measure data, refer to the *Oracle Retail Advanced Inventory Planning Operations Guide*.

iprdfdtdaltv.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	RDF Detail Alert	Contains destination stocking point, SKU, and RDF Detail Alert flag.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File	Target Object Name	iprdfdtdaltv
Source Object Name	iprdfdtdaltv.txt	Target Object Database	data/rdfdtdalt
Required/Optional	Optional	Target Object Load Intersection	dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
Value	RDF Detail Alert	41	1

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Dstk	Destination Stocking Point	String	"S303 "
SKU	SKU	Integer	"100048001 "
Value	RDF Detail Alert	Boolean	"1" NaVal= false

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

> **Note:** The RDF extract will only contain stores even though AIP reads the store into the destination stocking point dimension that can hold warehouses, stores, or suppliers.

Example of iprdfdtdaltv.txt extract file format:

```
S303            100048001          1
S303            100049004          1
```

sr0_rdfdtdmsk.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	RDF Detail Alert Mask	Contains Store, SKU, and RDF Detail Alert Mask flag.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File	Target Object Name	sr0_rdfdtdmsk
Source Object Name	sr0_rdfdtdmsk.txt	Target Object Database	data/sr0_rdfdtdmsk
Required/Optional	Optional	Target Object Load Intersection	str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
Value	RDF Detail Alert Mask	41	1

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S441090 "
SKU	SKU	Integer	"100048001"
Value	RDF Detail Alert Mask	Boolean	"1" NaVal= false

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_rdfdtdmsk.txt extract file format:

```
S441090            100048001            1
S402               100048001            1
```

sr0_rdfdtdcnt.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	RDF Detail Alert Count	Numeric measure at SKU/store containing the number of alert hits in the RDF Alert.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File	Target Object Name	sr0_rdfdtdcnt
Source Object Name	sr0_rdfdtdcnt.txt	Target Object Database	data/sr0_rdfdtdcnt
Required/Optional	Optional	Target Object Load Intersection	str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
Value	RDF Detail Alert Count	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S303 "
SKU	SKU	String	"118525 "
Value	RDF Detail Alert Count	Integer	"5 " NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_rdfdtdcnt.txt extract file format:

```
S303                118525                5
```

sr0_fcterrlvl1.txti

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Daily Store Forecast Standard Deviation	Contains Store, SKU, and Store Forecast Standard Deviation values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure

Data Source Details		Target Data Details	
Source Object Type	Fixed Length Text File	Target Object Name	sr0_fcterrlvl1
Source Object Name	sr0_fcterrlvl1.txt	Target Object Database	data/sr0_fcterrlvl1
Required/Optiona	Optional	Target Object Load Intersection	str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
Value	Daily Store Forecast Standard Deviation	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S441090 "
SKU	SKU	Integer	"100076002 "
Value	Daily Store Forecast Standard Deviation	Real	"1.000000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_fcterrlvl1.txti extract file format:

```
S441090             100048001             1.000000
```

sr0_fcterrlvl2.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Weekly Store Forecast Standard Deviation	Contains Store, SKU, and Store Forecast Standard Deviation values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File	Target Object Name	sr0_fcterrlvl2
Source Object Name	sr0_fcterrlvl2.txt	Target Object Database	data/sr0_fcterrlvl2
Required/Optional	Optional	Target Object Load Intersection	sku_str_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
VALUE	Weekly Store Forecast Standard Deviation	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S441090 "
SKU	SKU	Integer	"100076002 "
VALUE	Weekly Store Forecast Standard Deviation	Real	"1.000000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of sr0_fcterrlvl2.txt extract file format:

```
S441090            100048001            1.000000
```

isr0_frclvl1_*[1..n]*.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Daily Store Demand Forecast	Contains Day, Store, SKU, and Daily Store Demand Forecast values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File	Target Object Name	sr0_frclvl1
Source Object Name	sr0_frclvl1_[1..n].txt	Target Object Database	data/sr0_frclvl1
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
VALUE	Daily Store Demand Forecast	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060420"
STR	Store	String	"S411 "
SKU	SKU	Integer	"100049004 "
VALUE	Daily Store Demand Forecast	Real	"1000 " NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Day	D
Stores	S

> **Note:** Although the intersection is at day, AIP is expecting the entire forecast for the week to be on one day of that week. RDF places the week's forecast on the last day of the week.

Example of isr0_frclvl1_[1..n].txt extract file format:

```
D20060420S411                    100049004              1000
```

> **Note:** The client can partition this data file for space or size considerations. For example:
>
> ```
> sr0_frclvl1_1.txt
> sr0_frclvl1_2.txt
> sr0_frclvl1_3.txt
> ```

sr0_frclvl2.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Weekly Store Demand Forecast	Contains Day, Store, SKU, and Weekly Store Demand Forecast.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File	Target Object Name	sr0_frclvl2
Source Object Name	sr0_frclvl2_[1..n].txt	Target Object Database	data/sr0_frclvl2
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Weekly Store Demand Forecast	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
STR	Store	String	"S411 "
SKU	SKU	Integer	"100044001 "
Value	Weekly Store Demand Forecast	Real	"1000 " NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Day	D
Stores	S

Example of sr0_frclvl2.txt extract file format:

```
D20060401              100044001          1000
```

> **Note:** You can partition this data file for space or size considerations. For example:
>
> `sr0_frclvl2_1.txt`
>
> `sr0_frclvl2_2.txt`
>
> `sr0_frclvl2_3.txt`

12

External System Integration

This chapter describes the hierarchy and measure data accepted into AIP.

External System to AIP Data

External System data is data that AIP is able to load but that is not provided to AIP by any available extract. There are two types of external data that are accepted as inputs into AIP:

- Hierarchy data
- Measure data

Hierarchy Data

The following table lists the hierarchy files that AIP receives from External System.

#	File Name	Description	Source
1	had.txt	Ad Hierarchy	External
2	intv.txt	Interval Hierarchy	External

Measure Data

Table 12–1 lists the measure files that AIP receives from External System.

> **Note:** Files with * are coming from External System to AIP-Oracle and are NOT loaded into AIP-RPAS; files with ** are coming from External System to AIP-Oracle and are also loaded into AIP-RPAS.

Table 12–1 Measure FIles that AIP Receives from External System

File Name	Description	Source
default_wh.txt	Default Warehouse	External**
direct_store_format_pack_size.txt	Direct Store Format Pack Size	External*
direct_store_pack_size.txt	Direct Store Pack Size	External*
dm0_ofseffdt_.txt	Off-Sale Effective Date	External
dm0_onseffdt_.txt	On-Sale Effective Date	External
dmx_pcktyp.txt	Pack Type	External*
dmx_pprsts.txt	Pre-Priced Status	External

Table 12–1   (Cont.) Measure FIles that AIP Receives from External System

File Name	Description	Source
dmx_shpto_.txt	Receiving Supplier / Ship-to	External
ipadrltntsi.txt	Ad/Rollout Notes	External
ipadendi.txt	Store Ad End Date	External
ipadstai.txt	Store Ad Start Date	External
ipavgrtslsi.txt	Total Store Average Rate-of-Sales	External
ipcmtmtdinit.txt	SPQ Commitment Type Exception	External
ipfctwkprfd.txt	Week-to-Day Forecast Percentage Default	External
ipfctwkprfe.txt	Store Week-to-Day Forecast Percentage Override	External
IpIbCpcCO.txt	Inbound Capacity Cases for Reporting	External
iphldbckqtyi.txt	Hold Back Quantity	External
ipldssi.txt	Loaded Safety Stock	External
IpObCpcCO.txt	Outbound Capacity Cases for Reporting	External
ipodcmti.txt	SPQ Order Commit Quantity	External
iprplstcdi.txt	Replenishment Subtype Code	External
iprpltcdi.txt	Replenishment Type Code	External
ipslsi.txt	Historical Weekly Sales	External
ipttlhlstki.txt	Total Held Stock	External
ipwhhldcpci.txt	Stocking Point Holding Capacity	External
item_attribute.txt	Item Attribute	External*
item_attribute_type.txt	Item Attribute Type	External*
rmse_order_purge.dat	Available Purchase Order Number	External*
sister_store.txt	Sister Store	External**
sister_wh.txt	Sister Warehouse	External**
sr0_ad_.txt	Store Ads	External
sr0_ad_go_.txt	Store Ads Grand Opening	External
sr0_ad_irt.txt	Store Ads Inserts	External
sr0_ad_oth.txt	Store Ads Others	External
sr0_ad_rop.txt	Store Ads Run On Press	External
sr0_adjsls.txt	Store Adjusted Sales	External
sr0_avgrosld_.txt	Store Average Weekly Rate-of-Sale Loaded	External
sr0_co_.txt	Store Customer Orders	External
sr0_dyscsls.txt	Daily Short Code Sales	External
sr0_expwrtoff.txt	Store Expected Write-off	External
sr0_hstls_.txt	Store Historical Lost Sales	External
sr0_invadj.txt	Inventory Adjustments	External
sr0_knowndemand.txt	Store Known Demand	External
sr0_rplcde.txt	Store Replenishment Type Code	External
sr0_rplsubcde.txt	Store Replenishment Subtype Code	External
sr0_ss_ld_.txt	Store Loaded Safety Stock	External

Table 12–1   (Cont.) Measure FIles that AIP Receives from External System

File Name	Description	Source
sr0_tdgday.txt	Store Trading Days	External
sr0_wkbsf_ld.txt	Loaded Weekly Base Sales Forecast	External
sr0_wstadj.txt	Waste Adjustments	External
srx_poidst.txt	SRP Poisson Distribution Lookup	External
srx_prdrpr.txt	SKU Retail Price	External
store_format_pack_size.txt	Store Format Pack Size	External*
store_pack_size.txt	Store Pack Size	External*
sku_cost.dat	SKU Cost	External*
sku_weight_volume.dat	SKU Weight and Volume	External*

had.txt

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Advertisement Hierarchy	Contains Ad and Ad description.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	had.txt
Source Object Name	had.txt	Target Object Database	Global
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Ad	Ad	1	20
Ad Label	Ad Description	21	120

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Ad	Ad	String	"A23456789100ABCDE00Q"
Ad Label	Ad Description	String	"NEW ADVERTISEMENT BB " NaVal = ''

Formatting Conditions

None.

Example of had.txt extract file format:

```
A23456789100ABCDE00QNEW ADVERTISEMENT A
B23456789100ABCDE00QNEW ADVERTISEMENT BB
```

intv.txt

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Interval Hierarchy	Contains Interval Code and description.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	intv.txt
Source Object Name	intv.txt	Target Object Database	Global
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Interval	Interval	1	20
Interval Description	Interval Description	21	40

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
INT	Interval Code	String	"A23456789100ABCDE00Q"
INT-Label	Interval Description	String	"NEW INTERVAL AA " NaVal = ''

Formatting Conditions

None.

Example of intv.txt extract file format:

```
A23456789100ABCDE00QNEW INTERVAL
B23456789100ABCDE00QNEW INTERVAL      BB
```

default_wh.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Default Warehouses	Contains Store, default warehouse, and default warehouse CSC.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measures and Oracle Data Point
Source Object Type	Fixed-length Text File	Target Object Name	dmx_defwh_ & dmx_defwh_csc & Warehouse Type
Source Object Name	default_wh.txt	Target Object Database	data/dmx_defwh_ & data/dmx_defwh_csc & Oracle Database
Required/Optional	Optional	Target Object Load Intersection	str_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
VALUE 1	Default Warehouse	21	20
VALUE 2	Default Warehouse Customer Service Center	41	20

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S348 "
Value 1	Default Warehouse	String	"W1090 " NaVal = ''
Value 2	Default Warehouse Customer Service Center	String	"W1090 " NaVal = ''

Formatting Conditions

Value	Prefix (Case Sensitive)
Warehouses	W
Stores	S

Example of default_wh.txt extract file format:

```
S348          W1090          W109
S402          W1105          W1150
```

Load Notes

AIP RPAS batch processes split this data file into two flat files that are loaded into two AIP RPAS measures. Then the original file is packaged for transfer to and load by AIP Oracle batch processes.

direct_store_format_pack_size.txt

Data Element Details

Data Type	Data Element Name	Data Description
N/A This information is not loaded into an RPAS measure. It is loaded into an Oracle table only.	Direct Store Format Pack Size	Contains the pack size that should be ordered when the store is ordering the SKU from the Direct Supplier.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Oracle Data point
Source Object Type	Fixed-length Text File	Target Object Name	Direct Store Format Pack Size
Source Object Name	direct_store_format_pack_size.txt	Target Object Database	Oracle DB
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Store Format Code	Store Format	1	20
Commodity Code	AIP SKU	21	20
Pack Size	Pack Size	41	4
Supplier Code	Supplier	45	20
Start Date	Start Date	65	8
End Date	End Date	73	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Store Format Code	Store Format	String	"1 "
Commodity Code	AIP SKU	String	"100053003 "
Pack Size	Pack Size	Integer	"36 "
Supplier Code	Supplier	String	"V505 "
Start Date	Start Date	String	"20050101"
End Date	End Date	String	"20051201"

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V

Example of direct_store_format_pack_size.txt file format:

```
1               100053003       36  V505                    2005010120051201
```

direct_store_pack_size.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Direct Store Pack Size	Contains Store, Commodity Code, Pack Size, Supplier, Start and End dates.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Oracle Data Point
Source Object Type	Fixed-length Text File	Target Object Name	Direct Store Pack Size
Source Object Name	direct_store_pack_size.txt	Target Object Database	Oracle Database
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Store Code	Store	1	20
Commodity Code	AIP SKU	21	20
Pack Size	Pack Size	41	4
Supplier Code	Supplier	45	20
Start Date	Start Date	65	8
End Date	End Date	73	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S303 "
Commodity Code	AIP SKU	String	"100053003 "
Pack Size	Pack Size	Integer	"36 "
Supplier Code	Supplier	String	"V505 "
Start Date	Start Date	String	"20050101"

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
End Date	End Date	String	"20051201"

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Stores	S

Example of direct_store_pack_size.txt file format:

```
S303                  100053003           1  V505              2005010120051201
```

dm0_ofseffdt_.txt

A custom transformation must be created to properly format this file before it can be loaded. The transformation should drop the Order multiple and only retain the single unique on-sale date and off-sale date for the SKU/Store.

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Off-sale Dates	Contains Store, SKU, Order Multiple, and Off-sale Dates.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Tables/Files	Fixed-length Text File	Target Object Name	Off-sale Effective Date
Source Object Name	dm0_ofseffdt_.txt	Target Object Database	data/dm0_ofseffdt_
Required/Optional	Required	Target Object Load Intersection	str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
RMS_SKU	RMS SKU	21	20

Source Fields	Source Field Description	Field Start Position	Field Width
ORDM	Order Multiple	41	4
Value	Off-sale Effective Date	45	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
SKU	SKU	String	"100048001 "
SKU	SKU	String	"100048001 "
Value	Off-sale Effective Date	Date	YYYYMMDD

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of dm0_ofseffdt_.txt file format:

```
S303                100072001           20070101
S309                100072001           20070101
S348                100072001           20070101
S402                100072001           2007010
S411                100072001           20070101
```

dm0_onseffdt_.txt

A custom transformation must be created to properly format this file before it can be loaded. The transformation should drop the Order multiple and only retain the single unique on-sale date and off-sale date for the SKU/Store.

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item On-sale Dates	Contains Store, SKU, Order Multiple, and On-sale Dates.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure

Data Source Details		Target Data Details	
Source Object Type	Fix Length Text File	Target Object Name	On-sale Effective Date
Source Object Name	dm0_onseffdt_.txt	Target Object Database	data/dm0_onseffdt_
Required/Optional	Required	Target Object Load Intersection	str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
RMS_SKU	RMS SKU	21	20
ORDM	Order Multiple	41	4
Value	On-sale Effective Date	45	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
SKU	SKU	String	"100048001 "
SKU	SKU	String	"100048001 "
Value	On-sale Effective Date	Date	YYYYMMDD

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of dm0_onseffdt_.txt file format:

```
S303              100072001          20050101
S309              100072001          20050101
S348              100072001          20050101
S402              100072001          20050101
S411              100072001          20050101
```

dmx_pcktyp.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Pack Type	Contains SKU Pack Size and Pack Type.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	dmx_pcktyp
Source Object Name	dmx_pcktyp.txt	Target Object Database	data/dmx_pcktyp
Required/Optional	Optional	Target Object Load Intersection	skps

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
SKPS	SKU Pack Size	1	20
VALUE	Pack Type	21	24

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
SKPS	SKU Pack Size	String	"100033002_1 "
Value	Pack Type	String	"CASE " NaVal = ''

Formatting Conditions

Even though the width of the value field is 24, only 6 characters can be utilized by this field. The export of this data to AIP-Oracle contains only 6 characters of values.

Example of dmx_pcktyp.txt file format:

```
100033002_1         EACH
100033002_4         CASE
```

dmx_pprsts.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Pre-Priced Status	Contains SKU Pack Size and Pre-price status.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	dmx_pprsts
Source Object Name	dmx_pprsts.txt	Target Object Database	data/dmbase
Required/Optional	Optional	Target Object Load Intersection	skps

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
SKPS	SKU Pack Size	1	20
VALUE	Pre-Priced Status	21	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
SKPS	SKU Pack Size	String	"100033002_1 "
Value	Pre-Priced Status	Integer	"12 " NaVal = 0

Formatting Conditions

None.

Example of dmx_pprsts.txt extract file format:

```
100033002_1        12
100033002_4        15
```

dmx_shpto_.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Receiving Supplier / Ship-to	Contains Supplier and Ship-to values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	dmx_shpto_
Source Object Name	dmx_shpto_.txt	Target Object Database	data/dmx_shpto_
Required/Optional	Required	Target Object Load Intersection	splr

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Supplier	Supplier	1	20
Value	Ship-to	21	24

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Supplier	SPLR Dimension	String	"V166 "
Ship-to	Ship-to Code	String	"XD_GS " NaVal = ''

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Even though the width of the value field is 24, only 6 characters can be utilized by this field. The export of this data to AIP-Oracle contains only 6 characters of values.

Example of dmx_shpto_.txt extract file format:

```
V166              CS_RG
V505              XD_GS
```

ipadrltntsi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Ad/Rollout Notes	Simple Parameter

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipadrltntsi
Source Object Name	ipadrltntsi.txt	Target Object Database	data/adrltnts
Required/Optional	Optional	Target Object Load Intersection	week_skug

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
WEEK	Week	1	8
SKUG	SKU Group	9	20
VALUE	Ad/Rollout Notes	29	24

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Week	Week	String	"W44_2006"
SKUG	SKU Group	String	"100117118A "
Value	Ad/Rollout Notes	String	"Example Notes " NaVal = ''

Formatting Conditions

Value	Prefix (Case Sensitive)
Weeks	W

Example of ipadrltntsi.txt extract file format:

```
W44_2006100117118A        Example Notes
```

ipadendi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Ad End Date	Defines the end date of a Store Ad

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	N/A

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipadendi
Source Object Name	ipadendi.txt	Target Object Database	data/ad
Required/Optional	Optional	Target Object Load Intersection	ad

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
AD	Advertisement	1	20
Value	Store Ad End Date	21	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Ad	AD Dimension	String	"201CU50505 "
Value	Store Ad End Date	Date	"20060225"

Formatting Conditions

None.

Example of ipadendi.txt extract file format:

```
201CU50505        20060225
```

ipadstai.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Ad Start Date	Defines the start date of a Store Ad

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	N/A

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipadstai
Source Object Name	ipadstai.txt	Target Object Database	data/ad
Required/Optional	Optional	Target Object Load Intersection	ad

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
AD	Advertisement	1	20
VALUE	Store Ad Start Date	21	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
AD	Advertisement	String	"201CU50505 "
Value	Store Ad Start Date	Date	"20060225"

Formatting Conditions
None.

Example of ipadstai.txt extract file format:
```
201CU50505          20060225
```

ipavgrtslsi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Total Store Average Rate-of-Sales	Contains destination stocking point, SKU, and Subtype code.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipavgrtslsi
Source Object Name	ipavgrtslsi.txt	Target Object Database	data/avgrtsls
Required/Optional	Optional	Target Object Load Intersection	dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DSTK	Destination Stocking Point	1	20
SKU	SKU	21	20
Value	Total Store Average Rate-of-Sales	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DSTK	Destination Stocking Point	String	"W1090 "
SKU	SKU	Integer	"100048001 "
Value	Total Store Average Rate-of-Sales	Real	"123.5678" NaVal= -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipavgrtslsi.txt exact file format:

```
W1090               100048001        123.5678
```

ipcmtmtdinit.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Loaded SPQ Commitment Type Exception	Measure used to load the SPQ Commitment Type and update the exception level measure at skug/dstk/week.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipcmtmtdinit
Source Object Name	ipcmtmtdinit.txt	Target Object Database	data/cmtmtd
Required/Optional	Optional	Target Object Load Intersection	week_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
WEEK	Week	1	8
DSTK	Destination Stocking Point	9	20
SKU	SKU	29	20
VALUE	SPQ Commitment Type Exception	49	24

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Week	Week	String	"W25_2005"
DSTK	Destination Stocking Point	String	"S510 "
SKU	SKU	String	"100033002 "
Value	SPQ Commitment Type Exception	Integer	"1" NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S
Weeks	W

Example of ipcmtmtdinit.txt extract file format:

```
W25_2005S510                    100033002           1
```

ipfctwkprfd.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Week-to-Day Forecast Percentage Default	Contains day-of-week, chain, department, and Week-to-Day forecast percentage default values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipfctwkprfd
Source Object Name	ipfctwkprfd.txt	Target Object Database	data/ipfctwkprfd

Data Source Details		Target Data Details	
Required/Optional	Optional	Target Object Load Intersection	dow_chn_dept

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day-of-week	1	8
CHN	Chain	9	20
DEPT	Department	29	20
Value	Week-to-Day Forecast Percentage Default	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day-of-week	String	"MON "
CHN	Chain	String	"1 "
DEPT	Department	Integer	"5 "
Value	Week-to-Day Forecast Percentage Default	Real	"0.14 " NaVal = 0

Formatting Conditions

None.

Example of ipfctwkprfd.txt extract file format:

```
MON    1                    5                    0.14
TUE    1                    5                    0.14
```

ipfctwkprfe.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Week-to-Day Forecast Percentage Override (Un-Normalized)	Contains day, chain, subclass, and Week-to-Day forecast percentage override values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipfctwkprfe
Source Object Name	ipfctwkprfe.txt	Target Object Database	data/ipfctwkprfe
Required/Optional	Optional	Target Object Load Intersection	day_chn_scls

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
CHN	Chain	10	20
SCLS	Subclass	30	20
VALUE	Store Week-to-Day Forecast Percentage Override	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20090101"
CHN	Chain	String	"1 "
SCLS	Subclass	Integer	"5 "
VALUE	Store Week-to-Day Forecast Percentage Override	Real	"0.14 " NaVal = 0

Formatting Conditions

None.

Example of ipfctwkprfe.txt extract file format:

```
D200901011                    5                       0.14
D200901021                    5                       0.14
```

iphldbckqtyi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Hold Back Quantity	Contains day, destination stocking point, SKU, and Hold Back Quantity values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	iphldbckqtyi
Source Object Name	iphldbckqtyi.txt	Target Object Database	data/hldbckqty
Required/Optional	Optional	Target Object Load Intersection	day_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
SKU	SKU	30	20
VALUE	Hold Back Quantity	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050820"
DSTK	Destination Stocking Point	String	"W1090 "
SKU	SKU	Integer	"100048001 "
Value	Hold Back Quantity	Real	"280 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of iphldbckqtyi.txt extract file format:

```
D20050820W1090               100048001            280
```

IpIbCpcCO.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Inbound Capacity Cases for Reporting	Indicates the inbound capacity in cases at a warehouse. This value is used for reporting.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	IpIbCpcCO
Source Object Name	IpIbCpcCO.txt	Target Object Database	data/ibcpcc
Required/Optional	Optional	Target Object Load Intersection	day_wh

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
WH	Warehouse	10	20
Value	Inbound Capacity Cases Value	30	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
WH	Warehouse	String	"W1090 "
Value	Inbound Capacity Cases Value	Integer	"120 " NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of IplbCpcCO.txt extract file format:

```
D20060401W1090            120
```

ipldssi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Loaded Safety Stock	Contains destination stocking point, SKU, and Loaded safety stock values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipldssi
Source Object Name	ipldssi.txt	Target Object Database	data/ldss
Required/Optional	Optional	Target Object Load Intersection	dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DSTK	Destination Stocking Point	1	20
SKU	SKU	21	20
Value	Loaded Safety Stock Value	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DSTK	Destination Stocking Point	String	"W1090 "
SKU	SKU	Integer	"100048001 "
Value	Loaded Safety Stock Value	Real	"520.50000" NaVal =0

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipldssi.txt extract file format:

```
W1090             100048001          520.5000
W3066             100049004          520.5000
```

IpObCpcCO.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Outbound Capacity Cases	Indicates the outbound capacity in cases at a warehouse.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	IpObCpcCO
Source Object Name	IpObCpcCO.txt	Target Object Database	data/obcpcc
Required/Optional	Optional	Target Object Load Intersection	day_wh

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
WH	Warehouse	10	20
Value	Outbound Capacity Cases Value	30	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
WH	Warehouse	String	"W1090 "
Value	Outbound Capacity Cases Value	Integer	"120 " NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of IpObCpcCO.txt extract file format:

```
D20060401W1090                  120
```

ipodcmti.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	SPQ Order Commit Quantity	Contains the *Fixed* or *Capped* Purchase Quantity agreed upon with the Vendor.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipodcmti
Source Object Name	ipodcmti.txt	Target Object Database	data/odcmt
Required/Optional	Optional	Target Object Load Intersection	week_sstk_skug

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
WEEK	Week of the Year	1	8
SSTK	Source Stocking Point	9	20
SKUG	SKU Group	29	20
Value	Order Commit	49	24

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
WEEK	Week	String	"W25_2005"
SSTK	Source Stocking Point	String	"V1001 "
SKUG	SKU Group	Integer	"100117118A "
Value	Order Commit Quantity	Real	"1200.000" NaVal= -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipodcmti.txt extract file format:

```
W25_2005V1001              100055017A        1200.000
W26_2005V1001              100055017A        1200.000
```

iprplstcdi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Replenishment Subtype Code	Contains destination stocking point, SKU, and Subtype code.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	iprplstcdi
Source Object Name	iprplstcdi.txt	Target Object Database	data/rplstcd
Required/Optional	Optional	Target Object Load Intersection	dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DSTK	Destination Stocking Point	1	20
SKU	SKU	21	20
Value	Replenishment Type Code Value	41	24

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DSTK	Destination Stocking Point	String	"W1090 "
SKU	SKU	Integer	"100046031 "
Value	Replenishment Type Code Value	String	"H " NaVal = ''

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of iprplstcdi.txt extract file format:

```
W1090              100046031          H
W3066              100033002          O
```

iprpltcdi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Replenishment Type Code	Contains destination stocking point, SKU, and Type code values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	iprpltcdi
Source Object Name	iprpltcdi.txt	Target Object Database	data/rpltcd
Required/Optional	Optional	Target Object Load Intersection	dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DSTK	Destination Stocking Point	1	20
SKU	SKU	21	20
Value	Replenishment Type Code Value	41	24

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DSTK	Destination Stocking Point	String	"W1090 "
SKU	SKU	Integer	"100033002 "
Value	Replenishment Type Code Value	String	"A " NaVal = ''

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of iprpltcdi.txt extract file format:

```
W1090               100046031           A
W3066               100033002           O
```

ipslsi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Historical Weekly Sales	Contains weekly sales history to be used when replenishing by the Sales Week Range or Average Weekly Sales replenishment methods.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Online Data Point
Source Object Type	Fixed-length Text File	Target Object Name	ipslsi
Source Object Name	ipslsi.txt	Target Object Database	data/sls
Required/Optional	Optional	Target Object Load Intersection	week_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
WEEK	Week	1	8
DSTK		9	20
SKU	SKU	29	20
Value	Historical Weekly Sales	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
WEEK	Week	String	"W31_2005"
DSTK	Unique identifier of a Warehouse	String	"W1090 "
SKU	SKU	Integer	"100048001 "
Value	Historical Weekly Sales value	Real	"105.0000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipslsi.txt extract file format:

```
W31_2005W1090                 100076002               105.0000
```

ipttlhlstki.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Total Held Stock	Simple Parameter

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipttlhlstki
Source Object Name	ipttlhlstki.txt	Target Object Database	data/ttlhlstk
Required/Optional	Optional	Target Object Load Intersection	day_dstk_skps

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
SKPS	Commodity-Pack Size	30	20
VALUE	Total Held Stock	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Day	Day	String	"D20060123"
DSTK	Destination Stocking Point	String	"W1090 "
SKPS	Commodity-Pack Size	String	"118525_1 "
Value	Total Held Stock	Integer	"2000 " NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipttlhlstki.txt extract file format:

```
D20060123W1090              118525_1             2000
```

ipwhhldcpci.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Stocking Point Holding Capacity	Simple Parameter

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipwhhldcpci
Source Object Name	ipwhhldcpci.txt	Target Object Database	data/whhldcpc
Required/Optional	Optional	Target Object Load Intersection	dstknwgp

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DSTK	Destination Stocking Point	1	20
NWGP	Network Group	21	8
Value	Stocking Point Holding Capacity	29	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DSTK	Destination Stocking Point	String	"W4110 "
NWGP	Network Group Position	String	"001 "
Value	Stocking Point Holding Capacity	Integer	"1000 " NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipwhhldcpci.txtextract file format:

```
W4110             001    1000
```

item_attribute.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Item Attribute	Contains SKU, Order Multiple, Pack Quantity, Attribute Type, and Attribute values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Online Data Point
Source Object Type	Fixed-length Text File	Target Object Name	Item Attributes
Source Object Name	item_attribute.txt	Target Object Database	Online Database
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
RMS SKU	RMS SKU	1	20
Order Multiple	Order Multiple	21	4
Pack Quantity	Pack Quantity	25	4
Attribute Type	Attribute Type	29	6
Attribute Value	Attribute Value	35	40

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
RMS SKU	RMS SKU	String	"100048001 "
Order Multiple	Order Multiple	Integer	"1 "
Pack Quantity	Pack Quantity	String	"0 "
Attribute Type	Attribute Type	String	"WHSED "
Attribute Value	Attribute Value	String	"Y"

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of item_attribute.txt extract file format:

```
100048001         1   0   WHSED Y
100049004         1   0   WHSED Y
```

item_attribute_type.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Item Type	Contains SKU, Order Multiple, Pack Quantity, Attribute Type, and Attribute values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Online Data Point
Source Object Type	Fixed-length Text File	Target Object Name	Item Attribute Types
Source Object Name	item_attribute_type.txt	Target Object Database	Online Database
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Attribute Type	Attribute Type	1	6
Attribute Type Description	Attribute Type Description	7	40

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Attribute Type	Attribute Type	String	"WHSED "
Attribute Type Description	Attribute Type Description	String	"Warehouse Indicator "

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of item_attribute_type.txt extract file format:

```
WHSED Warehouse Indicator
VKSTK Viking Stocked Indicator
```

rmse_order_purge.dat

Data Element Details

Data Type	Data Element Name	Data Description
N/A This data is not loaded into an RPAS measures. It is loaded into an Oracle table.	Purged Purchase Order Numbers	Contains AIP purchase order numbers that have been purged from the order execution system. The PO numbers can be assigned to new POs.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Oracle Table
Source Object Type	Fixed-length Text File	Target Object Name	available_PO_num
Source Object Name	rmse_order_ purge.dat	Target Object Database	AIP Online Schema
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
ORDER_NUMBER	Available Purchase Order Number	1	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
ORDER_NO	Available Purchase Order Number	Number(8)	"123456 "

Formatting Conditions

None

Example of rmse_order_purge.dat extract file format:

```
123456
```

sister_store.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Sister Store	Contains Sister Store, Existing Store, and Open Date.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measures and Online Data Point
Source Object Type	Fixed-length Text File	Target Object Name	dmx_sst & dmx_stropndt_ & Sister Store
Source Object Name	sister_store.txt	Target Object Database	data/dmx_sst & data/dmx_stropndt & Online Database
Required/Optional	Optional	Target Object Load Intersection	str & str & N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Sister/New Store	Sister/New Store	1	20
Existing Store	Existing Store	21	20
Open Date	Open Date	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Sister/New Store	Sister/New Store	String	"S303 "
Existing Store	Existing Store	String	"S402 "
Open Date	Open Date	String	"20051201"

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of sister_store.txt extract file format:

```
S303                S402                20051201
S348                S309                20051201
```

Load Notes

The AIP RPAS Batch process splits this data file into two flat files that are loaded into two AIP RPAS measures. The original data file is exported to AIP Oracle and loaded by the AIP Oracle Batch processes.

sister_wh.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Sister Warehouse	Contains Sister Warehouse, Existing Warehouse, and Open Date.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measures and Online Data Point
Source Object Type	Fixed-length Text File	Target Object Name	dmx_swh & dmx_wh_opndt_ & Sister Warehouse
Source Object Name	sister_wh.txt	Target Object Database	data/dmx_swh & data/dmx_wh_ opndt_ & Online Database
Required/Optional	Optional	Target Object Load Intersection	wh & wh & N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Sister/New Warehouse	Sister/New Warehouse	1	20
Existing Warehouse	Existing Warehouse	21	20
Open Date	Open Date	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Sister/New Warehouse	Sister/New Warehouse	String	"W1090 "
Existing Warehouse	Existing Warehouse	String	"W1091 "
Open Date	Open Date	String	"20051201"

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of sister_wh.txt extract file format:

```
W1090               W1091               20051201
W1105               W1170               20051201
```

Load Notes

The AIP RPAS Batch process splits this data file into two flat files that are loaded into two AIP RPAS measures. The original data file is exported to AIP Oracle and loaded by the AIP Oracle Batch processes.

sr0_ad_.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Ads	Contains Store, SKU, Ad, and Store Ads Boolean flag.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_ad_
Source Object Name	sr0_ad_.txt	Target Object Database	data/sr0_ad_

Data Source Details		Target Data Details	
Required/Optional	Optional	Target Object Load Intersection	str_sku_ad

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
AD	Advertisement	41	20
Value	Store Ads	61	1

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S348 "
SKU	SKU	Integer	"100055017 "
AD	Advertisement	String	"IC0604051 "
Value	Store Ads	Boolean	"1" NaVal = false

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_ad_.txt extract file format:

```
S348                 100055017          IC0604051              1
```

sr0_ad_go_.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Ads Grand Opening	Contains Store, SKU, Ad, and Store Ads grand opening values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_ad_go_
Source Object Name	sr0_ad_go_.txt	Target Object Database	data/sr0_ad_go_
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
VALUE	Store Ads Grand Opening	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050801"
STR	Store	String	"S348 "
SKU	SKU	Integer	"100055017 "
Value	Store Ads Grand Opening	Real	"123.5678" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_ad_go_.txt extract file format:

```
D20050801S348            100055017           123.5678
```

sr0_ad_irt.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Ads Inserts	Contains Store, SKU, Ad, and Store Ads Inserts values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_ad_irt
Source Object Name	sr0_ad_irt.txt	Target Object Database	data/sr0_ad_irt
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
VALUE	Store Ads Inserts	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050801"
STR	Store	String	"S348 "
SKU	SKU	Integer	"100055017 "
Value	Store Ads Inserts	Real	"1.000000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_ad_irt.txt extract file format:

```
D20050801S348             100055017           1.000000
```

sr0_ad_oth.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Ads Others	Contains Store, SKU, Ad, and Store Ads Others values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_ad_oth
Source Object Name	sr0_ad_oth.txt	Target Object Database	data/sr0_ad_oth
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
VALUE	Store Ads Others	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050801"
STR	Store	String	"S348 "
SKU	SKU	Integer	"100055017 "
VALUE	Store Ads Others	Real	"1.000000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_ad_oth.txt extract file format:

```
D20050801S348                   100055017           1
```

sr0_ad_rop.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Ads run on press	Contains Store, SKU, Ad, and Store Ads run on press values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_ad_rop
Source Object Name	sr0_ad_rop.txt	Target Object Database	data/sr0_ad_rop
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Store Ads run on press	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050801"
STR	Store	String	"S348 "
SKU	SKU	Integer	"100055017 "
VALUE	Store Ads run on press	Real	"1.000000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_ad_rop.txt extract file format:

```
D20050801S348              100055017          1.000000
```

sr0_adjsls.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Adjusted Sales	Contains Store, SKU, Day, and Store Adjusted Sales values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_adjsls
Source Object Name	sr0_adjsls.txt	Target Object Database	data/sr0_adjsls
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Store Adjusted Sales	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050801"
STR	Store	String	"S348 "
SKU	SKU	Integer	"100055017 "
Value	Store Adjusted Sales	Real	"1.000000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_adjsls.txt extract file format:

```
D20050820S441105                 100057004              5
```

sr0_avgrosld_.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Average Weekly Rate-of-Sale Loaded	Contains Store, SKU, and Store average week Rate-of-Sale loaded.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure

Data Source Details		Target Data Details	
Source Object Type	Fixed-length Text File	Target Object Name	sr0_avgrosld_
Source Object Name	sr0_avgrosld_.txt	Target Object Database	data/sr0_avgrosld_
Required/Optional	Optional	Target Object Load Intersection	str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
VALUE	Store Average Weekly Rate-of-Sale Loaded	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S441090 "
SKU	SKU	Integer	"100076002 "
Value	Store Average Weekly Rate-of-Sale Loaded	Real	"200.0000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_avgrosld_.txt extract file format:

```
S441090              100076002              200.0000
```

sr0_co_.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Customer Orders	Contains Store, SKU, Ad, and Store Customer Orders quantity.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_co_
Source Object Name	sr0_co_.txt	Target Object Database	data/sr0_co_
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
VALUE	Store Customer Orders	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050820"
STR	Store	String	"S441105 "
SKU	SKU	Integer	"100057004 "
Value	Store Customer Orders	Real	"1 " NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_co_.txt extract file format:

```
D20050820S441105            100057004            1
```

sr0_dyscsls.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Daily Short Code Sales	Contains Day, Store, SKU, and Daily Short Code Sales quantity.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_dyscsls
Source Object Name	sr0_dyscsls.txt	Target Object Database	data/sr0_dyscsls
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Daily Short Code Sales	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060125"
STR	Store	String	"S303 "
SKU	SKU	Integer	"118525 "
Value	Daily Short Code Sales	Real	"123.4500" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_dyscsls.txt extract file format:

```
D20060125S303              118525              123.4500
```

sr0_expwrtoff.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Expected Write-Off	Contains Day, Store, SKU, and Store Expected Write-Off values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_expwrtoff
Source Object Name	sr0_expwrtoff.txt	Target Object Database	data/sr0_expwrtoff
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Store Expected Write-Off	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050801"
STR	Store	String	"S303 "
SKU	SKU	Integer	"100055009 "
Value	Store Expected Write-Off	Real	"5 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_expwrtoff.txt extract file format:

```
D20050801S303              100055009          5
```

sr0_hstls_.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Historical Lost Sales	Contains Day, Store, SKU, and Store historical lost sales values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_hstls_
Source Object Name	sr0_hstls_.txt	Target Object Database	data/sr0_hstls_
Required/Optional	Required	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Store Historical Lost Sales	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050801"
STR	Store	String	"S303 "
SKU	SKU	Integer	"100055009 "
Value	Store Historical Lost Sales	Real	"1000.500" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_hstls_.txt extract file format:

```
D20050801S303                    100055009                  1000.500
```

sr0_invadj.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Inventory Adjustments	Contains Day, Store, SKU, and Inventory Adjustments values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure

Data Source Details		Target Data Details	
Source Object Type	Fixed-length Text File	Target Object Name	sr0_invadj
Source Object Name	sr0_invadj.txt	Target Object Database	data/sr0_invadj
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Inventory Adjustments	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060123"
STR	Store	String	"S303 "
SKU	SKU	Integer	"163460 "
Value	Inventory Adjustments	Real	"123.4500" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_invadj.txt extract file format:

```
D20060124S303              163460              123.4500
```

sr0_knowndemand.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Known Demand	Contains Day, Store, SKU, and Store known demand values.

FIXED-LENGTHExtracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_knowndemand
Source Object Name	sr0_ knowndemand.txt	Target Object Database	data/sr0_ knowndemand
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Store Known Demand	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20050801"
STR	Store	String	"S303 "
SKU	SKU	Integer	"100055009 "
Value	Store Known Demand	Real	"1000.500" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_knowndemand.txt extract file format:

```
D20050801S303                 100055009              1000.500
```

sr0_rplcde.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Repl Type Code	Contains Store, SKU, and Replenishment Type Code.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_rplcde
Source Object Name	sr0_rplcde.txt	Target Object Database	data/sr0_rplcde
Required/Optional	Optional	Target Object Load Intersection	str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
Value	Store Replenishment Type Code	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S303 "
SKU	SKU	Integer	"100048001 "
Value	Store Replenishment Type Code	String	"A " NaVal =0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_rplcde.txt extract file format:

```
S303            100046031       A
S348            100033002       M
```

sr0_rplsubcde.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Replenishment Subtype Code	Contains Store, SKU, and Replenishment Subtype Code.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_rplsubcde
Source Object Name	sr0_rplsubcde.txt	Target Object Database	data/sr0_rplsubcde
Required/Optional	Optional	Target Object Load Intersection	str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
Value	Store Replenishment Subtype Code	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Store	String	"S303 "
SKU	SKU	Integer	"100048001 "
Value	Store Replenishment Subtype Code	String	"A " NaVal =0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_rplsubcde.txt extract file format:

```
S303            100046031         A
S348            100033002         J
```

sr0_ss_ld_.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Loaded Safety Stock	Contains Store, SKU, and Loaded Safety Stock values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_ss_ld_
Source Object Name	sr0_ss_ld_.txt	Target Object Database	data/sr0_ss_ld_
Required/Optional	Optional	Target Object Load Intersection	str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR	Store	1	20
SKU	SKU	21	20
VALUE	Store Loaded Safety Stock Value	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Store	Store	String	"S441090 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
SKU	SKU	Integer	"100048001 "
Value	Store Loaded Safety Stock Value	Real	"155.0000" NaVal =0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_ss_ld_.txt extract file format:

```
S441090            100048001          155.0000
S348               100049004          155.0000
```

sr0_tdgday.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Trading Days	Contains Day, Store, and Store Trading days flag.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_tdgday
Source Object Name	sr0_tdgday.txt	Target Object Database	data/ssldat
Required/Optional	Optional	Target Object Load Intersection	STR_day_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
Value	Store Trading Days	30	1

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Day	Day	String	"D20050620"
Store	Store	String	"S303 "
Value	Store Trading Days	Boolean	"1" NaVal = true

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of sr0_tdgday.txt extract file format:

```
D20050620S303             1
D20050621S303             1
```

sr0_wkbsf_ld.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Loaded Weekly Base Sales Forecast	Loaded measure at SKU/str/week to indicate the weekly base sales forecast.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	sr0_wkbsf_ld
Source Object Name	sr0_wkbsf_ld.txt	Target Object Database	data/sr0_wkbsf_ld
Required/Optional	Optional	Target Object Load Intersection	week_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
WEEK	Week	1	8
STR	Store	9	20
SKU	SKU	29	20
Value	Loaded Weekly Base Sales Forecast	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Week	Week	String	"W05_2006"
Store	Store	String	"S303 "
SKU	SKU	Integer	"118525 "
Value	Loaded Weekly Base Sales Forecast	Real	"1.00000" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_wkbsf_ld.txt extract file format:

```
W05_2006S303                118525              1.00000
```

sr0_wstadj.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Waste Adjustments	Contains Day, Store, SKU, and Waste Adjustments values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure

Data Source Details		Target Data Details	
Source Object Type	Fixed-length Text File	Target Object Name	sr0_wstadj
Source Object Name	sr0_wstadj.txt	Target Object Database	data/sr0_wstadj
Required/Optional	Optional	Target Object Load Intersection	day_str_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
STR	Store	10	20
SKU	SKU	30	20
Value	Waste Adjustments	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Day	Day	String	"D20060126"
Store	Store	String	"S303 "
SKU	SKU	Integer	"168941 "
Value	Waste Adjustments	Real	"123.4500" NaVal = 0

Formatting Conditions

Value	Prefix (Case Sensitive)
Stores	S

Example of sr0_wstadj.txt extract file format:

```
D20060126S303              168941              123.4500
```

srx_poidst.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	SRP Poisson Distribution Lookup	Loaded Poisson distribution table.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	srx_poidst
Source Object Name	srx_poidst.txt	Target Object Database	data/srx_poidst
Required/Optional	Optional	Target Object Load Intersection	seq_int_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
SEQ	Sequence Number	1	20
INT	Interval	21	20
Value	SRP Poisson Distribution Lookup	41	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
SEQ	Sequence Number	String	"0016 "
INT	Interval	String	"121000 "
Value	SRP Poisson Distribution Lookup	Real	"33.3 " NaVal = 0

Formatting Conditions
None.

Example of srx_poidst.txt extract file format:
```
0016                121000                33.3
```

srx_prdrpr.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	SKU Retail Price	Contains Week, Company, SKU, and Retail Price values.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	srx_prdrpr
Source Object Name	srx_prdrpr.txt	Target Object Database	data/srx_prdrpr
Required/Optional	Optional	Target Object Load Intersection	week_cmpn_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
WEEK	Week	1	8
COMPANY	Company	9	20
SKU	SKU	29	20
Value	SKU Retail Price	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Week	Week	String	"W32_2005"
Company	Company	String	"1 "
SKU	SKU	Integer	"100048001 "
Value	SKU Retail Price	Real	"6.460000" NaVal = 0

Formatting Conditions
None.

Example of srx_prdrpr.txt extract file format:

```
W32_20051              100048001          6.460000
W32_20051              100048001          6.460000
```

store_format_pack_size.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Format Pack Size	Contains Store Format, AIP SKU, pack size, Warehouse, Start Date, and End Date.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	Store Format Pack Size
Source Object Name	store_format_pack_size.txt	Target Object Database	Online Database
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Store Format Code	Store Format	1	20
Commodity Code	AIP SKU	21	20
Pack Size	Pack Size	41	4
Stocking Point Number	Warehouse	45	20
Start Date	Start Date	65	8
End Date	End Date	73	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Store Format	Store Format	String	"1 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Commodity Code	AIP SKU	String	"100052001 "
Pack Size	Pack Size	Integer	"36 "
Stocking Point Number	Warehouse	String	"W3066 "
Start Date	Start Date	String	"20050101"
End Date	End Date	String	"20051201"

Filtering Conditions

The SKU-pack size should have an AIP ranging status of *Profile Ranged*, *Exception Ranged*, or *Pending De-ranged* at the warehouse before it is loaded into AIP as the store ordering pack size.

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of store_format_pack_size.txt extract file format:

```
1                   100052001         36 W3066                2005010120051201
```

store_pack_size.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Pack Size	Contains the preferred ordering pack size when ordering the SKU from the warehouse to the store during a particular time period.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Online Data Point
Source Object Type	Fixed-length Text File	Target Object Name	Store Pack Size

Data Source Details		Target Data Details	
Source Object Name	store_pack_size.txt	Target Object Database	Online Database
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Store Code	Store	1	20
Commodity Code	AIP SKU	21	20
Pack Size	Pack Size	41	4
Stocking Point Number	Warehouse	45	20
Start Date	Start Date	65	8
End Date	End Date	73	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Store Code	Store	String	"S303 "
Commodity Code	AIP SKU	String	"100052001 "
Pack Size	Pack Size	Integer	"36 "
Stocking Point Number	Warehouse	String	"W3066 "
Start Date	Start Date	String	"20050101"
End Date	End Date	String	"20051201"

Filtering Conditions

The SKU-pack size should have an AIP ranging status of *Profile Ranged*, *Exception Ranged*, or *Pending De-ranged* at the warehouse before it is loaded into AIP as the store ordering pack size.

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of store_pack_size.txt extract file format:

```
S303                 100052001        1  W3066              2005010120051201
```

sku_cost.dat

Data Element Details

Data Type	Data Element Name	Data Description
Measure	SKU Cost	Contains the unit cost of a SKU from a supplier to a warehouse.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Oracle Database
Source Object Type	Fixed-length Text File	Target Object Name	commodity_cost
Source Object Name	sku_cost.dat	Target Object Database	N/A
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Commodity Code	AIP SKU	1	25
Supplier Code	Supplier	26	20
Warehouse Number	Warehouse	46	20
Commodity Cost	SKU Cost	66	20

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
commodity_code	Unique AIP SKU identifier	String	"100052001 "
supplier_code	Unique Supplier identifier	String	"V11111 "
stocking_point_number	Unique Warehouse identifier	String	"W36 "
commodity_cost	SKU Cost	Sfloat	"15.9900 "

Filtering Conditions

None.

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W

Example of sku_cost.dat extract file format:

```
"100052001          V11111            W36              15.9900                "
```

SKU Cost - Online Load Process

Figure 12–1   SKU Cost - AIP Oracle Load Process Diagram
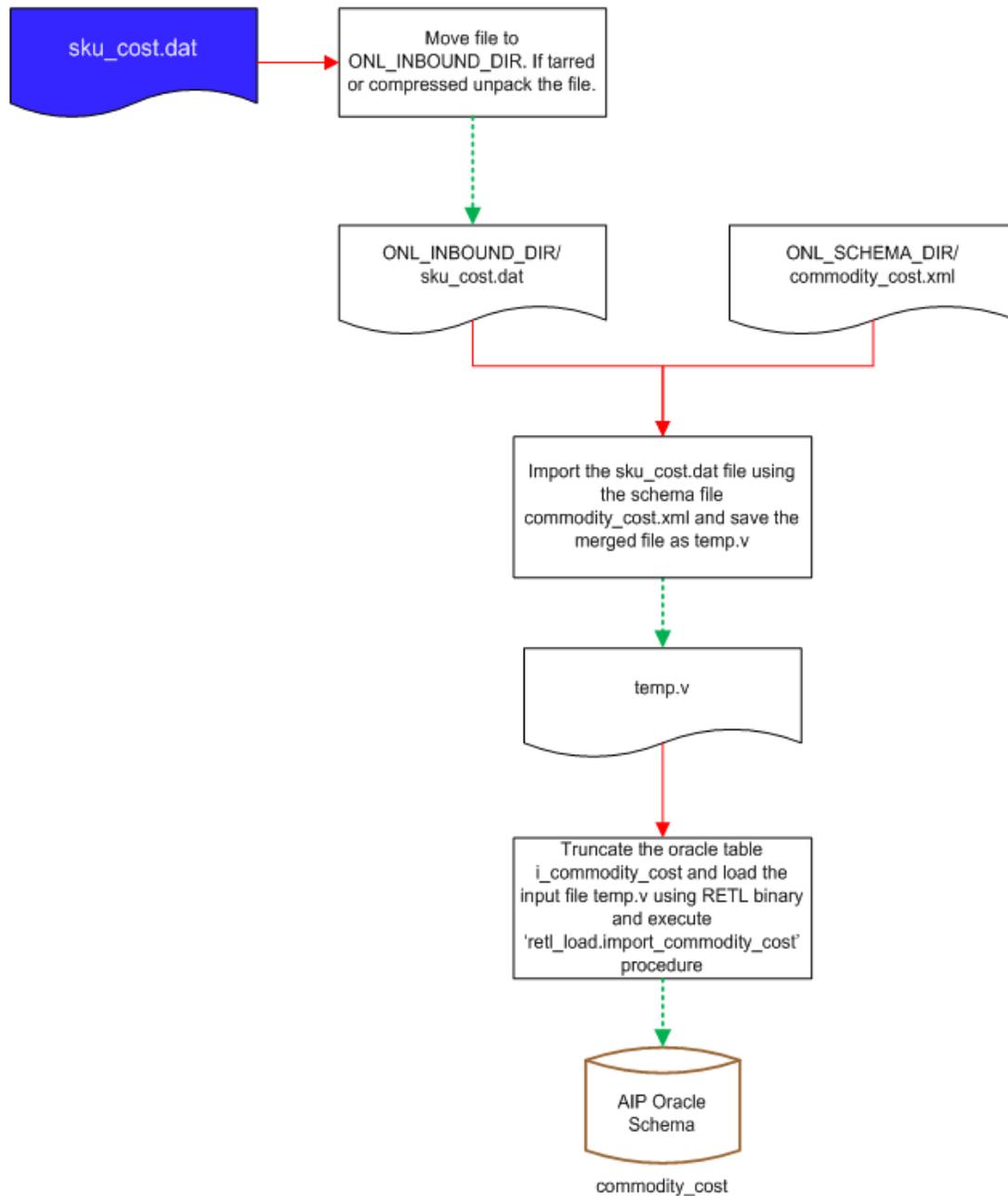
sku_weight_volume.dat

Data Element Details

Data Type	Data Element Name	Data Description
Measure	SKU Weight and Volume	Contains the unit weight and/or volume of a SKU from a supplier.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	Oracle Database
Source Object Type	Fixed-length Text File	Target Object Name	commodity_weight_volume
Source Object Name	sku_weight_volume.dat	Target Object Database	N/A
Required/Optional	Optional	Target Object Load Intersection	N/A

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Commodity Code	AIP SKU	1	25
Supplier Code	Supplier	26	20
Commodity Weight	SKU weight	46	20
Commodity Volume	SKU volume	66	20

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
commodity_code	Unique AIP SKU identifier	String	"100052001 "
supplier_code	Unique Supplier identifier	String	"V11111 "
commodity_weight	SKU weight	Sfloat	"3.0000 "
commodity_volume	SKU volume	Sfloat	"0.9560 "

Filtering Conditions

None.

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V

Example of sku_weight_volume.dat extract file format:

```
"100052001        V11111            3.0000            0.9560                "
```

SKU Weight and Volume - Online Load Process

Figure 12–2   SKU Weight and Volume - AIP Oracle Load Process Diagram

13
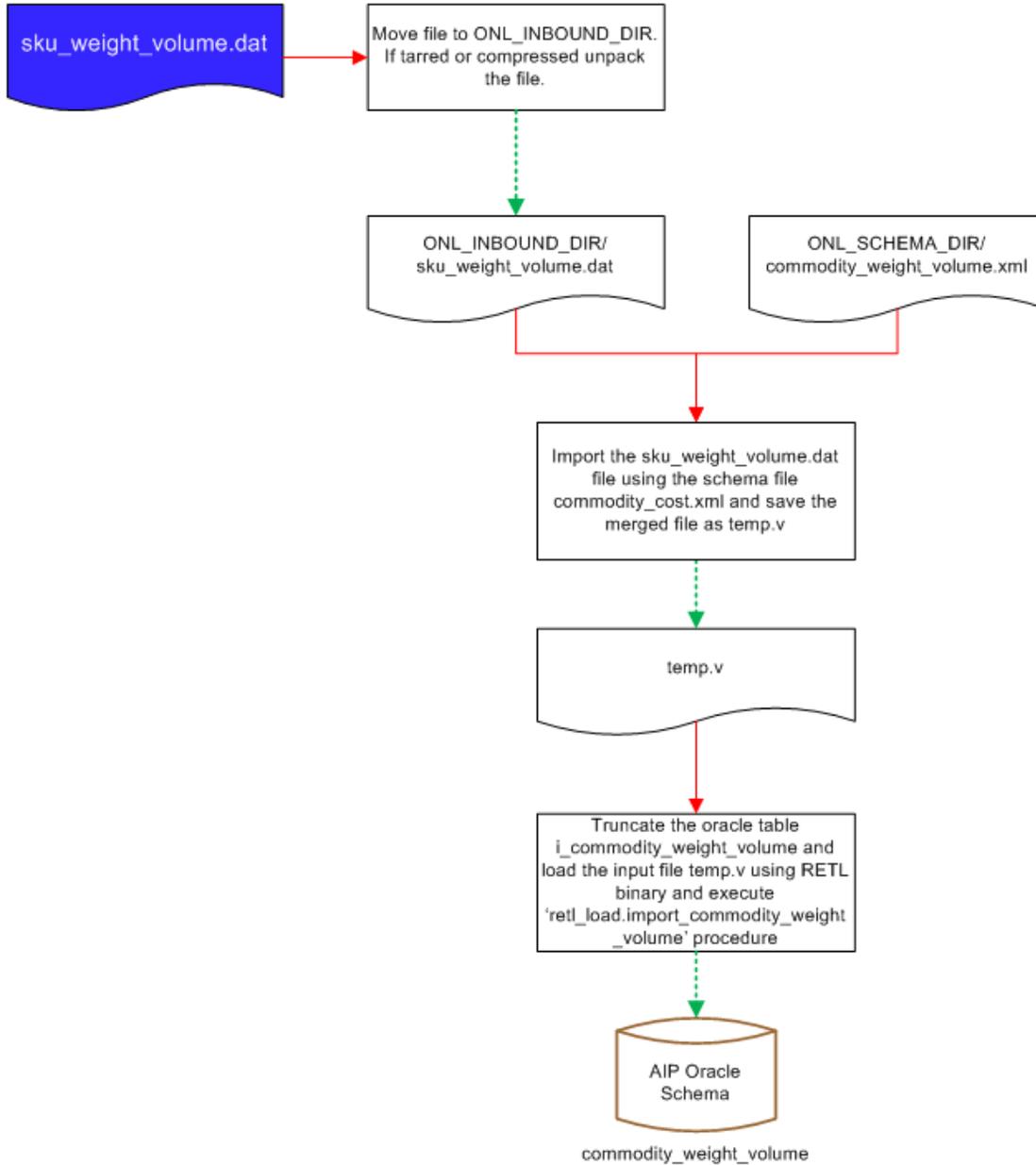
IntradayExternal System Intraday Integration

This chapter describes the measure files AIP receives from an external system for Intraday.

Measure Data Overview

The tables in this section list the measure files AIP receives from an external system for Intraday. The measures are categorized by:

- Intraday Measure Files Used by Daily Batch Only
- Intraday Measures Used by Intraday Batch Only
- Intraday Measures Used by Both Daily and Intraday Batches

Intraday Measure Files Used by Daily Batch Only

Table 13–1 lists the Intraday measures used by daily batch only.

Table 13–1   Intraday Measure Files Used by Daily Batch Only

File Name	Description	Source
idrplnflgl1i.txt	Intraday Release Replan Indicator by Store/SKU/day	External
idrplnflgl2i.txt	Intraday Release Replan Indicator by Store/SKU/Week-pattern	External
idrplnflgl3i.txt	Intraday Release Replan Indicator by Store/Department/Day	External / AIP-Oracle
idrplnflgl4i.txt	Intraday Release Replan Indicator by Store/Department/Week-pattern	External / AIP-Oracle
idrwal1i.txt	Intraday Release Wave Assignment by Store/SKU/day	External
idrwal2i.txt	Intraday Release Wave Assignment by Store/SKU/Week-pattern	External
idrwal3i.txt	Intraday Release Wave Assignment by Store/Department/Day	External / AIP-Oracle
idrwal4i.txt	Intraday Release Wave Assignment by Store/Department/Week-pattern	External / AIP-Oracle

Intraday Measures Used by Intraday Batch Only

Table 13–2 lists the Intraday measures used by Intraday batch only.

Table 13–2   Intraday Measure Files Used by Intraday Batch Only

File Name	Description	Source
idsnpshttiml1i.txt	Intraday Release Wave Inventory Snapshot Time Exception	External
idsnpshttiml2i.txt	Intraday Release Wave Inventory Snapshot Time Default	External / AIP-Oracle

Intraday Measures Used by Both Daily and Intraday Batches

Table 13–3 lists the Intraday measures used by both daily and Intraday batches.

Table 13–3   Intraday Measure Files Used by Both Daily and Intraday Batches

File Name	Description	Source
ipddpl1i.txt	Delivery-day demand percent by Location/SKU/Day	External
ipddpl2i.txt	Delivery-day demand percent by Location/SKU/Week-pattern	External
ipddpl3i.txt	Delivery-day demand percent by Location/Department/Day	External / AIP-Oracle
ipddpl4i.txt	Delivery-day demand percent by Location/Department/Week-pattern	External / AIP-Oracle
ipddpl5i.txt	Delivery-day demand percent by Location/Day	External / AIP-Oracle
ipddpl6i.txt	Delivery-day demand percent by Location/Week-pattern	External / AIP-Oracle
iphrslsprofi.txt	Hourly sales profile	External
iponshelfl1i.txt	On-shelf Time by Store/SKU/Day	External
iponshelfl2i.txt	On-shelf Time by Store/Department/Day	External
iponshelfl3i.txt	On-shelf Time by Store/Department/Week-pattern	External

Details for Intraday Measures Used by Daily Batch Only

This section provides details for Intraday measures used by daily batch only.

idrplnflgl1i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Replan Indicator by Store/SKU/day	Indicates whether or not to include the store order in an Intraday re-plan just prior to its Intraday release.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idrplnflgl1i
Source Object Name	idrplnflgl1i.txt	Target Object Database	data/rplnflgl1
Required/Optional	Optional	Target Object Load Intersection	day_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
SKU	SKU	30	20
Value	Intraday Release Replan Indicator by Store/SKU/day	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
DSTK	Destination Stocking Point	String	"S303 "
SKU	SKU	Integer	"118525 "
Value	Intraday Release Replan Indicator by Store/SKU/day	Integer	"1 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of idrplnflgl1i.txt extract file format:

D20060401S303   118525   1

idrplnflgl2i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Replan Indicator by Store/SKU/Week-pattern	Indicates whether or not to include the store order in an Intraday re-plan just prior to its Intraday release.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idrplnflgl2i
Source Object Name	idrplnflgl2i.txt	Target Object Database	data/rplnflgl2
Required/Optional	Optional	Target Object Load Intersection	dow_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
SKU	SKU	29	20
Value	Intraday Release Replan Indicator by Store/SKU/Week-pattern	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
SKU	SKU	Integer	"118525 "
Value	Intraday Release Replan Indicator by Store/SKU/Week-pattern	Integer	"1 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of idrplnflgl2i.txt extract file format:

THR   S303   118525   1

idrplnflgl3i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Replan Indicator by Store/Department/Day	Indicates whether or not to include the store order in an Intraday re-plan just prior to its Intraday release.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idrplnflgl3i
Source Object Name	idrplnflgl3i.txt	Target Object Database	data/rplnflgl3
Required/Optional	Optional	Target Object Load Intersection	day_dstk_dept

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
DEPT	Department	30	20
Value	Intraday Release Replan Indicator by Store/Department/Day	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
DSTK	Destination Stocking Point	String	"S303 "
DEPT	Department	Integer	"44 "
Value	Intraday Release Replan Indicator by Store/Department/Day	Integer	"1 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of idrplnflgl3i.txt extract file format:

D20060401S303   44   1

idrplnflgl4i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Replan Indicator by Store/Department/Week-pattern	Indicates whether or not to include the store order in an Intraday re-plan just prior to its Intraday release.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idrplnflgl4i
Source Object Name	idrplnflgl4i.txt	Target Object Database	data/rplnflgl4
Required/Optional	Optional	Target Object Load Intersection	dow_dstk_dept

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
DEPT	Department	29	20
Value	Intraday Release Replan Indicator by Store/Department/Week-pattern	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
DEPT	Department	Integer	"44 "
Value	Intraday Release Replan Indicator by Store/Department/Week-pattern	Integer	"1 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of idrplnflgl4i.txt extract file format:

THR   S303   44   1

idrwal1i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Wave Assignment by Store/SKU/day	Indicates which hour the store purchase order or transfer is released for execution.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idrwal1i
Source Object Name	idrwal1i.txt	Target Object Database	data/rwal1
Required/Optional	Optional	Target Object Load Intersection	day_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
SKU	SKU	30	20
Value	Intraday Release Wave Assignment by Store/SKU/day	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
DSTK	Destination Stocking Point	String	"S303 "
SKU	SKU	Integer	"118525 "
Value	Intraday Release Wave Assignment by Store/SKU/day	Integer	"7 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of idrwal1i.txt extract file format:

D20060401S303   118525   7

idrwal2i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Wave Assignment by Store/SKU/Week-pattern	Indicates which hour the store purchase order or transfer is released for execution.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idrwal2i
Source Object Name	idrwal2i.txt	Target Object Database	data/rwal2
Required/Optional	Optional	Target Object Load Intersection	dow_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
SKU	SKU	29	20
Value	Intraday Release Wave Assignment by Store/SKU/Week-pattern	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
SKU	SKU	Integer	"118525 "
Value	Intraday Release Wave Assignment by Store/SKU/Week-pattern	Integer	"7 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of idrwal2i.txt extract file format:
THR   S303   118525   7

idrwal3i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Wave Assignment by Store/Department/Day	Indicates which hour the store purchase order or transfer is released for execution.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idrwal3i
Source Object Name	idrwal3i.txt	Target Object Database	data/rwal3
Required/Optional	Optional	Target Object Load Intersection	day_dstk_dept

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
DEPT	Department	30	20
Value	Intraday Release Wave Assignment by Store/Department/Day	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
DSTK	Destination Stocking Point	String	"S303 "
DEPT	Department	Integer	"44 "
Value	Intraday Release Wave Assignment by Store/Department/Day	Integer	"7 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of idrwal3i.txt extract file format:

D20060401S303   44   7

idrwal4i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Wave Assignment by Store/Department/Week-pattern	Indicates which hour the store purchase order or transfer is released for execution.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idrwal4i
Source Object Name	idrwal4i.txt	Target Object Database	data/rwal4
Required/Optional	Optional	Target Object Load Intersection	dow_dstk_dept

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
DEPT	Department	29	20
Value	Intraday Release Wave Assignment by Store/Department/Week-pattern	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	S303
DEPT	Department	Integer	"44 "
Value	Intraday Release Wave Assignment by Store/Department/Week-pattern	Integer	"7 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of idrwal4i.txt extract file format:

THR   S303   44   7

Details for Intraday Measures Used by Intraday Batch Only

This section provides details for Intraday measures used by Intraday batch only.

idsnpshttiml1i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Wave Inventory Snapshot Time Exception	The approximate time the inventory snapshot is captured for the release wave. This is used to revise sales forecasts during Intraday replanning.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idsnpshttiml1i
Source Object Name	idsnpshttiml1i.txt	Target Object Database	data/idsnpshttiml1i
Required/Optional	Optional	Target Object Load Intersection	day_seq

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
SEQ	Sequence Number	10	20
Value	Intraday Release Wave Inventory Snapshot Time Exception	30	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
SEQ	Sequence Number	String	"0007 "
Value	Intraday Release Wave Inventory Snapshot Time Exception	Integer	"1230 " NaVal = -1

Formatting Conditions
None

Example of **idsnpshttiml1i.txt** extract file format:
D200604010007   1230

idsnpshttiml2i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Intraday Release Wave Inventory Snapshot Time Default	The approximate time the inventory snapshot is captured for the release wave. This is used to revise sales forecasts during Intraday replanning.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	idsnpshttiml2i
Source Object Name	idsnpshttiml2i.txt	Target Object Database	data/idsnpshttiml2i
Required/Optional	Optional	Target Object Load Intersection	dow_seq

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
SEQ	Sequence Number	9	20
Value	Intraday Release Wave Inventory Snapshot Time Default	29	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
SEQ	Sequence Number	String	"0007 "
Value	Intraday Release Wave Inventory Snapshot Time Default	Integer	"1230 " NaVal = -1

Formatting Conditions

None

Example of idsnpshttiml2i.txt extract file format:

THR   0007   1230

Details for Intraday Measures Used by Both Daily and Intraday Batches

This section provides details for Intraday measures used by both daily and Intraday batches.

ipddpl1i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Delivery-day demand percent by Location/SKU/Day	Indicates what portion of a day's forecast demand can be met by a delivery on that day. Warehouses are restricted to 0% or 100%.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipddpl1i
Source Object Name	ipddpl1i.txt	Target Object Database	data/ddpl1
Required/Optional	Optional	Target Object Load Intersection	day_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
SKU	SKU	30	20
Value	Delivery-day demand percent by Location/SKU/Day	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
DSTK	Destination Stocking Point	String	"S303 "
SKU	SKU	Integer	"118525 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Value	Delivery-day demand percent by Location/SKU/Day	Real	".75 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipddpl1i.txt extract file format:

D20060401S303   118525   .75

ipddpl2i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Delivery-day demand percent by Location/SKU/Week-pattern	Indicates what portion of a day's forecast demand can be met by a delivery on that day. Warehouses are restricted to 0% or 100%.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipddpl2i
Source Object Name	ipddpl2i.txt	Target Object Database	data/ddpl2
Required/Optional	Optional	Target Object Load Intersection	dow_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
SKU	SKU	29	20

Source Fields	Source Field Description	Field Start Position	Field Width
Value	Delivery-day demand percent by Location/SKU/Week-pattern	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
SKU	SKU	Integer	"118525 "
Value	Delivery-day demand percent by Location/SKU/Week-pattern	Real	".75 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipddpl2i.txt extract file format:

THR   S303   118525   .75

ipddpl3i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Delivery-day demand percent by Location/Department/Day	Indicates what portion of a day's forecast demand can be met by a delivery on that day. Warehouses are restricted to 0% or 100%.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipddpl3i

Data Source Details		Target Data Details	
Source Object Name	ipddpl3i.txt	Target Object Database	data/ddpl3
Required/Optional	Optional	Target Object Load Intersection	v

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
DEPT	Department	30	20
Value	Delivery-day demand percent by Location/Department/Day	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
DSTK	Destination Stocking Point	String	"S303 "
DEPT	Department	Integer	"44 "
Value	Delivery-day demand percent by Location/Department/Day	Real	".75 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipddpl3i.txt extract file format:

D20060401S303   44   .75

ipddpl4i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Delivery-day demand percent by Location/Department/Week-pattern	Indicates what portion of a day's forecast demand can be met by a delivery on that day. Warehouses are restricted to 0% or 100%.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipddpl4i
Source Object Name	ipddpl4i.txt	Target Object Database	data/ddpl4
Required/Optional	Optional	Target Object Load Intersection	dow_dstk_dept

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
DEPT	Department	29	20
Value	Delivery-day demand percent by Location/Department/Week-pattern	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
DEPT	Department	Integer	"44 "
Value	Delivery-day demand percent by Location/Department/Week-pattern	Real	".75 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipddpl4i.txt extract file format:

THR   S303   44   .75

ipddpl5i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Delivery-day demand percent by Location/Day	Indicates what portion of a day's forecast demand can be met by a delivery on that day. Warehouses are restricted to 0% or 100%.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipddpl5i
Source Object Name	ipddpl5i.txt	Target Object Database	data/ddpl5
Required/Optional	Optional	Target Object Load Intersection	day_dstk

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
DEPT	Department	29	20
Value	Intraday Release Wave Assignment by Store/Department/Week-pattern	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
DEPT	Department	Integer	"44 "
Value	Intraday Release Wave Assignment by Store/Department/Week-pattern	Integer	"7 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of ipddpl5i.txt extract file format:

THR   S303   44   7

ipddpl6i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Delivery-day demand percent by Location/Week-pattern	Indicates what portion of a day's forecast demand can be met by a delivery on that day. Warehouses are restricted to 0% or 100%.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	ipddpl6i
Source Object Name	ipddpl6i.txt	Target Object Database	data/ddpl6
Required/Optional	Optional	Target Object Load Intersection	dow_dstk

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
Value	Delivery-day demand percent by Location/Week-pattern	29	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
Value	Delivery-day demand percent by Location/Week-pattern	Real	".75 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of **ipddpl6i.txt** extract file format:

THR   S303   .75

iphrslsprofi.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Hourly sales profile	Indicates the cumulative percentage of the day's sales that have been completed, by hour.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	iphrslsprofi
Source Object Name	iphrslsprofi.txt	Target Object Database	data/slsprof
Required/Optional	Optional	Target Object Load Intersection	dow_dstk_seq_scls

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
SEQ	Sequence Number	29	20
SCLS	Subclass	49	20
Value	Hourly sales profile	69	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
SEQ	Sequence Number	String	"0007 "
SCLS	Subclass	Integer	"44_604_1466 "
Value	Hourly sales profile	Real	".75 " NaVal = 1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of iphrslsprofi.txt extract file format:

THR   S303   0007   44_604_1466   .75

iponshelfl1i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	On-shelf Time by Store/SKU/Day	Indicates the time that a delivery is placed on the store shelf to fulfill consumer demand. Time is specified down to the nearest minute from 0001 to 2400.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	iponshelfl1i
Source Object Name	iponshelfl1i.txt	Target Object Database	data/onshelfl1
Required/Optional	Optional	Target Object Load Intersection	day_dstk_sku

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
SKU	SKU	30	20
Value	On-shelf Time by Store/SKU/Day	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
DSTK	Destination Stocking Point	String	"S303 "
SKU	SKU	Integer	"118525 "
Value	On-shelf Time by Store/SKU/Day	Integer	"1230 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of iponshelfl1i.txt extract file format:

D20060401S303   118525   1230

iponshelfl2i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	On-shelf Time by Store/Department/Day	Indicates the time that a delivery is placed on the store shelf to fulfill consumer demand. Time is specified down to the nearest minute from 0001 to 2400.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	iponshelfl2i
Source Object Name	iponshelfl2i.txt	Target Object Database	data/onshelfl2
Required/Optional	Optional	Target Object Load Intersection	day_dstk_dept

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DAY	Day	1	9
DSTK	Destination Stocking Point	10	20
DEPT	Department	30	20
Value	On-shelf Time by Store/Department/Day	50	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20060401"
DSTK	Destination Stocking Point	String	"S303 "
DEPT	Department	Integer	"44 "
Value	On-shelf Time by Store/Department/Day	Integer	"1230 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of iponshelfl2i.txt extract file format:

D20060401S303   44   1230

iponshelfl3i.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	On-shelf Time by Store/Department/Week-pattern	Indicates the time that a delivery is placed on the store shelf to fulfill consumer demand. Time is specified down to the nearest minute from 0001 to 2400.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
N/A	N/A	N/A	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	External Systems	Target Object Type	RPAS Measure
Source Object Type	Fixed-length Text File	Target Object Name	iponshelfl3i
Source Object Name	iponshelfl3i.txt	Target Object Database	data/onshelfl3
Required/Optional	Optional	Target Object Load Intersection	dow_dstk_dept

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
DOW	Day of Week	1	8
DSTK	Destination Stocking Point	9	20
DEPT	Department	29	20
Value	On-shelf Time by Store/Department/Week-pattern	49	8

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DOW	Day of Week	String	"THR "
DSTK	Destination Stocking Point	String	"S303 "
DEPT	Department	Integer	"44 "
Value	On-shelf Time by Store/Department/Week-pattern	Integer	"1230 " NaVal = -1

Formatting Conditions

Value	Prefix (Case Sensitive)
Supplier	V
Warehouses	W
Stores	S

Example of iponshelfl3i.txt extract file format:

THR   S303   44   1230

14

RO Integration

The RO integration scheme is broken into two by location type, stores and warehouses.

Breaking the integration scheme serves two purposes:

- It allows the optimization system to be implemented for stores and not warehouses while running a full implementation of AIP.

- It allows AIP to be set up to run a Stores-first implementation that would not execute warehouse replenishment and therefore would not require optimization.

Store Measure Data

The data mapping in this section is for stores only.

File and Measure Summary

Table 14–1 displays the measure files AIP receives from RO.

Table 14–1   Measure Files AIP Receives from RO

File Name	Measures Loaded
STR_MINMAX.[txt|csv]	sr0_minstk_i, sr0_maxstk_i, and sr0_rplmtd_i
STR_DYNAMIC.[txt|csv]	sr0_svclvl_i, sr0_isd_i, and sr0_rplmtd_i
STR_TIMESUPPLY.[txt|csv]	sr0_mints_day_i, sr0_maxts_day_i, sr0_ts_hzn_i, and sr0_rplmtd_i
STR_HYBRID.[txt|csv]	sr0_mints_day_i, sr0_isd_i, and sr0_rplmtd_i
STR_POISSON.[txt|csv]	sr0_svclvl_i, sr0_isd_i, and sr0_rplmtd_i
STR_MINSS.[txt|csv]	sr0_minss_unt_i
STR_ROUpdate.[txt|csv]	iproupdtstri

STR_MINMAX

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Min Stock	Measure at the SKU/Store/Day level; Used in MIN/MAX Replenishment Method. Min Stock is used in determining the inventory level at which replenishment is triggered.
Measure	Store Max Stock	Measure at the SKU/Store/Day level; set in MIN/MAX Replenishment Method. The receipt plan quantity is calculated to bring Net Inventory up to the max.
Measure	Store Repl Method	Measure at the SKU/Store/Day level; The Replenishment Method determines the type of calculations that will be used in generating a store replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	ro_export_to_aip.sh	exportMinMax.xml, createFile.xml, and transferFilePositions.xml	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	sr0_minstk_i, sr0_maxstk_i, and sr0_rplmtd_i
Source Object Name	STR_MINMAX.[txt|csv]	Target Object Database	data/sr0_minstk_i, data/sr0_maxstk_i, and data/sr0_rplmtd_i
Required/Optional	Optional	Target Object Load Intersection	day_str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
STR_	Store	10	20
ITEM	SKU	30	20

Source Fields	Source Field Description	Field Start Position	Field Width
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
STR_	Store	String	"1001 "
SKU_	SKU	String	"123456 "
sr0_minstk_i	Store Min Stock	Real	"123.456 "
sr0_maxstk_i	Store Max Stock	Real	"123.456 "
sr0_rplmtd_i	Store Replenishment Method	Integer	"1 "

Examples

Example of STR_MINMAX.txt file:

```
"20081231 1001                123456                123.456  123.456  1          "
```
Example of STR_MINMAX.csv file:

```
"20081231,1001,123456,123.456,123.456,1"
```

STR_DYNAMIC

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Service Level	Measure at the SKU/Store/Day level; Used in Dynamic and Poisson Replenishment Methods. Specifies the target percentage level for customer service of a given item at a store. For example, if the goal is to carry enough safety stock to maintain a 90% customer service level, .90 should be entered.
Measure	Store Inventory Selling Days	Measure at the SKU/Store/Day level; Used to specify number of Days of forecasted quantity to be used when calculating the Receive Up To Level (RUTL). Used in Hybrid, Dynamic, Poisson, and Loaded SS Dynamic Replenishment Methods. For example, to ensure an order will contain at least 14 days of supply, 14 would be entered. **Note:** The greater of Inventory Selling Days, and Review Time will be used in the RUTL calculation.

Data Type	Data Element Name	Data Description
Measure	Store Repl Method	Measure at the SKU/Store/Day level; The Replenishment Method determines the type of calculations that will be used in generating a store replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	ro_export_to_aip.sh	exportDynamic.xml, createFile.xml, and transferFilePositions.xml	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	sr0_svclvl_i, sr0_isd_i, and sr0_rplmtd_i
Source Object Name	STR_DYNAMIC.[txt|csv]	Target Object Database	data/sr0_svclvl_i, data/sr0_isd_i, and data/sr0_rplmtd_i
Required/Optional	Optional	Target Object Load Intersection	day_str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
STR_	Store	10	20
ITEM	SKU	30	20
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR_	Store	String	"1001 "
SKU_	SKU	String	"123456 "
sr0_svclvl_i	Store Service Level	Real	"123.456 "
sr0_isd_i	Store Inventory Selling Days	Real	"123.456 "
sr0_rplmtd_i	Store Replenishment Method	Integer	"3 "

Examples

Example of STR_DYNAMIC.txt file:

```
"20081231 1001              123456              123.456  123.456              3"
```
Example of STR_DYNAMIC.csv file:

```
"20081231 1001,123456,123.456,123.456,3"
```

STR_TIMESUPPLY

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Min Time Supply Days	Measure at the SKU/Store/Day level; Used in Time Supply Replenishment Method. It represents minimum stock level in Days that are desired on hand to satisfy demand. Min Time Supply Days is used in both safety stock and receipt point calculations. For example, to ensure a minimum inventory level is at least 14 Days of supply, 14 would be entered.
Measure	Store Max Time Supply Days	Measure at the SKU/Store/Day level; Used in the Time Supply Replenishment Method. It represents maximum stock level in Days that are desired on hand to satisfy demand. The receipt plan quantity is calculated to bring Net Inventory up to Maximum Time Supply Days. For example, to limit an order to bring the inventory level to no more than to 14 Days of supply, 14 would be entered.
Measure	Store Time Supply Horizon	Measure at the SKU/Store/Day level; The number of Days of forecast used to calculate an average forecast (rate of sale). The Rate of Sale (ROS) is then multiplied by the minimum time supply days to generate the safety stock. The Time Supply Horizon can be used to smooth spiky forecasts over a longer time period or extend forecasts if the forecasts are not generated throughout the desired days of supply. Used in Time Supply Replenishment Method. **Note:** When time supply horizon is specified, ROS is used instead of the actual forecast.
Measure	Store Repl Method	Measure at the SKU/Store/Day level; The Replenishment Method determines the type of calculations that will be used in generating a store replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	ro_export_to_aip.sh	exportTimeSupply.xml, createFile.xml, and transferFilePositions.xml	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	sr0_mints_day_i, sr0_maxts_day_i, sr0_ts_hzn_i, and sr0_rplmtd_i
Source Object Name	STR_TIMESUPPLY.[txt|csv]	Target Object Database	data/sr0_mints_day_i, data/sr0_maxts_day_i, data/sr0_ts_hzn_i, and data/sr0_rplmtd_i
Required/Optional	Optional	Target Object Load Intersection	day_str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
STR_	Store	10	20
ITEM	SKU	30	20
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aipreplAxP1_	Auxiliary Replenishment Parameter 1	70	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
STR_	Store	String	"1001 "
SKU_	SKU	String	"123456 "
sr0_mints_day_i	Store Min Time Supply Days	Real	"123.456 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
sr0_maxts_day_i	Store Max Time Supply Days	Real	"123.456 "
sr0_ts_hzn_i	Store Time Supply Horizon	Real	"123.456 "
sr0_rplmtd_i	Store Replenishment Method	Integer	"2 "

Examples

Example of STR_TIMESUPPLY.txt file:

```
"20081231 1001 123456 123.456 123.456 123.456 2"
```
Example of STR_TIMESUPPLY.csv file:

```
"20081231,1001,123456,123.456,123.456,123.456,2"
```

STR_HYBRID

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Min Time Supply Days	Measure at the SKU/Store/Day level; Used in Time Supply Replenishment Method. It represents minimum stock level in Days that are desired on hand to satisfy demand. Min Time Supply Days is used in both safety stock and receipt point calculations. For example, to ensure a minimum inventory level is at least 14 Days of supply, 14 would be entered.
Measure	Store Inventory Selling Days	Measure at the SKU/Store/Day level; Used to specify number of Days of forecasted quantity to be used when calculating the Receive Up To Level (RUTL). Used in Hybrid, Dynamic, Poisson and Loaded SS Dynamic Replenishment Methods. For example, to ensure an order will contain at least 14 days of supply, 14 would be entered. **Note:** The greater of Inventory Selling Days and Review Time will be used in the RUTL calculation.
Measure	Store Repl Method	Measure at the SKU/Store/Day level; The Replenishment Method determines the type of calculations that will be used in generating a store replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	ro_export_to_aip.sh	exportHybrid.xml, createFile.xml, and transferFilePositions.xml	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	sr0_mints_day_i, sr0_isd_i, and sr0_rplmtd_i
Source Object Name	STR_HYBRID.[txt|csv]	Target Object Database	sr0_mints_day_i, sr0_isd_i, and sr0_rplmtd_i
Required/Optional	Optional	Target Object Load Intersection	day_str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
STR_	Store	10	20
ITEM	SKU	30	20
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
STR_	Store	String	"1001 "
SKU_	SKU	String	"123456 "
sr0_mints_day_i	Store Min Time Supply Days	Real	"123.456 "
sr0_isd_i	Store Inventory Selling Days	Real	"123.456 "
sr0_rplmtd_i	Store Replenishment Method	Integer	"5 "

Examples

Example of STR_HYBRID.txt file:

```
"20081231 1001                   123456                123.456   123.456   5            "
```
Example of STR_HYBRID.csv file:

```
"20081231,1001,123456,123.456,123.456,5"
```

STR_POISSON

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Service Level	Measure at the SKU/Store/Day level; Used in Dynamic and Poisson Replenishment Methods. Specifies the target percentage level for customer service of a given item at a store. For example, if the goal is to carry enough safety stock to maintain a 90% customer service level, .90 should be entered.
Measure	Store Inventory Selling Days	Measure at the SKU/Store/Day level; Used to specify number of Days of forecasted quantity to be used when calculating the Receive Up To Level (RUTL). Used in Hybrid, Dynamic, Poisson, and Loaded SS Dynamic Replenishment Methods. For example, to ensure an order will contain at least 14 days of supply, 14 would be entered. **Note:** The greater of Inventory Selling Days and Review Time will be used in the RUTL calculation.
Measure	Store Repl Method	Measure at the SKU/Store/Day level; The Replenishment Method determines the type of calculations that will be used in generating a store replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	ro_export_to_aip.sh	exportPoisson.xml, createFile.xml, and transferFilePositions.xml	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	sr0_svclvl_i, sr0_isd_i, and sr0_rplmtd_i
Source Object Name	STR_POISSON.[txt|csv]	Target Object Database	data/sr0_svclvl_i, data/sr0_isd_i, and data/sr0_rplmtd_i
Required/Optional	Optional	Target Object Load Intersection	day_str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9

Source Fields	Source Field Description	Field Start Position	Field Width
STR_	Store	10	20
ITEM	SKU	30	20
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
STR_	Store	String	"1001 "
SKU_	SKU	String	"123456 "
sr0_svclvl_i	Store Service Level	Real	"123.456 "
sr0_isd_i	Store Inventory Selling Days	Real	"123.456 "
sr0_rplmtd_i	Store Replenishment Method	Integer	"7 "

Examples

Example of STR_POISSON.txt file:

```
"20081231 1001                123456                123.456  123.456  7          "
```
Example of STR_POISSON.csv file:

```
"20081231,1001,123456,123.456,123.456,7"
```

STR_MINSS

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Measure	Measure at the SKU/Store/Day level; Used in Minimum Safety Stock Boundaries calculation to specify the minimum number of Units to be kept on hand as safety stock. Used in Hybrid, Poisson, and Dynamic Replenishment Methods. For example, to ensure the number of units of safety stock is at least 10 Units, 10 would be entered.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	ro_export_to_aip.sh	exportMinSafetyStock.xml, createFile.xml, and transferFilePositions.xml	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	sr0_minss_unt_i
Source Object Name	STR_MINSS.[txt|csv]	Target Object Database	data/minss_unt
Required/Optional	Optional	Target Object Load Intersection	day_str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
STR_	Store	10	20
ITEM	SKU	30	20
aipreplaxp2_	Auxiliary Replenishment Parameter 2	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
STR_	Store	String	"1001 "
SKU_	SKU	String	"123456 "
sr0_minss_unt_i	Store Min Safety Stock Units	Real	"123.456 "

Exampless

Example of STR_MINSS.txt file:

```
"20081231 1001                 123456              123.456   "
```
Example of STR_MINSS.csv file:

```
"20081231,1001,123456,123.456"
```

STR_ROUpdate

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Replenishment Optimization Update for Stores	Mask measure provided by the Replenishment Optimization (RO) system. This measure is used to limit what data will be extracted out of AIP for the purposes of updating values in RO. The mask also indicates which SKU/stores will be optimized in the next run of RO.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	ro_export_to_aip.sh	exportRoUpdate.xml, createFile.xml, and transferFilePositions.xml	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	iproupdtstri
Source Object Name	STR_ROUpdate.[txt|csv]	Target Object Database	data/ro
Required/Optional	Optional	Target Object Load Intersection	str_sku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR_	Store	1	20
ITEM	SKU	21	20
aipintxupd_	AIP Intersection Update	41	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR_	Store	String	"1001 "
SKU_	SKU	String	"123456 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
iproupdtstri	Replenishment Optimization Update for Stores	Boolean	"1 "

Examples

Example of STR_ROUpdate.txt file:

```
"1001              123456              1          "
```
Example of STR_ROUpdate.csv file:

```
"1001,123456,1"
```

Warehouse Data Interfaces

The mapping data in this section is for warehouses only. AIP supports the import of warehouse replenishment data; however, optimization of warehouse replenishment cannot be supported by the receiving application. Check the *Oracle Retail Replenishment Optimization* guides and the Retailer's specific implementation to determine if warehouses can be optimized.

File and Measure Summary

Table 14–2 lists the measure files AIP receives from an optimization system that is capable of optimizing warehouses.

Table 14–2   Measure Files AIP Receives from an Optimization System

File Name	Measures Loaded
WH_MINMAX.[txt|csv]	ipminstke, ipmaxstke, and iprplmtde
WH_DYNAMIC.[txt|csv]	ipsvclvle, ipisde, and iprplmtde
WH_TIMESUPPLY.[txt|csv]	ipmindaytse, ipmaxdaytse, iptshzne, and iprplmtde
WH_HYBRID.[txt|csv]	ipmindaytse, ipisde, and iprplmtde
WH_MINSS.[txt|csv]	ipssminunte
WH_ROUpdate.[txt|csv]	iproupdtwhi

WH_MINMAX

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Minimum Stock Exception	Measure at the SKU/Dstk/Day level; Used in MIN/MAX Replenishment Method. Min Stock is used in determining the inventory level at which replenishment is triggered.
Measure	Maximum Stock Exception	Measure at the SKU/Dstk/Day level; set in MIN/MAX Replenishment Method. The receipt plan quantity is calculated to bring Net Inventory up to the max.

Data Type	Data Element Name	Data Description
Measure	Replenishment Method Exception	Measure at the SKU/Dstk/Day level; The Replenishment Method determines the type of calculations that will be used in generating a warehouse replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	Unknown	Unknown	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	ipminstke, ipmaxstke, and iprplmtde
Source Object Name	WH_MINMAX.[txt|csv]	Target Object Database	data/MinStk, data/MaxStk, and data/RplMtd
Required/Optional	Optional	Target Object Load Intersection	day_dstksku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
Unknown	Warehouse	10	20
ITEM	SKU	30	20
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
WH__	Warehouse	String	"1001 "
SKU_	SKU	String	"123456 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
ipminstke	Minimum Stock Exception	Real	"123.456 "
ipmaxstke	Maximum Stock Exception	Real	"123.456 "
iprplmtde	Replenishment Method Exception	Integer	"1 "

Examples

Example of WH_MINMAX.txt file:

```
"20081231 1001              123456              123.456  123.456  1         "
```
Example of WH_MINMAX.csv file:

```
"20081231,1001,123456,123.456,123.456,1"
```

WH_DYNAMIC

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Service Level Exception	Measure at the SKU/Dstk/Day level; Used in Dynamic, and Poisson Replenishment Methods. Specifies the target percentage level for customer service of a given item at a warehouse. For example, if the goal is to carry enough safety stock to maintain a 90% customer service level, .90 should be entered.
Measure	Inventory Selling Days Exception	Measure at the SKU/Dstk/Day level; Used to specify number of Days of forecasted quantity to be used when calculating the Receive Up To Level (RUTL). Used in Hybrid, Dynamic, Poisson, and Loaded SS Dynamic Replenishment Methods. For example, to ensure an order will contain at least 14 days of supply, 14 would be entered. **Note:** The greater of Inventory Selling Days, and Review Time will be used in the RUTL calculation.
Measure	Replenishment Method Exception	Measure at the SKU/Dstk/Day level; The Replenishment Method determines the type of calculations that will be used in generating a warehouse replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	Unknown	Unknown	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures

Data Source Details		Target Data Details	
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	ipsvclvle, ipisde, and iprplmtde
Source Object Name	WH_DYNAMIC	Target Object Database	data/SvcLvl, data/Isd, and data/RplMtd
Required/Optional	Optional	Target Object Load Intersection	day_dstksku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
Unknown	Warehouse	10	20
ITEM	SKU	30	20
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
WH__	Warehouse	String	"1001 "
SKU_	SKU	String	"123456 "
ipsvclvle	Service Level Exception	Real	"123.456 "
ipisde	Inventory Selling Days Exception	Real	"123.456 "
iprplmtde	Replenishment Method Exception	Integer	"3 "

Examples

Example of WH_DYNAMIC.txt file:

```
"20081231 1001                123456              123.456  123.456  1          "
```

Example of WH_DYNAMIC.csv file:

```
"20081231,1001,123456,123.456,123.456,1"
```

WH_TIMESUPPLY

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Minimum Time Supply Days Exception	Measure at the SKU/Dstk/Day level; Used in Time Supply Replenishment Method. It represents minimum stock level in Days that are desired on hand to satisfy demand. Min Time Supply Days is used in both safety stock and receipt point calculations. For example, to ensure a minimum inventory level is at least 14 Days of supply, 14 would be entered.
Measure	Maximum Time Supply Days Exception	Measure at the SKU/Dstk/Day level; Used in the Time Supply Replenishment Method. It represents maximum stock level in Days that are desired on hand to satisfy demand. The receipt plan quantity is calculated to bring Net Inventory up to Maximum Time Supply Days. For example, to limit an order to bring the inventory level to no more than to 14 Days of supply, 14 would be entered.
Measure	Time Supply Horizon Exception	Measure at the SKU/Dstk/Day level; The number of Days of forecast used to calculate an average forecast (rate of sale). The Rate of Sale (ROS) is then multiplied by the minimum time supply days to generate the safety stock. The Time Supply Horizon can be used to smooth spiky forecasts over a longer time period or extend forecasts if the forecasts are not generated throughout the desired days of supply. Used in Time Supply Replenishment Method. **Note:** When time supply horizon is specified, ROS is used instead of the actual forecast.
Measure	Replenishment Method Exception	Measure at the SKU/Dstk/Day level; The Replenishment Method determines the type of calculations that will be used in generating a warehouse replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	Unknown	Unknown	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	ipmindaytse, ipmaxdaytse, iptshzne, and iprplmtde
Source Object Name	WH_TIMESUPPLY	Target Object Database	data/MinDayTs, data/MaxDayTs, data/TsHzn, and data/RplMtd

Data Source Details		Target Data Details	
Required/Optional	Optional	Target Object Load Intersection	day_dstksku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
Unknown	Warehouse	10	20
ITEM	SKU	30	20
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aipreplAxP1_	Auxiliary Replenishment Parameter 1	70	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
WH__	Warehouse	String	"1001 "
SKU_	SKU	String	"123456 "
ipmindaytse	Minimum Time Supply Days Exception	Real	"123.456 "
ipmaxdaytse	Maximum Time Supply Days Exception	Real	"123.456 "
iptshzne	Time Supply Horizon Exception	Real	"123.456 "
iprplmtde	Replenishment Method Exception	Integer	"2 "

Examples

Example of WH_TIMESUPPLY.txt file:

```
"20081231 1001                  123456                  123.456   123.456   123.456   1"
```
Example of WH_TIMESUPPLY.csv file:

```
"20081231,1001,123456,123.456,123.456,123.456,1"
```

WH_HYBRID

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Minimum Time Supply Days Exception	Measure at the SKU/Dstk/Day level; Used in Time Supply Replenishment Method. It represents minimum stock level in Days that are desired on hand to satisfy demand. Min Time Supply Days is used in both safety stock and receipt point calculations. For example, to ensure a minimum inventory level is at least 14 Days of supply, 14 would be entered.
Measure	Inventory Selling Days Exception	Measure at the SKU/Dstk/Day level; Used to specify number of Days of forecasted quantity to be used when calculating the Receive Up To Level (RUTL). Used in Hybrid, Dynamic, Poisson, and Loaded SS Dynamic Replenishment Methods. For example, to ensure an order will contain at least 14 days of supply, 14 would be entered. **Note:** The greater of Inventory Selling Days and Review Time will be used in the RUTL calculation.
Measure	Replenishment Method Exception	Measure at the SKU/Dstk/Day level; The Replenishment Method determines the type of calculations that will be used in generating a warehouse replenishment plan. The default is No Replenishment.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	Unknown	Unknown	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measures
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	ipmindaytse, ipisde, and iprplmtde
Source Object Name	WH_HYBRID	Target Object Database	data/MinDayTs, data/Isd, and data/RplMtd
Required/Optional	Optional	Target Object Load Intersection	day_dstksku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
Unknown	Warehouse	10	20
ITEM	SKU	30	20
aipreplpval1_	Replenishment Parameter 1	50	10
aipreplpval2_	Replenishment Parameter 2	60	10
aiprplmtd_	Replenishment Method	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
WH__	Warehouse	String	"1001 "
SKU_	SKU	String	"123456 "
ipmindaytse	Minimum Time Supply Days Exception	Real	"123.456 "
ipisde	Inventory Selling Days Exception	Real	"123.456 "
iprplmtde	Replenishment Method Exception	Integer	"5 "

Examples

Example of WH_HYBRID.txt file:

```
"20081231 1001                 123456                123.456  123.456  5          "
```
Example of WH_HYBRID.csv File

```
"20081231,1001,123456,123.456,123.456,1"
```

WH_MINSS

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Minimum Safety Stock Units Exception	Measure at the SKU/Dstk/Day level; Used in Minimum Safety Stock Boundaries calculation to specify the minimum number of Units to be kept on hand as safety stock. Used in Hybrid, Poisson, and Dynamic Replenishment Methods. For example, to ensure the number of Units of safety stock is at least 10 Units, 10 would be entered. **Note:** If both Min SS Days and Min SS Units are entered, the larger of min SS units and demand over min SS days is used.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	Unknown	Unknown	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	ipssminunte
Source Object Name	WH_MINSS	Target Object Database	data/SsMinUnt
Required/Optional	Optional	Target Object Load Intersection	day_dstksku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
aipefctvdate_	Effective date	1	9
Unknown	Warehouse	10	20
ITEM	SKU	30	20
aipreplaxp2_	Auxiliary Replenishment Parameter 2	80	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY_	Day	String	"20081231 "
WH__	Warehouse	String	"1001 "
SKU_	SKU	String	"123456 "
ipssminunte	Minimum Safety Stock Units Exception	Real	"123.456 "

Examples

Example of WH_MINSS.txt file:

```
"20081231 1001                123456              123.456   "
```
Example of WH_MINSS.csv file:

```
"20081231,1001,123456,123.456"
```

WH_ROUpdate

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Replenishment Optimization Update for Stores	Mask measure provided by the Replenishment Optimization (RO) system. This measure is used to limit what data will be extracted out of AIP for the purposes of updating values in RO. The mask also indicates which SKU/stores will be optimized in the next run of RO.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	Unknown	Unknown	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	RO	Target Object Type	RPAS Measure
Source Object Type	Fixed Length Text File or Comma Separated Values File	Target Object Name	iproupdtwhi
Source Object Name	STR_ROUpdate	Target Object Database	data/ro
Required/Optional	Optional	Target Object Load Intersection	dstksku_

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
Unknown	Warehouse	1	20
ITEM	SKU	21	20
aipintxupd_	AIP Intersection Update	41	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
WH__	Warehouse	String	"1001 "
SKU_	SKU	String	"123456 "
iproupdtwhi	Replenishment Optimization Update for Stores	Boolean	"1 "

Examples

Example of WH_ROUpdate.txt file:

```
"1001                123456                1          "
```
Example of WH_ROUpdate.csv file:

```
"1001,123456,1"
```

15

AIP to RMS Interfaces and Data Mapping

This chapter describes and details how to configure AIP Online to publish Purchase Order and Transfer Data to the Oracle Retail Merchandising System (RMS) through the Oracle Retail Integration Bus (RIB).

RIB Publications

The Oracle Retail Integration Bus (RIB) is a near real-time data synchronization solution used by AIP for publishing orders to RMS. Order publication begins with the order release batch adding the affected order to the appropriate message family queue staging table and marking each message with a sequence number. AIP publishes two sets of order messages to the RIB: Purchase Orders, and Transfers. RMS subscribes to the RIB messages and inserts the orders into the appropriate RMS Purchase Order and Transfer tables.

AIP Message Flow

A polling operation on the database triggers the message creation. The polling is performed by two threads:

- One for the PO_MFQUEUE staging table

- One for the TSF_MFQUEUE staging table

The polling is controlled by the configuration settings in the main.properties file.

- The order period count defines the number of time intervals that are to be used. An order period count of 0 indicates that no orders will be released. If the order period count is 0, no threads are started.

- The time interval defines the amount of time the threads sleep. A thread will not go to sleep until less than the maximum number of allowable messages is processed in a given call to the publisher (OrderSenderBean). Publishing less than the maximum allowable messages indicates that all orders on the staging table (at the time it was queried) have been processed. Any orders added to the staging table afterward will be processed the next time the thread wakes up and the publisher is invoked.

- For each order period count greater than zero, an order period start and order period end must be added to the properties file. When the thread wakes up and the current time falls between the start and end of any of the intervals (up to X intervals where X is the order period count), the thread will call the publication procedure. If desired, various time intervals can be created to manage the publication of orders by forcing the threads to only poll the staging tables between certain time periods.

- The publisher is an Enterprise Java Session Bean named OrderSenderBean. The checkAndPublish method will query the staging table and the base order table to get the message detail. The publisher will also ensure that messages are published to the RIB in the correct order.

- Once the message payload is built by the OrderSenderBean, the RIB message publisher takes the payload and wraps it with an envelope used by the RIB infrastructure.

Purchase Order Messages

The purchase order publication messages are in the XOrder message family. In AIP, this message family processes the staged orders on the PO_MFQUEUE table.

There are four purchase order message types used by AIP:

- XORDERCRE

- XORDERDTLCRE

- XORDERMOD

- XORDERDTLMOD.

All four message types use the XOrderDesc.xsd.

XORDERCRE

This message type indicates that a brand new purchase order is being sent to RMS. The orders are sent to RMS in an *A*, indicating Approved status. This message type is inserted into PO_MFQUEUE in three different circumstances:

1. The purchase order was released by the batch, or you have chosen to release the purchase order in the OM Order Maintenance window.

2. You have created a new purchase order in the OM Order Create window.

3. In the OM Order Maintenance window, you have chosen to move a purchase order delivery date and/or destination and generated a new order number.

XORDERDTLCRE

This message type indicates a new line item is being added to the purchase order after the order was externally communicated. This message type is inserted into PO_MFQUEUE when you have moved the purchase order destination and chosen to retain the existing order number, and the destination does not already exist on the order for that item.

XORDERMOD

This message type indicates that a modification was made to the overall purchase order details (header level information). This message type is inserted into PO_MFQUEUE in the following circumstances:

1. You have moved the purchase order delivery date and chosen to retain the existing order number.

2. You have canceled all ordered quantity of all items on the purchase order. The total order quantity for the entire purchase order is zero. The purchase order is sent to RMS with a *C*, indicating Canceled status.

XORDERDTLMOD

This message type indicates that a modification was made to the purchase order line items after the order was externally communicated. This message type is inserted into PO_MFQUEUE when you perform various actions in the OM Order Maintenance window.

1. You have modified the order quantity of a purchase order that is not *Closed*.

2. You have chosen to move a purchase order line item to a new destination and retain the order number. If the *move to* destination already exists on the order, a message will be written to the staging table to increase the quantity at the *move to* location.

> **Note:** Only one message can be inserted for the *move to* destination. This will either be an XORDERDTLCRE if the destination is new or XORDERDTLMOD if the SKU is already being delivered to the *move to* destination.

The order quantity of the *move from* destination must be decremented to equal the received quantity. A message will be staged for the *move from* destination.

Transfer Messages

The transfer publication messages are in the XTsf message family. In AIP, this message family processes the staged orders on the TSF_MFQUEUE table.

There is one transfer message type used by AIP: XTSFCRE, and it uses the XTsfDesc.xsd.

XTSFCRE

This message type indicates that a brand new transfer is being sent to RMS. The transfers are sent to RMS in an *A* for Approved status. This message type is inserted into TSF_MFQUEUE when the transfer is released by the batch.

AIP to RMS Data

The Order Management application within AIP releases the necessary data to be sent to RMS into staging tables.

Messages Layout Tables

Data sent into RMS is listed in these tables:

- Table 15–1, " Purchase Order Header Message Layout"
- Table 15–2, " Purchase Order - Detail Message Layout"
- Table 15–3, " Transfers - Header Message Layout"
- Table 15–4, " Transfers - Detail Message Layout"

Table 15–1   Purchase Order Header Message Layout

Column Name	Data Type	RIB XML Message Tag	Description/Comments
Order Number	String	order_no	Pre-defined unique number
Supplier ID	String	supplier	Supplier unique identifier
Currency Code	String	currency_code	
Terms	String	Terms	
Delivery Date	Date	not_before_date not_after_date	Earliest expected delivery date. Latest expected delivery date.
Open-to-buy End-of-Week Date	Date	otb_eow_date	
Department	Number	dept	
Status	String	Status	A status value of *W* for Worksheet or *A* for Approved is required for purchase order creation. A purchase order cannot be created in approved status without detail line items attached to it. Attempting to do so will result in message rejection.
Exchange Rate	Number	exchange_rate	
Include on Order indicator	String	include_on_ord_ind	
Written Date	Date	written_date	
Order Line Item Detail	Pointer	XOrderDtl	This is a pointer to the line item details. Depending on the message type, this tag is repeated for each line item. See Table 15–2, " Purchase Order - Detail Message Layout" .
Origin Indicator	String	orig_ind	Indicates the System of Origination.
EDI	String	edi_po_ind	
Pre-Mark Indicator	String	pre_mark_ind	
User ID	String	user_id	
User ID	String	Comment_desc	

Table 15–2   Purchase Order - Detail Message Layout

Column Name	Data Type	RIB XML Message Tag	Description/Comments
RMS SKU	String	XOrderDtl.item	Uses the RMS SKU mapping table to convert AIP commodity pack size into RMS SKU.
Location	Integer	XOrderDtl.location	Globally unique scheduling location identifier.
Unit Cost	Decimal	xOrderDtl.unit_cost	Not Available.

Table 15–2   (Cont.) Purchase Order - Detail Message Layout

Column Name	Data Type	RIB XML Message Tag	Description/Comments
Reference item	String	xOrderDtl.ref_item	
Origin Country Indicator	String	xOrderDtl.origin_country_id	
Supplier Pack Size	Decimal	XOrderDtl.supp_pack_size	
Order Quantity	Decimal	XOrderDtl.qty_ordered	
Location Type	String	XorderDtl.location_type	Order Destination Type: Store or Warehouse.
Cancel Indicator	String	xOrderDtl.cancel_ind	
Reinstate Indicator	String	xOrderDtl.reinstate_ind	

Table 15–3   Transfers - Header Message Layout

Column Name	Data Type	RIB XML Message Tag	Description/Comments
Transfer Number	Integer	tsf_no	Pre-defined unique number.
From Location Type	String	from_loc_type	
From Location	String	from_loc	
To Location Type	String	to_loc_type	
To Location	String	to_loc	
Delivery Date	Date	delivery_date	
Department	Integer	dept	Not available in AIP.
Routing Code	String	routing_code	Not available in AIP.
Freight Code	String	freight_code	Not available in AIP.
Transfer Type	String	tsf_type	
Transfer Detail	Pointer	XTsfDtl*	See Table 15–4, " Transfers - Detail Message Layout".
Transfer Status	String	status	
User ID	String	user_id	
Comments	String	comment_desc	

Table 15–4   Transfers - Detail Message Layout

Column Name	Data Type	RIB XML Message Tag	Description/Comments
RMS SKU	String	xTsfDtl.item	
Transfer Quantity	Decimal	xTsfDtl.tsf_qty	
Pack Size	Decimal	xTsfDtl.supp_pack_size	
Inventory Status	Integer	xTsfDtl.inv_status	
Unit Cost	Decimal	XTsfDtl.unit_cost	

Purchase Orders and Transfers Message Flow in AIP

Figure 15–1   Purchase Orders and Transfers Message Flow Diagram
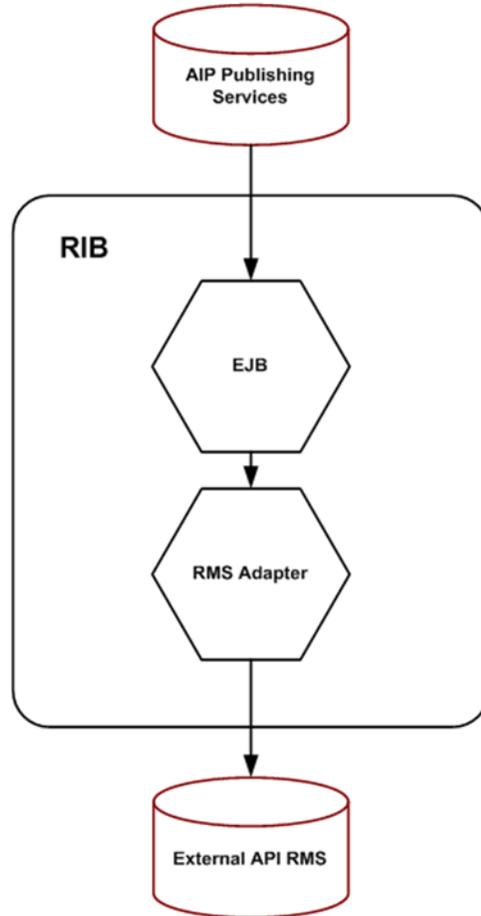
Store - Purchase Orders and Transfers Message Flow

Figure 15–2   Store - Purchase Orders and Transfers Message Flow Diagram (1 of 2)
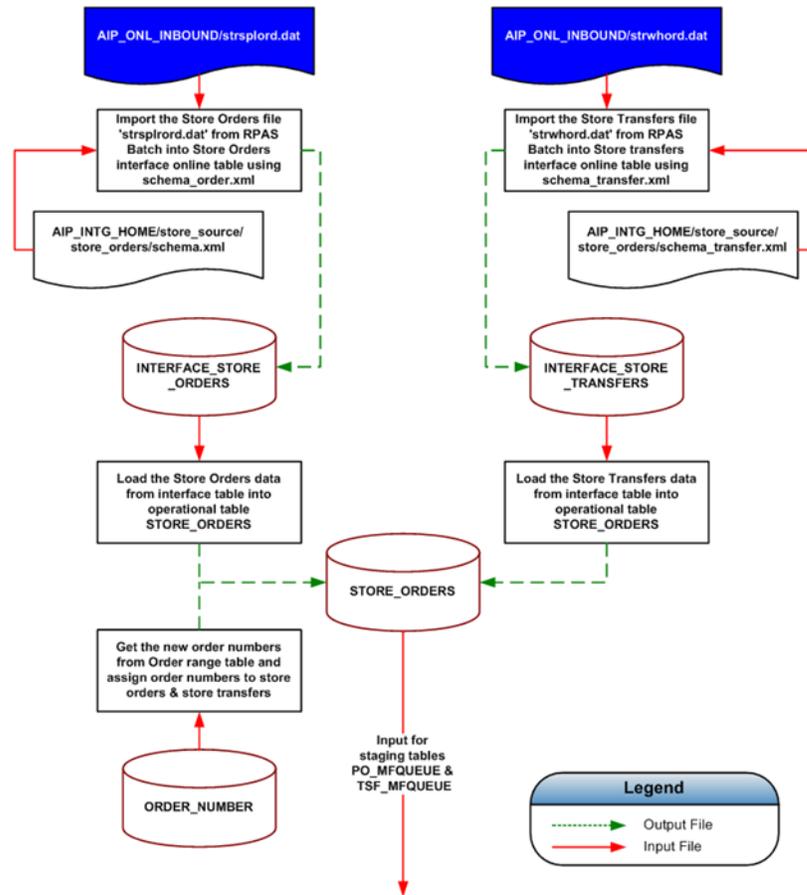
Figure 15–3   Store - Purchase Orders and Transfers Message Flow (2 of 2)
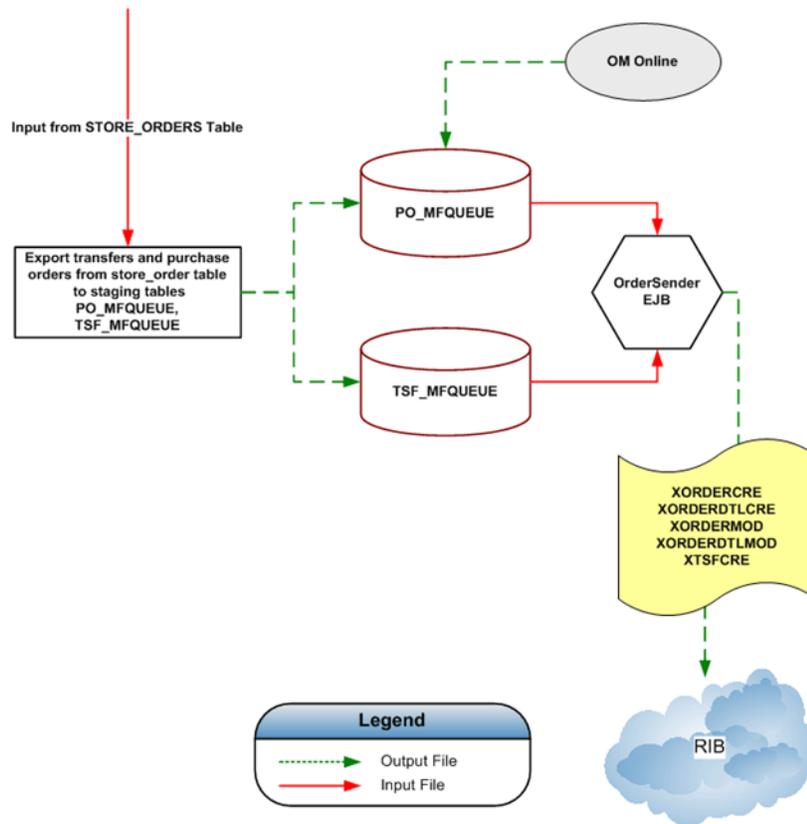
Warehouse - Purchase Orders and Transfers Message Flow

Figure 15–4   Warehouse - Purchase Orders and Transfers Message Flow Diagram (1 of 2)
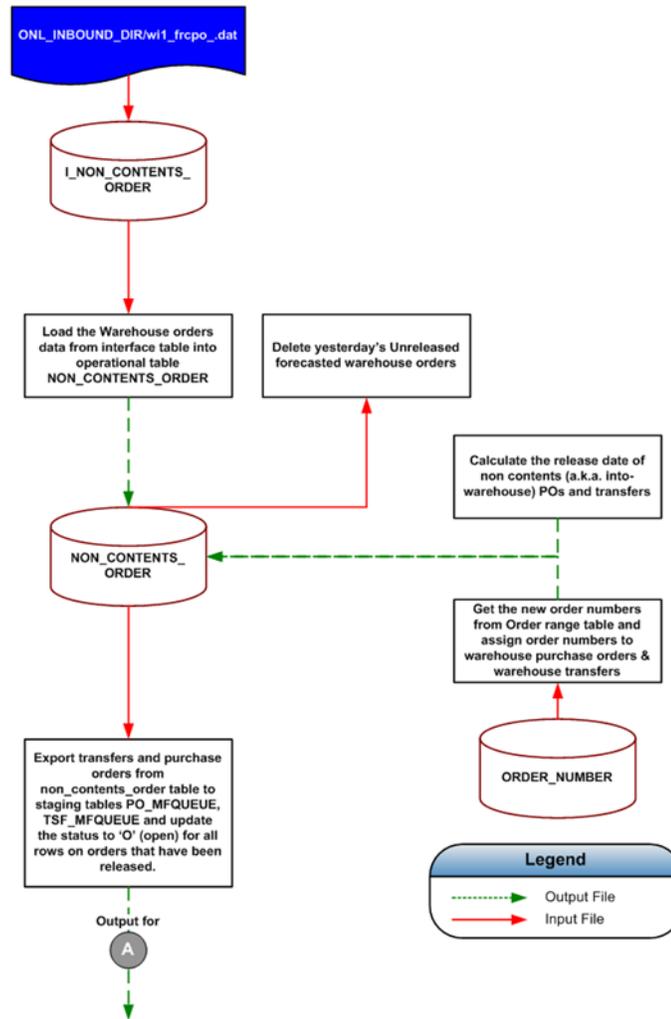
Figure 15–5   Warehouse - Purchase Orders and Transfers Message Flow (2 of 2)
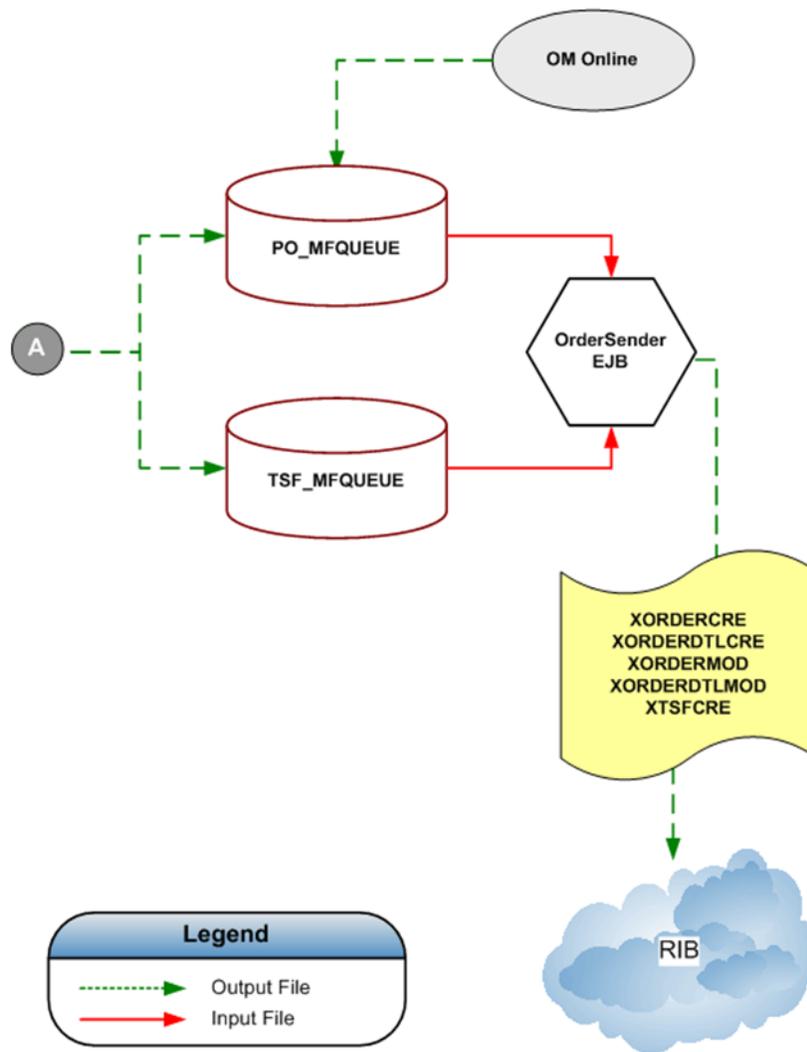
Data Formats for Creating Order - XORDERCRE

Data Element Details

Data Type	Data Element Name	Data Description
RIB Publication Message	Create Order	Contains Purchase Order header and details.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
EJB	OrderSenderBean.java	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RIB Message - Xorder Family
Source Tables/Files	STORE_ORDER, STORE, SUPPLIER, PO_MFQUEUE, COMMODITY_ MAPPING, NON_ CONTENTS_ ORDER, STOCKING_POINT	Target Object Name	XORDERCRE Message
		Target Load Type	N/A

Field Level Mapping - Source

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	PO_MFQUEUE	ORDER_NUMBER	Order Number	Number	(10,0)
2	SUPPLIER	SUPPLIER_CODE			
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	STORE_ORDER NON_ CONTENTS_ORDER	DELIVERY_DATE	Delivery Date	Date	N/A
6	STORE_ORDER NON_ CONTENTS_ORDER	DELIVERY_DATE	Delivery Date	Date	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	PO_MFQUEUE	STATUS	Status	Varchar2	1
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	XORDER Detail Records				

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
	COMMODITY_ MAPPING	RMS_SKU_NUMBER	RMS SKU	Varchar2	25
	STORE STOCKING_ POINT	STORE_CODE STOCKING_POINT_ NUMBER	Store Code Stocking Point Number	Varchar2	20
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	COMMODITY_ MAPPING	RMS_ORDER_ MULTIPLE	RMS Order Multiple	Number	8
	STORE_ORDER NON_ CONTENTS_ORDER COMMODITY_ MAPPING	CASE_VOLUME QUANTITY PACK_SIZE	Case Volume Quantity Pack Size	Number	8
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	order_no	The unique identifier for the order.	Varchar2	10	N/A
2	supplier	The identifier of the supplier from which the order will be sourced. This cannot be modified if details exist for the PO.	Varchar2	10	A substring is used to drop the *V* prefix that is appended to all RMS supplier numbers.
3	currency_code	The code of the order's currency.	Varchar2	3	Hardcoded as *NULL*.
4	terms	The sales terms of the order.	Varchar2	15	Hardcoded as *NULL*.
5	not_before_date	The first date that delivery will be accepted.	Date		Select the minimum delivery date from the order line items that are not closed. All order line items that are not closed will have the same delivery date.

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
6	not_after_date	The last date that delivery will be accepted.	Date		Select the maximum delivery date from the order line items that are not closed. All order line items that are not closed will have the same delivery date.
7	otb_eow_date	The end of week date of the OTB bucket used.	Date		Hardcoded as *NULL*.
8	dept	The department in which all the items are on the order.	Number	4	Hardcoded as *NULL*.
9	status	The code for the status of the order. Valid values are *W* for Worksheet and *A* for Approved for PO creation. It is also possible to modify the status to *C* for Closed.	Varchar2	1	The table column has a default of *A*.
10	exchange_rate	The rate of exchange for the PO used between the order and primary currencies.	Number	20	Hardcoded as *NULL*.
11	include_on_ord_ind	Indicates if the order should be included in on-order calculations.	Varchar2	1	Hardcoded as *NULL*.
12	written_date	The date the order was created.	Date		Hardcoded as *NULL*.
13	**XORDER Detail Records**				
	item	An approved, transaction level item.	Varchar2	25	N/A
	location	An active store or warehouse.	Number	(10,0)	A substring is used to drop the *S* prefix that is appended to all RMS store numbers and to drop the *W* prefix that is appended to all RMS warehouse numbers.
	unit_cost	The cost of the item from the supplier in the order's currency.	Number	(20,4)	Hardcoded as *NULL*.
	ref_item	The ID of a reference item that can be used instead of using the item field.	Varchar2	25	Hardcoded as *NULL*.
	origin_country_id	The identifier of the country from which the item is being sourced.	Varchar2	3	Hardcoded as *NULL*.
	supp_pack_size	The supplier pack size for the item on the order.	Number	(12,3)	The AIP SKU-pack size is mapped to the RMS Item and Order Multiple.

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
	qty_ordered	The quantity ordered of item.	Number	(12,4)	Non-pack SKUs·: ■ store_order.case_volume * commodity_mapping.pack_size ■ non_contents_order.quantity * commodity_mapping.pack_size Formal Pack SKUs: ■ store_order.case_volume ■ non_contents_order.quantity
	location_type	The location type of the location.	Varchar2	1	*S* indicates the destination location is a store. *W* indicates the destination location is a warehouse.
	cancel_ind	Indicates if the detail record's quantity should be cancelled.	Varchar2	1	Hardcoded as *NULL*.
	reinstate_ind	Indicates if a detail record that was previously cancelled should be reinstated.	Varchar2	1	Hardcoded as *NULL*.
14	origin_ind	Indicates where the order originated. Valid values include: 2 - Manual, 6 - AIP generated order, 7 , 8.	Varchar2	1	Six (6) is a unique RMS identifier that indicates the PO was created in AIP and is hardcoded.
15	edi_po_ind	Indicates whether or not the order is transmitted to the supplier through an Electronic Data Exchange transaction. Valid values are: Y = Submit byEDI, N = Do not use EDI.	Varchar2	1	Hardcoded as *NULL*.
16	pre_mark_ind	This field indicated whether or not a supplier has agreed to break an order into separate boxes so that the boxes can be sent directly to stores.	Varchar2	1	Hardcoded as *NULL*.
17	user_id	Indicates where the order was approved. It will be the user ID of the person approving the order.	Varchar2	30	Hardcoded as *NULL*.
18	comment_desc	Any comments pertaining to the order.	Varchar2	2000	Hardcoded as *NULL*.

Filtering Conditions

Store Orders

```
poQ.file_interface_ind = 'N' AND so.order_number = poQ.order_number AND so.future_
release_ind = 'N' AND so.supplier_id = supp.supplier_id AND so.commodity_
id=cm.commodity_id AND so.pack_size=cm.pack_size AND s.store_id=so.store_id AND
(poQ.store_order_id=so.store_order_id OR poQ.store_order_id IS NULL)
```

Warehouse Orders

```
poQ.file_interface_ind = 'N' AND nco.order_number = poQ.order_number AND
nco.source_type='V' AND nco.source_id=s.supplier_id AND nco.commodity_
id=cm.commodity_id AND nco.pack_size=cm.pack_size AND nco.stocking_point_id =
chamber.stocking_point_id AND (poQ.non_contents_order_id=nco.non_contents_order_id
OR poQ.non_contents_order_id IS NULL) AND wh.stocking_point_id(+) =
chamber.parent_stocking_point_id
```

Create Order Layout - XORDERDTLCRE

The Order Detail create message is in the same format and basic content as the Order
Create message; however, the message will only contain any new order line items. Any
line items that have already been communicated to RMS will not be included in an
Order Detail Create message.

Data Element Details

Data Type	Data Element Name	Data Description
RIB Publication Message	Create Order Detail	Contains Purchase Order Header and new detail information.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
EJB	OrderSenderBean.java	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RIB Message - Xorder Family
Source Tables/Files	STORE_ORDER, STORE, SUPPLIER, PO_MFQUEUE, COMMODITY_MAPPING, NON_CONTENTS_ORDER, STOCKING_POINT	Target Object Name	XORDERDTL Detail Message
		Target Load Type	N/A

Field Level Mapping - Source

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	COMMODITY_ MAPPING	RMS_SKU_NUMBER	RMS SKU	Varchar2	25

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
2	STORE STOCKING_ POINT	STORE_CODE STOCKING_POINT_ NUMBER	Store Code Stocking Point Number	Varchar2	20
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	COMMODITY_ MAPPING	RMS_ORDER_ MULTIPLE	RMS Order Multiple	Number	8
7	STORE_ORDER NON_ CONTENTS_ORDER COMMODITY_ MAPPING	CASE_VOLUME QUANTITY PACK_SIZE	Case Volume Quantity Pack Size	Number	8
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	item	An approved, transaction level item.	Varchar2	25	N/A
2	location	An active store or warehouse.	Number	(10,0)	A substring is used to drop the *S* prefix that is appended to all RMS store numbers and to drop the *W* prefix that is appended to all RMS warehouse numbers.
3	unit_cost	The cost of the item from the supplier in the order's currency.	Number	(20,4)	Hard coded as *NULL*.
4	ref_item	The id of a reference item that can be used instead of using the item field.	Varchar2	25	Hard coded as *NULL*.
5	origin_country_ id	The identifier of the country from which the item is being sourced.	Varchar2	3	Hard coded as *NULL*.
6	supp_pack_size	The supplier pack size for the item on the order.	Number	(12,3)	The AIP SKU-pack size is mapped to the RMS Item and Order Multiple.

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
7	qty_ordered	The quantity ordered of item.	Number	(12,4)	Non-pack SKUs: ■ store_order.case_volume * commodity_mapping.pack_size ■ non_contents_order.quantity * commodity_mapping.pack_size Formal Pack SKUs: ■ store_order.case_volume· ■ non_contents_order.quantity
8	location_type	The location type of the location.	Varchar2	1	*S* indicates the destination location is a store. *W* indicates the destination location is a warehouse.
9	cancel_ind	Indicates if the detail record's quantity should be cancelled.	Varchar2	1	Hard coded as *NULL*.
10	reinstate_ind	Indicates if a detail record that was previously cancelled should be reinstated.	Varchar2	1	Hard coded as *NULL*.

Filtering Conditions

Store Orders

```
so.order_number=pm.order_number AND so.supplier_id = supp.supplier_id AND
so.commodity_id=cm.commodity_id AND so.pack_size=cm.pack_size AND s.store_
id=so.store_id AND (pm.store_order_id=so.store_order_id OR pm.store_order_id IS
NULL)
```

Warehouse Orders

```
nco.source_type="V" AND nco.order_number=pm.order_number AND nco.source_
id=s.supplier_id AND nco.commodity_id=cm.commodity_id AND nco.pack_size=cm.pack_
size AND nco.stocking_point_id = sp1.stocking_point_id AND (pm.non_contents_order_
id=nco.non_contents_order_id OR pm.non_contents_order_id IS NULL) AND
sp2.stocking_point_id(+) = sp1.parent_stocking_point_id
```

Modify Order Header Layout - XORDERMOD

Data Element Details

Data Type	Data Element Name	Data Description
RIB Publication Message	Modify Order Header	Contains Purchase Order header details.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
EJB	OrderSenderBean.java	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RIB Message - Xorder Family
Source Tables/Files	STORE_ORDER, STORE, SUPPLIER, PO_MFQUEUE, COMMODITY_ MAPPING, NON_ CONTENTS_ ORDER, STOCKING_POINT	Target Object Name	XORDERMOD Header Message
		Target Load Type	N/A

Field Level Mapping - Source

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	PO_MFQUEUE				
2	SUPPLIER				
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	STORE_ORDER NON_ CONTENTS_ORDER	DELIVERY_DATE	Delivery Date	Date	N/A
6	STORE_ORDER NON_ CONTENTS_ORDER	DELIVERY_DATE	Delivery Date	Date	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	PO_MFQUEUE	STATUS	Status	Varchar2	1
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	order_no	The unique identifier for the order.	Varchar2	10	N/A
2	supplier	The identifier of the supplier from which the order will be sourced. This cannot be modified if details exist for the PO.	Varchar2	10	A substring is used to drop the *V* prefix that is appended to all RMS supplier numbers.
3	currency_code	The code of the order's currency.	Varchar2	3	Hardcoded as *NULL*.
4	terms	The sales terms of the order.	Varchar2	15	Hardcoded as *NULL*.
5	not_before_date	The first date that delivery will be accepted.	Date		Select the minimum delivery date from the order line items that are not closed. All order line items that are not closed will have the same delivery date.
6	not_after_date	The last date that delivery will be accepted.	Date		Select the maximum delivery date from the order line items that are not closed. All order line items that are not closed will have the same delivery date.
7	otb_eow_date	The end of week date of the OTB bucket used.	Date		Hardcoded as *NULL*.
8	dept	The department in which are all the items on the order.	Number	4	Hardcoded as *NULL*.
9	status	The code for the status of the order. Valid values are *W* for Worksheet and *A* for Approved for PO creation. It is also possible to modify the status to *C* for Closed.	Varchar2	1	The table column has a default of *A*. If all order quantities are 0 the status of *C* for Cancel must be sent to RMS.
10	exchange_rate	The rate of exchange for the PO used between the order and primary currencies.	Number	20	Hardcoded as *NULL*.
11	include_on_ord_ind	Indicates if the order should be included in on-order calculations.	Varchar2	1	Hardcoded as *NULL*.
12	written_date	The date the order was created.	Date		Hardcoded as *NULL*.
13	origin_ind	Indicates where the order originated. Valid values include: 2 - Manual, 6 - AIP generated order, 7, 8.	Varchar2	1	Six (6) is a unique RMS identifier that indicates the PO was created in AIP and is hardcoded.

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
14	edi_po_ind	Indicates whether or not the order will be transmitted to the supplier through an Electronic Data Exchange transaction. Valid values are: Y = Submit by EDI, N = Do not use EDI.	Varchar2	1	Hardcoded as *NULL*.
15	pre_mark_ind	This field indicated whether or not a supplier has agreed to break an order into separate boxes so that the boxes can be sent directly to stores.	Varchar2	1	Hardcoded as *NULL*.
16	user_id	Indicates where the order was approved. It will be the user ID of the person approving the order.	Varchar2	30	Hardcoded as *NULL*.
17	comment_desc	Any comments pertaining to the order.	Varchar2	2000	Hardcoded as *NULL*.

Filtering Conditions

Store Orders

```
so.order_number=pm.order_number AND so.supplier_id = supp.supplier_id AND
so.commodity_id=cm.commodity_id AND so.pack_size=cm.pack_size AND s.store_
id=so.store_id AND (pm.store_order_id=so.store_order_id OR pm.store_order_id IS
NULL)
```

Warehouse Orders

```
nco.source_type="V" AND nco.order_number=pm.order_number AND nco.source_
id=s.supplier_id AND nco.commodity_id=cm.commodity_id AND nco.pack_size=cm.pack_
size AND nco.stocking_point_id = sp1.stocking_point_id AND (pm.non_contents_order_
id=nco.non_contents_order_id OR pm.non_contents_order_id IS NULL) AND
sp2.stocking_point_id(+) = sp1.parent_stocking_point_id
```

Modify Order Layout - XORDERDTLMOD

The Order Detail Modification message is in the same format and has similar content as the Order Create message; however, the message will only contain any modified order line items. Any line items that have already been communicated to RMS but have not been modified will not be included in an Order Detail Modification message.

Data Element Details

Data Type	Data Element Name	Data Description
RIB Publication Message	Modify Order Detail	Contains Purchase Order header and detail information.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
EJB	OrderSenderBean.java	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RIB Message - Xorder Family
Source Tables/Files	STORE_ORDER, STORE, SUPPLIER, PO_MFQUEUE, COMMODITY_ MAPPING, NON_ CONTENTS_ ORDER, STOCKING_POINT	Target Object Name	XORDERDTLMOD Message
		Target Load Type	N/A

Field Level Mapping - Source

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	COMMODITY_ MAPPING	RMS_SKU_NUMBER	RMS SKU	Varchar2	25
2	STORE STOCKING_ POINT	STORE_CODE STOCKING_POINT_ NUMBER	Store Code Stocking Point Number	Varchar2	20
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	COMMODITY_ MAPPING	RMS_ORDER_ MULTIPLE	RMS Order Multiple	Number	8
7	STORE_ORDER NON_ CONTENTS_ORDER COMMODITY_ MAPPING	CASE_VOLUME_ DELTA QUANTITY_ DELTA PACK_SIZE	Case Volume Quantity Pack Size	Number	8
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	item	An approved, transaction level item	Varchar2	25	N/A

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
2	location	An active store or warehouse.	Number	(10,0)	A substring is used to drop the *S* prefix that is appended to all RMS store numbers and to drop the *W* prefix that is appended to all RMS warehouse numbers.
3	unit_cost	An active store or warehouse.	Number	(20,4)	Hardcoded as *NULL*.
4	ref_item	The cost of the item from the supplier in the order's currency.	Varchar2	25	Hardcoded as *NULL*.
5	origin_country_id	The id of a reference item that can be used instead of using the item field.	Varchar2	3	Hardcoded as *NULL*.
6	supp_pack_size	The identifier of the country from which the item is being sourced.	Number	(12,3)	The AIP SKU-pack size is mapped to the RMS Item and Order Multiple.
7	qty_ordered	The supplier pack size for the item on the order.	Number	(12,4)	Non-pack SKUs: ■ store_order.case_volume * commodity_mapping.pack_size ■ non_contents_order.quantity * commodity_mapping.pack_size Formal Pack SKUs: ■ store_order.case_volume· ■ non_contents_order.quantity
8	location_type	Changed quantity in eaches.	Varchar2	1	*S* indicates the destination location is a store. *W* indicates the destination location is a warehouse.
9	cancel_ind	The location type of the location.	Varchar2	1	Hardcoded as *NULL*.
10	reinstate_ind	Indicates if a detail record that was previously cancelled should be reinstated.	Varchar2	1	Hardcoded as *NULL*.

Filtering Conditions

Store Orders

```
so.order_number=pm.order_number AND so.supplier_id = supp.supplier_id AND
so.commodity_id=cm.commodity_id AND so.pack_size=cm.pack_size AND s.store_
id=so.store_id AND (pm.store_order_id=so.store_order_id OR pm.store_order_id IS
NULL)
```

Warehouse Orders

```
nco.source_type="V" AND nco.order_number=pm.order_number AND nco.source_
id=s.supplier_id AND nco.commodity_id=cm.commodity_id AND nco.pack_size=cm.pack_
size AND nco.stocking_point_id = sp1.stocking_point_id AND (pm.non_contents_order_
id=nco.non_contents_order_id OR pm.non_contents_order_id IS NULL) AND
sp2.stocking_point_id(+) = sp1.parent_stocking_point_id
```

Create Transfer Layout - XTSFCRE

Data Element Details

Data Type	Data Element Name	Data Description
RIB Publication Message	New Transfer	Contains Transfer header and details.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
EJB	OrderSenderBean.java	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RIB Message XTsf Family
Source Tables/Files	STORE_ORDER, STORE, TSF_ MFQUEUE, COMMODITY_ MAPPING, NON_ CONTENTS_ ORDER, STOCKING_POINT	Target Object Name	XTSFCRE Message
		Target Load Type	N/A

Field Level Mapping - Source

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	TSF_MFQUEUE	TSF_NUMBER	Transfer Number	Number	(10,0)
2	N/A	N/A	N/A	N/A	N/A
3	STOCKING_POINT	STOCKING_POINT_ NUMBER	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	STORE STOCKING_ POINT	STORE_CODE STOCKING_POINT_ NUMBER	Store Code Stocking Point Number	Varchar2	20
6	STORE_ORDER NON_ CONTENTS_ORDER	DELIVERY_DATE	Delivery Date	Date	N/A
7	N/A	N/A	N/A	N/A	N/A

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	XTSF Detail Record Layout				
	COMMODITY_ MAPPING	RMS_SKU_NUMBER	RMS SKU	Varchar2	25
	STORE_ORDER NON_ CONTENTS_ORDER COMMODITY_ MAPPING	CASE_VOLUME QUANTITY PACK_SIZE	Case Volume Quantity Pack Size	Number	8
	COMMODITY_ MAPPING	RMS_ORDER_ MULTIPLE	RMS Order Multiple	Number	8
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	tsf_no	Number that uniquely identifies the transfer.	Number	10	N/A
2	from_loc_type	The location type of the from location.	Varchar2	1	Hardcoded as *W*
3	from_loc	The location number of the from location.	Varchar2	10	A substring is used to drop the *W* prefix that is appended to all RMS warehouse numbers.
4	to_loc_type	The location type of the to location.	Varchar2	1	*S* indicates the destination location is a store. *W* indicates the destination location is a warehouse.
5	to_loc	The location number of the to location.	Varchar2	10	A substring is used to drop the *S* prefix that is appended to all RMS store numbers and to drop the *W* prefix that is appended to all RMS warehouse numbers.
6	delivery_date	The earliest date the transfer can be delivered.	Date		N/A
7	dept	The department number associated with the transfer.	Number	4	Hardcoded as *NULL*

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
8	routing_code	If the freight status is expedite, this is a code indicating more detailed freight info.	Varchar2	1	Hardcoded as *NULL*.
9	freight_code	A code indicating the freight status of the transfer (for example, normal, expedite).	Varchar2	1	Hardcoded as *NULL*.
10	tsf_type	A code indicating the type of transfer (for example, store requisition, book transfer).	Varchar2	6	Hardcoded as *NULL*.
11	XTSF Detail Record Layout				
	item	The unique identifier of the item being transferred.	Varchar2	25	N/A
	tsf_qty	The total quantity of the item reserved for this transfer at the from location.	Number	(12,4)	Non-pack SKUs·: ■ store_order.case_ volume * commodity_ mapping.pack_size ■ non_contents_ order.quantity * commodity_ mapping.pack_size Formal Pack SKUs: ■ store_order.case_ volume· ■ non_contents_ order.quantity
	supp_pack_size	The supplier pack size for this item/transfer.	Number	(12,4)	The AIP SKU-pack size is mapped to the RMS Item and Order Multiple.
	inv_status	A code indicating the inventory status for this transfer detail; valid values are found on the inv_ status_types table.	Number	2	Hardcoded as *NULL*.
	unit_cost	Not mapped to a database field. Sometimes used to calculate retail price.	Number	(20,4)	Hardcoded as *NULL*.
12	status	A code indicating the status of the transfer (for example, approved, closed,).	Varchar2	1	The transfer is created in Approved status so hardcoded as *A*.
13	user_id	The user ID of the user who created the transfer.	Varchar2	30	Hardcoded as *NULL*.
14	comment_desc	Comments associated with the transfer.	Varchar2	2000	Hardcoded as *NULL*.

Filtering Conditions

None.

AIP Purchase Order Messages - RMS Load Process

Figure 15–6   AIP Purchase Order Messages - RMS Load Process Diagram (1 of 2)
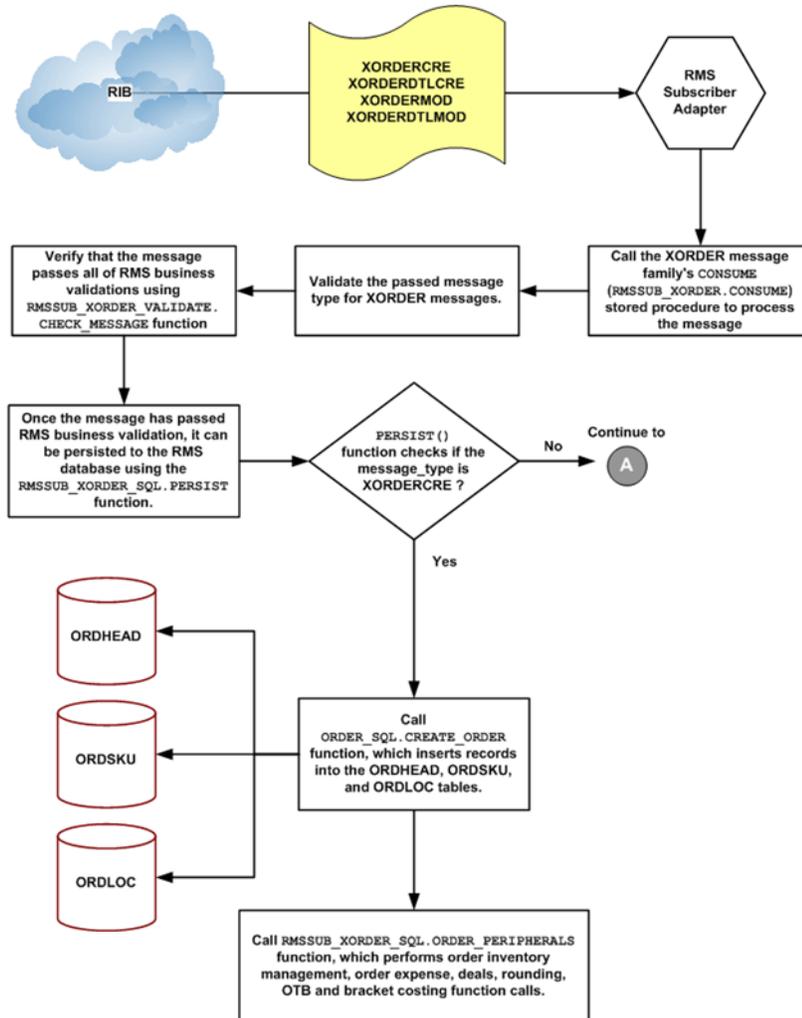
Figure 15–7 AIP Purchase Order Messages - RMS Load Process Diagram (2 of 2)
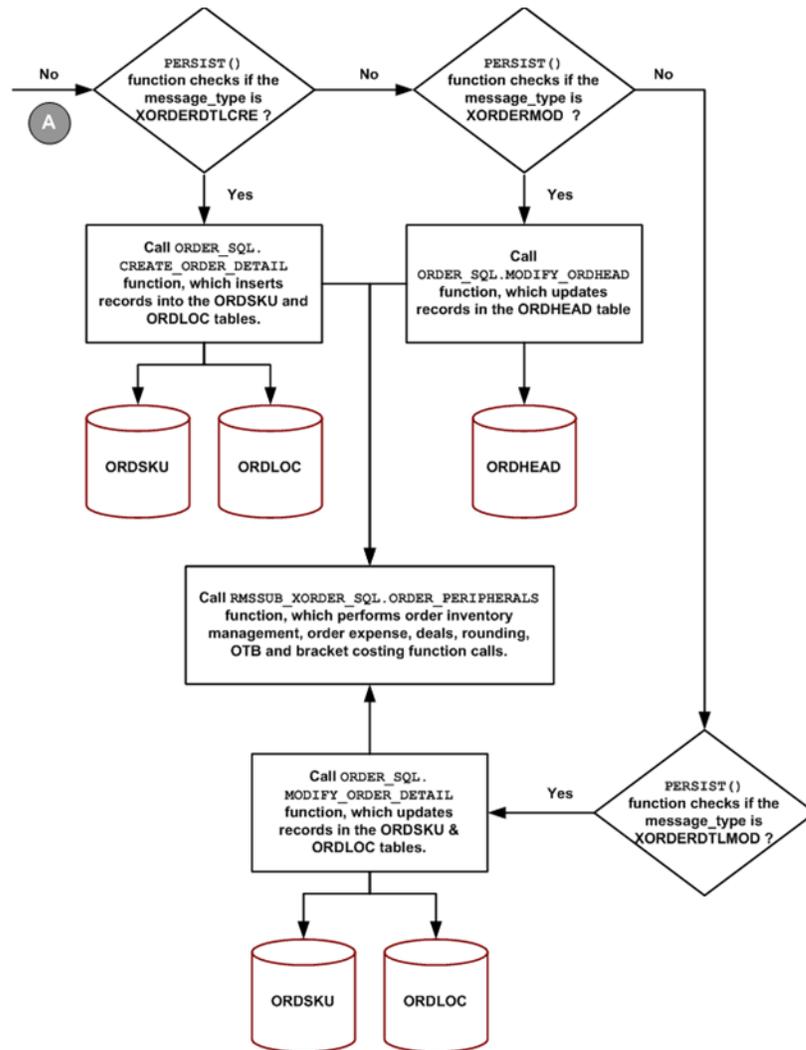
AIP Transfer Messages - RMS Load Process

Figure 15–8   AIP Transfer Messages - RMS Load Process Diagram
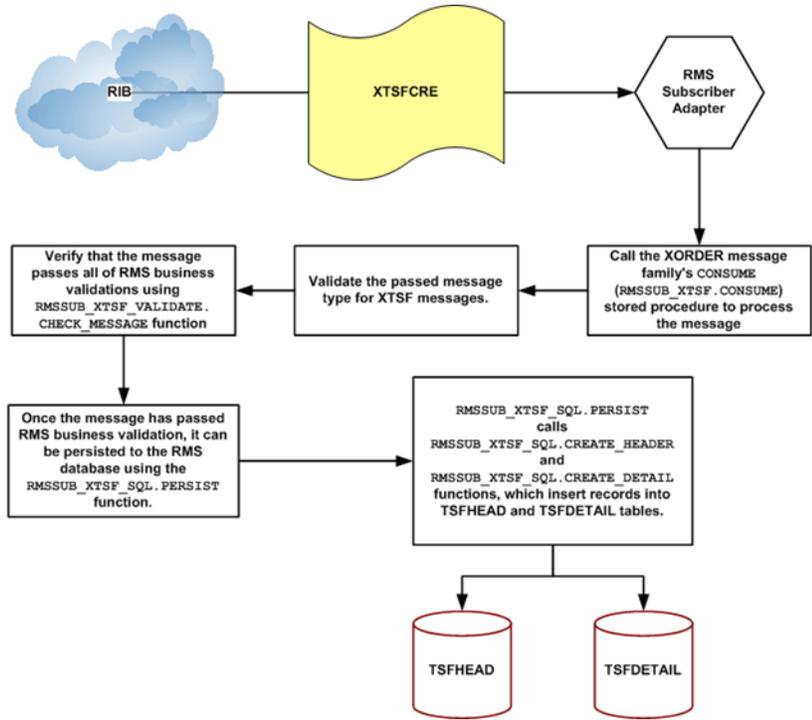
XORDER Header - RMS ORDHEAD Mapping

Data Element Details

Data Type	Data Element Name	Data Description
RMS Subscriber Mapping	Create/Modify Order Header	Contains Purchase Order header details.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
RIB Subscriber Adapter	RMS Subscriber Adapter	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RMS Database
Source Tables/Files	STORE_ORDER, STORE, SUPPLIER, PO_MFQUEUE, COMMODITY_ MAPPING, NON_ CONTENTS_ ORDER, STOCKING_POINT	Target Object Name	ORDHEAD Table
		Target Load Type	N/A

Field Level Mapping - Source

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	PO_MFQUEUE	ORDER_NUMBER	Order Number	Number	(10,0)
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	SUPPLIER	SUPPLIER_CODE	Supplier Code	Varchar2	20
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	STORE_ORDER NON_ CONTENTS_ORDER	min of DELIVERY_ DATE	Delivery Date	Date	N/A
13	STORE_ORDER NON_ CONTENTS_ORDER	max of DELIVERY_ DATE	Delivery Date	Date	N/A

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A
24	N/A	N/A	N/A	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A
26	N/A	N/A	N/A	N/A	N/A
27	PO_MFQUEUE	STATUS	Status	Varchar2	1
28	N/A	N/A	N/A	N/A	N/A
29	N/A	N/A	N/A	N/A	N/A
30	N/A	N/A	N/A	N/A	N/A
31	N/A	N/A	N/A	N/A	N/A
32	N/A	N/A	N/A	N/A	N/A
33	N/A	N/A	N/A	N/A	N/A
34	N/A	N/A	N/A	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A
36	N/A	N/A	N/A	N/A	N/A
37	N/A	N/A	N/A	N/A	N/A
38	N/A	N/A	N/A	N/A	N/A
39	N/A	N/A	N/A	N/A	N/A
40	N/A	N/A	N/A	N/A	N/A
41	N/A	N/A	N/A	N/A	N/A
42	N/A	N/A	N/A	N/A	N/A
43	N/A	N/A	N/A	N/A	N/A
44	N/A	N/A	N/A	N/A	N/A
45	N/A	N/A	N/A	N/A	N/A
46	N/A	N/A	N/A	N/A	N/A
47	N/A	N/A	N/A	N/A	N/A
48	N/A	N/A	N/A	N/A	N/A
49	N/A	N/A	N/A	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
51	N/A	N/A	N/A	N/A	N/A
52	N/A	N/A	N/A	N/A	N/A
53	N/A	N/A	N/A	N/A	N/A
54	N/A	N/A	N/A	N/A	N/A
55	N/A	N/A	N/A	N/A	N/A
56	N/A	N/A	N/A	N/A	N/A
57	N/A	N/A	N/A	N/A	N/A
58	N/A	N/A	N/A	N/A	N/A
59	N/A	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	ORDER_NO	The unique identifier for the order.	Number	(8,0)	N/A
2	ORDER_TYPE	Order Type	Varchar2	3	Hardcode as *N/B* at destination.
3	DEPT		Number	(4,0)	Hardcoded as *NULL* at Source.
4	BUYER		Number	(4,0)	NULL
5	SUPPLIER	The identifier of the supplier from which the order will be sourced. This cannot be modified if details exist for the PO.	Number	(10,0)	A substring is used to drop the *V* prefix that is appended to all RMS supplier numbers.
6	SUPP_ADD_ SEQ_NO	Supplier Address Sequence Number	Number	(4,0)	Populated with primary address sequence number for the primary supplier.
7	LOC_TYPE	Location Type	Varchar2	1	NULL
8	LOCATION	Location Type	Number	(10,0)	NULL
9	PROMOTION	Promotion Number	Number	(10,0)	NULL
10	QC_IND	QC Indicator	Varchar2	1	Hardcoded as *N* at destination.
11	WRITTEN_ DATE	The date order was created.	Date		Hardcoded as *today's Vdate*.
12	NOT_BEFORE_ DATE	The first date that delivery will be accepted.	Date		If Source value is *NULL*, then Vdate Else Source Value.
13	NOT_AFTER_ DATE	The last date that delivery will be accepted.	Date		If Source value is *NULL*, then Vdate Else Source Value.

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
14	OTB_EOW_ DATE	The end of week date of the OTB bucket used.	Date		Populated with EOW date for the date NOT_AFTER_ DATE at destination.
15	EARLIEST_ SHIP_DATE	Earliest Shipment Date	Date		Populated as NOT_ BEFORE_DATE at destination.
16	LATEST_SHIP_ DATE	Latest Shipment Date	Date		Calculated at destination as NOT_BEFORE_DATE + LATEST_SHIP_DAYS from SYSTEM_OPTIONS table.
17	CLOSE_DATE	Order Close Date	Date		Hardcoded as *NULL*.
18	TERMS	The sales terms of the order.	Varchar2	15	Populated as TERMS of primary supplier from SUPS table.
19	FREIGHT_ TERMS	The freight terms of the order.	Varchar2	30	Populated as FREIGHT_ TERMS of primary supplier from SUPS table.
20	ORIG_IND	Indicates where the order originated. Valid values include: 2 - Manual, 6 - AIP generated order, 7 , 8.	Number	(1,0)	Six (6) is a unique RMS identifier that indicates the PO was created in AIP and is hardcoded at source.
21	CUST_ORDER	Customer Order Indicator	Varchar2	1	Hardcoded as *N* at destination.
22	PAYMENT_ METHOD	Payment Method for the Order	Varchar2	6	Populated as PAYMENT_ METHOD of primary supplier from SUPS table.
23	BACKHAUL_ TYPE	Backhaul Type	Varchar2	6	NULL
24	BACKHAUL_ ALLOWANCE	Backhaul Allowance	Number	(20,4)	NULL
25	SHIP_METHOD	Shipping Method	Varchar2	6	Populated as SHIP_ METHOD of primary supplier from SUPS table.
26	PURCHASE_ TYPE	Purchase Type	Varchar2	6	NULL Label column
27	STATUS	The code for the status of the order.	Varchar2	1	Source has the status as *A*.
28	ORIG_ APPROVAL_ DATE	Original Approval Date of the Order	Date		If Status is Approved, hardcoded as VDATE at destination, otherwise, NULL.
29	ORIG_ APPROVAL_ID	Original Approval User ID	Varchar2	30	User ID used to run the batch/adapter.
30	SHIP_PAY_ METHOD	Shipment Pay Method	Varchar2	2	NULL
31	FOB_TRANS_ RES	Trans Reserve	Varchar2	2	NULL
32	FOB_TRANS_ RES_DESC	Trans Reserve Description	Varchar2	45	NULL

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
33	FOB_TITLE_PASS	Title Pass	Varchar2	2	Populated as FOB_TITLE_PASS from SYSTEM_OPTIONS table.
34	FOB_TITLE_PASS_DESC	Title Pass Description	Varchar2	45	NULL
35	EDI_SENT_IND	EDI Sent Indicator	Varchar2	1	Hardcoded as *N* at destination.
36	EDI_PO_IND	EDI PO Indicator	Varchar2	1	Hardcoded as *N* at destination.
37	IMPORT_ORDER_IND	Import Order Indicator	Varchar2	1	Hardcoded as *N* at destination.
38	IMPORT_COUNTRY_ID	Imported Country ID	Varchar2	3	Populated as BASE_COUNTRY_ID from SYSTEM_OPTIONS table.
39	PO_ACK_RECVD_IND	PO Acknowledgement Received Indicator	Varchar2	1	Hardcoded as *N* at destination.
40	INCLUDE_ON_ORDER_IND	Indicates if the order should be included in on-order calculations.	Varchar2	1	Hardcoded as *Y* at destination.
41	VENDOR_ORDER_NO	Vendor Order Indicator	Varchar2	15	NULL
42	EXCHANGE_RATE	The rate of exchange for the PO used between the order and primary currencies.	Number	(20,10)	Populated as Exchange rate for the primary currency and exchange type *P*.
43	FACTORY	Factory	Varchar2	10	NULL
44	AGENT	Agent	Varchar2	10	NULL
45	DISCHARGE_PORT	Discharge Port	Varchar2	5	NULL
46	LADING_PORT	Landing Port	Varchar2	5	NULL
47	BILL_TO_ID	Location to be billed	Varchar2	5	Populated as BILL_TO_LOC from SYSTEM_OPTIONS table.
48	FREIGHT_CONTRACT_NO	Freight Contract Number	Varchar2	10	NULL
49	PO_TYPE	PO Type	Varchar2	4	NULL
50	PRE_MARK_IND	Pre Mark Indicator	Varchar2	1	Hardcoded as *N* at destination.
51	CURRENCY_CODE	Currency Code of the order	Varchar2	3	Populated as CURRENCY_CODE of the primary supplier from SUPS table.
52	REJECT_CODE	Rejection Code	Varchar2	6	NULL
53	CONTRACT_NO	Contract Number	Number	(6,0)	NULL
54	LAST_SENT_REV_NO	Last Sent Review Number	Number	(6,0)	NULL.

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
55	SPLIT_REF_ ORDNO	Split Order Reference Number	Number	(8,0)	NULL.
56	PICKUP_LOC	Pickup Location	Varchar2	45	NULL.
57	PICKUP_NO	Pickup Number	Varchar2	25	NULL
58	PICKUP_DATE	Pickup Date	Date		If NOT_BEFORE_DATE is not null then NOT_ BEFORE_DATE else VDATE.
59	APP_DATETIME	Approved Date and Time	Date		NULL
60	COMMENT_ DESC	Comments	Varchar2	250	NULL

Filtering Conditions

None.

XORDER Detail - ORDSKU and ORDLOC Mapping

This section addresses the RMS Subscriber mappings from the XORDER detail message, that contains Purchase Order line item detail. The detail information contained in the message is mapped to two RMS database tables: the Order SKU (ORDSKU) and Order Location (ORDLOC) tables.

Data Element Details

Data Type	Data Element Name	Data Description
RMS Subscriber Mapping	Create/Modify Order Detail	Contains Purchase Order Line Item details

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
RIB Subscriber Adapter	RMS Subscriber Adapter	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RMS Database
Source Tables/Files	STORE_ORDER, STORE, SUPPLIER, PO_MFQUEUE, COMMODITY_ MAPPING, NON_ CONTENTS_ ORDER, STOCKING_POINT	Target Object Name	ORDSKU and ORDLOC Tables
		Target Load Type	N/A

Field Level Mapping - Source for Order SKU (ORDSKU) Table

The following table shows source data mapped to the Order SKU (ORDSKU) table.

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	PO_MFQUEUE	ORDER_NUMBER	Order Number	Number	(10,0)
2	COMMODITY_ MAPPING	RMS_SKU_NUMBER	RMS SKU	Varchar2	25
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	SUPPLIER	SUPPLIER_CODE	Supplier Code	Varchar2	20
6	N/A	N/A	N/A	N/A	N/A
7	COMMODITY_ MAPPING	RMS_ORDER_ MULTIPLE	RMS Order Multiple	Number	8
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target Order SKU (ORDSKU) Table

The following table lists target attributes for the source data being mapped to the Order SKU table (ORDSKU).

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	ORDER_NO	The unique identifier for the order.	Number	(8,0)	N/A
2	ITEM	An approved, transaction level item.	Varchar2	25	
3	REF_ITEM	The id of a reference item that can be used instead of using the item field.	Varchar2	25	Hardcoded as *NULL* at Source.
4	ORIGIN_COUNTRY_ID	The identifier of the country from which the item is being sourced.	Varchar2	3	Populated as ORIGIN_ COUNTRY_ID of the primary supplier and item combination from ITEM_SUPP_ COUNTRY table.
5	EARLISET_SHIP_DATE	Earliest Shipment Date	Date		Populated as EALISET_SHIP_DATE of the header row from ORDHEAD table.
6	LATEST_SHIP_DATE	Latest Shipment Date	Date		Populated as LATEST_ SHIP_DATE of the header row from ORDHEAD table.
7	SUPP_PACK_SIZE	The supplier pack size for the item on the order.	Number	(12,4)	NULL
8	NON_SCALE_IND	Non Scale Indicator	Varchar2	1	Hardcoded as *Y* at destination.
9	PICKUP_LOC	Pickup Location	Varchar2	45	NULL
10	PICKUP_NO	Pickup Number	Varchar2	25	NULL

Field Level Mapping - Source for Order Location (ORDLOC) Table

The following table lists source data mapped to the Order Location (ORDLOC) table:

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	PO_MFQUEUE	ORDER_NUMBER	Order Number	Number	(10,0)
2	COMMODITY_ MAPPING	RMS_SKU_NUMBER	RMS SKU	Varchar2	25
3	STORE STOCKING_ POINT	STORE_CODE STOCKING_POINT_ NUMBER	Store Code Stocking Point Number	Varchar2	20
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	STORE_ORDER NON_ CONTENTS_ORDER COMMODITY_ MAPPING	CASE_VOLUME QUANTITY PACK_SIZE	Case Volume Quantity Pack Size	Number	8
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target Order Location (ORDLOC) Table

The following table lists source data that is mapped to the Order Location table (ORDLOC):

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	ORDER_NO	The unique identifier for the order.	Number	(8,0)	N/A
2	ITEM	An approved, transaction level item.	Varchar2	25	

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
3	LOCATION	An active store or warehouse. If multichannel is on, and a warehouse is being order to, a virtual warehouse is expected.	Number	(10,0)	A substring is used to drop the *S* prefix that is appended to all RMS store numbers and to drop the *W* prefix that is appended to all RMS warehouse numbers at Source.
4	LOC_TYPE	The location type of the location.	Varchar2	1	*S* indicates the destination location is a store at Source. *W* indicates the destination location is a warehouse at Source.
5	UNIT_RETAIL	Unit Retail price for item and location combination.	Number	(20,4)	Calculated at destination as for non-sellable pack item, build the unit_retail based on component items unit_retail and for non-pack item or sellable pack item, get the unit_retail from item_zone_price.
6	QTY_ORDERED	The quantity ordered of item.	Number	(12,4)	Non-pack SKUs·: ■ store_order.case_volume * commodity_mapping.pack_size ■ non_contents_order.quantity * commodity_mapping.pack_size Formal Pack SKUs: ■ store_order.case_volume· ■ non_contents_order.quantity
7	QTY_PRESCALED	Quantity Prescaled.	Number	(12,4)	Populated same as QTY_ORDERED at destination.
8	QTY_RECEIVED	Received Quantity.	Number	(12,4)	NULL
9	LAST_RECEIVED	Last Received Quantity.	Number	(12,4)	NULL
10	LAST_ROUNDED_QTY	Last Rounded Quantity.	Number	(12,4)	NULL
11	LAST_GRP_ROUNDED_QTY	Last GRP Rounded Quantity.	Number	(12,4)	NULL
12	QTY_CANCELLED	Quantity Cancelled.	Number	(12,4)	NULL
13	CANCEL_CODE	Cancellation Code.	Varchar2	1	NULL
14	CANCEL_DATE	Cancellation Date.	Date		NULL
15	CANCEL_ID	User ID Cancelled.	Varchar2	30	NULL

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
16	ORIGINAL_ REPL_QTY	Original Replenishment Quantity.	Number	(12,4)	NULL
17	UNIT_COST	The cost of the item from the supplier in the order's currency.	Number	(20,4)	Populated from ITEM_ SUPP_COUNTRY_LOC or ITEM_SUPP_COUNTRY for the combination item/supplier/country/ loc.
18	UNIT_COST_ INIT	Initial Unit Cost.	Number	(20,4)	NULL
19	COST_SOURCE		Varchar2	4	Hardcoded as *NORM* at destination.
20	NON_SCALE_ IND		Varchar2	1	Hardcoded as *Y* at destination.
21	TSF_PO_LINK_ NO		Number	(10,0)	NULL

Filtering Conditions

None.

XTSF Header - RMS TSFHEAD Mapping

Data Element Details

Data Type	Data Element Name	Data Description
RMS Subscriber Mapping	Create Transfer Header	Contains Transfer header details.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
RIB Subscriber Adapter	RMS Subscriber Adapter	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RMS Database
Source Tables/Files	STORE_ORDER, STORE, TSF_MFQUEUE, COMMODITY_MAPPING, NON_CONTENTS_ORDER, STOCKING_POINT	Target Object Name	TSFHEAD Table
		Target Load Type	N/A

Field Level Mapping - Source

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	TSF_MFQUEUE	TSF_NUMBER	Order Number	Number	(10,0)
2	N/A	N/A	N/A	N/A	N/A
3	STOCKING_POINT	STOCKING_POINT_ NUMBER	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	STORE STOCKING_ POINT	STORE_CODE STOCKING_POINT_ NUMBER	Store Code Stocking Point Number	Varchar2	20
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	STORE_ORDER NON_ CONTENTS_ORDER	DELIVERY_DATE	Delivery Date	Date	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	TSF_NO	Number that uniquely identifies the transfer.	Number	(10,0)	N/A
2	FROM_LOC_ TYPE	The location type of the from location.	Varchar2	1	Hardcoded as *W* at Source.
3	FROM_LOC	The location number of the from location.	Number	(10,0)	A substring is used to drop the *W* prefix that is appended to all RMS warehouse numbers.
4	TO_LOC_TYPE	The location type of the to location.	Varchar2	1	Hardcoded as *S* that indicates the destination location is a store. *W* indicates the destination location is a warehouse.

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
5	TO_LOC	The location number of the to location.	Number	(10,0)	A substring is used to drop the *S* prefix that is appended to all RMS store numbers and to drop the *W* prefix that is appended to all RMS warehouse numbers.
6	DEPT	The department number associated with the transfer.	Number	(4,0)	Hardcoded as *NULL* at Source.
7	TSF_TYPE	A code indicating the type of transfer (for example: store requisition, book transfer).	Varchar2	6	Hardcoded as *AIP* at Source.
8	STATUS	A code indicating the status of the transfer (for example: approved, closed).	Varchar2	1	The transfer will be created in Approved status so hardcoded as *A* at Source.
9	FREIGHT_CODE	A code indicating the freight status of the transfer (for example, normal, expedite).	Varchar2	1	Hardcoded as *N* at destination.
10	ROUTING_CODE	If the freight status is expedite, this is a code indicating more detailed freight info.	Varchar2	1	Hardcoded as *NULL*.
11	CREATE_DATE	Transfer Creation Date	Date		Hardcoded as *today's Vdate*.
12	CREATE_ID	User who created the transfer.	Varchar2	30	Hardcoded as *current logged in User*.
13	APPROVAL_DATE	Transfer Approval Date	Date		Hardcoded as *today's Vdate*.
14	APPROVAL_ID	User who approved the transfer.	Varchar2	30	Hardcoded as *current logged in User*.
15	DELIVERY_DATE	The earliest date the transfer can be delivered.	Date		N/A
16	CLOSE_DATE		Date		NULL
17	EXT_REF_NO		Varchar2	14	NULL
18	REPL_TSF_APPROVE_IND		Varchar22	1	Hardcoded as *N* at destination.
19	COMMENT_DESC	Comments associated with the transfer.	Varchar2	300	NULL

Filtering Conditions

None.

XTSF DTL - RMS TSFDETAIL Mapping

Data Element Details

Data Type	Data Element Name	Data Description
RMS Subscriber Mapping	Create Transfer Detail	Contains Transfer detail line of items.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
RIB Subscriber Adapter	RIB Subscriber Adapter	N/A	Near Real Time

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP Online	Target Object Type	RMS Database
Source Tables/Files	STORE_ORDER, STORE, TSF_MFQUEUE, COMMODITY_MAPPING, NON_CONTENTS_ORDER, STOCKING_POINT	Target Object Name	TSFDETAIL Table
		Target Load Type	N/A

Field Level Mapping - Source

#	Source Table	Source Table Column	Source Field Description	Data Type	Field Length
1	TSF_MFQUEUE	TSF_NUMBER	Order Number	Number	(10,0)
2	N/A	N/A	N/A	N/A	N/A
3	COMMODITY_MAPPING	RMS_SKU_NUMBER	RMS SKU	Varchar2	25
4	N/A	N/A	N/A	N/A	N/A
5	STORE_ORDER NON_CONTENTS_ORDER COMMODITY_MAPPING	CASE_VOLUME QUANTITY PACK_SIZE	Case Volume Quantity Pack Size	Number	8
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	COMMODITY_MAPPING	RMS_ORDER_MULTIPLE	RMS Order Multiple	Number	8
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	TSF_NO	Number that uniquely identifies the transfer.	Varchar2	(10,0)	The transfer number from header row.
2	TSF_SEQ_NO	Transfer Line Item Number	Number	(8,0)	Transfer line item number under the current header row.
3	ITEM	The unique identifier of the item being transferred.	Number	25	N/A
4	INV_STATUS	A code indicating the inventory status for this transfer detail; valid values are found on the inv_status_types table.	Number	(2,0)	Hardcoded as *NULL*.
5	TSF_QTY	The total quantity of the item reserved for this transfer at the from location.	Number	(12,4)	Non-pack SKUs·: ■ store_order.case_volume * commodity_mapping.pack_size ■ non_contents_order.quantity * commodity_mapping.pack_size Formal Pack SKUs: ■ store_order.case_volume· ■ non_contents_order.quantity
6	FILL_QTY	Fill Quantity	Varchar2	(12,4)	NULL
7	SHIP_QTY	Shipped Quantity	Number	(12,4)	NULL
8	RECEIVED_QTY	Received Quantity	Number	(12,4)	NULL
9	DISTRO_QTY	Distributed Quantity	Number	(12,4)	NULL
10	SELECTED_QTY	Selected Quantity	Number	(12,4)	NULL
11	CANCELLED_QTY	Cancelled Quantity	Varchar2	(12,4)	NULL
12	SUPP_PACK_SIZE	Supplier Pack Size	Number	(12,4)	The AIP SKU-pack size is mapped to the RMS Item and Order Multiple.
13	TSF_PO_LINK_NO	Transfer to PO Link number	Number	(10,0)	NULL
14	MBR_PROCESSED_IND	Member Processed Indicator	Number	1	NULL
15	PUBLISH_IND	Publishing Indicator	Number	1	Hardcoded as *N*.

Filtering Conditions

None.

16

AIP to External System Interfaces

In addition to the RIB, as explained in Chapter 15, "AIP to RMS Interfaces and Data Mapping", AIP provides a second method of communicating Purchase Order and Transfer information to an order procurement system. It is text file-based and can be used in place of the RIB for communicating Purchase Orders and Transfers created and released in the overnight batch.

> **Note:** This process does not currently support any action taken by the user in the Order Management application.

This is the recommended method of integration when large volumes of Purchase Orders and Transfers are expected to be executed each night.

Text Files

The following sections detail the text files necessary for the process of Purchase Orders and Transfers to the RIB:

- purchase_order.dat.1
- transfer_order.dat.1

purchase_order.dat.1

Data Element Details

Data Type	Data Element Name	Data Description
Text File	Purchase Orders	New Purchase Orders

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
RETL	ord_exp_po_out.sh	ord_exp_po.xml	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP	Target Object Type	Delimited Text File
Source Object Type	Delimited Text File	Target Object Name	purchase_order_ .dat.1
Source Object Name	PO_MFQUEUE, STORE_ ORDER, NON_CONTENTS_ ORDER, SUPPLIER, STOCKING_POINT, STORE, COMMODITY, COMMODITY_MAPPING	Target Object Database	N/A
Required/Optional	Optional	Target Object Load Intersection	N/A
		Field Delimiter	|
		Final Delimiter	0x0A

Field Level Mapping - Source

#	Source Fields	Source Field Description	Field Start Position	Maximum Field Length
1	PO_MFQUEUE.order_number	Order Number	1	10
2	SUPPLIER.supplier_code	Unique Supplier Identifier	N/A	20
3	MIN(STORE_ORDER. DELIVERY_ DATE), MIN(NON_CONTENTS _ ORDER.DELIVERY_DATE)	Delivery Date	N/A	N/A
4	MAX(STORE_ORDER. DELIVERY_DATE) MAX(NON_CONTENTS _ ORDER.DELIVERY_DATE)	Delivery Date	N/A	N/A
5	PO_MFQUEUE.STATUS	Order Status	N/A	1
6	N/A	S for Store destination, or W for Warehouse destination	N/A	1
7	STORE.store_code, STOCKING_ POINT.stocking _point_number	Unique Identifier for Store or Warehouse destination	N/A	20
8	COMMODITY_MAPPING.rms_sku_ number	Unique SKU identifier	N/A	25
9	COMMODITY_MAPPING.pack_ size, STORE_ORDER.case_volume, NON_CONTENTS_ ORDER.quantity,	Case Quantity	N/A	N/A
10	COMMODITY_MAPPING.rms_ order_multiple	Pack Size	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Condition/Format
1	ORDER_NO	Unique Order Identifier	String	10000 |
2	NOT_BEFORE_DATE	Earliest Expected Delivery Date: YYYYMMDD	Date	20080128 |
3	NOT_AFTER_DATE	Latest Expected Delivery Date: YYYYMMDD	Date	20080128 |
4	STATUS	Order Status	String	A |
5	LOCATION_TYPE	Destination Location Type-S for Store, W for Warehouse	String	S | or W |
6	LOCATION	Unique Identifier for the Destination with any AIP prefixes removed	String	2000 |
7	ITEM	Unique Identifier of the Product to be Ordered	String	4000000 |
8	QTY_ORDERED	Order Quantity in Eaches	Decimal	30 |
9	SUPP_PACK_SIZE	Pack Size	Integer	6 |

Filtering Conditions

All prefixes added by AIP are removed.

Example of purchase_order.dat.1 extract file format:

```
10000|20080128|20080128|A|S|2000|4000000|30|60x0A
```

transfer_order.dat.1

Data Element Details

Data Type	Data Element Name	Data Description
Text File	Transfers	New Transfers

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
RETL	ord_exp_tsf_out.sh	ord_exp_tsf.xml	Daily

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP	Target Object Type	Delimited Text File
Source Object Type	Delimited Text File	Target Object Name	transfer_order_.dat.1
Source Object Name	PO_MFQUEUE, STORE_ORDER, NON_CONTENTS_ORDER, STOCKING_POINT, STORE, COMMODITY, COMMODITY_MAPPING	Target Object Database	N/A

Data Source Details		Target Data Details	
Required/Optional	Optional	Target Object Load Intersection	N/A
Field Delimiter			Field Delimiter		
Final Delimiter	0x0A	Final Delimiter	0x0A

Field Level Mapping - Source

#	Source Fields	Source Field Description	Field Start Position	Maximum Field Length
1	TSF_MFQUEUE.tsf_number	Transfer Number	1	10
2	STOCKING_POINT.stocking_point _number	Unique source Warehouse Identifier	N/A	20
3	N/A	S for Store destination, or W for Warehouse destination	N/A	1
4	STORE.store_code, STOCKING_ POINT.stocking _point_number	Unique Identifier for Store or Warehouse destination	N/A	20
5	MIN(STORE_ORDER. DELIVERY_ DATE), MIN(NON_CONTENTS _ ORDER.DELIVERY_DATE)	Delivery Date	N/A	N/A
6	N/A	Routing Code not available in AIP	N/A	1
7	N/A	Freight Code not specified in AIP	N/A	1
8	COMMODITY_MAPPING.rms_ sku_number	Unique SKU identifier	N/A	25
9	COMMODITY_MAPPING.pack_ size, STORE_ORDER.case_volume, NON_CONTENTS_ ORDER.quantity,	Case Quantity	N/A	N/A
10	COMMODITY_MAPPING.rms_ order_multiple	Pack Size	N/A	N/A

Field Level Mapping - Target

#	Target Data Field Name	Target Field Description	Field Data Type	Condition/Format
1	TSF_NO	Unique Transfer Identifier	String	10000	
2	FROM_LOC	Unique Warehouse identifier with any AIP prefixes removed	Integer	1000	
3	TO_LOC_TYPE	Destination Location Type-S for Store, W for Warehouse	String	S	or W	
4	TO_LOC	Unique identifier for the Store or Warehouse destination with any AIP prefixes removed	String	2000	
5	DELIVERY_DATE	Expected Delivery Date: YYYYMMDD	Date	20080128	
6	ROUTING_CODE	An optional Routing Code	String		
7	FREIGHT_CODE	An optional Freight Code	String		
8	ITEM	Unique Identifier of the Product to be Ordered	String	4000000	

#	Target Data Field Name	Target Field Description	Field Data Type	Condition/Format
9	TSF_QTY	Transfer Quantity in Eaches	Decimal	30	
10	SUPP_PACK_SIZE	Pack Size	Integer	6	

Filtering Conditions

All prefixes added by AIP are removed.

Example of transfer_order.dat.1 extract file format:

10000|1000|S|2000|20080128|||4000000|30|60x0A

17

AIP to RO Interfaces

This chapter describes the AIP to Oracle Retail Replenishment Optimization (RO) interfaces.

Measures

The following sections detail the measures needed for communication between AIP and RO.

STR_AIP_DATA

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Lead Time	Contains the number of days the source takes to deliver the item once the order is released from AIP. Lead time is an integer for a SKU/store.
Measure	Review Time	Review time is the number of days until the next receipt becomes available. This field contains the longest review time found within a certain time period. Review time is an integer for a SKU/store.
Measure	Pack Size	Contains the preferred ordering pack size when ordering the SKU to the store.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	aip_export_to_ro.sh	N/A	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP	Target Object Type	Fixed-length Text File or Comma Separated Values File
Source Object Type	RPAS measures	Target Object Name	STR_AIP_DATA.[txt csv]

Data Source Details		Target Data Details	
Source Object Name	sr0_lt, sr0_rt, sr0_ordpkz	Target Object Load Intersection	str_item
Required/Optional	Optional		

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
STR_	Unique store identifier	1	20
SKU_	Unique SKU identifier	21	20
sr0_lt	Lead Time	41	10
sr0_rt	Review Time	51	10
sr0_ordpkz	Store Ordering Pack Size	61	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
STR	Unique store identifier	String	"1001 "
ITEM	Unique item identifier	String	"123456 "
gleadtime_	GLEADTIME_	Real	"3.0000 "
greview_time_	GREVIEW_TIME_	Real	"14.0000 "
gpacksize	GPACKSIZE_	Real	"24.0000 "

Formatting Conditions

None.

Example of STR_AIP_DATA.txt file:

```
"1001                123456               3.0000    14.0000   24.0000    "
```

Example of STR_AIP_DATA.csv file:

```
"1001,123456,3.0000,14.0000,24.0000"
```

WH_AIP_DATA

AIP can be configured to export warehouse supply-chain information. However, few optimization systems can optimize warehouse replenishment. Refer to the *Oracle Retail Replenishment Optimization* guides and the retailer's specific implementation to determine if warehouses can be optimized.

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Lead Time	Contains the number of days the source takes to deliver the item once the order is released from AIP. Lead time is an integer for a SKU/warehouse.
Measure	Review Time	Review time is the number of days until the next receipt becomes available. This field contains the longest review time found within a certain time period. Review time is an integer for a SKU/warehouse.
Measure	Pack Size	Contains the preferred ordering pack size when ordering the SKU to the warehouse.

Extracting Program Details

Program Type	Program Name	Schema File	Program Frequency
Korn Shell Script	aip_export_to_ro.sh	N/A	On request

Data Source and Target Details

Data Source Details		Target Data Details	
Data Origin System	AIP	Target Object Type	Fixed-length Text File or Comma Separated Values File
Source Object Type	RPAS Measures	Target Object Name	WH_AIP_DATA.[txt|csv]
Source Object Name	IpWhLtO, IpWhRtO, IpWhOrdPkzO	Target Object Load Intersection	WH__SKU_
Required/Optional	Optional		

Field Level Mapping - Source

Source Fields	Source Field Description	Field Start Position	Field Width
WH__	Unique warehouse identifier	1	20
SKU_	Unique SKU identifier	21	20
IpWhLtO	Lead Time	41	10
IpWhRtO	Review Time	51	10
IpWhOrdPkzO	Warehouse Ordering Pack Size	61	10

Field Level Mapping - Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
WH	Unique warehouse identifier	String	"1001 "
ITEM	Unique item identifier	String	"123456 "
Lead time	Lead Time	Real	"21.0000 "
Review time	Review Time	Real	"14.0000 "
WH Pack Size	WH Ordering Pack Size	Real	"48.0000 "

Formatting Conditions

None.

Example of WH_AIP_DATA.txt file:

```
"1001               123456               21.0000   14.0000   48.0000   "
```

Example of WH_AIP_DATA.csv File:

```
"1001,123456,21.0000,14.0000,48.0000"
```

18

First Day of AIP

The phrase *First Day of AIP* encompasses the steps required to initially load the Enterprise and Merchandise data into AIP for the setup of the supply-chain and the replenishment parameter definition. The term day in this phrase does not necessarily correspond to a single calendar day. The First Day process, as defined by this document, and required for the use of AIP, executes the minimal set of steps required to populate an empty database while leveraging the automated supply-chain setup logic.

While this process populates an empty database, it is not a conversion process that so often occurs when transitioning off of legacy systems. AIP works in tandem with the merchandising system, and the execution of this process will build out the database with the initial Enterprise and Merchandise data. This specific process is only executed for the initial load of the database; however, maintenance of the Enterprise and Merchandise hierarchy is a constant, ongoing task.

The goal of this process is to ready the database for the automated supply-chain setup as well as the manual supply-chain setup and the replenishment parameter definition. Its success is pertinent to the ability to complete the setup and, therefore, the system's overall ability to begin replenishment of items.

The following information and procedures are written with the assumption that all AIP components have been properly installed and configured to interact appropriately. See the *Oracle Retail Advanced Inventory Planning Installation Guide* for details. The necessary environments must exist and be set up as indicated in the *Oracle Retail Advanced Inventory Planning Implementation Guide*. Also, for more specific instructions and details around the batch process, refer to the *Oracle Retail Advanced Inventory Planning Operations Guide*.

Overview

The First Day of AIP is little more than the first iteration of the daily AIP batch cycle. It virtually mirrors the cycle but executes only a subset of the daily processes. This document will not only outline the actions to execute the First Day of AIP but will also explain what the process is accomplishing and why. Understanding the goal of the First Day, the reason it is different, and how it executes will provide a deeper understanding of the flow of data between AIP and external systems as well as between the two AIP platforms:RPAS and Oracle.

Keeping in mind the goal and purpose of the First Day of AIP will provide the needed insight to clearly understand how the required actions accomplish the goal.

The First Day of AIP Explained

The First Day of AIP has two clear goals:

- Load the database with Enterprise and Merchandise hierarchy data.

- Enable automated data maintenance to run for the new data being loaded.

Load Data

On a day-to-day basis, AIP is synchronized with both the external data coming from the merchandising and forecasting systems and the internal data created on each platform. This must occur on both AIP platforms: RPAS and Oracle. This occurs first in RPAS prior to the replenishment planning calculations. All data required for the replenishment planning calculations is loaded into AIP on the RPAS platform. This means that the data is first extracted out of AIP on Oracle, the merchandising system, forecasting system, and so forth for loading into AIP on RPAS. In a daily batch run, the RPAS database would be synchronized with:

- Enterprise Hierarchy

- Merchandise Hierarchy

- Supply-chain Parameters

- Inventory Positions

- Forecasts

- AIP Supply-chain

Following the data manipulation and replenishment planning on RPAS, the plan, hierarchies, and other modified supply chain data is extracted and/or passed from RPAS to the Oracle database. The Oracle database is then synchronized with the latest data passed to, or created by, AIP on RPAS. In a daily batch run, the Oracle database would be synchronized with:

- Enterprise Hierarchy

- Merchandise Hierarchy

- Supply Chain Parameters

- AIP Supply-chain

- Supply-chain Alerts

- Replenishment Plan

- Order Information (received quantities, closed orders, and so forth.)

The First Day attempts to follow the same process as the daily batch; however, only some of the physical supply-chain elements exist, not the complete supply-chain representation. Therefore, the first day batch processes must be limited to merely loading the data and setting up the logical connections and replenishment parameters without doing any replenishment planning.

Impact to AIP on RPAS

Since AIP on RPAS is the first part of the AIP application to be synchronized, up to the point of loading the data both the RPAS and Oracle databases are empty, with the exception of a minor amount of seed data.

- Where normally there would be data to load from the Oracle database there is none. All logic related to retrieving and loading data from AIP on Oracle will be skipped since there is virtually no data.

- Since the supply-chain is not yet defined in Data Management (DM) (AIP on Oracle), replenishment will not be run. No replenishment plan is produced.

- Consequently, because replenishment will not be run, all logic related to retrieving and loading the inventory positions and forecasts will not be executed.

- A portion of the automated data maintenance is executed on RPAS. The processes that are triggered by or identify new hierarchy elements are executed. The processes that operate on the premise of maintaining existing supply chain data are not executed.

Impact to AIP on Oracle

AIP on Oracle is loaded after AIP on RPAS. The first day load process is quite similar to the daily load process, but should account for the fact that the replenishment plan does not exist, nor do any past AIP Orders.

- No received quantities, closed orders, or recycled order numbers are available because no purchase orders or transfers have been executed from AIP.

- No replenishment plan exists to import from AIP on RPAS. Therefore, all logic related to retrieving and loading data from AIP on RPAS will be skipped.

- A subset of data setup alerts will be loaded. These alerts pertain to data that is available or created on the first day of AIP.

> **Note:** The export logic is not executed to extract data out of the Oracle database before the first AIP on RPAS load.

Enable Automated Data Maintenance

Automated Data Maintenance constitutes a significant portion of the AIP batch processes that occur on the Oracle platform. It is comprised of a number of processes that not only select default values but also set up a significant portion of the supply chain for new entities, such as suppliers, locations, or items.

The magnitude of these operations, both in terms of saved user effort and the importance of automation, is evident in Figure 18–1, that provides a detailed outline of the AIP supply chain structure.

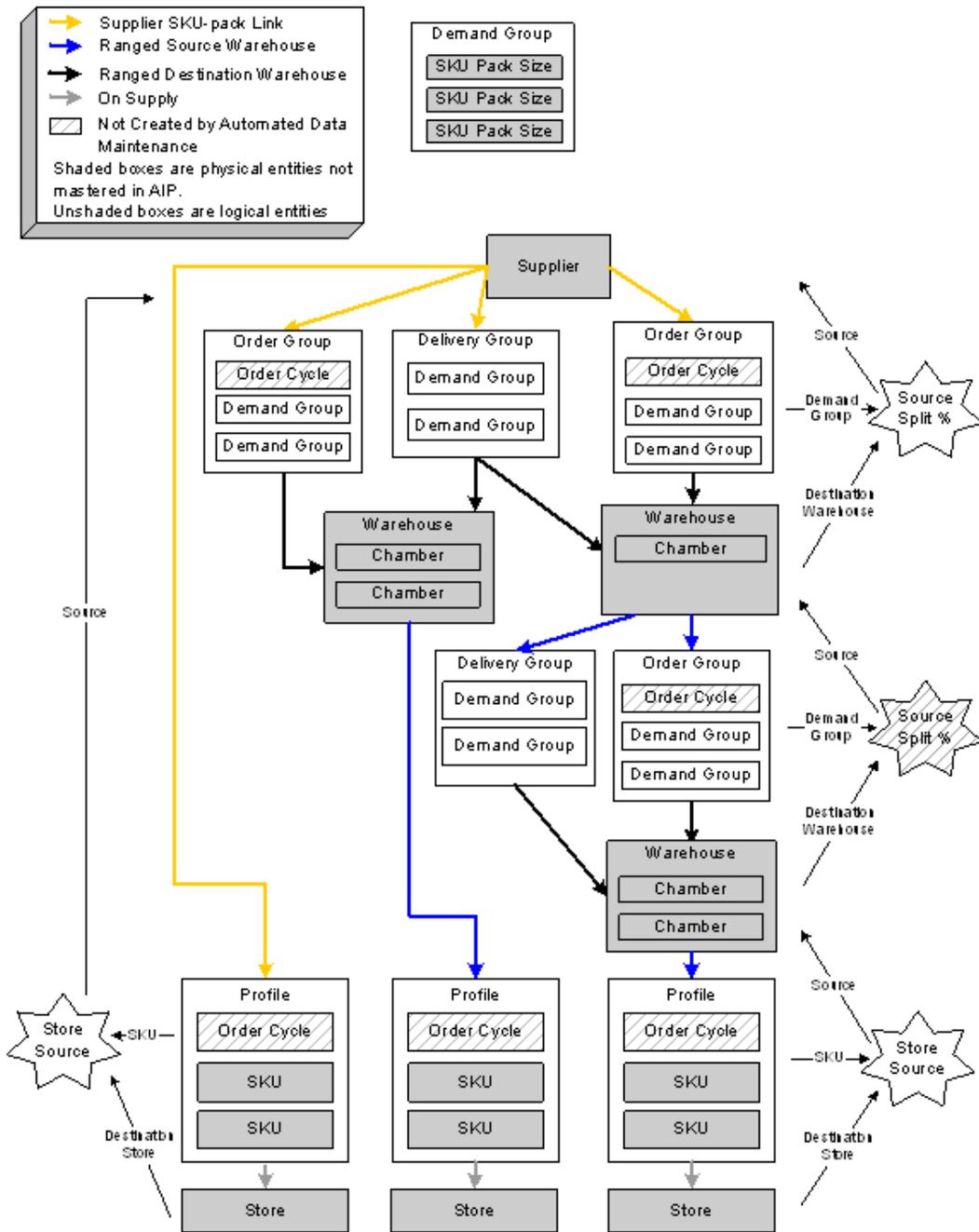*Figure 18–1   AIP Supply Chain Structure Diagram*

Figure 18–1 lists the physical as well as logical entities of the supply chain that must be defined within AIP. If configured correctly, all logical entities can be created by the Automated Data Maintenance processes, with the exception of those noted in the diagram and the Supplier SKU pack size links.

The diagram provides an easy-to-discern list of needed supply chain elements. For example, by examining Figure 18–1 from top to bottom it can be seen that:

- A source must be connected to a Delivery Group and Order Group for delivery into warehouses and a Profile for delivery into the store.

- The Order Group must be associated with an Order Cycle.

- Demand Groups must be associated with an Order Group and Delivery Group for deliveries from a source to a warehouse-chamber destination.

- Demand Groups must be created for SKU-pack sizes.

Figure 18–1 illustrates what the First Day of AIP needs to accomplish on the Oracle platform. By fully comprehending each element of Figure 18–1, it becomes clear why the first day process should be different for AIP on Oracle and how to maximize the effect of automation while minimizing the amount of extra effort required to enable it.

The full analysis of each element of Figure 18–1 is out of the scope of this document; however, the elements that impact the first day will be examined.

- Order Cycles are required to create Order Groups and Profiles. Order Cycles are not created by Automated Data Maintenance; however, default Order Cycles are provided as seed data loaded before the Fist Day.

- Warehouse chambers are required to create Order Groups, Delivery Groups, and ranged warehouse/SKU-pack sizes. Chambers are not created by Automated Data Maintenance since there is not a single rule-set that will work for all businesses. It is maintained as a manual process. Automated Data Maintenance could do very little setup the first day if the First Day process was not altered to accommodate for this fact.

The First Day of AIP Execution

Prior to executing the steps listed in Table 18–1, ensure that all installations and configurations are set according to the *Oracle Retail Advanced Inventory Planning Installation Guide*, *Oracle Retail Predictive Application Server Installation Guide*, and *Oracle Retail Advanced Inventory Planning Implementation Guide*.

The detailed First Day processes that will be executed for AIP on RPAS can be found in the *Oracle Retail Advanced Inventory Planning Operations Guide*.

The First Day execution steps are similar to the daily steps; however, because it is typically when the most new data is introduced, the execution time will likely extend beyond a normal batch window.

Table 18–1 lists the main steps of The First Day of AIP.

Table 18–1   First Day of AIP Execution Steps

Step	Description
Step 1: Virtual Date (Vdate)	Sets and synchronizes the virtual/notional date across AIP on Oracle and AIP on RPAS.
Step 2: Build the SRP Implementation Parameters Workbook	Customizes implementation parameters required for AIP RPAS batch logic and calculations.
Step 3: First Day of AIP on RPAS Batch	■ Loads RMS hierarchies into AIP RPAS domain. ■ Calculates new hierarchy element alerts. ■ Creates specific hierarchy attributes. ■ Calculates certain supply chain logical concepts for Online.
Step 4: First Day of AIP on Oracle Import	■ Imports hierarchies are imported into AIP on Oracle. ■ Imports fully all ofl AIP on RPAS exports. ■ Creates a significant portion of the logical supply chain structure by automation.
Step 5: First Day of AIP on Oracle Manual Setup	Creates Warehouse Chambers and assignment of SKU types.
Step 6: First Day of AIP on Oracle Automation	Executes the entire set of Automated Data Maintenance processes to automatically set up the supply chain.
Step 7: First Day of AIP on Oracle Import of Non-critical Alerts	Imports the non-critical Data Management alerts from AIP RPAS.
Step 8: Manual Setup of AIP	■ Sets AIP on RPAS replenishment defaults and exceptions. ■ Sets or modifies Data Management (DM) supply chain parameters, defaults, and exceptions.

Step 1: Virtual Date (Vdate)

Step Details

As this is the first time AIP Batch will be run, the Vdate must be set so both AIP on Oracle and AIP on RPAS are in sync. The intention of Vdate is to ensure that the nightly batch processing occurs for a single calendar day and does not need to account for the system date changing calendar days as the clock reaches midnight. Under normal circumstances, the Vdate will match SYSDATE when the batch is complete. For the purposes of exporting the data generated by the Automated Data Maintenance processes, it is important to set the Vdate to a date that is equal to or greater than the date when all the First Day activities will be completed.

For example, if it is expected that the automation and manual setup takes two days to complete for the First Day setup and today is April 1st, 2007, then Vdate should be set to 20070403. This allows the Vdate to be set to 20070404 when the first full end-to-end AIP Batch is run.

Step Execution

Run vdate.sh script to set the Vdate in the AIP Oracle database and export the value to a flat file.

```
/aip/oracle> vdate.sh set export 20070101
```

Copy the flat file `vdate.int` from `${INTEGRATION_HOME}/vdate` to `${AIPDOMAIN}/interface/import/meas`.

Step 2: Build the SRP Implementation Parameters Workbook

Step Details

Before running the AIP RPAS batch steps using aip_batch.sh script as detailed in the following steps, one RPAS workbook must be built and values in the workbook changed as desired. There are RPAS batch steps that depend on the values that can be customized in this workbook.

Most importantly, the RPAS measure Inventory Tracking Level (sr0_invtrklvl) is queried by batch steps "check_process_external_data" and "check_process_inventory_data" in order to choose between logic based on a packs or eaches processing mode. Therefore, the appropriate level must be determined before the AIP RPAS batch is executed.

Step Execution

Log in to the SRP workbook. Refer to the *Oracle Retail Store Replenishment Planning User Guide* for details on building and modifying the values in this workbook.

Step 3: First Day of AIP on RPAS Batch

Step Details

The goal of the First Day of AIP RPAS batch processing is to load all hierarchy elements into the AIP RPAS domain and perform various supply chain setup activities. This step consists of a subset of the daily AIP RPAS batch script steps. Refer to the *Oracle Retail Advanced Inventory Planning Operations Guide* for a detailed list of the steps. The output of these processes is put into flat files to pass to AIP on Oracle. The flat files are loaded into the Oracle database in the next step. Following are the details of this output:

Hierarchy Files

Product hierarchy	prod.dat
Profile hierarchy	prof.dat
Store hierarchy	loc.dat
Supplier hierarchy	hspl.dat
Warehouse hierarchy	whse.dat

Hierarchy Alerts

New SKU Alert	dmx_newprd.dat
New SKU Packsize Alert	dmx_newpsz.dat
New Store Alert	dm0_new.dat
New Supplier Alert	dm0_newspl.dat
New Warehouse Alert	dm1_new.dat

Attributes

Default Warehouse info for Stores	default_wh.dat
Direct-supply flag	dmx_dirspl.dat
SKU Packsize Pack-type	dmx_pcktyp.dat
SKU Packsize Attribute	item_attribute_type.dat
SKU Packsize Attribute Value	item_attribute.dat
Supplier Ship-to info	dmx_shpto_.dat
Warehouse Type info	wh_type.dat
Warehouse Promotional Start Date	dm0_pmsstasrc.dat
Warehouse Promotional End Date	dm0_pmsendsrc.dat
RMS to AIP SKU Map	dmx_rmsskumap.dat

Supply Chain Logical Links

Home Warehouse	dm1_prfhme.dat
Product-Profile Links	dmx_prdprflks.dat
Product-Supplier Links	dmx_prdspllks.dat
Profile Default Order Cycle	dmx_prfdefocy.dat
Profile Links	dm1_prflks.dat
Off-sale	dm0_ofseffdt_.dat
On-sale	dm0_onseffdt_.dat
Store Source	dm0_src_i.dat

Step Execution

The aip_batch.sh control script has a -f flag that automatically runs all necessary steps (or the start and end flags can be used as well).

```
/aip/rpas> aip_batch.sh -f
```

- OR -

```
/aip/rpas> aip_batch.sh -f -s set_implementation_parameters -e run_reports_
calculation
```

Step 4: First Day of AIP on Oracle Import

Step Details

The First Day of AIP on Oracle import is merely a subset of the complete import that is executed on a daily basis. In addition, there is a pause between the execution of the import and the automation tasks that occur afterward. The pause is required to allow the next step, , to occur.

Following is a list of the files imported in the First Day import:

Hierarchy Import

Description	File name	Import Directory
Product hierarchy	prod.dat	sku_pack
SKU Packsize Pack-type	dmx_pcktyp.dat	sku_pack
SKU Packsize Attribute	item_attribute_value.dat	sku_pack
SKU Packsize Attribute Value	item_attribute.dat	sku_pack
Profile hierarchy	prof.dat	profile
Store hierarchy	loc.dat	store
Default Warehouse for Stores	default_wh.dat	store
Supplier hierarchy	hspl.dat	supplier
Supplier Ship-to info	dmx_shpto_.dat	supplier

Description	File name	Import Directory
Warehouse hierarchy	whse.dat	warehouse
Warehouse Type info	wh_type.dat	warehouse

Data Management Import

Description	File name	Import Directory
New Product Alert	dmx_newprd.dat	alerts
New Packsize Alert	dmx_newpsz.dat	alerts
New Store Alert	dm0_new.dat	alerts
New Supplier Alert	dm0_newspl.dat	alerts
New Warehouse Alert	dm1_new.dat	alerts
Direct-supply flag	dmx_dirspl.dat	direct_suppliers
Direct-to-Store Format Ordering Pack Size	direct_store_format_pack_size.dat	direct_store_format_pack_size
Direct-to-Store Ordering Pack Size	direct_store_pack_size.dat	direct_store_pack_size
Off-sale	dm0_ofseffdt_.dat	on_supply_off_supply
On-sale	dm0_onseffdt_.dat	on_supply_off_supply
WH-to-Store Format Ordering Pack Size	store_format_pack_size.dat	store_format_pack_size
WH-to-Store Ordering Pack Size	store_pack_size.dat	store_pack_size
Store Source	dm0_src_i.dat	store_source
Home Warehouse	dm1_prfhme.dat	home_warehouse
Product-Profile Links	dmx_prdprflks.dat	assigned_commodity
Product-Supplier Links	dmx_prdspllks.dat	commodity_supplier_links
Profile Order Cycle	dmx_prfdefocy.dat	profile_order_cycle
Profile Links	dm1_prflks.dat	valid_warehouse
RMS to AIP SKU Map	dmx_rmsskumap.dat	sku_map
Warehouse Promotional Start Date	dm0_pmsstasrc.dat	warehouse_promotional_dates
Warehouse Promotional End Date	dm0_pmsendsrc.dat	warehouse_promotional_dates

Step Execution

Perform the following procedure:

1. Set the environment variables for the session.

   ```
   /aip/oracle> . aip_common_online.sh
   ```

2. Prepare the flat files in the import directory.

   ```
   /aip/oracle> ${INTEGRATION_HOME}/scripts/prep_files.sh DM_
   data AIP-ONLINE
   ```

3. Verify the success of the operation by checking the log files for errors and checking the return value of the last operation.

   ```
   /aip/oracle> echo $?
   ```

4. Import the hierarchy values and attributes by executing the process_aiponline_data.sh script.

   ```
   /aip/oracle> ${INTEGRATION_HOME}/scripts/process_aiponline_
   data.sh -l "${INTEGRATION_HOME}/config/import_
   hierarchy.config" -d "${ONL_IMPORT_DIR}"
   ```

5. Verify the success of the operation by checking the log files for errors and checking the return value of the last operation.

   ```
   /aip/oracle> echo $?
   ```

6. Import the measure data.

   ```
   /aip/oracle> ${INTEGRATION_HOME}/scripts/process_aiponline_
   data.sh -l "${INTEGRATION_HOME}/config/import_dm.config" -d
   "${ONL_IMPORT_DIR}"
   ```

7. Verify the success of the operation by checking the log files for errors and checking the return value of the last operation.

   ```
   /aip/oracle> echo $?
   ```

Step 5: First Day of AIP on Oracle Manual Setup

Step Details

In order to achieve the maximum benefit from Automated Data Maintenance, you are required to create warehouse chambers and assign SKU-types to them. These actions occur in the Data Management (DM) application. Refer to the *Oracle Retail Data Management Online User Guide* or the Online Help for details on creating chambers and assigning one or more SKU types.

Step Execution

Perform the following steps:

1. Log in to Data Management Online.

2. Follow the steps to create one or more chambers for each warehouse.

3. Follow the steps to assign one or more SKU types to each chamber.

Step 6: First Day of AIP on Oracle Automation

Step Details

When configured and executed, Automated Data Maintenance will set up the supply-chain for new Suppliers, new SKU-pack sizes, sister warehouses, and sister stores. On the first day, this pertains to all suppliers and SKU-pack sizes because all data is new to AIP.

None of the maintenance activities will have an effect because all data is new and therefore no invalid relationships exist. Refer to the *Oracle Retail Advanced Inventory Planning Operations Guide* for a detailed explanation of the processes executed to set up and maintain the supply-chain.

> **Note:** Sister store and sister warehouse automation do nothing the first day.

Step Execution

Perform the following procedure to execute the process.

1. Execute the automation control script.

    ```
    /aip/oracle> ${INTEGRATION_HOME}/scripts/post_import_
    wrapper.sh
    ```

2. Verify the success of the operation by checking the log files and the return value of the last operation.

    ```
    /aip/oracle> echo $?
    ```

Step 7: First Day of AIP on Oracle Import of Non-critical Alerts

Step Details

The non-critical alerts are informative alerts that identify potential holes in the supply chain. During batch runs subsequent to the First Day, these alerts can trigger automated maintenance of certain data in addition to an informative alert visible to you in Data Management Online.

Step Execution

Perform the following procedure to execute the process.

1. Prepare the flat files in the import directory.

   ```
   /aip/oracle> ${INTEGRATION_HOME}/scripts/prep_files.sh DM_
   alerts AIP-ONLINE
   ```

2. Verify the success of the operation by checking the log files for errors and checking the return value of the last operation.

   ```
   /aip/oracle> echo $?
   ```

3. Import the hierarchy values and attributes.

   ```
   /aip/oracle> ${INTEGRATION_HOME}/scripts/process_aiponline_
   data.sh -l "${INTEGRATION_HOME}/config/import_dm_
   alerts.config" -d "${ONL_IMPORT_DIR}"
   ```

4. Verify the success of the operation by checking the log files for errors and checking the return value of the last operation. Note that you will likely see warning messages indicating that some files do not exist. This is expected on the first day.

   ```
   /aip/oracle> echo $?
   ```

Step 8: Manual Setup of AIP

Step Details

Although the Automated Data Maintenance logic creates the majority of the supply chain representation, AIP has various other attributes and exceptions that, if they are to be leveraged, must be manually created. You can also choose to modify the supply chain created by automation.

The Data Management (DM) attributes and exceptions that are not created by automation are included in the following list. Those noted by an asterisk (*) are required for replenishment:

- Planning Groups
- Network Groups
- Planning Horizons (Global default is set at implementation time)
- Singles Enabled SKU
- Store Order Cycle Exceptions
- Non-release Dates and Exceptions
- Non-receipt Dates
- Store Receiving Calendar*
- Direct/Warehouse to Store Pack Size Exceptions (can be loaded)
- Warehouse Coupled Flag
- Stockless Indicator Exceptions
- Shifts and Slots*
- Receiving Windows

- Time Balanced Order Source Splits (partially created by automation)*

- Supplier Locks

- Non Order Dates and Exceptions

- Non Delivery Dates and Exceptions

AIP on RPAS replenishment parameters must be set prior to executing the first full AIP batch run in order for a plan to be generated. The parameters define replenishment methods, tolerances, and other attributes required for generating planned orders.

Note that this setup can occur at any point after "Step 3: First Day of AIP on RPAS Batch", but must be completed prior to executing a full batch cycle, that includes replenishment planning.

Step Execution

Log in to the Data Management (DM) application. Refer to the *Oracle Retail Advanced Inventory Planning Data Management User Guide* for a detailed description of how to perform each action.

Log in to the SRP and WRP workbooks. Refer to the *Oracle Retail Advanced Inventory Planning Store Replenishment Planning User Guid*e and *Oracle Retail Advanced Inventory Planning Warehouse Replenishment Planning User Guide* for details on building workbooks and modifying the Administration Workbooks.

19

Internationalization

Internationalization is the process of creating software that can be translated more easily. Changes to the code are not specific to any particular market.

Oracle Retail applications have been internationalized to support multiple languages.

Translation

Translation is the process of interpreting and adapting text from one language into another. Although the code itself is not translated, components of the application that are translated include the following:

- Graphical user interface (GUI)
- Error messages

The following components are not translated:

- Documentation (online help, release notes, installation guide, user guide, operations guide)
- Batch programs and messages
- Log files
- Configuration tools
- Reports
- Demonstration data
- Training materials

The user interface has been translated into the following languages:

- Chinese (Simplified)
- Chinese (Traditional)
- Croatian
- Dutch
- French
- German
- Greek
- Hungarian
- Italian

- Japanese
- Korean
- Polish
- Portuguese (Brazilian)
- Russian
- Spanish
- Swedish
- Turkish

Custom AIP Strings

The following custom AIP strings are translated into the available languages for display through the RPAS Client:

- Hierarchy labels

- Dimension labels

- Workbook Template Group Labels

- Workbook Template Labels

- Measure Labels

- Workbook Messages and Warnings

All of the above translated strings, for each available language, are loaded into the AIP RPAS domain during the AIP RPAS domain build process.

All translated strings, for each available language, are deployed by default for Data Management Online and Order Management.

> **Note:**   For information about adding languages for the first time or for translation information in general, including changing the displayed language displayed by the RPAS Client and configuring the base RPAS translations, see the *Oracle Retail Predictive Application Server Administration Guide for the Classic Client – Volume 1*.