Oracle® Retail Advanced Inventory Planning

Implementation Guide
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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 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

Related Documents

For more information, see the following documents in the Oracle Retail Advanced Inventory Planning Release 13.1 documentation set:

- *Oracle Retail Advanced Inventory Planning Release Notes*
- *Oracle Retail Advanced Inventory Planning Patch Installation Guide*
- *Oracle Retail Advanced Inventory Planning Data Management Online Online Help*
- *Oracle Retail Advanced Inventory Planning Data Management Online User Guide*
- *Oracle Retail Advanced Inventory Planning Order Management Online Help*
- *Oracle Retail Advanced Inventory Planning Store Replenishment Planning User Guide*
- *Oracle Retail Advanced Inventory Planning Warehouse Replenishment Planning User Guide*
- *Oracle Retail Advanced Inventory Planning Operations Guide*
- *Oracle Retail Advanced Inventory Planning Data Model Volume 1 Oracle Data Model*
- *Oracle Retail Advanced Inventory Planning Data Model Volume 2 Measure Reference Guide*

The following documentation may also be needed when implementing AIP:

- Oracle Retail Integration Bus (RIB) 11.1 or 13.0 documentation, based on type of deployment
- RETL 13.0 documentation
- Oracle Retail Predictive Application Server (RPAS) documentation

Customer Support

- https://metalink.oracle.com

When contacting Customer Support, please provide:

- Product version and program/module name.
- Functional and technical description of the problem (include business impact).
- Detailed step-by-step instructions to recreate.
- Exact error message received.
- Screen shots of each step you take.

Review Patch Documentation

If you are installing the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.2). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release and code changes that have been made since the base release.

Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available on the following Web site (with the exception of the Data Model which is only available with the release packaged code):

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

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

Conventions

Navigate: This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement "the Window Name window opens."

> **Note:** This is a note. It is used to call out information that is important, but not necessarily part of the procedure.

```
This is a code sample
    It is used to display examples of code
```

A hyperlink appears like this.

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 *AIP 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

Overview

When preparing to implement the Advanced Inventory Planning solution, you must closely explore the retailer's infrastructure, hierarchy data, and other factors that may 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.

The following list provides some of the issues that the implementation team may need to address prior to implementation:

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 may vary depending on the extent that the Configuration Tool will be used by the application.
2. Measure Settings

   The following measure settings need to be addressed during implementation, which 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 don't 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.
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, etc.

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 the user 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 also informs the user what that limit is. The wizard process then terminates.

8. Data Management Automation

   Creation of certain logical constructs in Data Management may 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.

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 via a 'Store use inventory aging flag'. Constraints on the application of inventory aging are as follows

    a. A global limit (in number of days) on or inside which an item with product life can be considered in the expected spoilage calculation.
    b. 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. The user may have an actual number of spoilage that is to be used. A measure (expected write-off's) can be entered by the user 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)
- 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 may grow or shrink. However no screens 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 screens 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

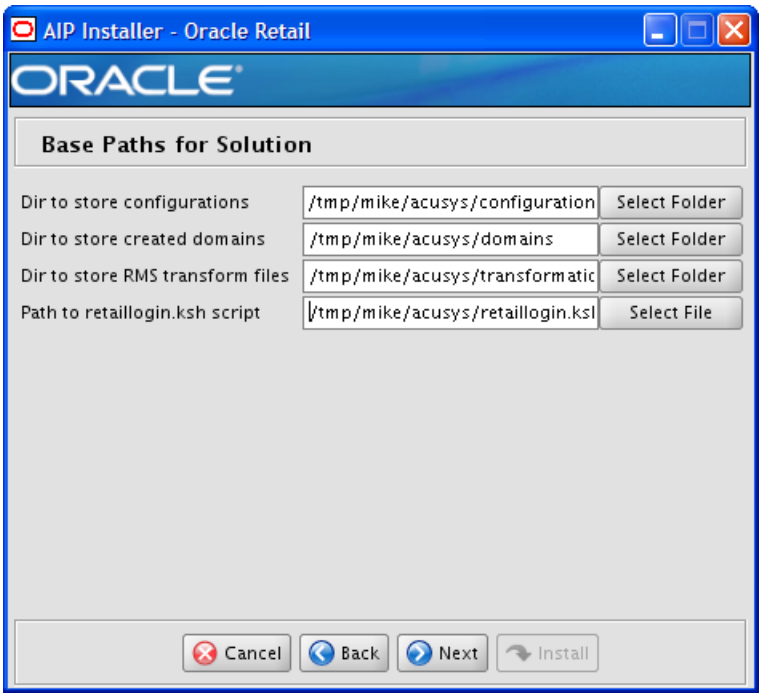
Building a Production AIP RPAS Domain

Introduction

During the installation of the AIP RPAS batch code (as detailed in the *AIP Installation Guide*, Chapter 8) 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 detail to the user on the process for creating an AIP RPAS domain with production-quality data. This process may be run whether or not you have already run the AIP RPAS Installer.

For reference purposes, this chapter will use the notation <AIP Installer> to refer to the UNIX directory where the AIP-13.1.1-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 seen in the below screen shot.



Base Paths for Solution Screen

In the screen shot above, /tmp/mike/acusys/configurations/aip was entered as the directory to store the configurations. For purposes of this document, $AIP_INSTALL will refer to this directory.

The table below provides information about the directories inside the $AIP_INSTALL directory. These directories will be populated by the AIP RPAS Installer once it is run.

Directory	Contents
$AIP_INSTALL/configuration/AIP	AIP base XML files generated by and which 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 (e.g. RMS, 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 described in the following table.

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

Hierarchy Data File	Description
whse.dat	Warehouse

Some of the data provided in the AIP package will be of no use to the client running AIP in a production environment because the positions are sample positions only, while other hierarchy data contain generic positions that do not need to be customized (e.g. 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 they are not using this functionality. A core dump will occur 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 "AIP Calendar Hierarchy" chapter of this guide for detailed information on file format of calendar hierarchy.

In addition to the hierarchy data listed in the above table, 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 manipulation 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

Configuration the AIP Solution (Optional)

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 Final AIP RPAS Domain

Manipulate the Hierarchy Data, Part One

1. Locate and extract AIP-13.1.1-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, read the *Oracle Retail Advanced Inventory Planning Installation Guide*, Chapter "Installing AIP RPAS."

   The AIP-13.1.1-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 customer.

   The clnd.dat file contains the calendar hierarchy information. Details on the file format of this file can be found in the *Oracle Retail Advanced Inventory Planning Implementation Guide*, Chapter 7. This file should 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 we do not want to load sample positions into these hierarchies. This is the reason 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 Chapter 7 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 screen**) 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.

Running 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, 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 will set the $AIP_INSTALL and $TEST_AIPDOMAIN environment variables.

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

Configuring the AIP Solution

Users 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 *RPAS 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 may be optionally loaded by the domain administrator. See the *Oracle Retail Application Server Administration Guide* for details. It is strongly recommended that the multi-language setting remain at "true". RPAS does not support upgrading a domain that is not multi-language to a multi-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 describes what you may and may not customize with respect to maintaining the integrity of this release:

- Clients cannot change existing measures or rules, or add rules to existing rule groups. Doing so will result in a non-supported AIP configuration, which will yield unpredictable results during the operation of AIP.
- Clients may add additional measures, rule groups and workbooks. These will not be modified or otherwise touched during the patch installation.
- Clients may 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.

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 will result 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 will be 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, because the batch processes will check 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.

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
```

   Currently, the AIP RPAS batch process will check for existence of all required files and halt 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.

2. 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. To avoid error in batch processing that expects to process advertising and interval hierarchies even when they are not present (as they are configured as optional), also touch had.txt and intv.txt.

```
dm0_ofseffdt_.txt
dm0_onseffdt_.txt
dmx_prdspllks.txt
dmx_dirspl.txt
had.txt
intv.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 which 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 which 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) are defaulted to the $TEST_AIPDOMAIN and $TEST_RPAS_INTEGEATION_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. Execute the following command:

```
aip_batch.sh -f -s check_process_external_data -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 **check_process_external_data** 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 default 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. All of these can be customized according to the needs of the application.

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

```
<?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_4
42,25_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_5
31_658,5_699_817,66_213_482,66_214_553,66_223_394,66_224_1117,71_710_112,71_710_11
3,71_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, then customize each new copy of the tag-set.

> **Tip:** Each sub-domain (i.e. local domain) must contain at least one position along the partitioning dimension (e.g., 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 below 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 below) to create the AIP domain there is one system environment variable clients may 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. Please consult the RPAS documentation for more information about various options that may 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.

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 displayed in the table below.

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, the user will be alerted and should check the log file to determine the source of the error.

The log file may 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", and "exception".

Note: When viewing or searching through the build log, please 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 will be 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:

Customer Data Hierarchies:

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

Empty Hierarchies:

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

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 which 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 may 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 *RPAS Administration Guide* 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 (e.g. `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 *RPAS Administration Guide* 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 Client must be configured to point to one of the newly created domains.

Refer to the *RPAS 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.

Post Installation Instructions

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

4

System Configuration

Setting Environment Variables

After AIP is installed, you must define the environment variables for the domain paths, integration directory paths, message logging levels, etc. 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 RPAS Administration for detail information this feature. To specify the security dimension for a hierarchy, use the RPAS Configuration Tools or hierarchyMgr utility. Refer to the *RPAS Configuration Tools User Guide* for more information.

aip_env_rpas.sh

The variables displayed in the following table need to be defined properly within aip_env_rpas.sh.

It is important to note that the values of the environment variables can be variables themselves depending on the business needs. Such variables may add flexibility for environment maintenance, patch testing, etc. and are used at the discretion of the business.

For 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 below corresponding to directory paths must not contain white space. For example, AIPDOMAIN may be defined as "`/files1/aip/AIP1`" but may not be defined as "`/files1/aip/AIP RPAS Domain`".

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 which must also be defined apart 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 which must also be defined apart 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 may store temporary files. Valid definition of this variable is required by the BSA common scripts. **Note:** THIS SHOULD NOT BE SET TO /tmp. Failures may occur due to insufficient temporary workspace.
BSA_LOG_LEVEL	Script logging threshold severity. Only log entries at this or higher severity level 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) may 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.

Environment Variable	Description
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.
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 level 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 version 11+ output data.
RMS10_SCHEMA_DIR	Fully qualified path to the directory that contains the RETL schema files corresponding to the untransformed RMS version 10 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.

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

aip_ro_common.sh

The variables displayed in the following table need to 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 may disregard these settings.

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 may have an adverse affect on the user workbooks**.

Number of Available File Handles (ULIMIT)

Prior to AIP batch execution the System Administrator should ensure the limit of available file handles (ulimit –n <number>) is **above 2000 file handles per process**. Setting ulimit less than recommended value may cause AIP batch process to fail. Please 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 need to be configured for your environment. This information can also be found in the README file provided with the online integration files.

It is important to note that the values of the environment variables can be variables themselves depending on the clients needs. Such variables may add flexibility for environment maintenance, patch testing, etc. and are used at the discretion of the business.

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 may 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 may 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 may store temporary files. Valid definition of this variable is required by the BSA common scripts.

Environment Variable	Description
BSA_LOG_LEVEL	Logging severity threshold for batch scripts. Only log entries at this or higher severity level 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) may 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. However, the client may assign a hardcoded value at their discretion. 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. However, the client may assign a hardcoded path to this value at their discretion.
HAVE_WIP	Indicates if WIP is enabled to export and import data. The default value is set to false. WIP will not be implemented for AIP 13.0.
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. i.e. 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.

Note: RETL runs within a Java Virtual Machine (JVM). Errors concerning the JVM stack size may 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. The user may override it by setting the RETL_THREAD_STACK_SIZE variable in aip_env_online.sh or in their 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 displayed in the table below should be defined. Verify that these environment variables are properly defined.

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

User Path

When invoking online shell scripts, the user's PATH must include the following directories:

- $INTEGRATION_HOME
- $INTEGRATION_HOME/bsa
- $INTEGRATION_HOME/config
- $INTEGRATION_HOME/scripts
- $RFX_HOME
- $RFX_TMP
- $ORACLE_HOME

For some variables defined in aip_env_online.sh, the value is defaulted to another externally-defined variable. This approach provides flexibility in that multiple users can use a single aip_env_online.sh but point to different test directories, domains, or RETL configuration files. It is important to note that the test directories listed in the externally defined variables must also be in the user's PATH. Please refer to the *AIP Installation Guide* for further details on defining variables in the .profile file.

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 user's PATH.

Using the Scheduler to Run AIP Batch Processes

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

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

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

If the Oracle Retail Integration Bus (RIB) will not be 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 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 may 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

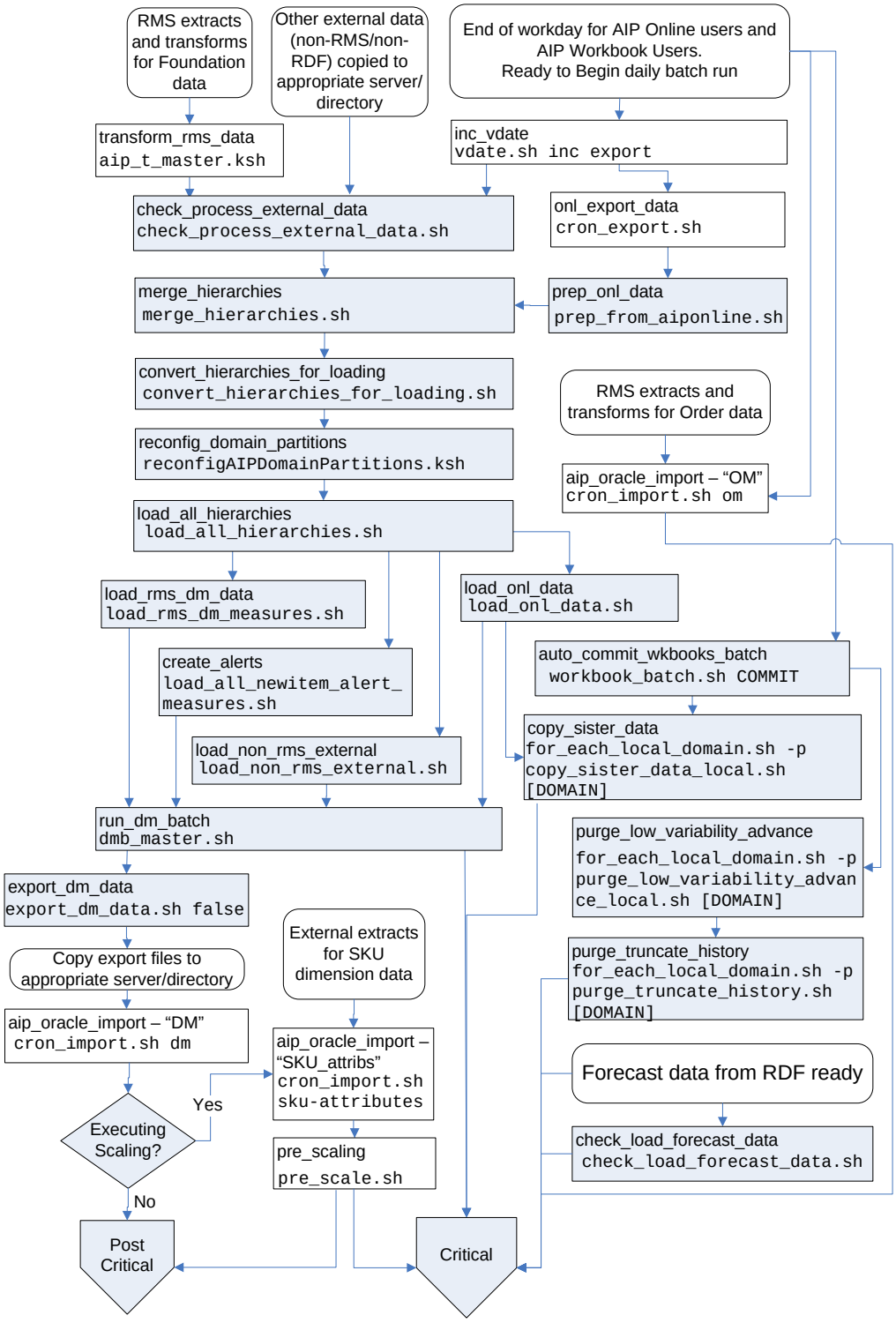
scheduled instead. However the scheduled tasks must carefully consider all tasks executed by the control script, including common environment control.

The following diagram 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 which were generated external to AIP. All data that is input to AIP must be transferred via FTP or copied to the appropriate inbound directory on the AIP server.

Pre-Critical Path Tasks

The diagram and table below provide information about the pre-critical path steps that need to be performed.



Pre-Critical Tasks Process Flow Diagram

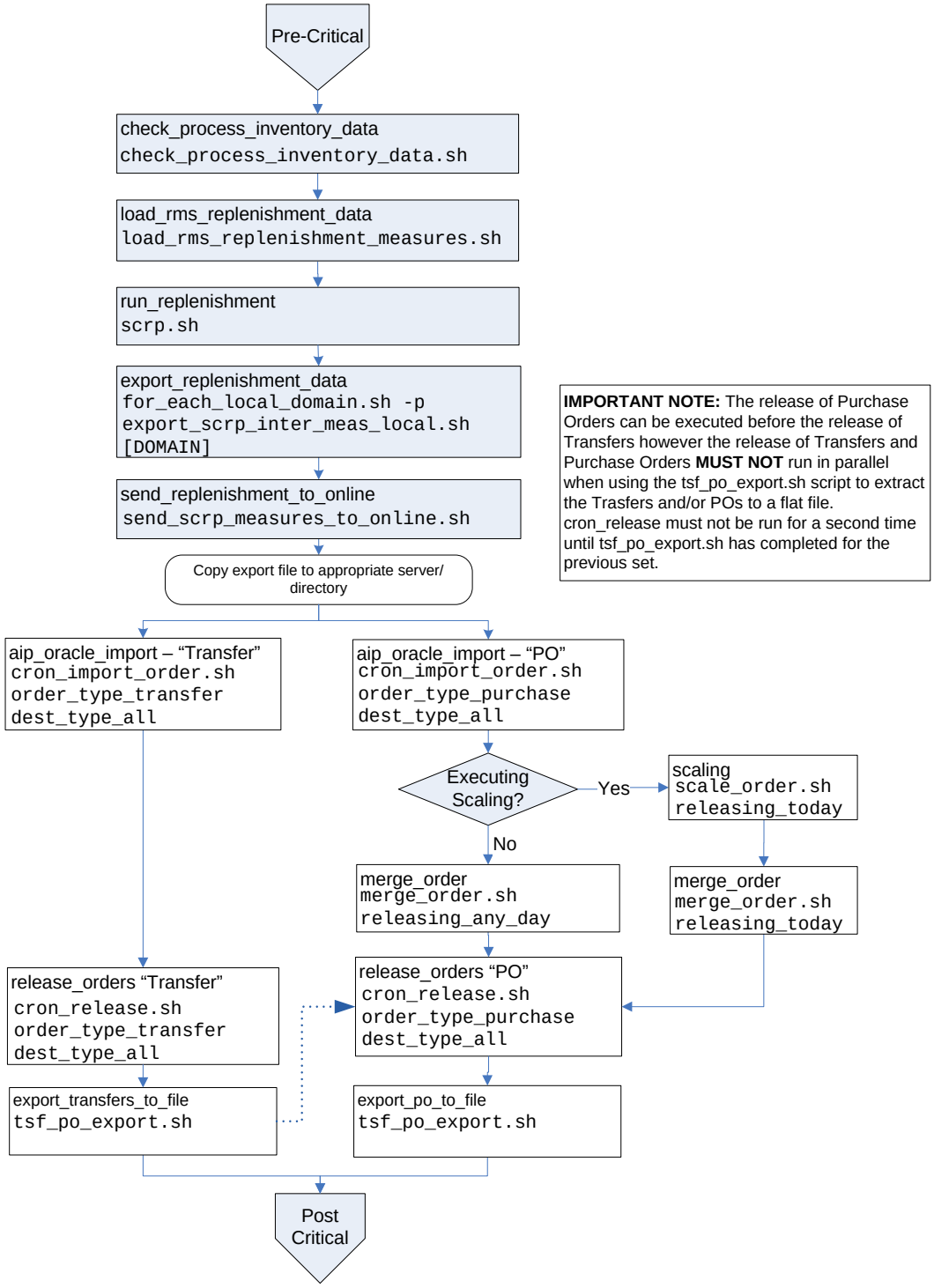
The table below provides information about the script or action performed in the Pre-Critical Tasks process flow diagram. These steps include the scaling module scripts which are only required by those Retailers who are supplier scaling and/or container scaling.

Script or Action	Parameter(s)	Platform Location
Bring down the online application server and domain daemon to lockout users		Oracle, RPAS
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

Script or Action	Parameter(s)	Platform Location
Copy/FTP SKU dimension export files to ${ONL_INBOUND_DIR}. Perform uncompress and un-tar operations.		Oracle
cron_import.sh	sku-attributes	Oracle
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

The diagram below displays the Critical Path Tasks process flow diagram.



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.

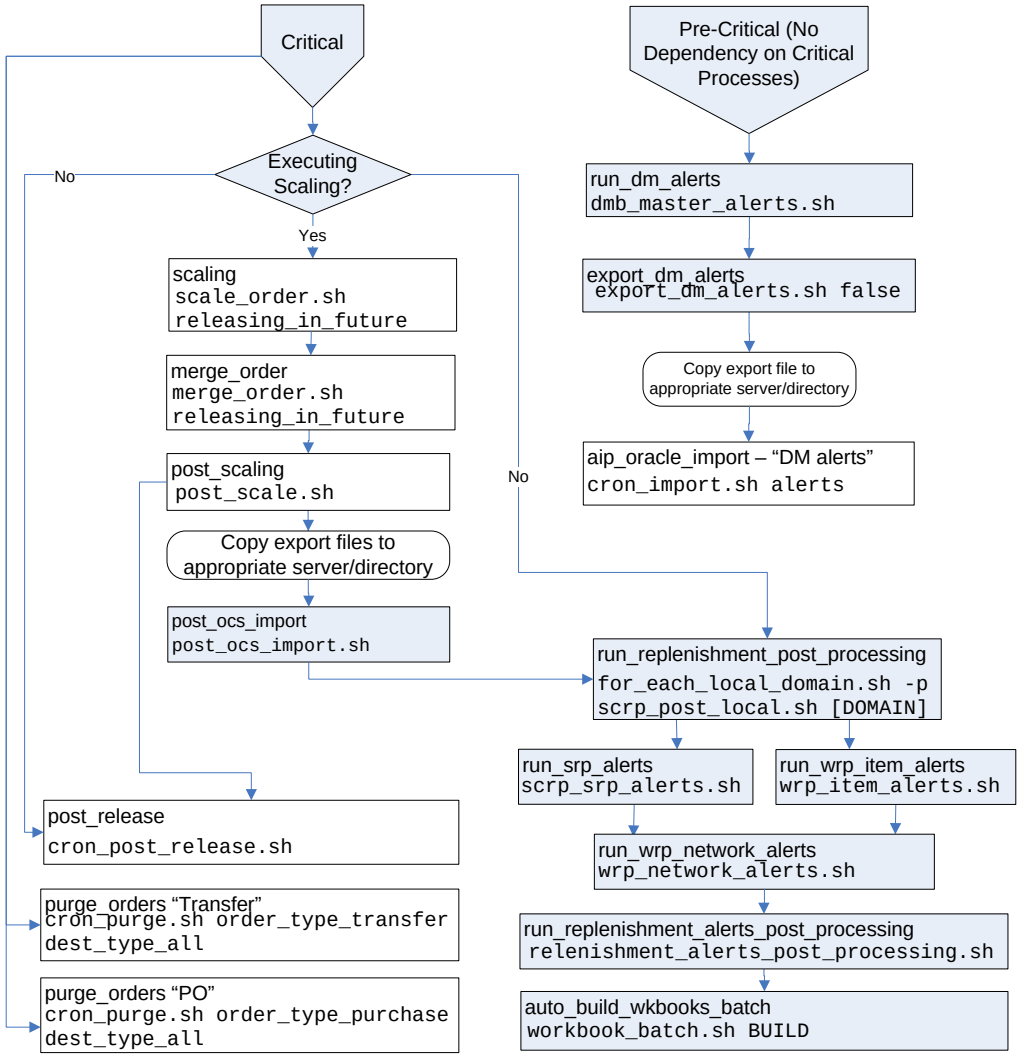
Note: cron_release must not be run for a second time until tsf_po_export.sh has completed for the previous set.

The table below provides information about the critical path steps that need to be performed.

Script or Action	Parameter(s)	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_rms_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	order_type_transfer dest_type_all	Oracle
cron_release.sh	order_type_transfer dest_type_all	Oracle
tsf_po_export.sh (for RIB bypass)		Oracle
cron_import_order.sh	order_type_purchase dest_type_all	Oracle
scale_order.sh	releasing_today	Oracle
merge_order.sh	releasing_today	Oracle
cron_release.sh	order_type_purchase dest_type_all	Oracle
tsf_po_export.sh (for RIB bypass)		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

The diagram below displays the Post Critical Path Tasks process flow diagram.



Post Critical Path Tasks Process Flow Diagram

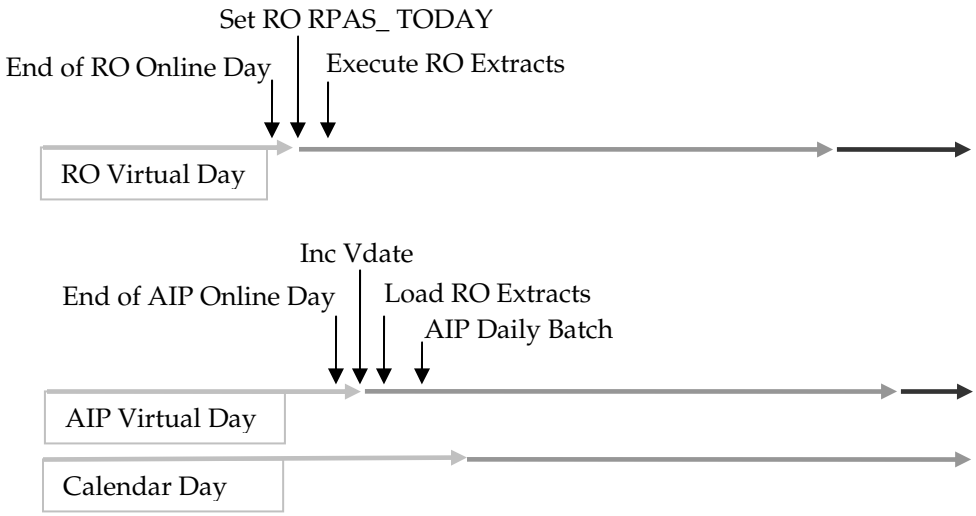
The table below provides information about the post-critical path steps that need to be performed. . These steps include the scaling module scripts which are only required by those Retailers who are supplier scaling and/or container scaling.

Script or Action	Parameter(s)	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

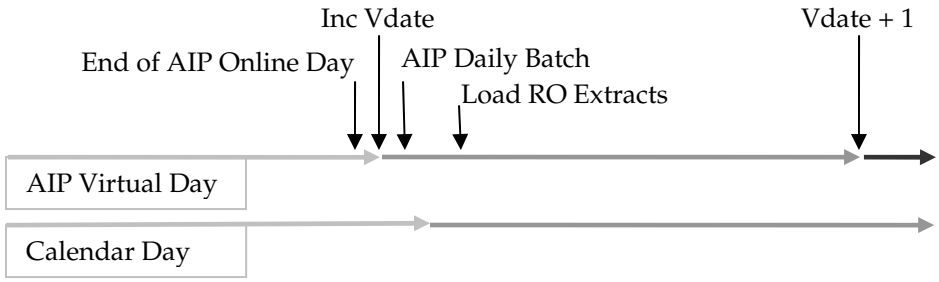
Script or Action	Parameter(s)	Platform Location
aip_batch.sh	export_dm_alerts	RPAS
cron_import.sh	alerts	Oracle
Restart the AIP Online application server.		Oracle
aip_batch.sh	run_srp_alerts	RPAS
aip_batch.sh	run_wrp_item_alerts	RPAS
aip_batch.sh	run_wrp_network_alerts	RPAS
aip_batch.sh	run_replenishment_alerts_post_processing	RPAS
aip_batch.sh	auto_build_wkbooks_batch	RPAS
Start the AIP RPAS domain daemon.		RPAS
cron_post_release.sh		Oracle
cron_purge.sh	1. order_type 2. dest_type See the details of this script in the *AIP Operations Guide* for the possible valid values of these 2 parameters.	Oracle

Interval Batch Tasks

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



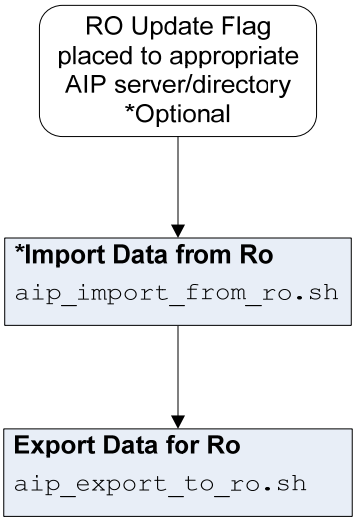
Example 1: For a particular virtual date the replenishment batch run occurs after the load of RO data into AIP. The loaded replenishment methods and thresholds will be used in the upcoming replenishment batch run.



Example 2: This order of execution is only valid if RO RPAS_TODAY is set to Vdate + 1 before extracting the data because the data loaded from RO will not be used in replenishment planning until the next replenishment batch run that occurs on vdate + 1. The user must see the loaded data effective tomorrow, instead of today.

Export to RO

The diagram below displays the export of data from AIP to RO.

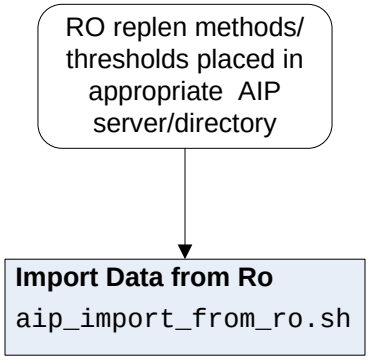


The table below provides information about the export steps that need to be performed. These steps assume the data exported from AIP will be limited by the RO Update Flag, and that this information is specified by the RO User. It also assumes that the next set of sku/locations to be exported/optimized is not known until a time after the last import of replenishment data (therefore the file is not imported with the last set of optimized replenishment data files),

Script or Action	Parameter(s)	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

The diagram below displays the import of replenishment optimization data from RO.



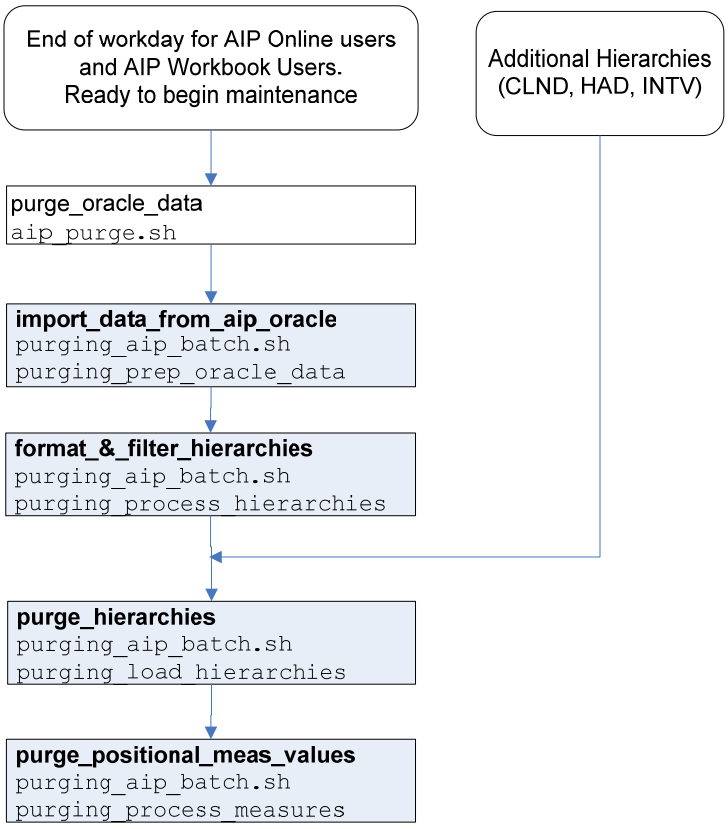
The table below provides information about the export steps that need to be performed.

Script or Action	Parameter(s)	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 to maintaining database sizing as well as improving user experience. Purging data will decrease 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 of weekly or monthly



Script or Action	Parameter(s)	Platform Location
aip_purge.sh		Oracle
Copy/FTP AIP Online purge_hierarchy.tar.Z file from ${ONL_EXPORT_DIR} to ${AIPDOMAIN}/interface/purge/import		RPAS

Script or Action	Parameter(s)	Platform Location
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 which 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 setup 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 need to 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's 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 via a properly defined tnsnames file and reachable by SQLPlus.

Example config.xml file:

```
<CONFIG>
  <DEFAULTS operator="oraread">
    <PROPERTY name="arraysize"     value="5000" />
    <PROPERTY name="dbname"        value="DEV029i"/>
    <PROPERTY name="connectstring" value="aiprmsint130user/retek"/>
    <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="dbuserid"      value="aiprmsint130user/retek"/>
    <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.

The following table 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.

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_cred.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 execution of load scripts for files which will never be present (e.g. they are optional files for functionality that will not be used by the business). For example, "Sister Stores" may not be available in the merchandising system to provide to AIP, or purged order numbers may not 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. 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.
- The parent script will execute all load files listed in the configuration file 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 the following table along with any potentially optional load scripts. Optional load scripts are those which are not critical to replenishment processing. They are 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.

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 execution of export scripts for files which will never be present (e.g. 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 may not be optional for export. Some import files are optional because the data *can* be loaded. Alternatively the data can be entered in the DM online application. Regardless of how the data gets into the Oracle database, this data is required by AIP RPAS to run 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.

The export configuration files are listed below.

- export_hierarchy.config
- export_dm.config
- export_tsf_po.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

The following table 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 need to be set according to your individual business needs.

Configuration Parameter	Default Value	Description
AIP_VERSION	13.1	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 is 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 is 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.
CONTAINER_SCALING_GLOBAL_FLAG	Y	Indicates whether or not Container Scaling is enabled at a global level. Valid values are Y and N.

Configuration Parameter	Default Value	Description
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), 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 which checks if there is a delivery group and/or order group assigned for the given demand group, destination, and effective date should execute.

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.
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.
LOG_DEBUG	N	Indicates whether debug messages will be written to DBMS_OUTPUT.
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.
ONL_SCHEMA_OWNER	USER	The username of the AIP Online schema owner.
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.

Configuration Parameter	Default Value	Description
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.
PO_INTERFACE_METHOD	M	Determines whether purchase orders are interfaced to external systems via 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 is 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.
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.
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.

Configuration Parameter	Default Value	Description
TSF_INTERFACE_METHOD	M	Determines whether transfers are interfaced to external systems via 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 % 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.
WIP_IND	N	Indicates if the WIP subsystem is being used. WIP-related extracts will only be performed if this value is Y.

In addition to the parameters listed above there a number of parameters that might 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.

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-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 day 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 (i.e. order line time level). When an order number is generated, it is generated at 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 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 below 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.

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 AIP 13.0 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.

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

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	15	15
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 would require 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 screen 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 it 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

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

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 would require 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 screen 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 the table need to be set according to individual business needs.

Name	Value	Description
AUDIT_PURGE_FREQUENCY	W	The frequency at which audit tables will be 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 will remain in the system before being purged, beginning from when the chamber was set to a closed status.
CLOSED_ALERT_PURGE_AGE	14	The number of days a closed alert will remain in the system before being purged, beginning from when the alert was closed.
COMMODITY_PACK_SIZE_PURGE_AGE	30	The number of days a SKU-pack size will remain in the system before being purged, beginning from 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 will remain in the system before being purged, beginning from 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 will remain 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 will be purged.
NON_ORDER_NON_RELEASE_PURGE_AGE	180	The number of days a non-order or non-release date record will remain in the system after it has passed before being purged.

Name	Value	Description
ON_SUPPLY_OFF_SUPPLY_PURGE_AGE	45	The number of days an on supply/off supply record will remain in the system before being purged, beginning from the off sale date.
ORDER_GROUP_PURGE_AGE	60	The number of days an order group will remain 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 will remain in the system before being purged, beginning from when the planning group is not assigned to at least one network group.
PROFILE_PURGE_AGE	60	The number of days a profile will remain in the system before being purged, beginning from 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 will remain in the system before being purged, beginning from 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 will remain in the system before being purged, beginning from when the order cycle is not assigned to at least one profile.
STORE_PURGE_AGE	90	The number of days a store will remain in the system before being purged, beginning from 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 will remain in the system before being purged, beginning from 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 will remain in the system before being purged, beginning from 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 will remain in the system before being purged, beginning from when the order cycle is not assigned to at least one order group.
WAREHOUSE_PURGE_AGE	90	The number of days a warehouse will remain in the system before being purged, beginning from 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 will define 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 will need to be modified if additional warehouse types are added to the system via 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 the warehouse that 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 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 the user as search criteria. You may modify the text of the SHORT_DESC, however, the screen 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 the user depends on the structure of the LONG_DESC text.

The LONG_DESC and SHORT_DESC can be translated for another LANG and COUNTRY if desired.

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 the user in the DM online screen. The user 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 screen 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.
- It must be added to every set of LANG/COUNTRY combinations. Therefore, the same set of ALERT_STATUS_CODE values must exist for every LANG and COUNRTY on the table.

AIP Application Server

The following properties files are used to configure the application during implementation. All files are located in <aip app server install location>/config. Review the values in the files for completeness and accuracy. There are additional properties outlined below which must be manipulated when using the RIB with AIP.

db.properties

File Location: <aip app server install location>/config

This file contains configuration values that are related to the system's database. This file tells the DM Online and OM Online application how to connect to the database. After installation, this file should contain the correct information because it is set in the initial run of the AIP Online application. However, it is a good idea to review the values in the files for completeness and accuracy. The following table provides a description of the values contained in the db.properties file.

Configuration Value	Description
common.prop.db	This value defines the database that the system is utilizing. This value is set to Oracle.
common.prop.oracle.sid	This value is an Oracle parameter that defines the database name that the system is utilizing. SID stands for system identifier.
common.prop.oracle.host	This value is an Oracle parameter that refers to the database listener. This value defines the "host:port" that the database listener is using. If Oracle database is configured as clustered database, then this property should be left blank.
common.prop.oracle.schema	This value is an Oracle parameter that defines the schema owner's username. If the username/password defined in common.prop.user is not the schema owner, then this field must also be added and defined in order for the AIP Online Administration screens to function properly.
common.prop.user	This value is an Oracle parameter that defines the username/password of the database. This can be a schema owner or a standard user.
common.prop.poolsize.	This property represents the connection pool size that AIP application uses. This does not include the connections that EJB might establish with the database. Default value of this property is set to 40. The user is allowed to increase this value but not to decrease it.
common.prop.oracle.dburl	A required property to connect to clustered database. When using this common.prop.oracle.host should be left blank.

main.properties

File Location: <aip app server install location>/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 online, OM, and RIB publication via 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.
securemode	This is set to "1" to force connections to switch from http (non-secure) to https (secure) upon logon. This value can also be set to "0" to prevent the connection from being switched from non-secure to secure mode.
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) via the Oracle Retail Integration Bus (RIB). Perform the following procedure to enable RIB publication.

1. Uncomment the following parameters and change the OFF status of keys to ON status where applicable in the main.properties file to activate the `OrderSenderBean`, which 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.message.bundle.size=10
#aip.prop.order.max.publishing.count=20
```

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: <aip app server install location>/config

The following table provides a description of the publication properties referenced in the previous topic.

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 which 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 in 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.
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 which `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'.

Property	Description
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 which `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.message.bundle.size	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.publishing.count	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: <aip app server install location>/config

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

The color properties can be set to any 6 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:

<OAS Home>/j2ee/<AIP Instance>/applications/<AIP Application>/AIPOnlineWAR

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:

```
<OAS Home>/j2ee/<AIP Instance>/applications/<AIP
Application>/AIPOnlineWAR/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, no 'about' windows are 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.
applet.codebase	Applet default codebase. The default value is appclasses. This is not expected to ever change.
apppage_top.page	Contains the code content for the upper fragment of the page including the top and left banners. The default value is /fragments/apppage_top.jsp
apptop.page	Defines the standard top banner (normal and compact versions). The default value is /fragments/apptop.jsp.
apptop_about.page	Defines the content of the 'about' page. 'About' pages typically contain version numbers and company information. 'About' pages are not supported by Oracle AIP. The default value is /fragments/apptop_about.jsp.
head.page	Contains the code content getting the configurations and saving them in variables used throughout the page. The default value is /fragments/head.jsp.
appbot.page	Defines the standard bottom banner. The default value is /fragments/appbot.jsp.
apppage_bot.page	Contains the code content for the lower page fragment. The default value is /fragments/apppage_bot.jsp.
securemode.allow	Used to enable securemode. Set to "*" to enable securemode on all clients, or set to "*, !Mac" to enable securemode on all clients except those that are using a Macintosh.

Property	Description
webmeter.allow	Used to display webmeter. Set to "*" to display WebMeter for all clients, or "*, !Mac" to display WebMeter for all clients except those that are using a Macintosh.
webmeter.page	Defines the file containing code for the WebMeter page. The default is /fragments/webmeter.jsp.

security.properties

File Location: <aip app server install location>/config

This file defines security administration settings for the application.

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

Property	Description
trackeradmin.prop.adminhosts	This is a comma delimited list of "host/mask" values that are allowed to access phantasm (the primary administration page).

strings_en.properties

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

The file is located in the following server path:

<OAS Home>/j2ee/<AIP Instance>/applications/<AIP Application>/AIPOnlineWAR/appclasses/res/com/retek/applet/strings_en.properties

Config.properties

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

This file is located in <OAS Home>/j2ee/<AIP Instance>/applications/<AIP Application>/AIPOnlineWAR/appclasses/res/com/retek/applet.Data Management Online Settings

The following table provides a description of properties found in the Config.properties file that are used to define Data Management online (DMo) 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 screen 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) radio button that is initially selected when displaying DM Online screens 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 DM online 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.
export.launch	When the user exports the Alerts from the DM online application to a savable file, this setting will determine whether the file is opened immediately or not. If set to launch immediately, the user 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, the user may receive an error and the file will not be opened. If an error occurs, the user must manually open the file in the appropriate program. The valid values for this property are 0 for don't launch, and 1 for launch immediately.

Property	Description
export.type.default	When exporting the Alerts from the DM online application to a savable file, the user has the option of saving the data in spreadsheet or comma delimited file format. This property setting is applied to the initial radio button selection that defines the format. This property defines the value selected by default. The user has the option of choosing the other format by selecting the other radio button option. The valid values for this property are 0 for comma-separated file (CSV) or 1 for spreadsheet (XLS).
paginggrid.page.size	This is the default "pagesize" setting applied to all screens 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 user specific. The resolution of each user's screen will affect how many rows are visible without scrolling. Assign a large number to this property may 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, which is used to improve screen 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.
paginggrid.<screen name>.page.size	Each screen 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 screen 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.
scalinggroups.container.assignments.default	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 radio button is selected by default. The available options are All, Transfers, or Purchase Orders. This setting applies to all Order Management screens which allow the user 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.
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 screens. The valid values for this property are as follows: ▪ 0 for All ▪ 1 for Purchase Orders ▪ 2 for Transfers **Note:** Users may have privileges to the Order Create screen 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) radio button that is initially selected when displaying OM Online screens 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 screen 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.

Property	Description
ordermaintenance.update.quantity.default	In the Order Maintenance screen, the user has the option of viewing the quantity on the order as the total ordered quantity or as the outstanding, un-received order quantity. This setting is used to determine which radio button option will be initially selected on the screen. The valid values for this property are 0 to view the total order quantity, or 1 to view the unreceived order quantity.
ordermaintenance.supplier.tracking.default	When moving the un-received purchase order quantity to a new delivery date and/or destination, the user 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 tacking information. This option forces the user 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 the user from having to randomly pick one of the two options, as well as prevents the unnecessary popup which 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 Screen—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 results 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.unreceived	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.

Property	Description
ordermaintenance.move.unreceived.criteria	This setting allows the business to define when it is acceptable to move un-received order quantities to a new delivery date and/or destination. The first option is anytime the order quantity is less than the received quantity. This means that the user can change the order delivery date and/or destination any time the order is released and not fully received. The second option is anytime the order is totally un-received. This means that the user can change the order delivery date and/or destination anytime the order has been released but not yet received against. The valid values for this property are 0 for not fully received or 1 for 0 received quantity.
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 Unreceived 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 un-received 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.unreceived	This setting allows the business to restrict users from fully canceling a Purchase Order. The user can still modify the Purchase Order quantity but they cannot fully cancel the un-received quantity. The valid values for this property are 0 to allow the un-received order quantity to be canceled or 1 to prohibit the cancelling of all un-received order quantity.
ordermaintenance.allow.release.orders	This setting allows the business to prevent users from manually releasing purchase orders in the Order Maintenance screen. 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	The setting allows the business to prevent users from modifying purchase order quantities. The user will still have the ability to cancel the outstanding unreceived order quantity unless the ordermaintenance.allow.cancel.unreceived property is also set to disallow cancelling unreceived order quantities. Valid values for this property are 0 to allow modification of order quantities, or 1 to prevent modification of order quantities.

Property	Description
ordermaintenance.release.status.default	This setting determines which Release Status radio 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.
orderreview.display.quantity.default	This 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 unreceived quantity. This will display the total order quantity that is still outstanding or yet to be received. This quantity is calculated as the total order quantity minus the total received quantity. The third option is received quantity. This will display the summed received quantity in the search results. The valid values for this property are 0 for total quantity, 1 for unreceived quantity, and 2 for received quantity.
orderreview.display.zero.values.default	This determines whether the Display Zero Values checkbox 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, however 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 unreceived 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 yet to be received. The valid values for this property are 0 to not initially select the checkbox (do not display zeros) or 1 to initially select the checkbox (display zeros).

6

AIP RPAS Configurations

The AIP RPAS configurations listed in this section allow the business to manipulate AIP to meet their business needs. The XML files, configuration files, measures, etc. 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

	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 that 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, which is formatted as shown below.

```
<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, "3" for Normal Priority Stores. The "componentName" is the name of a numeric DataContainer which 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 may 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.

surplusPriorityMatrix.xml

The Surplus Priority Matrix describes the order in which available inventory is allocated when an inventory surplus occurs. 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

Default Surplus Priority Matrix

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

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 may not 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, surplusPriorityMatrix.xml, which is formatted as shown below.

```
<reconcilication-priority-matrix>
  <boundary componentName="Above Upper Boundary">
    <group id="0" priority="7" method="fair-share"/>
    <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 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, "3" for Normal Priority Stores. The "`componentName`" is the name of a numeric DataContainer which 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 may 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

aip_env_rpas.sh

In addition to the infrastructure-type environment variables listed in Chapter 4, "System Configuration," of this *Oracle Retail AIP Implementation Guide*, the aip_env_rpas.sh script contains implementation parameters which the business must customize. The values assigned to the variables in the "Implementation Parameters" section of aip_env_rpas.sh will be 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 13, "First Day of AIP," for details on running AIP batch with 'first time' parameter set to True.

The following table contains a description of the variables in aip_env_rpas.sh which correspond to the Implementation Parameters for AIP RPAS.

Implementation Parameter(s)	Default Value(s)	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 the user 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.

Implementation Parameter(s)	Default Value(s)	Description
SPECIAL_ORDER_CYCLE_ZERO SPECIAL_ORDER_CYCLE_ONE SPECIAL_ORDER_CYCLE_TWO SPECIAL_ORDER_CYCLE_THREE SPECIAL_ORDER_CYCLE_FOUR	"PFOCPRFVS" "PFOCOGVW" "PFOCPRFWS" "PFOCFULLC" "PFOCOGWW"	The dmx_speocy measure contains 5 values unique Order Cycle identifiers. These order cycles are used by default when automatically generating profiles and order groups. These should not be changed unless the AIP Oracle PL/SQL is customized to use the new Order Cycle codes 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. ▪ PFOCPRFVS - Used when automatically creating a new Supplier Profiles. ▪ PFOCPRFWS - Used when automatically creating new Warehouse Profiles. ▪ PFOCOGVW - Used when the system creates Automated Supplier sourced Order Groups. ▪ PFOCOGWW - Used when the system creates Automated Warehouse sourced Order Groups. ▪ PFOCFULLC - This is an empty order cycle which is used to wipe out all receipt points and lead times. It is used for new Stores which will have a walking lead time calculated prior to the store opening. It can also be assigned as a profile order cycle. These parameters will be used to initialize the RPAS measure: dmx_speocy.
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.

Implementation Parameter(s)	Default Value(s)	Description
CSC_STORE_FORMAT_STRING	SFMT1002	This string contains the store format of the stores which 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. The selected store format to be saved in this measure must have the prefix 'SFMT' added to it. 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 which 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 which 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 which are Cross docks. This parameter will be used to initialize the RPAS measure: IpWhTypXDKI.

Implementation Parameter(s)	Default Value(s)	Description
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. The user is 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, false. Valid values are TRUE and FALSE
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 the user is 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.

lpRoLocTypeI - Replenishment Optimization Location Types

This measure specifies which location types are considered when extracting data for RO. By default this measure is set to “Stores”. The valid values for this measure are 0, 1, or 2: 0 - Stores, 1 - Warehouses or 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.

lpFirstBusDayI - 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.

lpRoRtDaysStrI - 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.

lpRoRtDaysWhl - 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 which 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, they may 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, which 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 may also be considered optional.
  - Optional files do not have to be loaded, or they may be loaded weekly or less frequently depending on the file/purpose.

The configuration files for validation are listed below:

- 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 *AIP Operations Guide* and "RMS Integration and Mapping" information provided within this document should be carefully reviewed for file format and file output from interutil before modifying the contents of the configuration files.

The interutil configuration files are listed below:

- dm_rms_measures.config
- srp_rms_measures.config
- wrp_rms_measures.config

The table below provides information about each of the loadable configuration 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 (i.e. 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_*.txt	The daily forecast is optional for 3 reasons. 1. Both a daily and weekly forecast are not required. One can be provided and not the other (depending on system configuration). 2. An updated forecast is typically not reproduced daily, and therefore is not required daily. 3. A forecast is not required if using replenishment methods which use historical sales.	Late-precritical
Daily Forecast Standard Deviation	sr0_fcterrlvl1.txt	Standard Deviation of the daily forecast.	Late-precritical

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.	Late-precritical
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, etc.) on a given day. Expected Write-offs override calculated expected spoilage.	Early
Historical Lost Sales	sr0_hstls_.txt	Used in Alert Calculations.	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 may be used for resolving alerts. This value can be positive or negative since it represents net adjustments, some of which can be negative (inventory decreases).	Late
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 which 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 which determines when AIP will begin to replenish the SKU at the store.	Early

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
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 app.	Late-precritical
RDF Detail Alert Count	sr0_rdfdtdcnt.txt	Count of all RDF Detail alerts generated for a SKU/store.	Late-precritical
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 via an external system or custom RMS.	Early
SPQ Commitment Type Exception	ipcmtmtde.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

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
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	May 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
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 which 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 which 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

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
Store RALT Default	ipstrraltd.txt	Contains the Default level intersection of Store RATL. See Store RALT Global Default for full explanation. The Default is not required. Default values are needed if the Global Default is not the desired value for a particular combination of product and store.	Early
Store RALT Exception	ipstrralte.txt	Contains the Exception level intersection of Store RATL. See Store RALT Global Default for full explanation. The Exception is not required. Exception values are needed if the Global Default or Default is not the desired value for a particular combination of product and store.	Early
Store RALT Global Default	ipstrraltg.txt	Contains the Receipt-to-Availability Lead Time (RALT) to be applied when replenishing the store(s). RALT is an integer representing the number of days after receipt that an order is available to start meeting demand. RALT should currently be limited to a value of 0 or 1. The global default is a higher level intersection than the default and exception.	Early
Store Replenishment Subtype Code	sr0_rplsubcde.txt	This is for informational purposes only. It provides the planner 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 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 (e.g. 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
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 setup the supply-chain. If missing, Automation will be unable to automatically setup 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

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
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 may 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 which 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 may 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
Warehouse On Order Qty	wr1_oo_.txt	On Order Quantity represents those orders which 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 may be provided in place of actual values if running Store-only replenishment without reconciliation.	Late
Warehouse Orders in the Well	wr1_ow_.txt	The quantity of previously executed orders in the warehouse which have not yet been satisfied. This quantity is deducted from the current inventory position. If no order-in-the-well quantity exists it is assumed to be 0. This file is required. A 0-byte file may 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

Value Name	File Name	Description of Value and Purpose for Loading	Early, Late-precritical, or Late (critical)
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 may 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
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_*.txt	The weekly forecast is optional for 3 reasons. 1. Both a daily and weekly forecast are not required. One can be provided and not the other (depending on system configuration). 2. An updated forecast is typically not reproduced daily, and is therefore not required daily. 3. A forecast is not required if using replenishment methods which 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 are the procedure for adjusting the configuration files to support this change of source.

Pre-requisites 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" in Chapter 8 of this Implementation Guide.

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 of the setup above.

   Finally, load_rms_replenishment_measures.sh *will not* load the moved feed, for the same reason.

   Note: All non-RMS external late files will be moved and loaded without manual client intervention by way of logic added to process_inventory_data.sh and load_non_rms_files.sh as called by load_rms_replenishment_measures.sh. process_inventory_data.sh will move the files to the correct spot for external processing, and load_non_rms_files.sh will load the files.

7

AIP Calendar Hierarchy

AIP Calendar Data – clnd.dat

The table below provides information about the AIP clnd.dat file format, which contains AIP calendar hierarchy data.

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

#	Data Entry	Description	Start	Width	Format	Example
1	DAY	Day	1	9	**D**yyyymmdd	**D**20040104
2	DAY Label		10	20	mm/dd/yy	01/04/04
3	DOFP	Day of 4 Week Period	30	8	nn	01
4	DOFP Label		38	20	nn	01
5	DOFN	Day of Fortnight	58	8	nn	01
6	DOFN Label		66	20	nn	01
7	DOW	Day of Week	86	8	Day of Week (short)[1]	SUN
8	DOW Label		94	20	Day of Week (long)[2]	Sunday
9	DOS	Day of Season	114	8	**DOS**nn	**DOS**08
10	DOS Label		122	20	**DOS** nn	**DOS** 08
11	WEEK	Week	142	8	**W**nn_yyyy	**W**02_2004
12	WEEK Label		150	20	mm/dd/yy	01/10/04
13	WOS	Week of Season	170	8	**WOS**nn	**WOS**02
14	WOS Label		178	20	**WOS** nn	**WOS** 02
15	WOY	Week of Year	198	8	**WY**nn	**WY**02
16	WOY Label		206	20	**Week** nn	**Week** 02
17	UMC1	Week Grouping - 1	226	8	**UMC1UNASSIGNED**	UMC1UNAS
18	UMC1 Label		234	20	**Unassigned**	Unassigned
19	MNTH	Month	254	8	Month (short)[3]_yyyy	JAN_2004
20	MNTH Label		262	20	Month (long)[4], **FY** yyyy	January, **FY** 2004
21	MOY	Month of Year	282	8	Month (short)[3]	JAN
22	MOY Label		290	20	Month (long)[4]	January
23	QRTR	Quarter	310	8	**Q**n_yyyy	**Q**1_2004
24	QRTR Label		318	20	**Quarter** n, **FY** yyyy	**Quarter** 1, **FY** 2004

#	Data Entry	Description	Start	Width	Format	Example
25	YEAR	Year	338	8	**A**yyyy	**A**2004
26	YEAR Label		346	20	**FY**yyyy	**FY**2004

[1] Day of Week (short): Short form of day-of-week names (“SUN”, “MON”, “TUE”, “WED”, “THR”, “FRI”, “SAT”)

[2] Day of Week (long): Long form of day-of-week names (“Sunday”, “Monday”, “Tuesday”, “Wednesday”, “Thursday”, “Friday”, “Saturday”)

[3] Month (short): Short form of month names (“JAN”, “FEB”, “MAR”, “APR”, “MAY”, “JUN”, “JUL”, “AUG”, “SEP”, “OCT”, “NOV”, “DEC”)

[4] Month (long): Long form of month names (“January”, “February”, “March”, “April”, “May”, “June”, “July”, “August”, “September”, “October”, “November”, “December”)

Note: The above formats are based on the sample hierarchy data file clnd.dat provided with the AIP package. For the “Label” data entry fields, the suggested formats are customizable.

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 DM Online application. When the user sets 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 the user in DM Online will not match the executed plan and plan days viewed in the Workbooks. To ensure the AIP RPAS DOFN and DOFP match the DM Online 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.

8

Integration

Overview of the Integrated Inventory Management Suite

The Integrated Inventory Management 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.

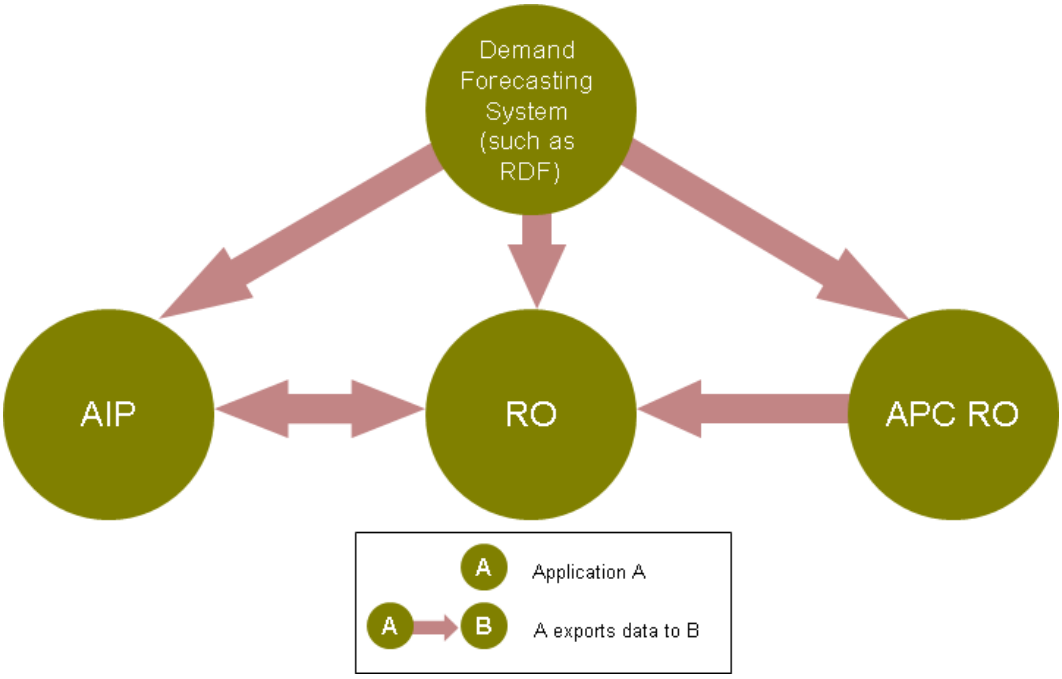


Figure 1: Conceptual Overview

> **Note:** The integration interface between RDF and AIP is not fully certified.

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 Management Suite Data Flow

Figure 2 shows the integration of the Integrated Inventory Management Suite applications and the flow of data among those applications. Note that the figure below 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.

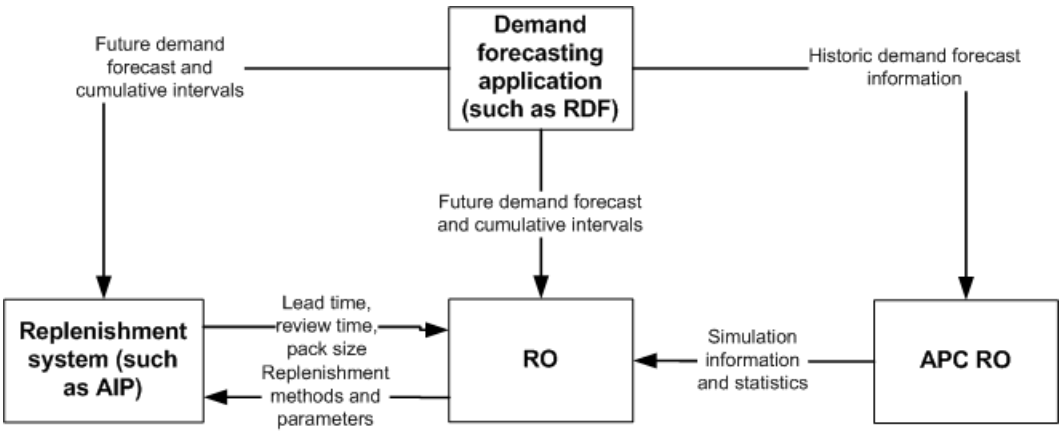


Figure 2: Integrated Inventory Management Suite Data Flow

Note: The integration interface between RDF and AIP is not fully certified.

Data Flow Description

These descriptions explain each of the data flows in Figure 2.

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 (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

- 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 (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 may 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 (such as RDF) to RO

- Sends time-phased demand forecasts (starting today and looking forward) at the item/store level. This allows the user 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 (such as AIP)

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

RMS to AIP Data

There are two types of data which RMS is required to provide to AIP:

- Hierarchy data
- Measure data

Hierarchy Data

Overview

The table below displays the hierarchy files that AIP receives from RMS.

	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 (*)

(†) RMS delivers only some fields in the location hierarchy. See below for details.

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

File Format

The Retail Extraction, Transformation, and Loading (RETL) tool provides AIP with the file format displayed in the following table.

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

Location Hierarchy File Name: loc.txt

Data Entry	Start	Width	Source
Store	1	20	RMS
Store Description	21	60	RMS
Site	81	20	RMS
Site Description	101	40	RMS
Region	141	20	RMS
Region Description	161	40	RMS
Zone	201	20	RMS
Zone Description	221	40	RMS
Chain	261	20	RMS

Data Entry	Start	Width	Source
Chain Description	281	40	RMS
Company	321	20	RMS
Company Description	341	40	RMS
TV Region	381	4	External
TV Region Description	385	24	External
Weather Region	409	4	External
Weather Region Description	413	24	External
Market Region	437	4	External
Market Region Description	441	24	External
Store Format	465	20	RMS
Store Format Description	485	40	RMS

Note: In the location hierarchy file, if RMS does not provide a field value, the AIP transformation script creates a "0" for the field. 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.

Item Hierarchy (Product Hierarchy) * File Name: item.txt

Data Entry	Start	Width	Source/Comments
AIP SKU	1	20	RMS
Order Multiple	21	4	RMS
Pack Quantity	25	4	RMS
RMS SKU	29	20	RMS
RMS SKU Description	49	60	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	109	1	RMS/banded = 1 Not banded=0
Segment	110	20	RMS
Segment Description	130	60	RMS
Sub-Category	190	20	RMS
Sub-Category Description	210	60	RMS
Category	270	20	RMS
Category Description	290	60	RMS

Data Entry	Start	Width	Source/Comments
Super-Category	350	20	RMS
Super-Category Description	370	60	RMS
Business Unit	430	20	RMS
Business Unit Description	450	60	RMS
Company	510	20	RMS
Company Description	530	60	RMS
SKU Type	590	20	RMS
SKU Type Description	610	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.

The following logic is applied:

- If the Pack Quantity is Null, then the AIP SKU-pack size equals the AIP SKU Order Multiple.
- If the Pack Quantity is not null, then the AIP SKU pack size equals the AIP SKU Pack Quantity.
- If the item is banded, the RMS SKU equals the AIP SKU.

Mapping Table

The following table is used for mapping the RMS SKU to the AIP SKU pack size. This information is sent in the item.txt file. (See comments above):

Mapping table: (examples)

RMS SKU	Order Multiple	Pack Quantity	AIP SKU Pack Size
300	1	(null)	300_1
302	1	12	300_12
303	6	(null)	300_6

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

Banded items mapping table: (examples)

RMS SKU	Order Multiple	Pack Quantity	AIP SKU-Pack Size
300	1	(null)	300_1
302	1	12	302_12
303	6	(null)	303_6

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

Supplier hierarchy File name: splr.txt

Data Entry	Start	Width	Source
Supplier	1	20	RMS
Supplier Description	21	40	RMS

Warehouse hierarchy File name: whse.txt

Data Entry	Start	Width	Source
Warehouse Chamber	1	20	DM-Online
Warehouse Chamber Description	21	40	DM-Online
Warehouse	61	20	RMS
Warehouse Description	81	40	RMS

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

Measure Data

Overview

AIP receives the following measure files from RMS:

	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
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_ow_.txt	Warehouse Orders in the well	RMS

	File Name	Description	Source
16	wh_type.txt	Warehouse Type	RMS
17	received_qty.txt	RMS received quantity	RMS*
18	closed_order.txt	RMS closed orders	RMS*

Note: The last files, with *, 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 above follow in the tables below.

The first set of file format tables (described in the "File Format" topic below") describes the format the data have after the RMS-AIP Transformation scripts have completed. For more information about the RMS-AIP Transformation process, read the *Oracle Retail Advanced Inventory Planning Operations Guide*, Chapter 5, "AIP Interfaces and Transformation Scripts."

The second set of file format tables ("File Format Including Mapping to AIP RPAS Measure Format") 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 the user's responsibility to create the data files in the RPAS measure loadable format, as described in the second set of file format tables, below. The "AIP Field", "Start" and "Width" columns make up the RPAS measure loadable format.

File Format

The Retail Extraction, Transformation, and Loading (RETL) tool provides AIP with the file format displayed in the table below.

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

Store Promotional Substitution Start Date for Warehouse Data

File Name: dm0_pmsstasrc.txt

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

Store Promotional Substitution End Date for Warehouse Data

File Name: dm0_pmsendsrc.txt

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

Corporate Discontinuation Date Data

File Name: dmx_dscdt_.txt

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

Value Added Commodity Association

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

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

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

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

File Name: sr0_curinv_[*1..n*].txt

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

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

File Name: sr0_oo_.txt

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

Store Product Life Data

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

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

File Name: wr1_oo_.txt

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

In Transit Data

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	

Orders in the Well Data

File Name: wr1_ow_.txt

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

RMS received quantity Data

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

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

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

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

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

File Name: dmx_vadprdasc.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			

Commodity Supplier Links

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:

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

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

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	SKU	21	20
Store current inventory	41	8	Store Current Inventory	41	8

Store In Transit Data

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

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	
Order Multiple	50	4			
Store Orders	54	8	Store Orders	50	8

Store Product Life Data

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

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

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

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

Orders In the Well Data

File Name: wr1_ow_.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			
Orders in the Well	54	8	Orders in the Well	50	8

Overview

AIP requires the following text files that need to be processed from an external system.

The list of text files that needs to be processed by the merchandising system are:

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

In this guide we explain about how to extract the text files from RMS into AIP.

We use shell scripts, RETL scripts and merging and transformation of data from various tables in RMS to get the desired text files.

> **Note:** Implementers can use these below mentioned mapping information steps to extract data from any other Merchandizing system with minimal customization.

Technical Details of Load Process

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

RMS-AIP Closed Purchase Orders Mapping

Transformation Overview

No transformation is required for Closed Purchase Orders and Transfers feed. Extract program directly produces file closed_order.txt required by AIP.

Data Element Details

Data Type	Data Element Name	Data Description
N/A This data is not loaded into RPAS. It is loaded directly into an Oracle table.	Closed Purchase Orders	Contains Closed Purchase Orders and Transfers numbers.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_cl_po.ksh
Schema File	rmse_aip_cl_po.shcema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed length Text File
Source Table(s)/File(s)	ORDHEAD and TSFHEAD		Target Object Name	closed_order.txt
			Target Load Type	Full

Field Level Mapping – Source

#	Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
1	ORDHEAD TSFHEAD	SUPPLIER FROM_LOC	Supplier Warehouse	Number	(8,0)
2	N/A	N/A	N/A	N/A	N/A

Field Level Mapping – Target

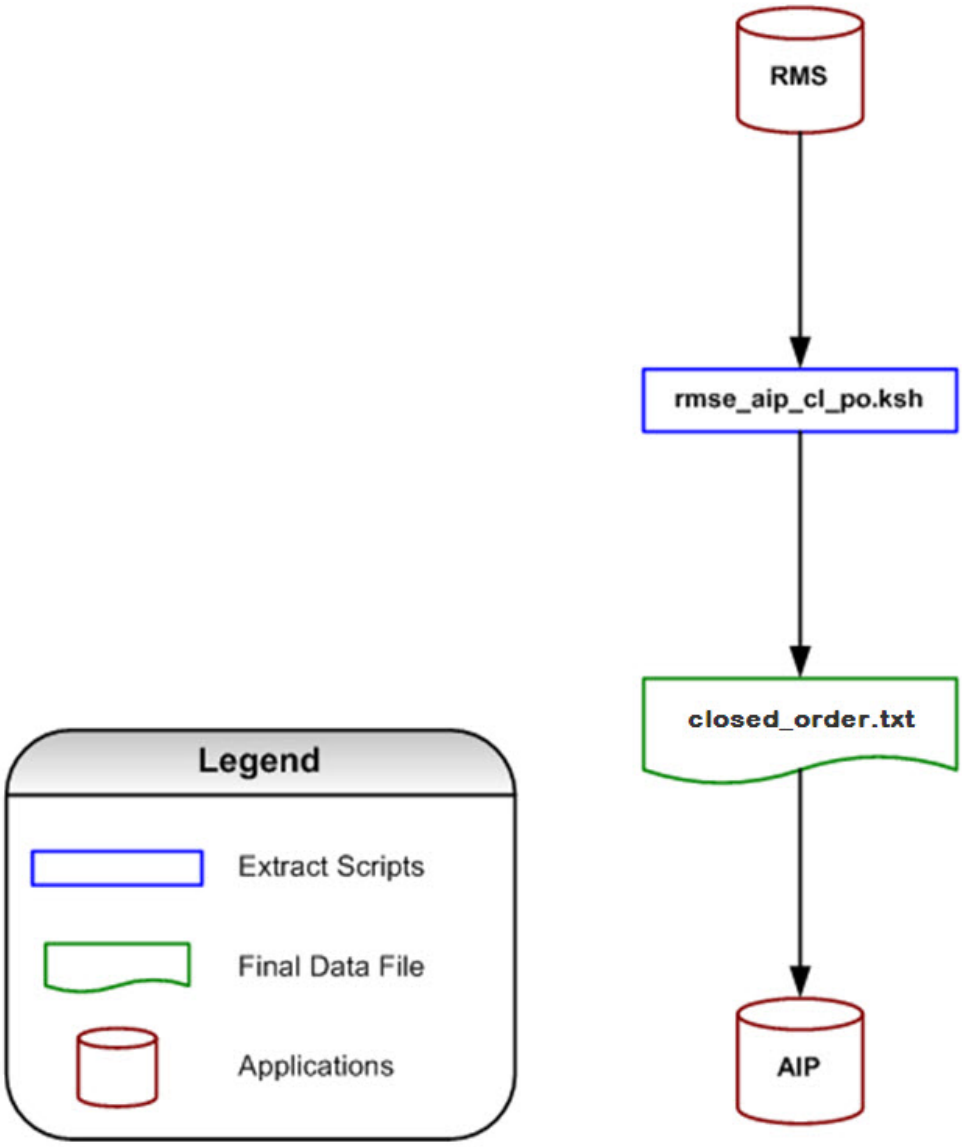
#	Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
1	ORDER_NUMBER	Order Number	int	10	N/A
2	ORDER_TYPE	Order Type	string	1	Hard coded as 'P' for the records from ORDHEAD for POs and 'T' for the records from TSFHEAD for Transfers.

Filtering Conditions

```
(oh.CLOSE_DATE IS NOT NULL) AND (oh.ORIG_IND='6') AND (oh.CLOSE_DATE >
to_date(${LAST_EXTR_CLOSED_POT_DATE},'yyyymmdd'))

(tsf.CLOSE_DATE IS NOT NULL) AND (tsf.TSF_TYPE = 'AIP') AND (tsf.CLOSE_DATE >
to_date(${LAST_EXTR_CLOSED_POT_DATE},'yyyymmdd'))
```

Closed Orders Data Flow



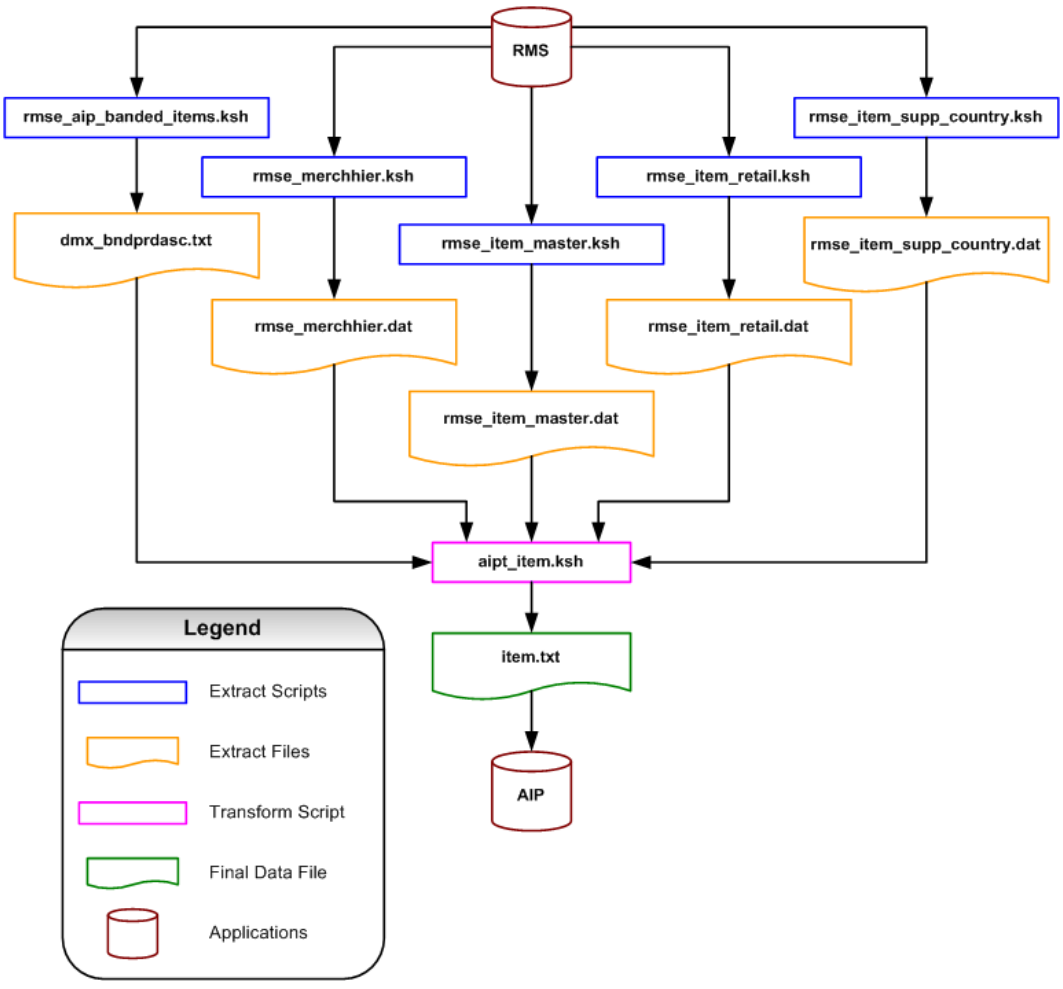
Closed Orders Data Flow Diagram

RMS-AIP Item Mapping

Transformation Overview

A new AIP transformation program, aipt_item.ksh, will first join the item master and item supplier country extracts, followed by merging the result with the item retail extracts, and then join the result to merchandise hierarchy extract and then join the result to banded item extract to produce final item file item.txt.

Item Data Flow



Item Data Flow Diagram

Banded Item Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	RMS banded item data	Contains banded items information like promotional items.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_banded_items.ksh
Schema File	rmse_aip_dmx_bndprdasc.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER V_PACKSKU_QTY ITEM_SUPP_COUNTRY		Target Object Name	dmx_bndprdasc.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
V_PACKSKU_QTY	PACK_NO	Item	Varchar2	25
ITEM_SUPP_COUNTRY	SUPP_PACK_SIZE	Supplier Pack Size	Number	(12,4)
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY	SUPP_PACK_SIZE	Supplier Pack Size	Number	(12,4)

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
PROMOTIONAL_SKU	Promotional Item	String	20	N/A
PROMOTIONAL_ORDER_MULTIPLE	Promotional Order Multiple	int	4	N/A
STANDARD_SKU	Standard SKU	String	20	N/A
STANDARD_ORDER_MULTIPLE	Standard SKU Order Multiple	int	4	N/A

Filtering Conditions

```
im1.BANDED_ITEM_IND = 'Y'AND im1.INVENTORY_IND ='Y'AND im1.ITEM = vpq.ITEM AND
im1.STATUS = 'A' AND im2.ITEM = vpq.PACK_NO AND im2.STATUS = 'A' AND
(im2.SIMPLE_PACK_IND = 'Y' AND im2.item IN (SELECT pm.pack_no FROM item_master
im1, packitem pm WHERE pm.item = im1.item AND im1.forecast_ind = 'Y')) AND
im1.ITEM = isc1.ITEM AND isc1.PRIMARY_COUNTRY_IND = 'Y'AND isc1.PRIMARY_SUPP_IND =
'Y' AND im2.ITEM = isc2.ITEM AND isc2.PRIMARY_COUNTRY_IND = 'Y' AND
isc2.PRIMARY_SUPP_IND = 'Y'
```

Merchandise Hierarchy Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Merchandise Hierarchy	Contains Merchandise hierarchy information.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_merchhier.ksh
Schema File	rmse_aip_merchhier.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SUBCLASS, CLASS, DEPS, GROUPS, DIVISON, COMPHEAD		Target Object Name	rmse_aip_merchhier.dat
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SUBCLASS	SUBCLASS	Subclass	Number	(4,0)
SUBCLASS	SUB_NAME	Subclass Name	Varchar2	20
SUBCLASS	CLASS	Class	Number	(4,0)
CLASS	CLASS_NAME	Class Name	Varchar2	20
CLASS	DEPT	Department	Number	(4,0)
DEPS	DEPT_NAME	Department Name	Varchar2	20
DEPS	GROUP_NO	Group	Number	(4,0)
GROUPS	GROUP_NAME	Group Name	Varchar2	20
GROUPS	DIVISON	Division	Number	(4,0)
DIVISON	DIV_NAME	Division Name	Varchar2	20
COMPHEAD	COMPANY	Company	Number	(4,0)
COMPHEAD	CO_NAME	Company Name	Varchar2	20

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
DEPS	PURCHASE_TYPE	Purchase Type	Number	1

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
SUBCLASS	Subclass	int	5	N/A
SUB_NAME	Subclass Name	string	20	N/A
CLASS	Class	int	5	N/A
CLASS_NAME	Class Name	string	20	N/A
DEPT	Department	int	5	N/A
DEPT_NAME	Department Name	string	20	N/A
GROUP_NO	Group	int	5	N/A
GROUP_NAME	Group Name	string	20	N/A
DIVISION	Division	int	5	N/A
DIV_NAME	Division Name	string	20	N/A
COMPANY	Company	int	5	N/A
CO_NAME	Company Name	string	20	N/A
PURCHASE_TYPE	Purchase Type	int	1	N/A

Filtering Conditions

```
sc.CLASS=c.CLASS AND sc.DEPT=dp.DEPT AND c.DEPT=dp.DEPT AND dp.GROUP_NO=g.GROUP_NO
AND g.DIVISION=dv.DIVISION
```

Item Master Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Data	Contains RMS item, pack, supplier, and supplier pack size etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_master.ksh
Schema File	rmse_aip_item_master.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, UOM_CLASS, CODE_DETAIL, V_PACKSKU_QTY, PACKITEM		Target Object Name	rmse_aip_item_master.dat
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	ITEM_DESC	Item Description	Varchar2	100
ITEM_MASTER	ITEM_DESC	Item Description	Varchar2	100
ITEM_MASTER	ITEM_PARENT	Item Parent	Varchar2	25
ITEM_MASTER	ITEM_GRANDPARENT	Item Grandparent	Varchar2	25
V_PACKSKU_QTY ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	SUBCLASS	Subclass	Number	4
ITEM_MASTER	CLASS	Class	Number	4
ITEM_MASTER	DEPT	Department	Number	4

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_MASTER	FORECAST_IND	Forecastable Indicator	Varchar2	1
ITEM_SUPPLIER	SUPPLIER	Supplier	Number	(10,0)
ITEM_SUPPLIER	PRIMARY_SUP_IND	Primary Supplier Indicator	Varchar2	1
ITEM_MASTER	STANDARD_UOM	Standard UOM	Varchar2	4
UOM_CLASS	UOM_DESC	Standard UOM Description	Varchar2	20
ITEM_MASTER	HANDLING_TEMP	SKU Handling Temperature	Varchar2	6
CODE_DETAIL	CODE_DESC	SKU Handling Temperature Description	Varchar2	40
V_PACKSKU_QTY	QTY	Pack Quantity	Number	(12,4)
ITEM_MASTER	PACK_IND	Package Indicator	Varchar2	1
ITEM_MASTER	SIMPLE_PACK_IND	Simple Pack Indicator	Varchar2	1
ITEM_MASTER	ITEM_LEVEL	Item Level	Number	(1,0)
ITEM_MASTER	TRAN_LEVEL	Transaction Level	Number	(1,0)
ITEM_MASTER	RETAIL_LABEL_TYPE	Retail Label Type	Varchar2	6
ITEM_MASTER	BANDED_ITEM_IND	Banded Item Indicator	Varchar2	1
ITEM_MASTER	CATCH_WEIGHT_IND	Catch Weight Indicator	Varchar2	1
ITEM_MASTER	SELLABLE_IND	Sellable Indicator	Varchar2	1
ITEM_MASTER	ORDERABLE_IND	Orderable Indicator	Varchar2	1
ITEM_MASTER	DEPOSIT_ITEM_TYPE	Deposit Item Indicator	Varchar2	6

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
ITEM_DESC	Item Description	String	100	N/A
RMS_SKU_DESCRIPTION	RMS SKU Description	String	60	SUBSTR (item_master. ITEM_DESC,1,60)
ITEM_PARENT	Item Parent	String	25	N/A
ITEM_GRANDPARENT	Item Grandparent	String	25	N/A
AIP_SKU	AIP SKU	String	25	NVL (v_packsku_qty. ITEM, item_master.ITEM)
SUBCLASS	Subclass	int	5	N/A
CLASS	Class	int	5	N/A

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
DEPT	Department	int	5	N/A
FORECAST_IND	Forecastable Indicator	String	1	N/A
SUPPLIER	Supplier	int	11	N/A
PRIMARY_SUPP_IND	Primary Supplier Indicator	String	1	N/A
STANDARD_UOM	Standard UOM	String	4	N/A
STANDARD_UOM _DESCRIPTION	Standard UOM Description	String	20	N/A
SKU_TYPE	SKU Type	String	6	NVL (item_master. HANDLING_TEMP, 0)
SKU_TYPE_DESCRIPTION	SKU Type Description	String	40	NVL (code_detail. CODE_DESC, 0)
PACK_QUANTITY	Pack Component Quantity	int	4	NVL (v_packsku_qty.QTY, 0)
PACK_IND	Pack Indicator	String	1	N/A
SIMPLE_PACK_IND	Simple Pack Indicator	String	1	N/A
ITEM_LEVEL	Item Level	int	1	N/A
TRAN_LEVEL	Transaction Level	int	1	N/A
RETAIL_LABEL_TYPE	Retail Label Type	String	6	N/A
BANDED_ITEM_IND	Banded Item Indicator	String	1	DECODE (item_master. BANDED_ITEM_IND, 'Y', '1', '0')
CATCH_WEIGHT_IND	Catch Weight Indicator	String	1	N/A
SELLABLE_IND	Sellable Indicator	String	1	N/A
ORDERABLE_IND	Orderable Indicator	String	1	N/A
DEPOSIT_ITEM_TYPE	Deposit Item Indicator	String	6	N/A

Filtering Conditions

```
im.ITEM = isup.ITEM AND im.ITEM = p.PACK_NO (+) AND im.STANDARD_UOM=uc.UOM AND
im.HANDLING_TEMP=cd.CODE(+) AND im.STATUS='A' AND im.INVENTORY_IND ='Y' AND
((im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y') OR (im.SIMPLE_PACK_IND = 'Y' AND
im.item IN (SELECT pm.pack_no FROM item_master im1, packitem pm WHERE pm.item =
im1.item AND im1.forecast_ind = 'Y' AND im1.aip_case_type = 'F')))
```

Purged Items Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Data	Contains RMS item, pack, supplier, and supplier pack size etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_master.ksh
Schema File	rmse_aip_purged_item.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	DAILY_PURGE		Target Object Name	rmse_aip_purged_item.dat
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
DAILY_PURGE	KEY_VALUE	Purged Key Items	Varchar2	25

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	string	25	N/A

Filtering Conditions

```
TABLE_NAME = 'ITEM_MASTER'
```

Item Retail Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Retail	Contains item, pack, and supplier information.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_retail.ksh
Schema File	rmse_aip_item_retail.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, ITEM_SUPP_COUNTRY, UOM_CLASS, V_PACK_SKU_QTY, CODE_DETAIL		Target Object Name	rmse_aip_item_retail.dat
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	ITEM_DESC	Item Description	Varchar2	100
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	SUBCLASS	Subclass	Number	4
ITEM_MASTER	CLASS	Class	Number	4
ITEM_MASTER	DEPT	Department	Number	4
ITEM_MASTER	STANDARD_UOM	Standard UOM	Varchar2	4
UOM_CLASS	UOM_DESC	UOM Description	Varchar2	20
ITEM_MASTER	HANDLING_TEMP	Handling Temperature	Varchar2	6
CODE_DETAIL	CODE_DESC	Handling Temperature Description	Varchar2	40
N/A	N/A	N/A	N/A	N/A

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
N/A	N/A	N/A	N/A	N/A
ITEM_MASTER	BANDED_ITEM_IND	Banded Item Indicator	Varchar2	1

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	string	25	N/A
RMS_SKU_DESCRIPTION	Item Description	string	60	SUBSTR(im.ITEM_DESC,1,60)
AIP_SKU	Item	string	25	N/A
SUBCLASS	Subclass	int	5	N/A
CLASS	Class	int	5	N/A
DEPT	Department	int	5	N/A
STANDARD_UOM	Standard UOM	string	4	N/A
STANDARD_UOM _DESCRIPTION	UOM Description	string	20	N/A
SKU_TYPE	SKU Type	string	6	N/A
SKU_TYPE_DESCRIPTION	SKU Type Description	string	40	N/A
ORDER_MULTIPLE	Order Multiple	int	4	Hardcoded as "1"
PACK_QUANTITY	Pack Quantity	int	4	Hardcoded as "0"
BANDED_ITEM_IND	Banded Item Indicator	string	1	DECODE (im.BANDED_ITEM_IND, 'Y', '1', '0')

Filtering Conditions

```
im.ITEM = isup.ITEM AND im.STANDARD_UOM=uc.UOM AND im.HANDLING_TEMP=cd.CODE(+) AND
isup.ITEM=isc.ITEM AND isup.SUPPLIER=isc.SUPPLIER AND im.PACK_IND='N'AND
isc.SUPP_PACK_SIZE>1 AND im.STATUS='A' AND im.ITEM_LEVEL=im.TRAN_LEVEL AND
im.FORECAST_IND = 'Y' AND im.INVENTORY_IND = 'Y'
```

Item Supplier Country Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Supplier Country Data	Contains Item, Supplier and Supplier Pack Size information.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_supp_country.ksh
Schema File	rmse_aip_item_supp_country.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, ITEM_SUPP_COUNTRY, V_PACK_SKU_QTY		Target Object Name	rmse_aip_item_supp_country.dat / aip_dmx_prdspllks.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPP_COUNTRY	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY	SUPPLIER	Supplier	Number	(12,4)
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE QTY	Supplier Pack Size Inner Pack Size Quantity	Varchar2	25
ITEM_SUPP_COUNTRY	SUPP_PACK_SIZE	Primary Supplier Indicator	Number	(12,4)

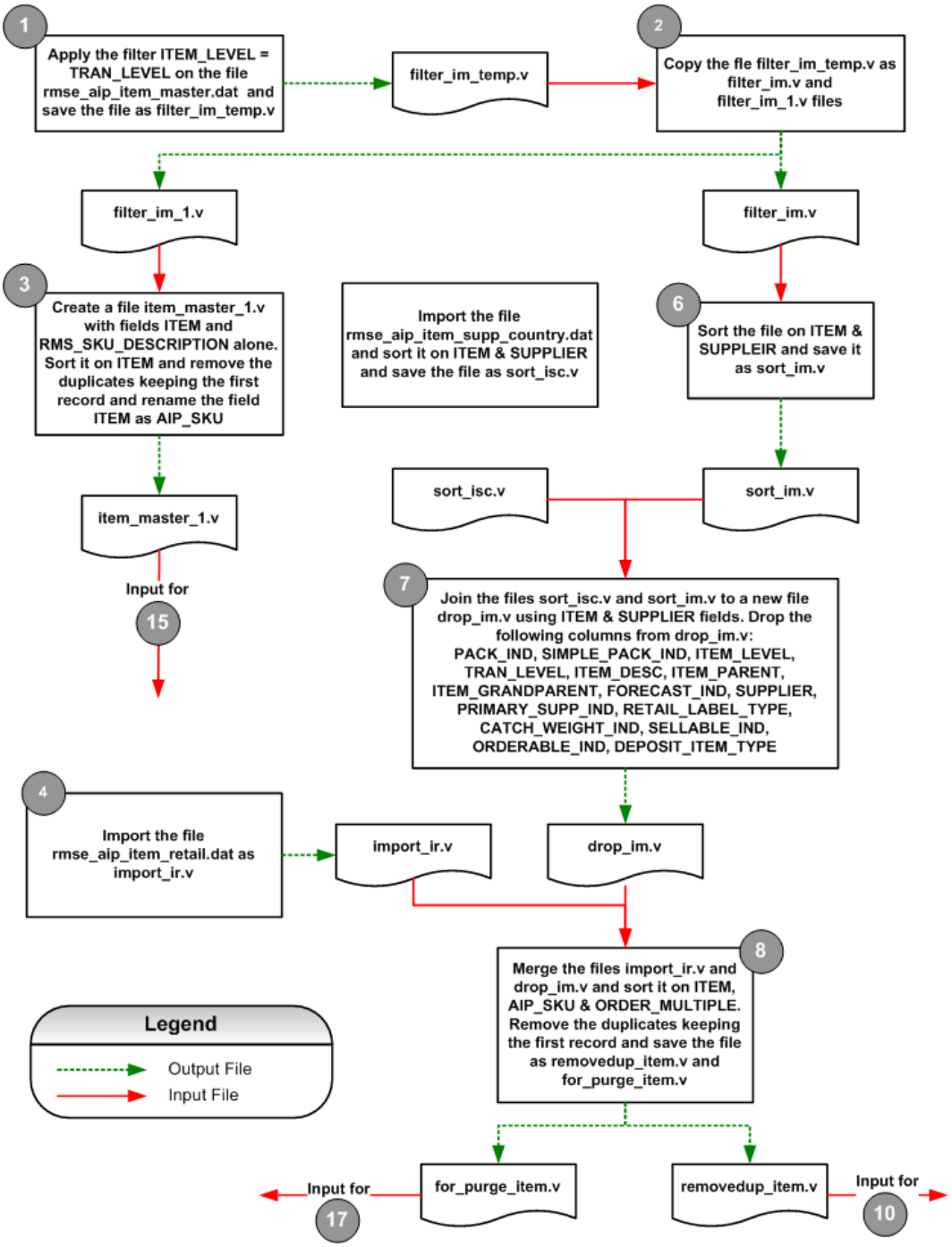
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
SUPPLIER	Supplier	int	11	N/A
ORDER_MULTIPLE	Order Multiple	int	4	N/A
PRIMARY_SUPP_IIND	Primary Supplier Indicator	String	1	N/A

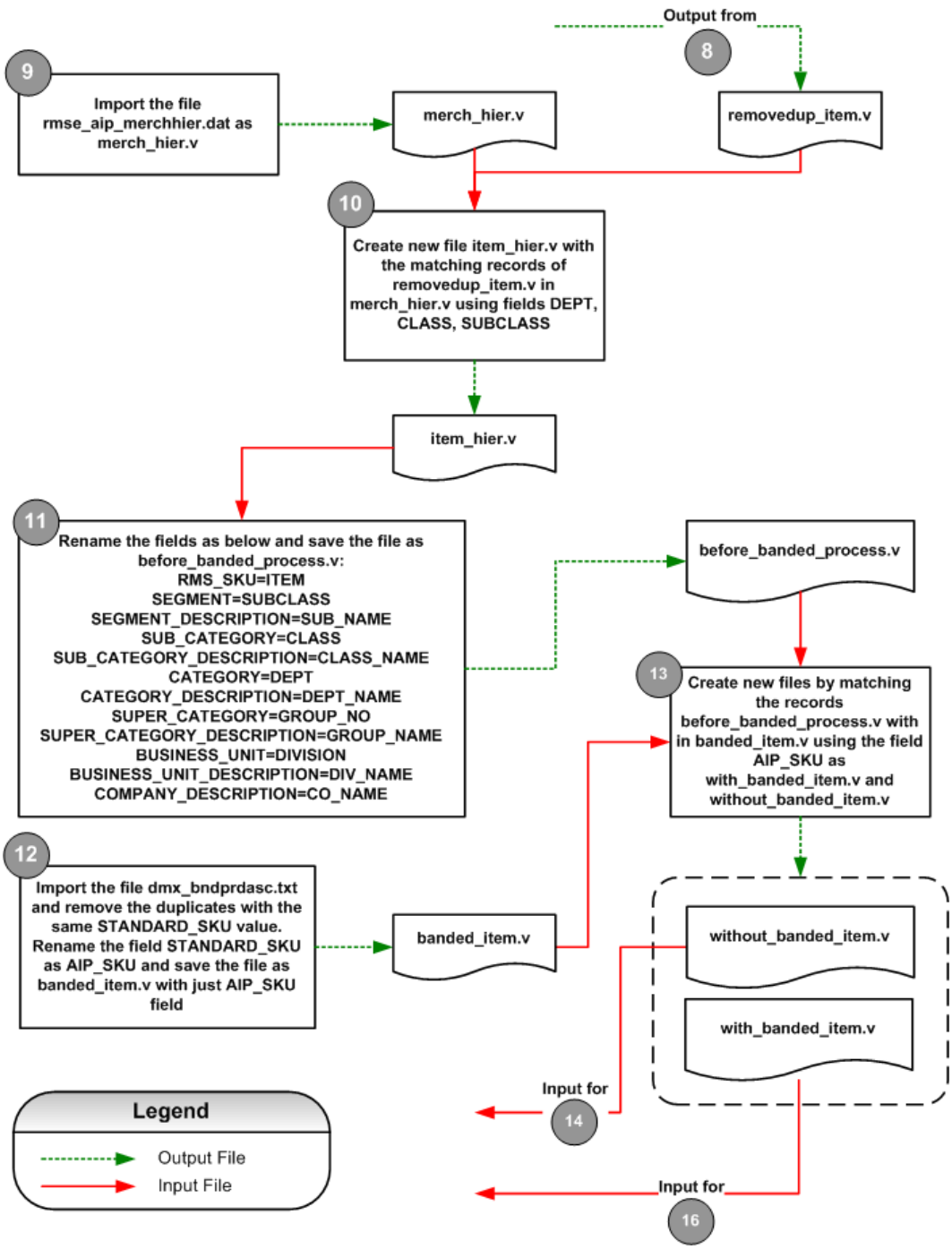
Filtering Conditions

```
isc.PRIMARY_COUNTRY_IND = 'Y' AND im.ITEM = isc.ITEM AND im.ITEM = isup.ITEM AND
im.STATUS = 'A' AND im.TRAN_LEVEL = im.ITEM_LEVEL AND im.INVENTORY_IND = 'Y' AND
im.AIP_CASE_TYPE = 'I' AND im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y' AND
isup.SUPPLIER = isc.SUPPLIER AND NVL(isup.SUPP_DISCONTINUE_DATE,
to_date('${VDATE}','yyyymmdd')+1) > to_date('${VDATE}','yyyymmdd')
```

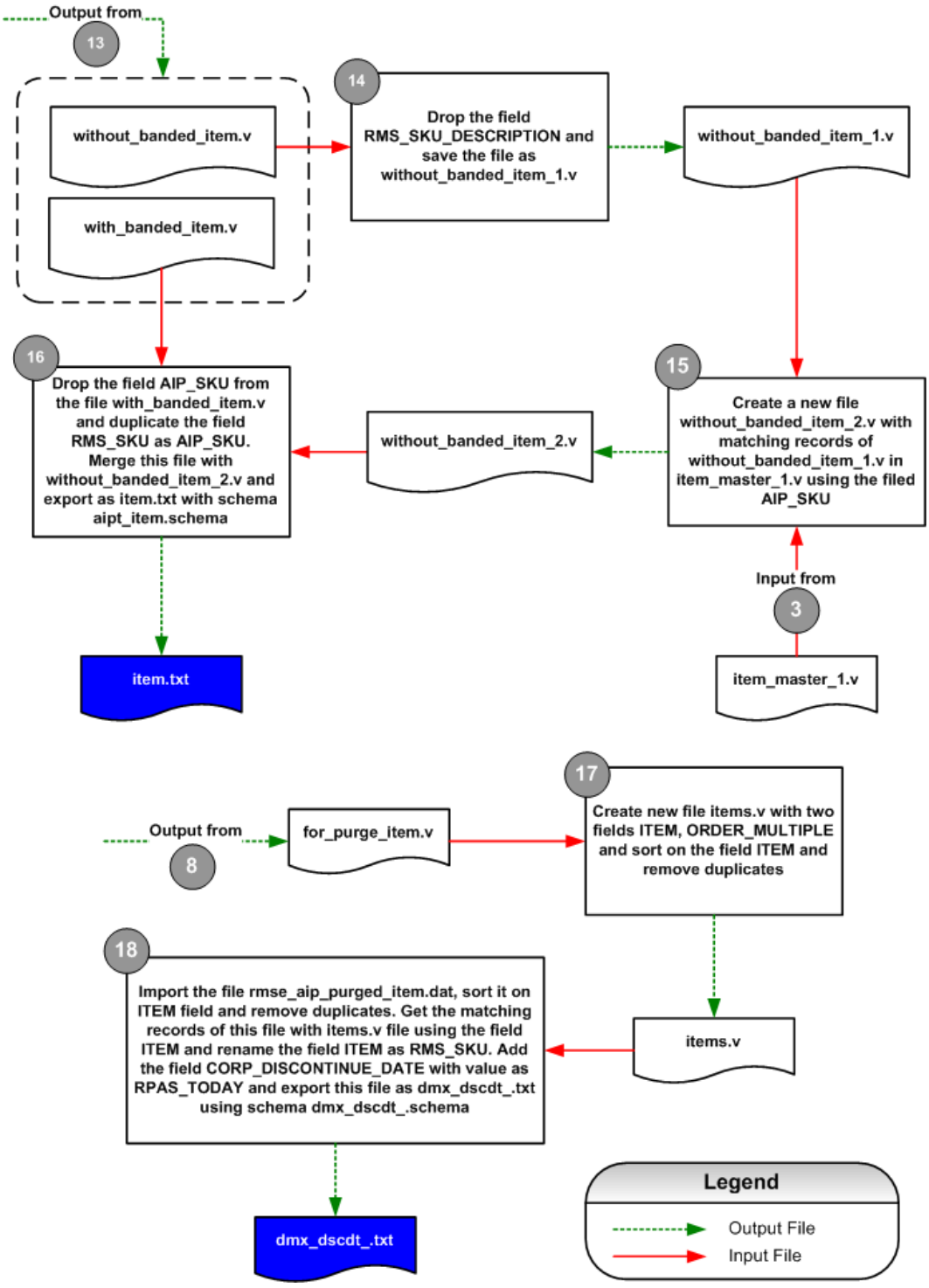
Transformation Process – Item



Item Transformation Process Diagram (1 of 3)



Item Transformation Process Diagram (2 of 3)



Item Transformation Process Diagram (3 of 3)

Final item.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Hierarchy	Contains RMS item, pack, supplier and supplier pack size information.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_item.ksh
Schema File	aipt_item.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, ITEM_SUPP_COUNTRY, V_PACK_SKU_QTY, UOM_CLASS, CODE_DETAIL, PACKITEM		Target Object Name	item.txt
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size/ Inner Pack Size/ Quantity	Number	(12,4)
V_PACKSKU_QTY	QTY	Pack Quantity	Number	(12,4)
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	ITEM_DESC	Item Description	Varchar2	100
ITEM_MASTER	BANDED_ITEM_IND	Banded Item Indicator	Varchar2	1
SUBCLASS	SUBCLASS	Subclass	Number	(4,0)
SUBCLASS	SUB_NAME	Subclass Name	Varchar2	20
SUBCLASS	CLASS	Class	Number	(4,0)

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
CLASS	CLASS_NAME	Class Name	Varchar2	20
CLASS	DEPT	Department	Number	(4,0)
DEPS	DEPT_NAME	Department Name	Varchar2	20
DEPS	GROUP_NO	Group	Number	(4,0)
GROUPS	GROUP_NAME	Group Name	Varchar2	20
GROUPS	DIVISION	Division	Number	(4,0)
DIVISON	DIV_NAME	Division Name	Varchar2	20
COMPHEAD	COMPANY	Company	Number	(4,0)
COMPHEAD	CO_NAME	Company Name	Varchar2	20
ITEM_MASTER	STANDARD_UOM	Standard UOM	Varchar2	4
UOM_CLASS	UOM_DESC	Standard UOM Description	Varchar2	20
ITEM_MASTER	HANDLING_TEMP	SKU Handling Temperature	Varchar2	6
CODE_DETAIL	CODE_DESC	SKU Handling Temperature Description	Varchar2	40

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
AIP_SKU	AIP SKU	string	20	N/A
ORDER_MULTIPLE	Order Multiple	int	4	N/A
PACK_QUANTITY	Pack Size	int	4	N/A
RMS_SKU	RMS SKU	string	20	N/A
RMS_SKU_DESCRIPTION	RMS SKU Description	string	60	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_IND	Banded Item Indicator	string	1	N/A
SEGMENT	Segment	int	20	N/A
SEGMENT_DESCRIPTION	Segment Name	string	60	N/A
SUB_CATEGORY	Sub Category	int	20	N/A
SUB_CATEGORY_DESCRIPTION	Sub Category Name	string	60	N/A
CATEGORY	Category	int	20	N/A
CATEGORY_DESCRIPTION	Category Name	string	60	N/A

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
SUPER_CATEGORY	Super Category	int	20	N/A
SUPER_CATEGORY_DESCRIPTION	Super Category Name	string	60	N/A
BUSINESS_UNIT	Business Unit	int	20	N/A
BUSINESS_UNIT_DESCRIPTION	Business Unit Description	string	60	N/A
COMPANY	Company	int	20	N/A
COMPANY_DESCRIPTION	Company Name	string	60	N/A
SKU_TYPE	SKU Type	string	20	N/A
SKU_TYPE_DESCRIPTION	SKU Type Description	string	100	N/A

Filter Conditions

See the Transformation Process – Item.

Final dmx_dscdt_.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Corporate Discontinued Data	Contains RMS item, pack, supplier and supplier pack size information.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_item.ksh
Schema File	dmx_dscdt_.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, DAILY_PURGE, ITEM_SUPP_COUNTRY, V_PACK_SKU_QTY, SYSTEM_VARIABLES		Target Object Name	dmx_dscdt_.txt

Data Source Details			Target Data Details	
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
DAILY_PURGE	KEY_VALUE	Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size Inner Pack Size Quantity	Number	(12,4)
SYSTEM_VARIABLES	VDATE	Current Retek Date	Date	

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
RMS_SKU	RMS SKU	string	20	N/A
ORDER_MULTIPLE	Order Multiple	int	4	N/A
CORPORATE_DISCONTINUE _DATE	Corporate Discontinuation Date	Date	8	N/A

Filtering Conditions

None.

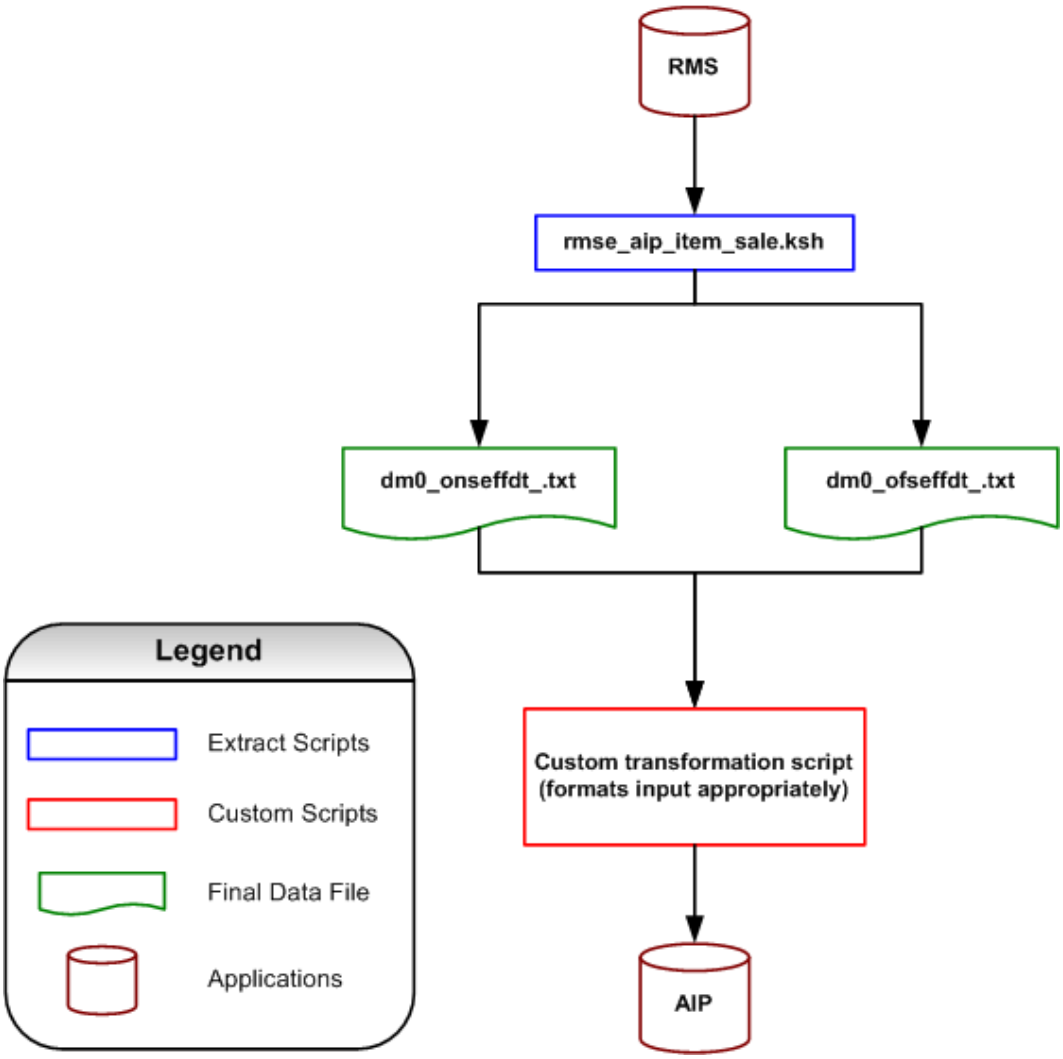
RMS-AIP Item Sale Mapping

AIP cannot load the on sale/off sale files that RMS produces. The file is considered to be coming from an external system. The client can simply create a transformation on the RMS files. This custom transformation is needed before these files can be loaded into AIP.

Item Sale Data Flow

Transformation Overview

A custom transformation is required in order for AIP to load dm0_onseffdt_.txt and dm0_ofseffdt_.txt. The transformation should drop the Order multiple 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.



Item Sale Data Flow Diagram

Item Sales Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item On Sale-Off Sale Dates	Contains Store, SKU, Order Multiple, off/on Sale Dates

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_sale.ksh
Schema File	N/A
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SIT_EXPLODE, SIT_DETAIL, ITEM_SUPP_COUNTRY, ITEM_MASTER		Target Object Name	on_off_sale.v
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SIT_EXPLODE	LOCATION	Location	Number	(10,0)
SIT_EXPLODE	ITEM	Item	Varchar2	25
ITEM_MASTER, V_PACKSKU_QTY	PACK_IND, QTY	Pack Quantity	Number	(12,4)
SIT_DETAIL	STATUS_UPDATE_DATE	Status Updated Date	date	N/A
SIT_DETAIL	STATUS	Status	Varchar2	1

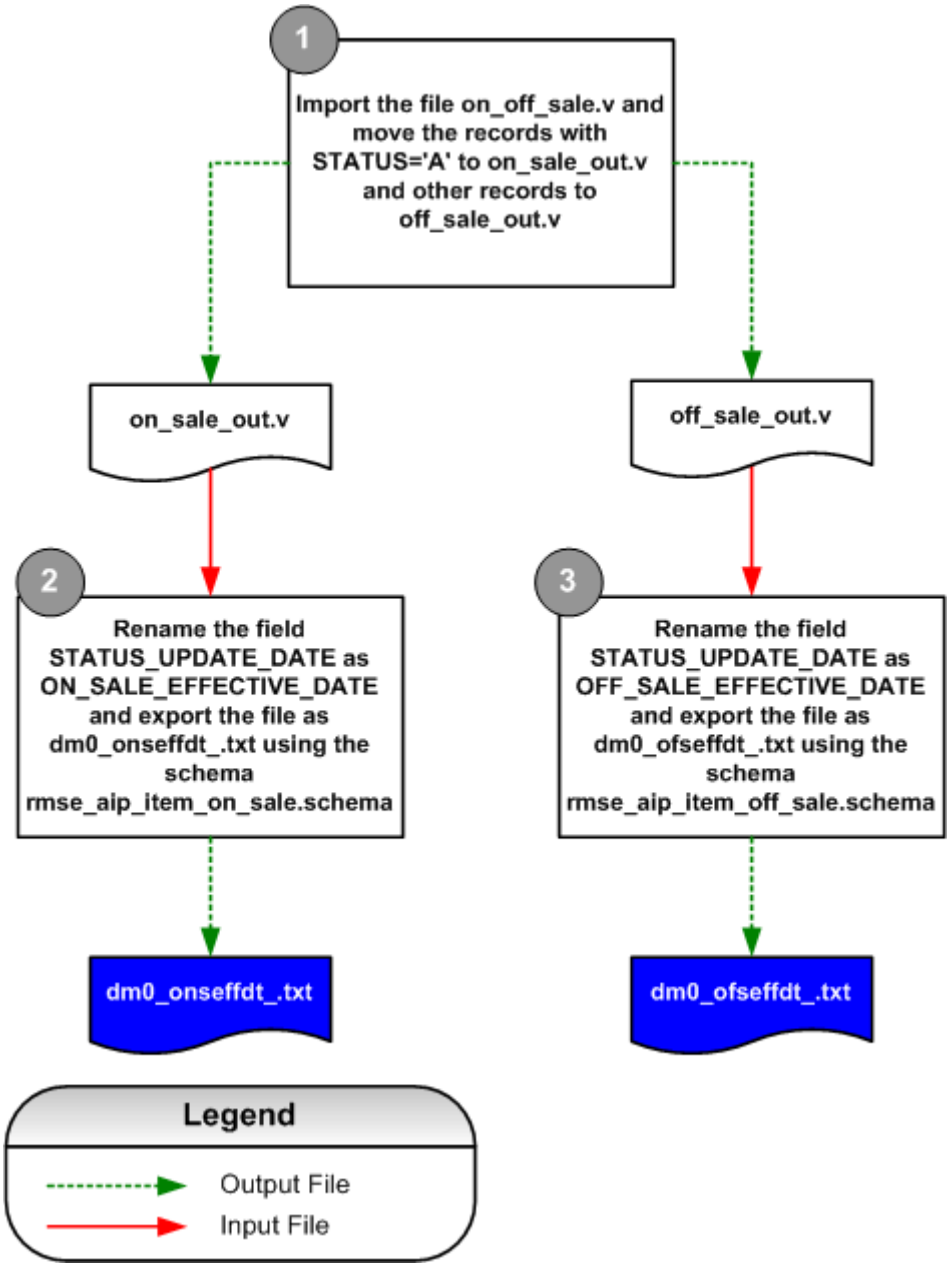
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
STORE	Store	int	20	N/A
RMS_SKU	RMS SKU	string	20	N/A
ORDER_MULTIPLE	Order Multiple	string	4	N/A
STATUS_UPDATE_DATE	Status Updated Date	date	8	N/A
STATUS	Status	string	1	N/A

Filtering Conditions

```
Filtering Conditions: se.ITEMLOC_LINK_ID = sd.ITEMLOC_LINK_ID AND sd.STATUS in
('A', 'C') AND se.ITEM = isc.ITEM AND isc.PRIMARY_SUPP_IND = 'Y' AND
isc.PRIMARY_COUNTRY_IND = 'Y' AND se.ITEM = im.ITEM AND im.STATUS = 'A' AND
im.ITEM_LEVEL = im.TRAN_LEVEL AND (im.PACK_IND = 'N' or im.SIMPLE_PACK_IND = 'Y')
AND sd.STATUS_UPDATE_DATE > TO_DATE(${VDATE}, 'YYYYMMDD')
```

On Sale/Off Sale Extract Process



On Sale/Off Sale Extract Process Diagram

Final dm0_onseffdt_.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item On Sale Dates	Contains Store, SKU, Order Multiple, On Sale Dates

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_sale.ksh
Schema File	rmse_aip_item_on_sale.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SIT_EXPLODE, SIT_DETAIL, ITEM_SUPP_COUNTRY, ITEM_MASTER		Target Object Name	dm0_onseffdt_.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SIT_EXPLODE	LOCATION	Location	Number	(10,0)
SIT_EXPLODE	ITEM	Item	Varchar2	25
ITEM_MASTER, V_PACKSKU_QTY	PACK_IND, QTY	Pack Quantity	Number	(12,4)
SIT_DETAIL	STATUS_UPDATE_DATE	Status Updated Date	date	N/A

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
STORE	Store	int	20	N/A
RMS_SKU	RMS SKU	string	20	N/A
ORDER_MULTIPLE	Order Multiple	string	4	N/A
ON_SALE_EFFECTIVE_DATE	On Sale Effective Date	date	8	N/A

Filtering Conditions

```
se.ITEMLOC_LINK_ID = sd.ITEMLOC_LINK_ID AND sd.STATUS in ('A', 'C') AND se.ITEM =
isc.ITEM AND isc.PRIMARY_SUPP_IND = 'Y' AND isc.PRIMARY_COUNTRY_IND = 'Y' AND
se.ITEM = im.ITEM AND im.STATUS = 'A' AND im.ITEM_LEVEL = im.TRAN_LEVEL AND
(im.PACK_IND = 'N' or im.SIMPLE_PACK_IND = 'Y') AND sd.STATUS_UPDATE_DATE >
TO_DATE(${VDATE}, 'YYYYMMDD')
```

Final dm0_ofseffdt_.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Off Sale Dates	Contains Store, SKU, Order Multiple, off Sale Dates

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_sale.ksh
Schema File	rmse_aip_item_off_sale.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SIT_EXPLODE, SIT_DETAIL, ITEM_SUPP_COUNTRY, ITEM_MASTER		Target Object Name	dm0_ofseffdt_.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SIT_EXPLODE	LOCATION	Location	Number	(10,0)
SIT_EXPLODE	ITEM	Item	Varchar2	25
ITEM_MASTER, V_PACKSKU_QTY	PACK_IND, QTY	Pack Quantity	Number	(12,4)
SIT_DETAIL	STATUS_UPDATE_DATE	Status Updated Date	date	N/A

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
STORE	Store	int	20	N/A
RMS_SKU	RMS SKU	string	20	N/A
ORDER_MULTIPLE	Order Multiple	string	4	N/A
STATUS_UPDATE_DATE	Off Sale Effective Date	date	8	N/A

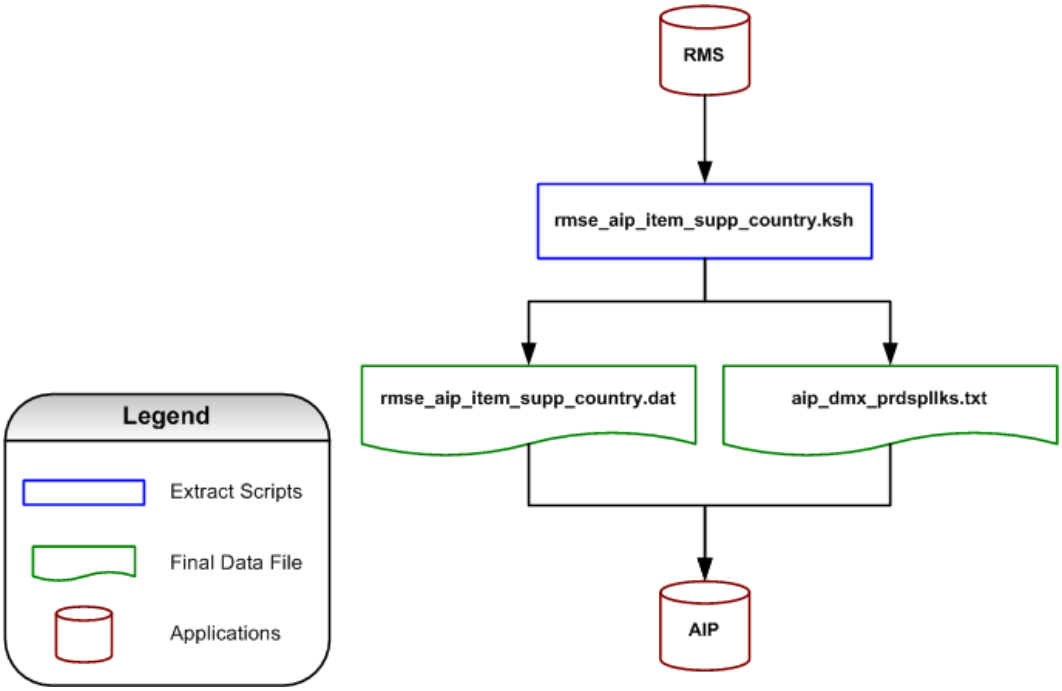
Filtering Conditions

```
se.ITEMLOC_LINK_ID = sd.ITEMLOC_LINK_ID AND sd.STATUS in ('A', 'C') AND se.ITEM =
isc.ITEM AND isc.PRIMARY_SUPP_IND = 'Y' AND isc.PRIMARY_COUNTRY_IND = 'Y' AND
se.ITEM = im.ITEM AND im.STATUS = 'A' AND im.ITEM_LEVEL = im.TRAN_LEVEL AND
(im.PACK_IND = 'N' or im.SIMPLE_PACK_IND = 'Y') AND sd.STATUS_UPDATE_DATE >
TO_DATE(${VDATE}, 'YYYYMMDD')
```

RMS-AIP Item Supplier Mapping

Item Supplier Data Flow

A new RMS extract, rmse_item_supp_country.ksh, will produce a data file, dmx_prdspllks.txt, containing item, supplier, order multiple and commodity supplier link indicator information. The rmse_aip_item_supp_country.dat is also to be used as input file for AIP item transformation, aipt_item.ksh, to produce item.txt file.



Item Supplier Data Flow Diagram

Formal Packs Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Supplier Country Data	Contains Item, Supplier and Order Multiple information

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_supp_country.ksh
Schema File	N/A
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, V_PACKSKU_QTY ITEM_SUPP_COUNTRY, ITEM_SUPPLIER		Target Object Name	formal_packs.v
			Target Load Type	Full Load

Field Level Mapping - Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPP_COUNTRY	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY	SUPPLIER	Supplier Pack Size	Number	(12,4)
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE, QTY	Supplier Pack Size, Pack Quantity	Number	(12,4)
ITEM_SUPP_COUNTRY	PRIMARY_SUPP_IND	Primary Supplier Indicator	Varchar2	1

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
SUPPLIER	Supplier	int	11	N/A
ORDER_MULTIPLE	Order Multiple	int	4	DECODE(im.SIMPLE_PACK_IND ,'Y', (SELECT QTY FROM V_PACKSKU_QTY WHERE PACK_NO = im.ITEM), 1)
PRIMARY_SUPP_IND	Primary Supplier Indicator	String	1	N/A

Filtering Conditions

```
Filtering Conditions:isc.PRIMARY_COUNTRY_IND='Y' AND im.ITEM = isc.ITEM AND
im.ITEM = isup.ITEM AND im.STATUS='A' AND im.INVENTORY_IND = 'Y' AND
NVL(im.AIP_CASE_TYPE,'F') != 'I' AND im.TRAN_LEVEL =
im.ITEM_LEVEL AND isup.SUPPLIER = isc.SUPPLIER AND NVL(isup.SUPP_DISCONTINUE_DATE,
to_date('${VDATE}','yyyymmdd')+1) > to_date('${VDATE}','yyyymmdd') AND
((im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y') OR
(im.SIMPLE_PACK_IND = 'Y' AND im.item IN (SELECT pm.pack_no FROM item_master
im1,packitem pm WHERE pm.item = im1.item AND im1.forecast_ind = 'Y')))
```

Informal Packs Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Supplier Country Data	Contains Item, Supplier and Supplier Pack Size information

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_supp_country.ksh
Schema File	N/A
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER ITEM_SUPPLIER ITEM_SUPP_COUNTRY		Target Object Name	informal_packs.v
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPP_COUNTRY	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY	SUPPLIER	Supplier Pack Size	Number	(12,4)
N/A	N/A	N/A	N/A	N/A
ITEM_SUPP_COUNTRY	SUPP_PACK_SIZE	Supplier Pack Size	Number	(12,4)
ITEM_SUPP_COUNTRY	INNER_PACK_SIZE	Inner Pack Size	Number	(12,4)
ITEM_SUPP_COUNTRY	SUPP_PACK_SIZE, TI, HI	Supplier Pack Size	Number	(12,4)
ITEM_SUPP_COUNTRY	PRIMARY_SUPP_IND	Primary Supplier Indicator	Varchar2	1

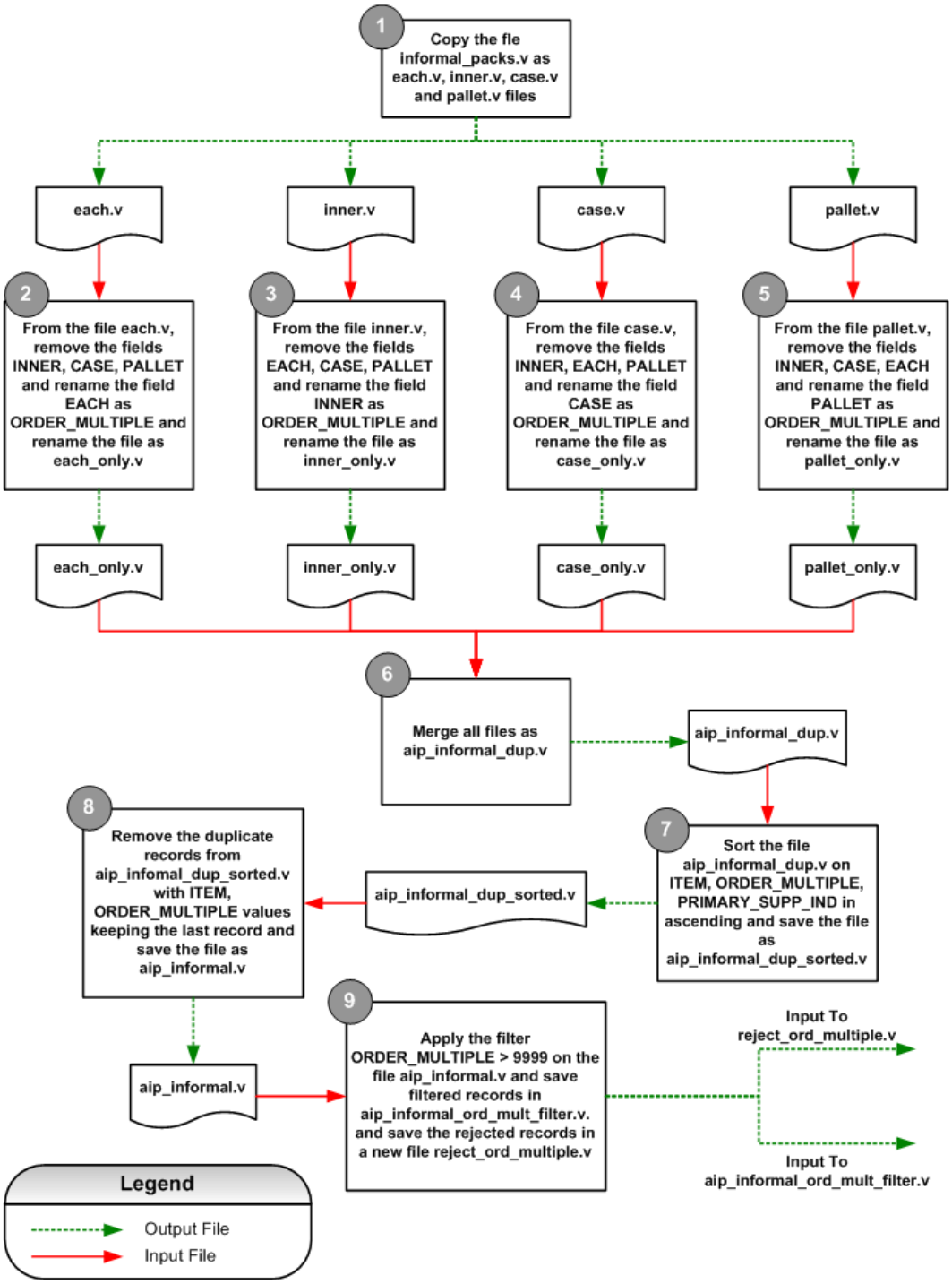
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
SUPPLIER	Supplier	int	11	N/A
EACH	Eaches	int	4	Hard coded as "1"
CASE	Case Pack Size	int	4	N/A
INNER	Inner Pack Size	int	4	N/A
PALLET	Pallet Size	int	4	(isc.TI * isc.HI * isc.SUPP_PACK_SIZE)
PRIMARY_SUPP_IND	Primary Supplier Indicator	String	1	N/A

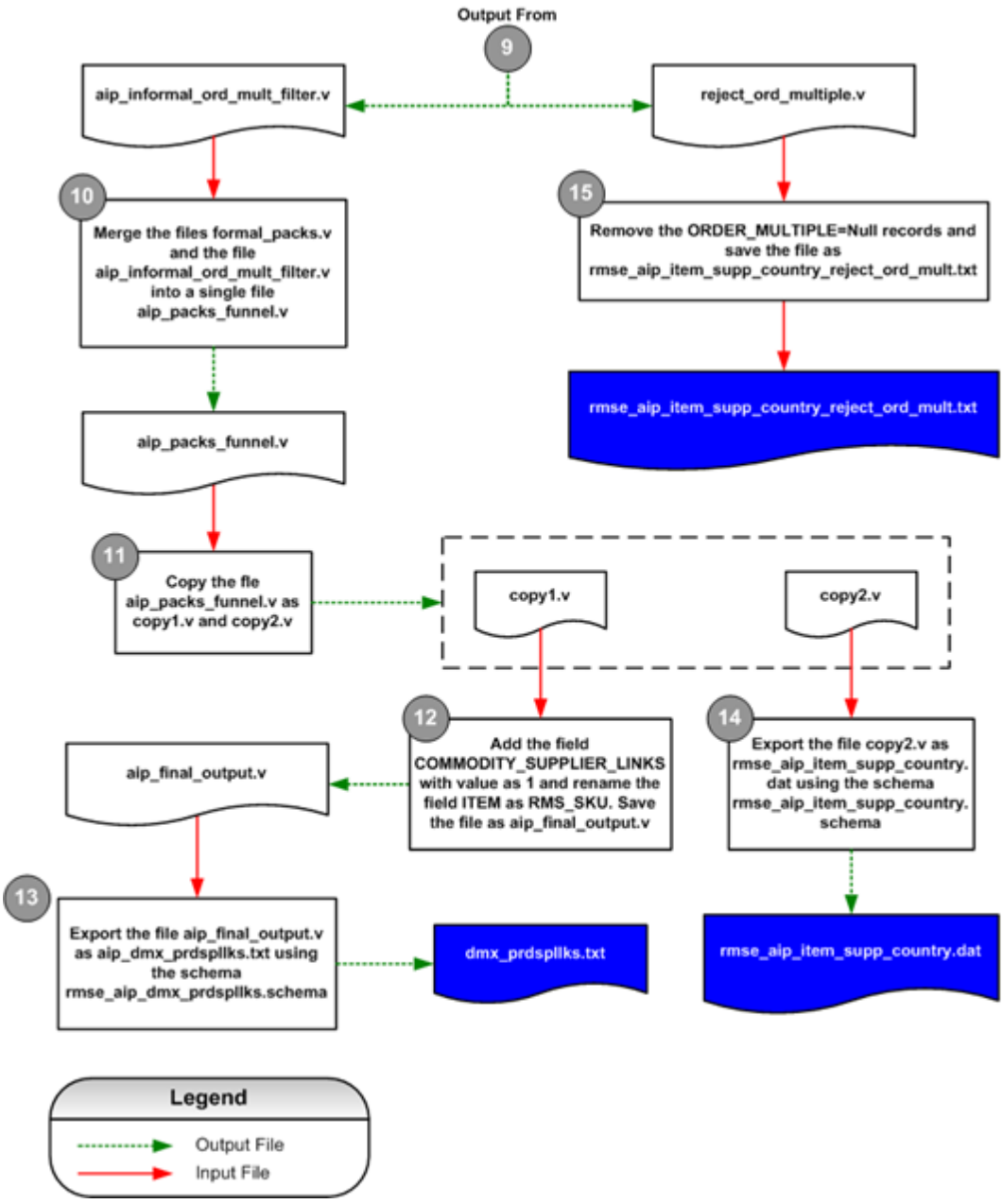
Filtering Conditions

```
isc.PRIMARY_COUNTRY_IND = 'Y' AND im.ITEM = isc.ITEM AND im.ITEM = isup.ITEM AND
im.STATUS = 'A' AND im.TRAN_LEVEL = im.ITEM_LEVEL AND im.INVENTORY_IND = 'Y' AND
im.AIP_CASE_TYPE = 'I' AND im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y' AND
isup.SUPPLIER = isc.SUPPLIER AND NVL(isup.SUPP_DISCONTINUE_DATE,
to_date('${VDATE}','yyyymmdd')+1) > to_date('${VDATE}','yyyymmdd')
```

Item Supplier Country Extract Process



Item Supplier Country Extract Process Diagram (1 of 2)



Item Supplier Country Extract Process Diagram (2 of 2)

Final Item Supplier Country Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Supplier Country Data	Contains Item, Supplier and Supplier Pack Size information

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_supp_country.ksh
Schema File	rmse_aip_item_supp_country.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, ITEM_SUPP_COUNTRY, V_PACK_SKU_QTY		Target Object Name	rmse_aip_item_supp_country.dat
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPP_COUNTRY	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY	SUPPLIER	Supplier	Number	(12,4)
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size Inner Pack Size Quantity	Number	(12,4)
ITEM_SUPP_COUNTRY	PRIMARY_SUPP_IIND	Primary Supplier Indicator	Varchar2	1

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
SUPPLIER	Supplier	int	11	N/A
ORDER_MULTIPLE	Order Multiple	int	4	N/A
PRIMARY_SUPP_IIND	Primary Supplier Indicator	String	1	N/A

Filtering Conditions

```
isc.PRIMARY_COUNTRY_IND = 'Y' AND im.ITEM = isc.ITEM AND im.ITEM = isup.ITEM AND
im.STATUS = 'A' AND im.TRAN_LEVEL = im.ITEM_LEVEL AND im.INVENTORY_IND = 'Y' AND
im.AIP_CASE_TYPE = 'I' AND im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y' AND
isup.SUPPLIER = isc.SUPPLIER AND NVL(isup.SUPP_DISCONTINUE_DATE,
to_date('${VDATE}','yyyymmdd')+1) > to_date('${VDATE}','yyyymmdd')
```

Final Product Supplier Link Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Supplier Country Data	Contains Item, Supplier and Supplier Pack Size information.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_supp_country.ksh
Schema File	rmse_aip_dmx_prdspllks.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, ITEM_SUPP_COUNTRY, V_PACK_SKU_QTY		Target Object Name	aip_dmx_prdspllks.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPP_COUNTRY	SUPPLIER	Supplier	Number	(10,0)
ITEM_SUPP_COUNTRY	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size / Inner Pack Size / Quantity	Number	(12,4)
N/A	N/A	N/A	N/A	N/A

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
SUPPLIER	Supplier	int	11	N/A
RMS_SKU	Item	String	25	N/A
ORDER_MULTIPLE	Order Multiple	int	4	N/A
COMMODITY_SUPPLIER_LINKS	Primary Supplier Indicator	String	1	Hard coded as "1"

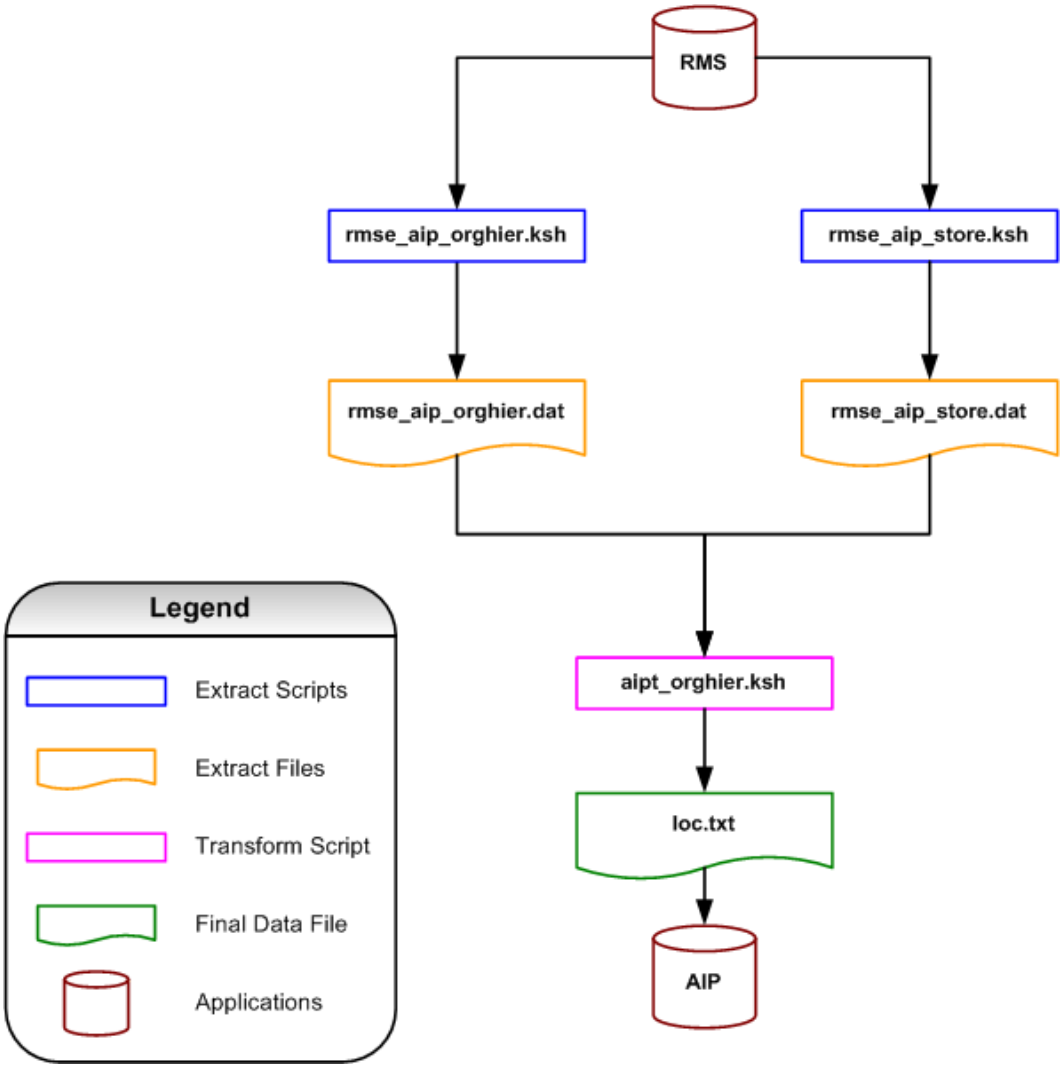
Filtering Conditions

```
isc.PRIMARY_COUNTRY_IND = 'Y' AND im.ITEM = isc.ITEM AND im.ITEM = isup.ITEM AND
im.STATUS = 'A' AND im.TRAN_LEVEL = im.ITEM_LEVEL AND im.INVENTORY_IND = 'Y' AND
im.AIP_CASE_TYPE = 'I' AND im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y' A
```

RMS-AIP Location Mapping

Location Data Flow

Transformation Overview: Combines Organization hierarchy data with store data and then the result will be added with 6 new fields and then exported as loc.txt file.



Location Data Flow Diagram

Organization Hierarchy Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Organization hierarchy	Contains organization information like company, chain, area etc

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_orghier.ksh
Schema File	rmse_aip_orghier.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	COMPHEAD, CHAIN, AREA, REGION, DISTRICT		Target Object Name	rmse_aip_orghier.dat
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
DISTRICT	DISTRICT	District	Number	(4,0)
DISTRICT	DISTRICT_NAME	District Name	Varchar2	20
REGION	REGION	Region	Number	(4,0)
REGION	REGION_NAME	Region Name	Varchar2	20
AREA	AREA	Area	Number	(4,0)
AREA	AREA_NAME	Area Name	Varchar2	20
CHAIN	CHAIN	Chain	Number	(4,0)
CHAIN	CHAIN_NAME	Chain Name	Varchar2	20
COMPHEAD	COMPANY	Company	Number	(4,0)
COMPHEAD	CO_NAME	Company Name	Varchar2	20

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
DISTRICT	District	int	11	N/A
DISTRICT_NAME	District Name	string	20	N/A
REGION	Region	int	11	N/A
REGION_NAME	Region Name	string	20	N/A
AREA	Area	int	11	N/A
AREA_NAME	Area Name	string	20	N/A
CHAIN	Chain	int	11	N/A
CHAIN_NAME	Chain Name	string	20	N/A
COMPANY	Company	int	5	N/A
CO_NAME	Company Name	string	20	N/A

Filtering Conditions

```
c.CHAIN = a.CHAIN (+) AND a.AREA = r.AREA (+) AND r.REGION = d.REGION (+)
```

Store Hierarchy Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Store Hierarchy	Contains store information like store, open date, close date etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_store.ksh
Schema File	rmse_aip_store.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	STORE, STORE_FORMAT, CODE_DETAIL		Target Object Name	rmse_aip_store.dat
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
STORE	STORE	Store	Number	(10,0)
STORE	STORE_NAME	Store Name	Varchar2	20
STORE	DISTRICT	District	Number	(10,0)
STORE	STORE_CLOSE_DATE	Store Close Date	Date	N/A
STORE	STORE_OPEN_DATE	Store Open Date	Date	N/A
STORE	STORE_CLASS	Store Class	Varchar2	1
CODE_DETAIL	CODE_DESC	Store Class Description	Varchar2	40
STORE	STORE_FORMAT	Store Format	Number	(4,0)
STORE_FORMAT	FORMAT_NAME	Store Format Name	Varchar2	20
STORE	STOCKHOLDING_IND	Stock Holding Indicator	Varchar2	1
STORE	REMERCH_IND	Re-merchandise Indicator	Varchar2	1

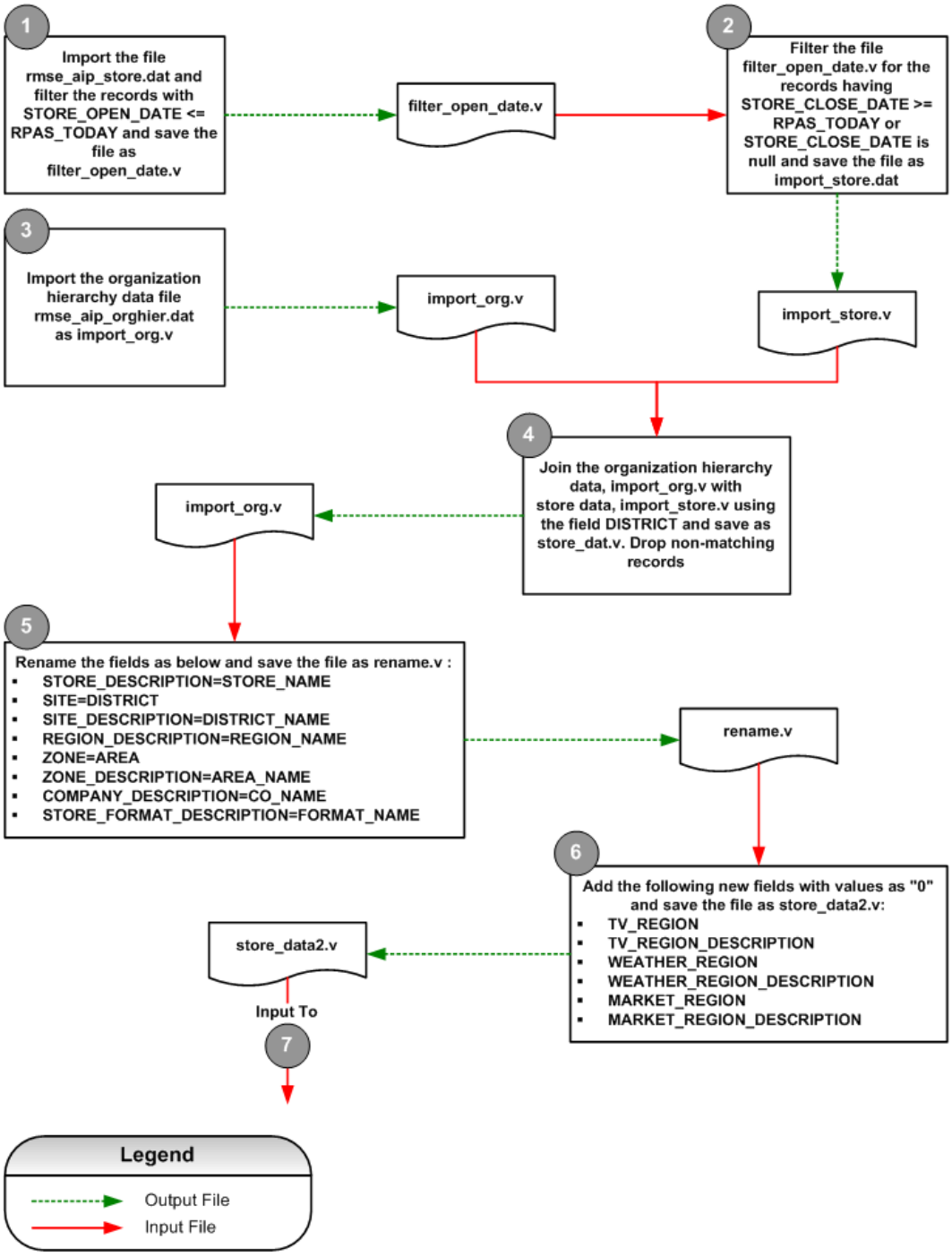
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
STORE	Store	int	11	N/A
STORE_NAME	Store Name	string	20	N/A
DISTRICT	District	int	11	N/A
STORE_CLOSE_DATE	Store Close Date	date	8	N/A
STORE_OPEN_DATE	Store Open Date	date	8	N/A
STORE_CLASS	Store Class	string	1	N/A
STORE_CLASS_DESCRIPTION	Store Class Description	string	40	N/A
STORE_FORMAT	Store Format	int	5	N/A
FORMAT_NAME	Store Format Name	string	20	N/A
STOCKHOLDING_IND	Stock Holding Indicator	string	1	N/A
REMERCH_IND	Re-merchandise Indicator	string	1	N/A

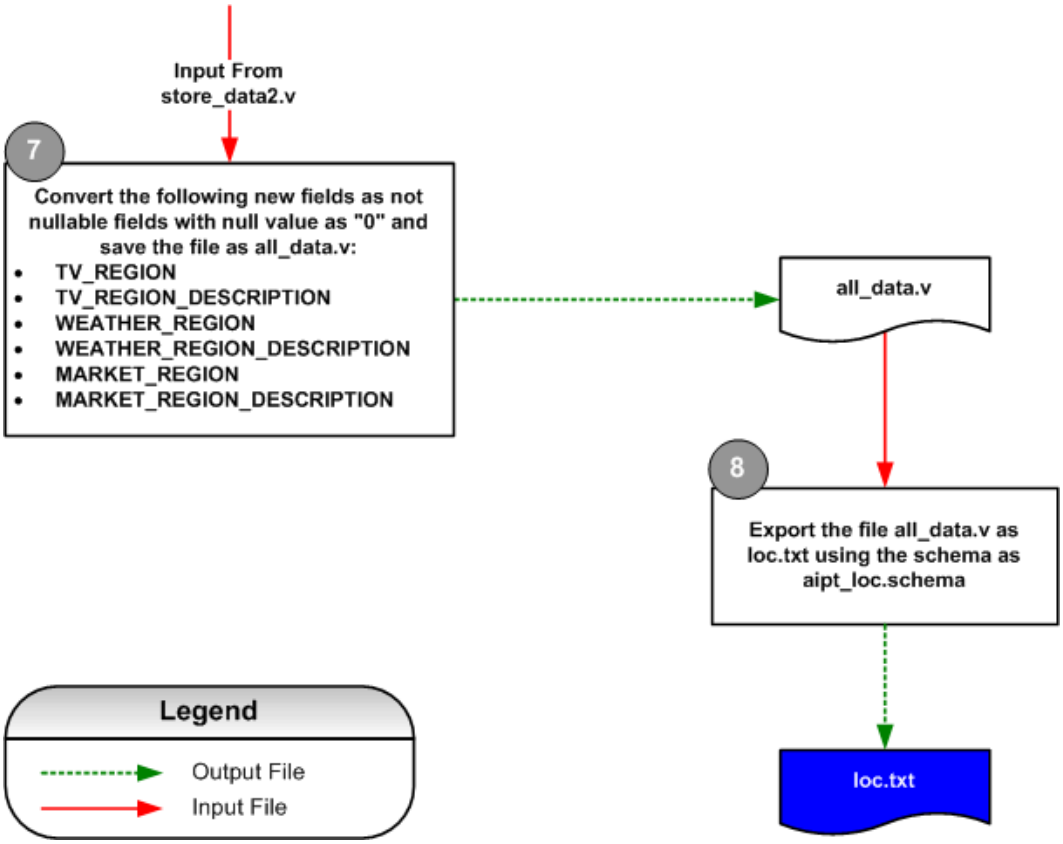
Filtering Conditions

```
s.STORE_FORMAT = sf.STORE_FORMAT(+) AND s.STORE_CLASS = cd.CODE AND cd.CODE_TYPE =
'CSTR' AND s.STOCKHOLDING_IND = 'Y'
```

Transformation Process – Location



Location Transformation Process Diagram (1 of 2)



Location Transformation Process Diagram (2 of 2)

Final loc.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Store Hierarchy	Contains store information like store, open date, close date, etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_orghier.ksh
Schema File	aipt_loc.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	STORE, STORE_FORMAT, CODE_DETAIL, COMPHEAD, CHAIN, AREA, DISTRICT, REGION		Target Object Name	loc.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
STORE	STORE	Store	Number	(10,0)
STORE	STORE_NAME	Store Name	Varchar2	20
STORE	DISTRICT	District	Number	(4,0)
DISTRICT	DISTRICT_NAME	District Name	Varchar2	20
REGION	REGION	Region	Number	(4,0)
REGION	REGION_NAME	Region Name	Varchar2	20
AREA	AREA	Area	Number	(4,0)
AREA	AREA_NAME	Area Name	Varchar2	20
CHAIN	CHAIN	Chain	Number	(4,0)
CHAIN	CHAIN_NAME	Chain Name	Varchar2	20
COMPHEAD	COMPANY	Company	Number	(4,0)

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
COMPHEAD	CO_NAME	Company Name	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
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
STORE	STORE_FORMAT	Store Format	Number	(4,0)
STORE_FORMAT	FORMAT_NAME	Store Format Name	Varchar2	20

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
STORE	Store	int	20	N/A
STORE_DESCRIPTION	Store Name	string	60	N/A
SITE	Site	int	20	N/A
SITE_DESCRIPTION	Site Name	string	40	N/A
REGION	Region	int	20	N/A
REGION_DESCRIPTION	Region Name	string	40	N/A
ZONE	Zone	int	20	N/A
ZONE_DESCRIPTION	Zone Name	string	40	N/A
CHAIN	Chain	int	20	N/A
CHAIN_DESCRIPTION	Chain Name	string	40	N/A
COMPANY	Company	int	20	N/A
COMPANY_DESCRIPTION	Company Name	string	40	N/A
TV_REGION	TV Region	string	4	Hard coded as "0"
TV_REGION_DESCRIPTION	TV Region Name	string	24	Hard coded as "0"
WEATHER_REGION	Weather Region	string	4	Hard coded as "0"
WEATHER_REGION_DESCRIPTION	Weather Region Name	string	24	Hard coded as "0"
MARKET_REGION	Market Region	string	4	Hard coded as "0"
MARKET_REGION_DESCRIPTION	Market Region Name	string	24	Hard coded as "0"
STORE_FORMAT	Store Format	int	20	N/A

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
STORE_FORMAT_DESCRIPTION	Store Format Name	string	40	N/A

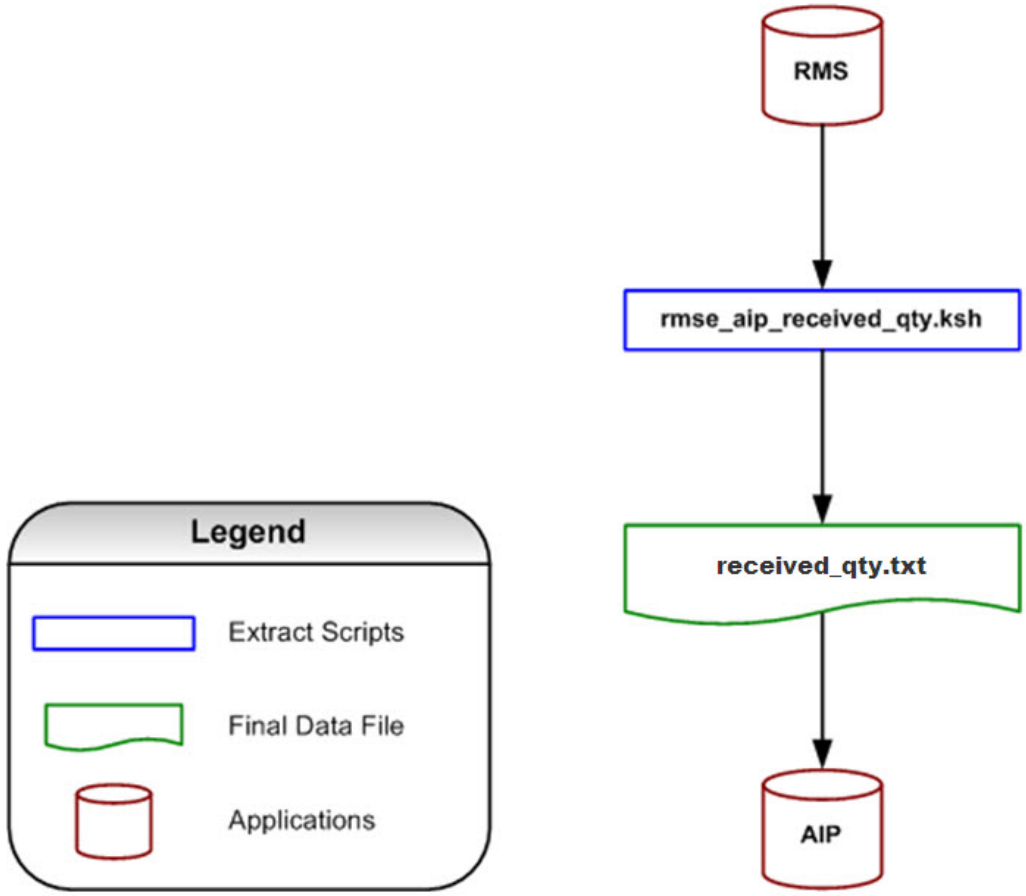
Filtering Conditions

See Transformation Process – Location.

RMS-AIP Received Quantity Mapping

Received Quantity Data Flow

No transformation required for received quantity from Purchase Orders and Transfers feeds. Extract program directly produces file received_qty.txt required by AIP.



Received Quantity Data Flow Diagram

Final received_qty.txt Layout

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.	Received Quantity	Contains Purchase Order and Transfers received quantity

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_received_qty.ksh
Schema File	rmse_aip_received_qty.shcema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ORDHEAD, ORDLOC, ORDSKU, TSFHEAD, TSFDETAIL, V_PACKSKU_QTY		Target Object Name	received_qty.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ORDHEAD TSFHEAD	ORDER_NUMBER	Order Number	Number	(8,0)
N/A	N/A	N/A	N/A	N/A
ORDSKU / TSFDETAIL	ITEM	Item	Varchar2	25
ORDSKU / TSFDETAIL	SUPP_PACK_SIZE	Supplier Pack Size	Number	(12,4)
(SELECT PACK_NO ITEM, SUM(QTY) PACK_QTY FROM V_PACKSKU_QTY GROUP BY PACK_NO)	PACK_QTY	Pack Quantity	Number	(12,4)

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ORDLOC / TSFHEAD	LOCATION / TO_LOC	Location	Number	(10,0)
ORDLOC / TSFHEAD	LOCATION / TO_LOC	Location	Number	(10,0)
ORDHEAD / TSFHEAD	NOT_AFTER_DATE/ DELIVERY_DATE	The Last date of order delivery/ The earliest transfer delivery date	Date	N/A
ORDLOC / TSFDETAIL	QTY_RECEIVED / RECEIVED_QTY	Received Quantity	Number	(12,4)

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ORDER_NUMBER	Order Number	int	10	N/A
ORDER_TYPE	Order Type	string	1	Hard coded as 'P' for the records from ORDHEAD (i.e. for POs) and 'T' for the records from TSFHEAD (i.e. for Transfers)
RMS_SKU	RMS SKU	string	25	N/A
ORDER_MULTIPLE	Order Multiple	int	8	N/A
PACK_QTY	Pack Quantity	int	8	N/A
STORE	Store	int	10	POs: If LOC_TYPE="S", then Location value TSFs: If TO_LOC_TYPE="S" then TO_LOC value
WAREHOUSE	Warehouse	int	10	POs: If LOC_TYPE="W", then Location value TSFs: If TO_LOC_TYPE="W" then TO_LOC value
RECEIVED_DATE	Received Date	date	8	N/A
QUANTITY	Received Quantity	int	8	N/A

Filtering Conditions

```
(oh.ORDER_NO = ol.ORDER_NO) AND (ol.ORDER_NO = os.ORDER_NO) AND (ol.ITEM =
os.ITEM) AND (os.ITEM = pks.ITEM (+)) AND (oh.ORIG_IND = '6') AND ol.QTY_RECEIVED
IS NOT NULL AND (oh.CLOSE_DATE IS NULL OR oh.CLOSE_DATE >=
(to_date('${VDATE}','yyyymmdd') - ${MAX_NOTAFTER_DAYS}))
AND oh.NOT_AFTER_DATE IS NOT NULL
```

UNION

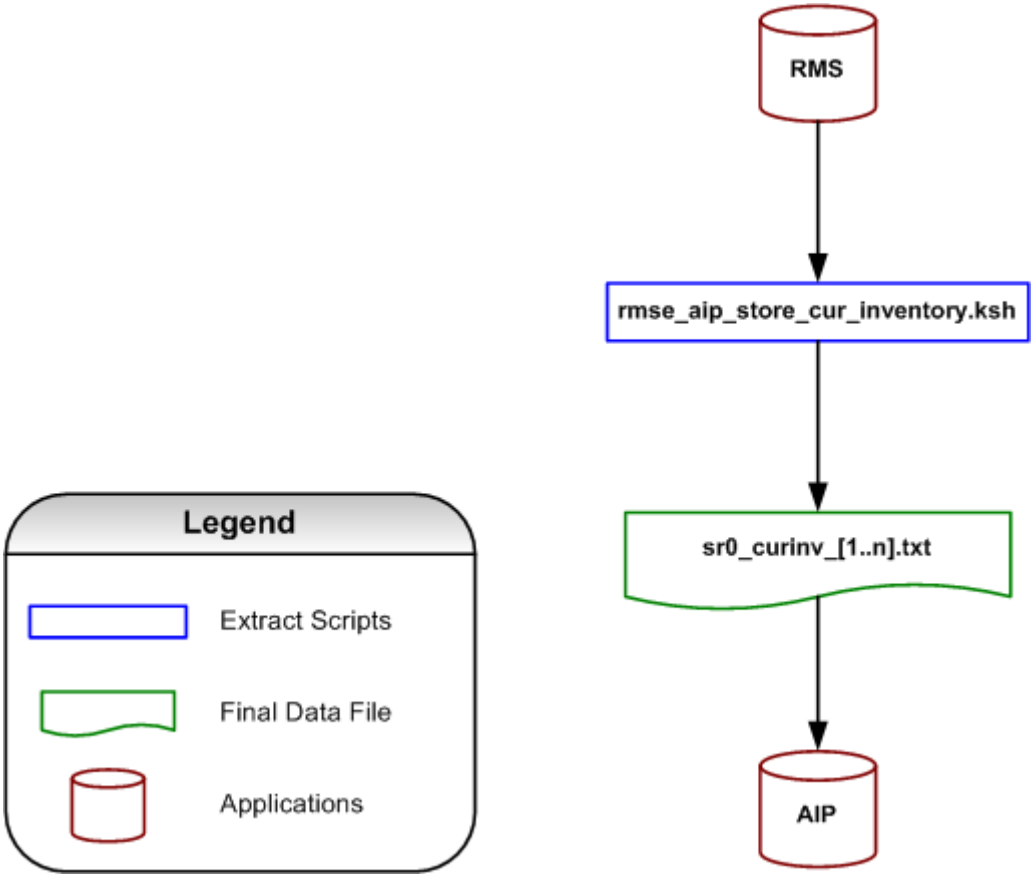
```
(th.TSF_NO = td.TSF_NO) AND (td.ITEM = pks.ITEM (+)) AND (th.TSF_TYPE = 'AIP') AND
td.RECEIVED_QTY IS NOT NULL AND (th.CLOSE_DATE IS NULL OR th.CLOSE_DATE >=
(to_date('${VDATE}','yyyymmdd')- ${MAX_NOTAFTER_DAYS})) AND th.DELIVERY_DATE IS
NOT NULL
```

Store Current Inventory Mapping

The final output files required by AIP will be created directly by these extracts with all necessary data transformations performed in the extract modules. No separate data transformation modules will be created. The reason that all transformations will be done in the extract modules directly is because some of the mathematical operations needed (such as the MOD function) do not exist in RETL and therefore these must be done during the Oracle SQL SELECT process.

Store Current Inventory Data Flow

The final output files required by AIP will be created directly by these extracts with all necessary data transformations performed in the extract modules. No separate data transformation modules will be created. The reason that all transformations will be done in the extract modules directly is because some of the mathematical operations needed (such as the MOD function) do not exist in RETL and therefore these must be done during the Oracle SQL SELECT process.



Store Current Inventory Data Flow Diagram

Final sr0_curinv_[*1..n*].txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Current Inventory	Contains Store, SKU and Inventory values

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_store_cur_inv.txt
Schema File	rmse_aip_store_cur_inv.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_LOC_SOH, STORE		Target Object Name	sr0_curinv_[*1..n*].txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_LOC_SOH	LOC	Order Number	Number	(10,0)
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_LOC_SOH	STOCK_ON_HAND, TSF_RESERVED_QTY, RTV_QTY, NON_SELLABLE_QTY, CUSTOMER_RESV, CUSTOMER_BACKORDER	Stock On Hand, Transfer Reserved, Pending RTV, Non Sellable, Customer Order Reserved, Customer Back Ordered Reserve	Number	(12,4)

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
STORE	Store	int	20	N/A
RMS_SKU	RMS SKU	string	20	N/A
STORE_CUR_INV	Store Current Inventory	int	8	Calculation: STOCK_ON_HAND - (TSF_RESERVED_QTY+ RTV_QTY+ NON_SELLABLE_QTY+ CUSTOMER_RESV+ CUSTOMER_BACKORDER)

Filtering Conditions

```
im.ITEM_LEVEL = im.TRAN_LEVEL AND im.STATUS = 'A' AND il.ITEM = im.ITEM AND
((im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y') OR (im.SIMPLE_PACK_IND = 'Y' AND
im.item IN (SELECT pm.pack_no FROM item_master im1,  packitem pm WHERE pm.item =
im1.item AND im1.forecast_ind = 'Y'))) AND il.LOC_TYPE = "S" AND il.LOC = s.STORE
AND s.STORE_OPEN_DATE <= TO_DATE('${VDATE}', 'YYYYMMDD') AND
NVL(s.STORE_CLOSE_DATE,'04-APR-4444') >= TO_DATE('${VDATE}', 'YYYYMMDD') AND
im.INVENTORY_IND = 'Y' AND NOT(im.SELLABLE_IND = 'Y' AND im.ORDERABLE_IND = 'N')
```

RMS-AIP Store Product Life

Store Product Life Data Flow

Transformation Overview

An AIP transformation program, aipt_item.ksh, will first join the item location traits and item master extracts, followed by merging the result with the store extracts, and then join the result to item supplier country extract and then export he result as sr0_prdlfe.txt.

Store Product Life Data Flow Diagram

Location Traits Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Product Life Data	Contains Item, location and shelf life on receipt details

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_loc_traits.ksh
Schema File	rmse_aip_item_loc_traits.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_LOC_TRAITS, ITEM_MASTER PACKITEM		Target Object Name	rmse_aip_item_loc_traits.dat
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_LOC_TRAITS	ITEM	Item	Varchar2	25
ITEM_LOC_TRAITS	LOC	Location	Number	(10,0)
ITEM_LOC_TRAITS	REQ_SHELF_LIFE_ON_RECEIPT	Shelf Life on Receipt	Number	(4,0)

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	string	25	N/A
LOC	Location	int	10	N/A
REQ_SHELF_LIFE_ON_RECEIPT	Shelf Life on Receipt	int	8	N/A

Filtering Conditions

```
im.ITEM = ilt.ITEM AND im.STATUS='A' AND ((im.PACK_IND = 'N' AND im.FORECAST_IND =
'Y') OR (im.SIMPLE_PACK_IND = 'Y' AND im.item IN (SELECT pm.pack_no FROM
item_master im1, packitem pm
WHERE pm.item = im1.item AND im1.forecast_ind = 'Y')))
```

Item Master Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Data	Contains RMS item, pack, supplier, and supplier pack size etc

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_master.ksh
Schema File	rmse_aip_item_master.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, UOM_CLASS, CODE_DETAIL, V_PACKSKU_QTY, PACKITEM		Target Object Name	rmse_aip_item_master.dat
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	ITEM_DESC	Item Description	Varchar2	100
ITEM_MASTER	ITEM_DESC	Item Description	Varchar2	100
ITEM_MASTER	ITEM_PARENT	Item Parent	Varchar2	25
ITEM_MASTER	ITEM_GRANDPARENT	Item Grandparent	Varchar2	25
V_PACKSKU_QTY ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	SUBCLASS	Subclass	Number	4
ITEM_MASTER	CLASS	Class	Number	4
ITEM_MASTER	DEPT	Department	Number	4
ITEM_MASTER	FORECAST_IND	Forecastable Indicator	Varchar2	1

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPPLIER	SUPPLIER	Supplier	Number	(10,0)
ITEM_SUPPLIER	PRIMARY_SUP_IND	Primary Supplier Indicator	Varchar2	1
ITEM_MASTER	STANDARD_UOM	Standard UOM	Varchar2	4
UOM_CLASS	UOM_DESC	Standard UOM Description	Varchar2	20
ITEM_MASTER	HANDLING_TEMP	SKU Handling Temperature	Varchar2	6
CODE_DETAIL	CODE_DESC	SKU Handling Temperature Description	Varchar2	40
V_PACKSKU_QTY	QTY	Pack Quantity	Number	(12,4)
ITEM_MASTER	PACK_IND	Package Indicator	Varchar2	1
ITEM_MASTER	SIMPLE_PACK_IND	Simple Pack Indicator	Varchar2	1
ITEM_MASTER	ITEM_LEVEL	Item Level	Number	(1,0)
ITEM_MASTER	TRAN_LEVEL	Transaction Level	Number	(1,0)
ITEM_MASTER	RETAIL_LABEL_TYPE	Retail Label Type	Varchar2	6
ITEM_MASTER	BANDED_ITEM_IND	Banded Item Indicator	Varchar2	1
ITEM_MASTER	CATCH_WEIGHT_IND	Catch Weight Indicator	Varchar2	1
ITEM_MASTER	SELLABLE_IND	Sellable Indicator	Varchar2	1
ITEM_MASTER	ORDERABLE_IND	Orderable Indicator	Varchar2	1
ITEM_MASTER	DEPOSIT_ITEM_TYPE	Deposit Item Indicator	Varchar2	6

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
ITEM_DESC	Item Description	String	100	N/A
RMS_SKU_DESCRIPTION	RMS SKU Description	String	60	SUBSTR (item_master. ITEM_DESC,1,60)
ITEM_PARENT	Item Parent	String	25	N/A
ITEM_GRANDPARENT	Item Grandparent	String	25	N/A
AIP_SKU	AIP SKU	String	25	NVL (v_packsku_qty.ITEM, item_master.ITEM)
SUBCLASS	Subclass	int	5	N/A
CLASS	Class	int	5	N/A
DEPT	Department	int	5	N/A

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
FORECAST_IND	Forecastable Indicator	String	1	N/A
SUPPLIER	Supplier	int	11	N/A
PRIMARY_SUPP_IND	Primary Supplier Indicator	String	1	N/A
STANDARD_UOM	Standard UOM	String	4	N/A
STANDARD_UOM _DESCRIPTION	Standard UOM Description	String	20	N/A
SKU_TYPE	SKU Type	String	6	NVL (item_master. HANDLING_TEMP, 0)
SKU_TYPE_DESCRIPTION	SKU Type Description	String	40	NVL (code_detail. CODE_DESC, 0)
PACK_QUANTITY	Pack Component Quantity	int	4	NVL (v_packsku_qty.QTY,0)
PACK_IND	Pack Indicator	String	1	N/A
SIMPLE_PACK_IND	Simple Pack Indicator	String	1	N/A
ITEM_LEVEL	Item Level	int	1	N/A
TRAN_LEVEL	Transaction Level	int	1	N/A
RETAIL_LABEL_TYPE	Retail Label Type	String	6	N/A
BANDED_ITEM_IND	Banded Item Indicator	String	1	DECODE (item_master. BANDED_ITEM_IND, 'Y', '1', '0')
CATCH_WEIGHT_IND	Catch Weight Indicator	String	1	N/A
SELLABLE_IND	Sellable Indicator	String	1	N/A
ORDERABLE_IND	Orderable Indicator	String	1	N/A
DEPOSIT_ITEM_TYPE	Deposit Item Indicator	String	6	N/A

Filtering Conditions

```
im.ITEM = isup.ITEM AND im.ITEM = p.PACK_NO (+) AND im.STANDARD_UOM=uc.UOM AND
im.HANDLING_TEMP=cd.CODE(+) AND im.STATUS='A' AND im.INVENTORY_IND ='Y' AND
((im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y') OR (im.SIMPLE_PACK_IND = 'Y' AND
im.item IN (SELECT pm.pack_no FROM item_master im1, packitem pm WHERE pm.item =
im1.item AND im1.forecast_ind = 'Y' AND im1.aip_case_type = 'F')))
```

Store Hierarchy Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Store Hierarchy	Contains store information like store, open date, close date, etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_store.ksh
Schema File	rmse_aip_store.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	STORE, STORE_FORMAT, CODE_DETAIL		Target Object Name	rmse_aip_store.dat
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
STORE	STORE	Store	Number	(10,0)
STORE	STORE_NAME	Store Name	Varchar2	20
STORE	DISTRICT	District	Number	(10,0)
STORE	STORE_CLOSE_DATE	Store Close Date	Date	N/A
STORE	STORE_OPEN_DATE	Store Open Date	Date	(4,0)
STORE	STORE_CLASS	Store Class	Varchar2	1
CODE_DETAIL	CODE_DESC	Store Class Description	Varchar2	40
STORE	STORE_FORMAT	Store Format	Number	(4,0)
STORE_FORMAT	FORMAT_NAME	Store Format Name	Varchar2	20
STORE	STOCKHOLDING_IND	Stock Holding Indicator	Varchar2	1
STORE	REMERCH_IND	Re-merchandise Indicator	Varchar2	1

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
STORE	Store	int	11	N/A
STORE_NAME	Store Name	string	20	N/A
DISTRICT	District	int	11	N/A
STORE_CLOSE_DATE	Store Close Date	date	8	N/A
STORE_OPEN_DATE	Store Open Date	date	8	N/A
STORE_CLASS	Store Class	string	1	N/A
STORE_CLASS_DESCRIPTION	Store Class Description	string	40	N/A
STORE_FORMAT	Store Format	int	5	N/A
FORMAT_NAME	Store Format Name	string	20	N/A
STOCKHOLDING_IND	Stock Holding Indicator	string	1	N/A
REMERCH_IND	Re-merchandise Indicator	string	1	N/A

Filtering Conditions

```
s.STORE_FORMAT = sf.STORE_FORMAT(+) AND s.STORE_CLASS = cd.CODE AND cd.CODE_TYPE =
'CSTR' AND s.STOCKHOLDING_IND = 'Y'
```

Item Supplier Country Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Supplier Country Data	contains Item, Supplier and Supplier Pack Size information

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_supp_country.ksh
Schema File	rmse_aip_item_supp_country.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, ITEM_SUPP_COUNTRY, V_PACK_SKU_QTY		Target Object Name	rmse_aip_item_supp_country.dat / aip_dmx_prdspllks.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPP_COUNTRY	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY	SUPPLIER	Supplier	Number	(12,4)
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size / Inner Pack Size / Quantity	Number	(12,4)
ITEM_SUPP_COUNTRY	PRIMARY_SUPP_IND	Primary Supplier Indicator	Varchar2	1

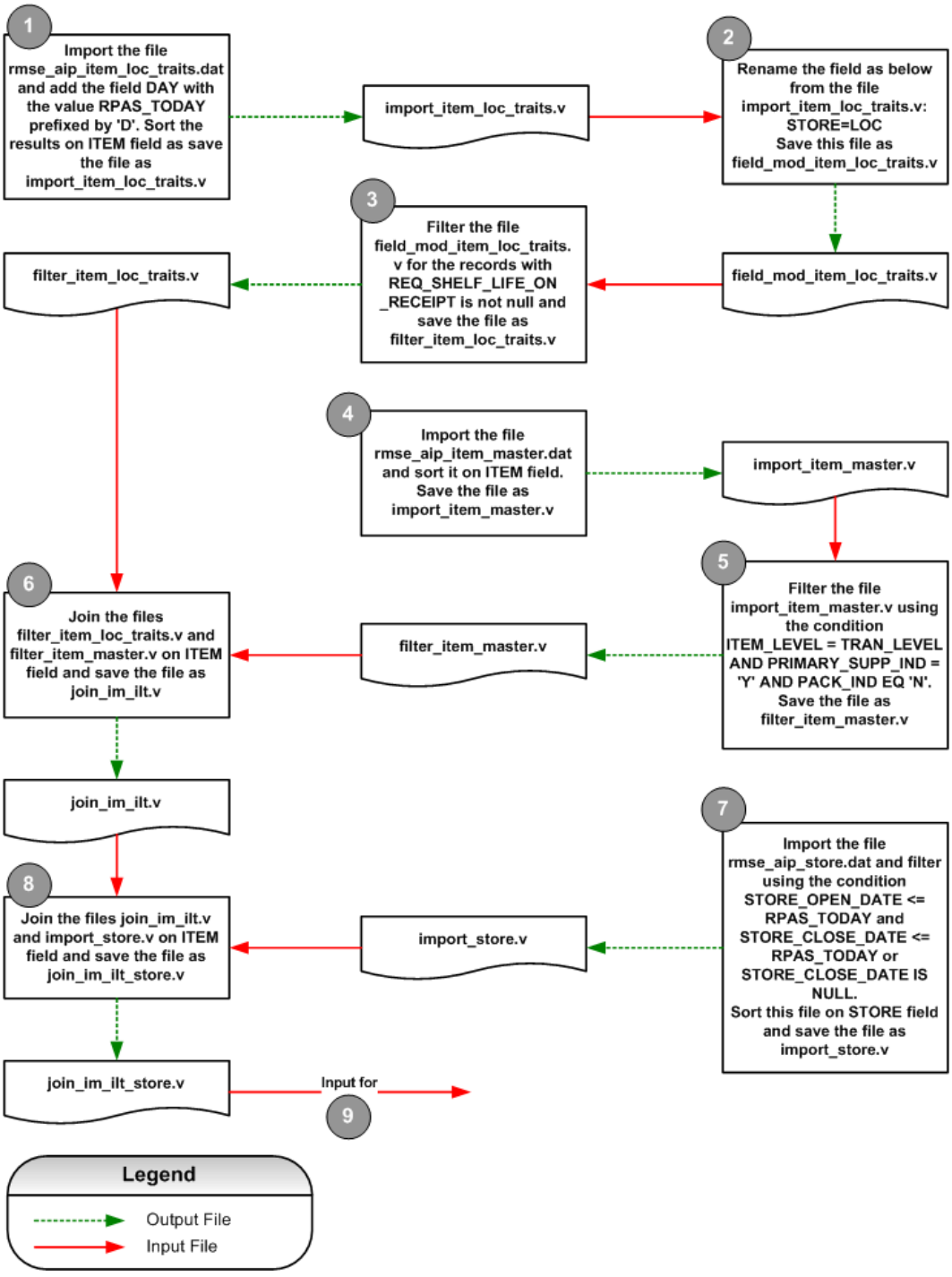
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
SUPPLIER	Supplier	int	11	N/A
ORDER_MULTIPLE	Order Multiple	int	4	N/A
PRIMARY_SUPP_IIND	Primary Supplier Indicator	String	1	N/A

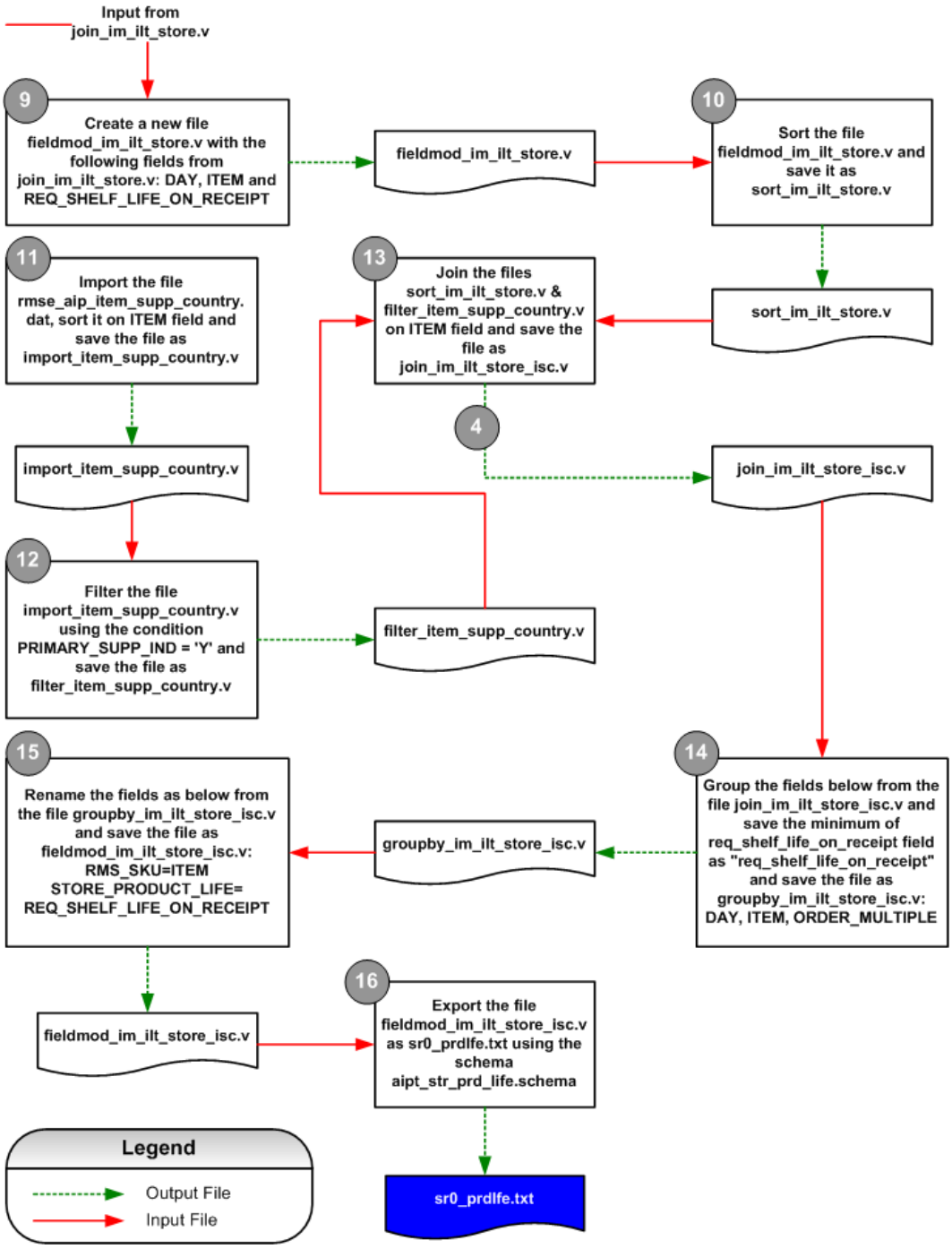
Filtering Conditions

```
isc.PRIMARY_COUNTRY_IND = 'Y' AND im.ITEM = isc.ITEM AND im.ITEM = isup.ITEM AND
im.STATUS = 'A' AND im.TRAN_LEVEL = im.ITEM_LEVEL AND im.INVENTORY_IND = 'Y' AND
im.AIP_CASE_TYPE = 'I' AND im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y' AND
isup.SUPPLIER = isc.SUPPLIER AND NVL(isup.SUPP_DISCONTINUE_DATE,
to_date('${VDATE}','yyyymmdd')+1) > to_date('${VDATE}','yyyymmdd')
```

Transformation Process – Store Product Life



Store Product Life Transformation Process Diagram (1 of 2)



Store Product Life Transformation Process Diagram (2 of 2)

Final sr0_prdlfe.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Product Life Data	Contains Item, location and shelf life on receipt details

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_str_prd_life.ksh
Schema File	aipt_str_prd_life.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPP_COUNTRY, V_PACK_SKU_QTY, ITEM_LOC_TRAITS		Target Object Name	sr0_prdlfe.txt
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
N/A	N/A	N/A	N/A	N/A
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size/ Inner Pack Size/ Quantity	Number	(12,4)
ITEM_LOC_TRAITS	REQ_SHELF_LIFE_ON_RECEIPT	Shelf Life on Receipt	Number	(4,0)

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
DAY	Current Day	string	9	Hard coded with RPAS_TODAY value with prefix 'D'
RMS_SKU	RMS SKU	string	20	N/A
ORDER_MULTIPLE	Pack Size	int	4	N/A
STORE_PRODUCT_LIFE	Store Product Life	int	8	N/A

Filtering Conditions

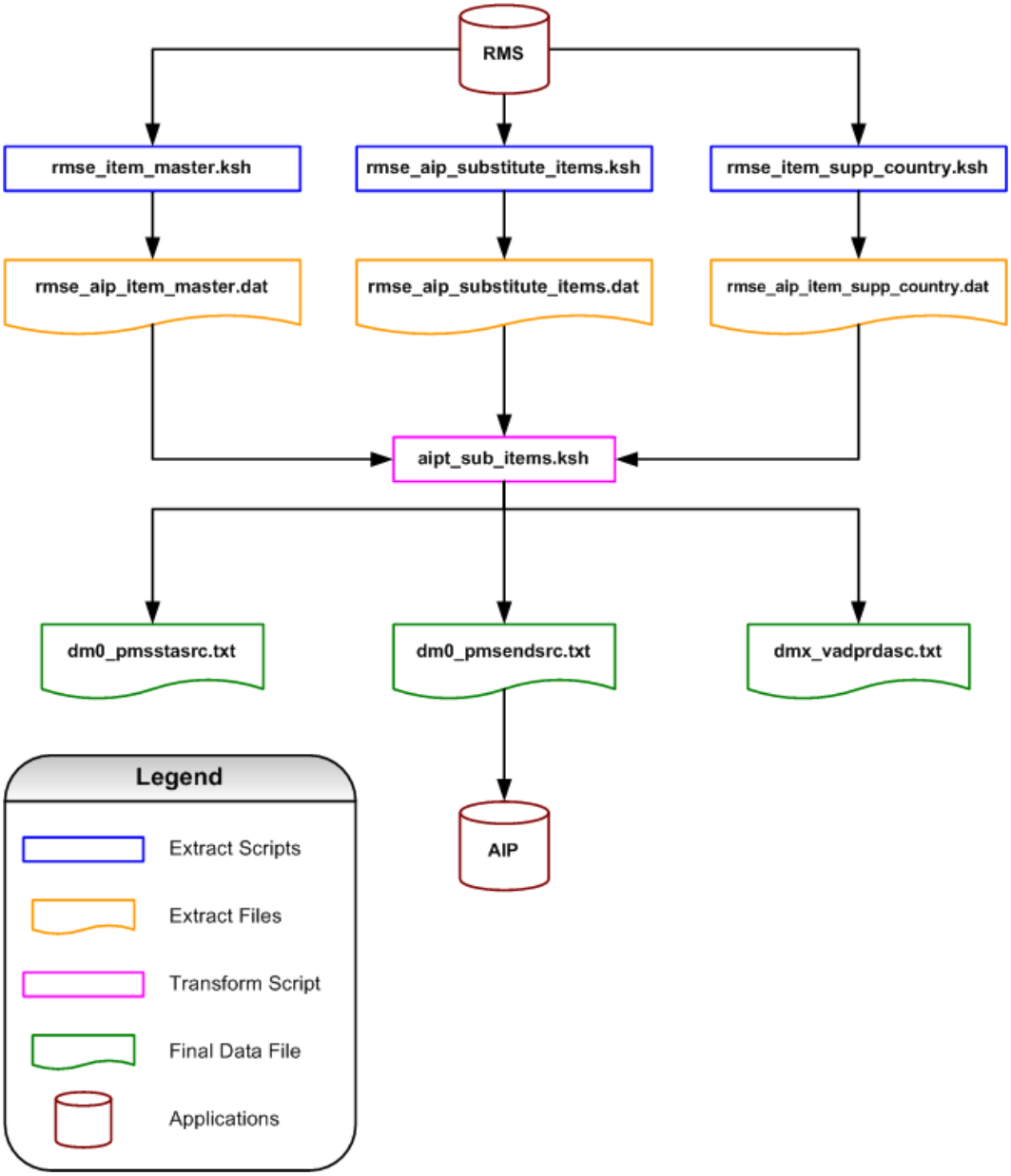
See the Transformation Process – Store Product Life.

RMS-AIP Substitute Items Mapping

Substitute Items Data Flow

Transformation Overview

An AIP transformation program, aipt_sub_items.ksh, will first join the item master and item substitutes extracts, followed by merging the result with the item supplier country extracts, and the result will be exported as promotional start dates file, promotional end dates file and Valued added commodities file.



Substitute Items Data Flow Diagram

Item Master Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Data	Contains RMS item, pack, supplier, and supplier pack size etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_master.ksh
Schema File	rmse_aip_item_master.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, UOM_CLASS, CODE_DETAIL, V_PACKSKU_QTY, PACKITEM		Target Object Name	rmse_aip_item_master.dat
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	ITEM_DESC	Item Description	Varchar2	100
ITEM_MASTER	ITEM_DESC	Item Description	Varchar2	100
ITEM_MASTER	ITEM_PARENT	Item Parent	Varchar2	25
ITEM_MASTER	ITEM_GRANDPARENT	Item Grandparent	Varchar2	25
V_PACKSKU_QTY ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER	SUBCLASS	Subclass	Number	4
ITEM_MASTER	CLASS	Class	Number	4
ITEM_MASTER	DEPT	Department	Number	4
ITEM_MASTER	FORECAST_IND	Forecastable Indicator	Varchar2	1

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPPLIER	SUPPLIER	Supplier	Number	(10,0)
ITEM_SUPPLIER	PRIMARY_SUP_IND	Primary Supplier Indicator	Varchar2	1
ITEM_MASTER	STANDARD_UOM	Standard UOM	Varchar2	4
UOM_CLASS	UOM_DESC	Standard UOM Description	Varchar2	20
ITEM_MASTER	HANDLING_TEMP	SKU Handling Temperature	Varchar2	6
CODE_DETAIL	CODE_DESC	SKU Handling Temperature Description	Varchar2	40
V_PACKSKU_QTY	QTY	Pack Quantity	Number	(12,4)
ITEM_MASTER	PACK_IND	Package Indicator	Varchar2	1
ITEM_MASTER	SIMPLE_PACK_IND	Simple Pack Indicator	Varchar2	1
ITEM_MASTER	ITEM_LEVEL	Item Level	Number	(1,0)
ITEM_MASTER	TRAN_LEVEL	Transaction Level	Number	(1,0)
ITEM_MASTER	RETAIL_LABEL_TYPE	Retail Label Type	Varchar2	6
ITEM_MASTER	BANDED_ITEM_IND	Banded Item Indicator	Varchar2	1
ITEM_MASTER	CATCH_WEIGHT_IND	Catch Weight Indicator	Varchar2	1
ITEM_MASTER	SELLABLE_IND	Sellable Indicator	Varchar2	1
ITEM_MASTER	ORDERABLE_IND	Orderable Indicator	Varchar2	1
ITEM_MASTER	DEPOSIT_ITEM_TYPE	Deposit Item Indicator	Varchar2	6

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
ITEM_DESC	Item Description	String	100	N/A
RMS_SKU_DESCRIPTION	RMS SKU Description	String	60	SUBSTR (item_master. ITEM_DESC,1,60)
ITEM_PARENT	Item Parent	String	25	N/A
ITEM_GRANDPARENT	Item Grandparent	String	25	N/A
AIP_SKU	AIP SKU	String	25	NVL (v_packsku_qty.ITEM, item_master.ITEM)
SUBCLASS	Subclass	int	5	N/A
CLASS	Class	int	5	N/A
DEPT	Department	int	5	N/A

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
FORECAST_IND	Forecastable Indicator	String	1	N/A
SUPPLIER	Supplier	int	11	N/A
PRIMARY_SUPP_IND	Primary Supplier Indicator	String	1	N/A
STANDARD_UOM	Standard UOM	String	4	N/A
STANDARD_UOM _DESCRIPTION	Standard UOM Description	String	20	N/A
SKU_TYPE	SKU Type	String	6	NVL (item_master. HANDLING_TEMP, 0)
SKU_TYPE_DESCRIPTION	SKU Type Description	String	40	NVL (code_detail. CODE_DESC, 0)
PACK_QUANTITY	Pack Component Quantity	int	4	NVL (v_packsku_qty. QTY, 0)
PACK_IND	Pack Indicator	String	1	N/A
SIMPLE_PACK_IND	Simple Pack Indicator	String	1	N/A
ITEM_LEVEL	Item Level	int	1	N/A
TRAN_LEVEL	Transaction Level	int	1	N/A
RETAIL_LABEL_TYPE	Retail Label Type	String	6	N/A
BANDED_ITEM_IND	Banded Item Indicator	String	1	DECODE (item_master. BANDED_ITEM_IND, 'Y', '1', '0')
CATCH_WEIGHT_IND	Catch Weight Indicator	String	1	N/A
SELLABLE_IND	Sellable Indicator	String	1	N/A
ORDERABLE_IND	Orderable Indicator	String	1	N/A
DEPOSIT_ITEM_TYPE	Deposit Item Indicator	String	6	N/A

Filtering Conditions

```
im.ITEM = isup.ITEM AND im.ITEM = p.PACK_NO (+) AND im.STANDARD_UOM=uc.UOM AND
im.HANDLING_TEMP=cd.CODE(+) AND im.STATUS='A' AND im.INVENTORY_IND ='Y' AND
((im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y') OR (im.SIMPLE_PACK_IND = 'Y' AND
im.item IN (SELECT pm.pack_no FROM item_master im1, packitem pm WHERE pm.item =
im1.item AND im1.forecast_ind = 'Y' AND im1.aip_case_type = 'F')))
```

Substitute Item Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Substitute Items Data	Contains Item, its substitute items, date range etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_substitute_items.ksh
Schema File	rmse_aip_substitute_items.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SUB_ITEMS_DETAIL		Target Object Name	rmse_aip_substitute_items.dat
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SUB_ITEMS_DETAIL	ITEM	Item	Varchar2	25
SUB_ITEMS_DETAIL	LOCATION	Location	Number	(10,0)
SUB_ITEMS_DETAIL	SUB_ITEM	Substitute Item	Varchar2	25
SUB_ITEMS_DETAIL	LOC_TYPE	Location Type	Varchar2	1
SUB_ITEMS_DETAIL	START_DATE	Start Date	Date	N/A
SUB_ITEMS_DETAIL	END_DATE	End Date	Date	N/A

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
LOCATION	Location	int	10	N/A
SUB_ITEM	Substitute Item	String	25	N/A
LOC_TYPE	Location Type	int	1	N/A
START_DATE	Start Date	date	8	N/A
END_DATE	End Date	date	8	N/A

Filtering Conditions

None.

Item Supplier Country Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Item Supplier Country Data	Contains Item, Supplier and Supplier Pack Size information

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_item_supp_country.ksh
Schema File	rmse_aip_item_supp_country.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_SUPPLIER, ITEM_SUPP_COUNTRY, V_PACK_SKU_QTY		Target Object Name	rmse_aip_item_supp_country.dat / aip_dmx_prdspllks.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_SUPP_COUNTRY	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY	SUPPLIER	Supplier	Number	(10,0)
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size / Inner Pack Size / Quantity	Number	(12,4)
ITEM_SUPP_COUNTRY	PRIMARY_SUPP_IND	Primary Supplier Indicator	Varchar2	1

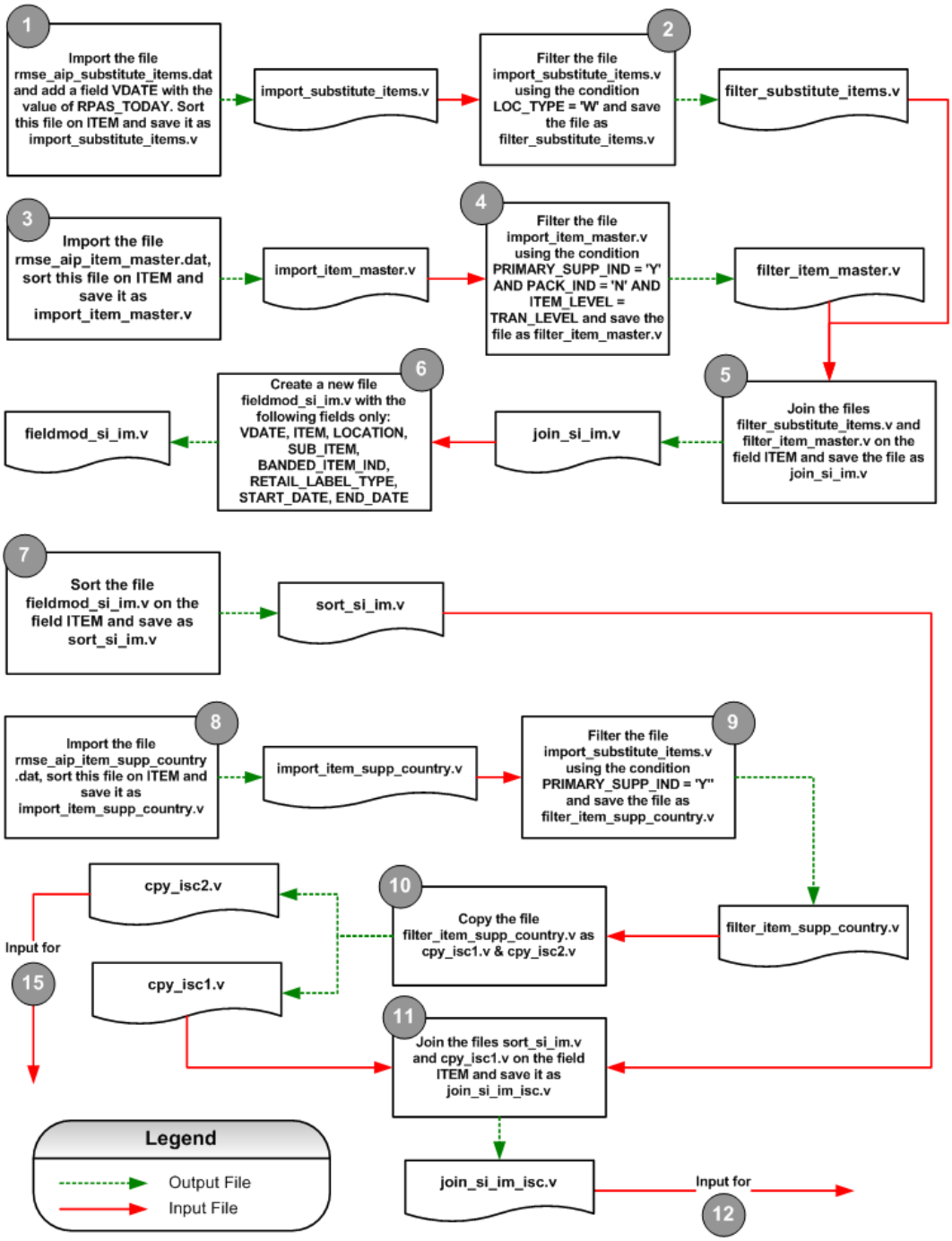
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
ITEM	Item	String	25	N/A
SUPPLIER	Supplier	int	11	N/A
ORDER_MULTIPLE	Order Multiple	int	4	N/A
PRIMARY_SUPP_IIND	Primary Supplier Indicator	String	1	N/A

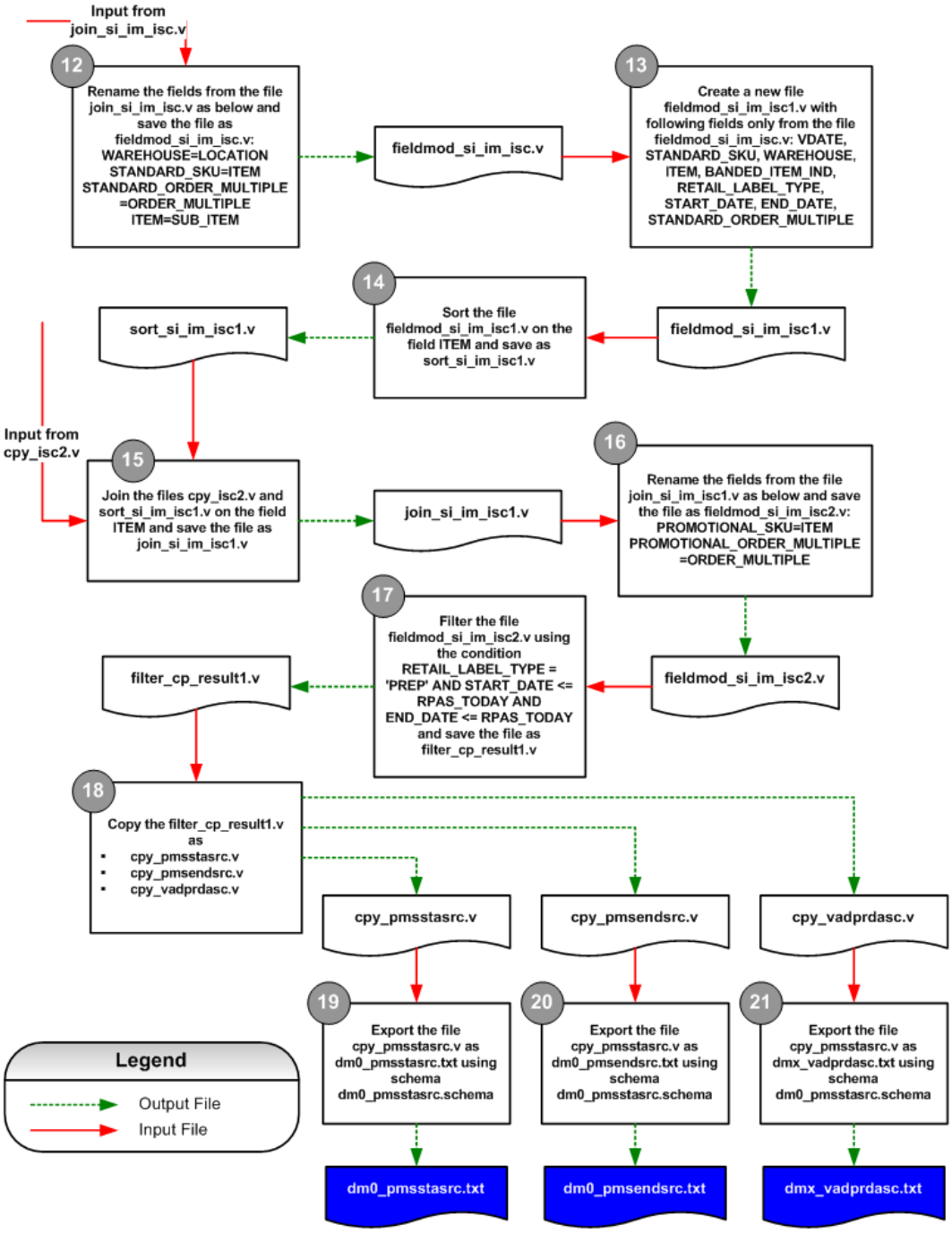
Filtering Conditions

```
isc.PRIMARY_COUNTRY_IND = 'Y' AND im.ITEM = isc.ITEM AND im.ITEM = isup.ITEM AND
im.STATUS = 'A' AND im.TRAN_LEVEL = im.ITEM_LEVEL AND im.INVENTORY_IND = 'Y' AND
im.AIP_CASE_TYPE = 'I' AND im.PACK_IND = 'N' AND im.FORECAST_IND = 'Y' AND
isup.SUPPLIER = isc.SUPPLIER AND NVL(isup.SUPP_DISCONTINUE_DATE,
to_date('${VDATE}','yyyymmdd')+1) > to_date('${VDATE}','yyyymmdd')
```

Transformation Process – Substitute Items



Substitute Items Transformation Process Diagram (1 or 2)



Substitute Items Transformation Process Diagram (2 or 2)

Final dm0_pmsstasrc.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Promotional Start Dates	Contains warehouse, promotional SKU, start date etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_sub_items.ksh
Schema File	aipt_dm0_pmsstasrc.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SUB_ITEMS_DETAIL, ITEM_SUPP_COUNTRY, V_PACKSKU_QTY, ITEM_MASTER		Target Object Name	dm0_pmsstasrc.txt
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SUB_ITEMS_DETAIL	LOCATION	Location	Number	(10,0)
SUB_ITEMS_DETAIL	SUB_ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size / Inner Pack Size / Quantity	Number	(12,4)
SUB_ITEMS_DETAIL	START_DATE	Start Date	Date	N/A

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
WAREHOUSE	Warehouse	int	20	N/A
PROMOTIONAL_SKU	Promotional SKU	string	20	N/A
PROMOTIONAL_ORDER_MULTIPLE	Order Multiple	int	4	N/A
START_DATE	Promotion Start Date	date	8	N/A

Filtering Conditions

None.

Final dm0_pmsendsrc.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Promotional End Date	Contains warehouse, promotional SKU, end date, etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_sub_items.ksh
Schema File	aipt_dm0_pmsendsrc.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SUB_ITEMS_DETAIL, ITEM_SUPP_COUNTRY, V_PACKSKU_QTY, ITEM_MASTER		Target Object Name	dm0_pmsendsrc.txt
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SUB_ITEMS_DETAIL	LOCATION	Location	Number	(10,0)
SUB_ITEMS_DETAIL	SUB_ITEM	Substitute Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size / Inner Pack Size / Quantity	Number	(12,4)
SUB_ITEMS_DETAIL	END_DATE	End Date	Date	N/A

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
WAREHOUSE	Warehouse	int	20	N/A
PROMOTIONAL_SKU	Promotional SKU	string	20	N/A
PROMOTIONAL_ORDER_MULTIPLE	Order Multiple	int	4	N/A
END DATE	Promotion End Date	date	8	N/A

Filtering Conditions

None.

Final dmx_vadprdasc.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Value Added Commodities	Contains the promotional SKUs for standard SKUs.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_sub_items.ksh
Schema File	aipt_dmx_vadprdasc.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SUB_ITEMS_DETAIL, ITEM_MASTER, V_PACKSKU_QTY, ITEM_SUPP_COUNTRY		Target Object Name	dmx_vadprdasc.txt
			Target Load Type	Full Load

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SUB_ITEMS_DETAIL	SUB_ITEM	Substitute Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size / Inner Pack Size / Quantity	Number	(12,4)
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, QTY	Supplier Pack Size / Inner Pack Size / Quantity	Number	(12,4)

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
PROMOTIONAL_SKU	Promotional SKU	string	20	N/A
PROMOTIONAL_ORDER_MULTIPLE	Promotional SKU Order Multiple	int	4	N/A
STANDARD_SKU	Standard SKU	string	20	N/A
STANDARD_ORDER_MULTIPLE	Standard SKU Order Multiple	int	4	N/A

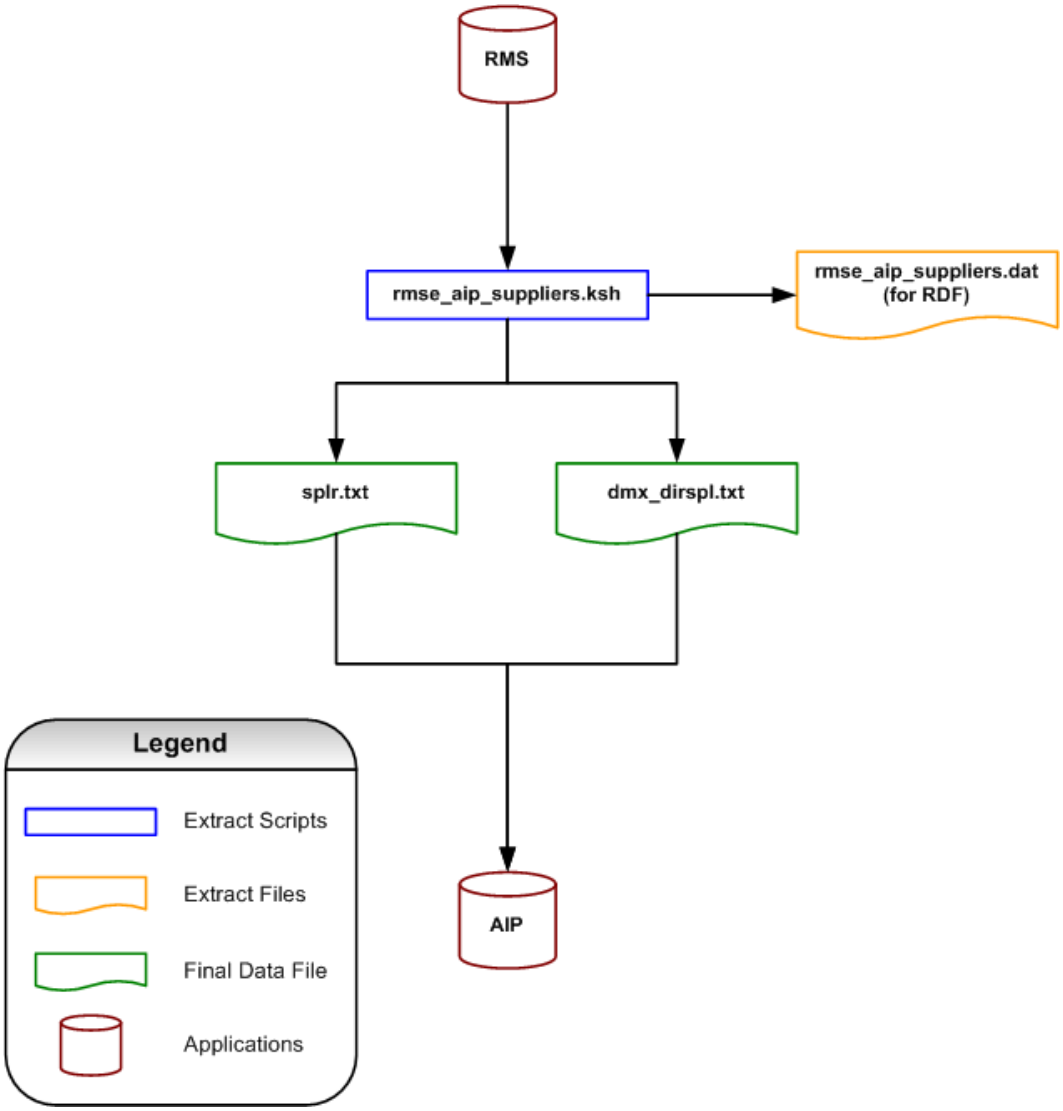
Filter Conditions

None.

RMS-AIP Supplier Mapping

Supplier Data Flow

No transformation required Supplier Feed. The extract program directly produces files required by AIP.



Supplier Data Flow Diagram

Final splr.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Supplier Hierarchy	Contains Supplier number and name.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_suppliers.ksh
Schema File	rmse_aip_splr.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SUPS		Target Object Name	splr.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SUPS	SUPPLIER	Supplier	Number	(10,0)
SUPS	SUP_NAME	Supplier Name	Varchar2	32

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
SUPPLIER	Supplier	int	20	N/A
SUPPLIER_DESCRIPTION	Supplier Description	string	40	N/A

Filtering Conditions

```
SUPS.SUP_STATUS='A'
```

Direct Supplier Extract

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Direct Suppliers	Contains the supplier and direct supplier flag information.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_suppliers.ksh
Schema File	rmse_aip_dmx_dirsplr.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	SUPS		Target Object Name	dmx_dirsplr.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
SUPS	SUPPLIER	Supplier	Number	(10,0)
SUPS	DSD_IND	Direct Supplier Indicator	Varchar2	1

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
SUPPLIER	Supplier	int	20	N/A
DIRECT_SUPPLIER	Direct Supplier Indicator	string	1	DECODE (DSD_IND, 'Y','1', 'N','0')

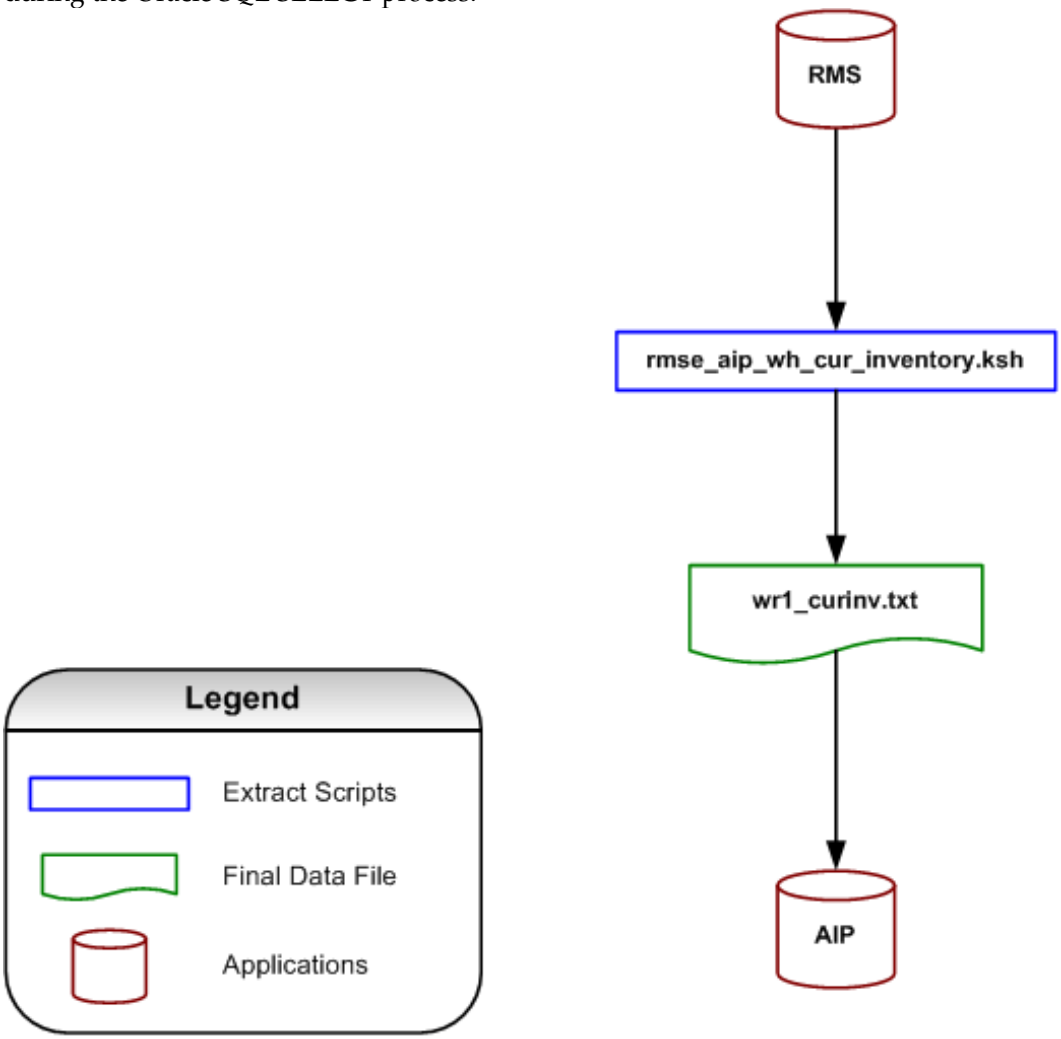
Filtering Conditions

```
SUPS.SUP_STATUS='A'
```

RMS-AIP Warehouse Current Inv Mapping

Warehouse Current Inventory Data Flow

The final output files required by AIP will be created directly by these extracts with all necessary data transformations performed in the extract modules. No separate data transformation modules will be created. The reason that all transformations will be done in the extract modules directly is because some of the mathematical operations needed (such as the MOD function) do not exist in RETL and therefore these must be done during the Oracle SQL SELECT process.



Warehouse Current Inventory Data Flow Diagram

Formal Packs Extract

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Warehouse Current Inventory	Contains Warehouse, SKU, Order Multiple and Inventory values.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_wh_cur_inventory.ksh
Schema File	N/A
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_LOC_SOH, ITEM_SUPP_COUNTRY, ALLOC_DETAIL, ALLOC_HEADER, ORDHEAD, ORDLOC, WH, V_PACKSKU_QTY		Target Object Name	wh_fp_inv.v
			Target Load Type	Full

Field Level Mappings – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_LOC_SOH	LOC	Order Number	Number	(10,0)
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_MASTER V_PACKSKU_QTY	SIMPLE_PACK_IND QTY	Pack Quantity	Number	(12,4)

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_LOC_SOH, ALLOC_DETAIL, ALLOC_HEAD, ORDHEAD, ORDLOC, ITEM_SUPP_COUNTRY, WH, V_PACKSKU_QTY	STOCK_ON_HAND, TSF_RESERVED_QTY, RTV_QTY, NON_SELLABLE_QTY, CUSTOMER_RESV, CUSTOMER_BACKORDER, QTY_DISTRO, QTY	Stock On Hand, Transfer Reserved, Pending RTV, Non Sellable, Customer Order Reserved, Customer Back Ordered Reserve, External Filling Qty, Pack Quantity	Number	(12,4)

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
WAREHOUSE	Warehouse	int	20	N/A
RMS_SKU	RMS SKU	string	20	N/A
ORDER_MULT	Order Multiple	int	4	DECODE (im.SIMPLE_PACK_IND,'Y', QTY,1)
WH_CUR_INV	Warehouse Current Inventory	int	8	Calculation: (STOCK_ON_HAND - (TSF_RESERVED_QTY+ RTV_QTY+ NON_SELLABLE_QTY+ CUSTOMER_RESV+ CUSTOMER_BACKORDER-QTY_DISTRO)) * QTY

Filtering Conditions

None.

Informal Packs Extract

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Warehouse Current Inventory	Contains Warehouse, SKU, Order Multiple and Inventory values.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_wh_cur_inventory.txt
Schema File	N/A
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_LOC_SOH, ITEM_SUPP_COUNTRY, ALLOC_DETAIL, ALLOC_HEADER, ORDHEAD, ORDLOC, WH, V_PACKSKU_QTY		Target Object Name	wh_nfp_inv.v
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_LOC_SOH	LOC	Order Number	Number	(10,0)
ITEM_MASTER	ITEM	Item	Varchar2	25
N/A	N/A	N/A	N/A	N/A
ITEM_SUPP_COUNTRY	SUPP_PACK_SIZE	Supplier Pack Size	Number	(12,4)
ITEM_SUPP_COUNTRY	INNER_PACK_SIZE	Inner Pack Size	Number	(12,4)
ITEM_SUPP_COUNTRY	SUPP_PACK_SIZE, TI, HI	Supplier Pack Size	Number	(12,4)

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_LOC_SOH, ALLOC_DETAIL, ALLOC_HEAD, ORDHEAD, ORDLOC, ITEM_SUPP_COUNTRY, WH, V_PACKSKU_QTY	PRIMARY_CASE_SIZE, STOCK_ON_HAND, TSF_RESERVED_QTY, RTV_QTY, NON_SELLABLE_QTY, CUSTOMER_RESV, CUSTOMER_BACKORDER, QTY_DISTRO, QTY	Stock On Hand, Transfer Reserved, Pending RTV, Non Sellable, Customer Order Reserved, Customer Back Ordered Reserve, External Filling Qty, Pack Quantity	Number	(12,4)
ITEM_LOC_SOH, ALLOC_DETAIL, ALLOC_HEAD, ORDHEAD, ORDLOC, ITEM_SUPP_COUNTRY, WH, V_PACKSKU_QTY	PRIMARY_CASE_SIZE, STOCK_ON_HAND, TSF_RESERVED_QTY, RTV_QTY, NON_SELLABLE_QTY, CUSTOMER_RESV, CUSTOMER_BACKORDER, QTY_DISTRO, QTY	Stock On Hand, Transfer Reserved, Pending RTV, Non Sellable, Customer Order Reserved, Customer Back Ordered Reserve, External Filling Qty, Pack Quantity	Number	(12,4)
ITEM_LOC_SOH, ALLOC_DETAIL, ALLOC_HEAD, ORDHEAD, ORDLOC, ITEM_SUPP_COUNTRY, WH, V_PACKSKU_QTY	PRIMARY_CASE_SIZE, STOCK_ON_HAND, TSF_RESERVED_QTY, RTV_QTY, NON_SELLABLE_QTY, CUSTOMER_RESV, CUSTOMER_BACKORDER, QTY_DISTRO, QTY	Stock On Hand, Transfer Reserved, Pending RTV, Non Sellable, Customer Order Reserved, Customer Back Ordered Reserve, External Filling Qty, Pack Quantity	Number	(12,4)
ITEM_LOC_SOH, ALLOC_DETAIL, ALLOC_HEAD, ORDHEAD, ORDLOC, ITEM_SUPP_COUNTRY, WH, V_PACKSKU_QTY	PRIMARY_CASE_SIZE, STOCK_ON_HAND, TSF_RESERVED_QTY, RTV_QTY, NON_SELLABLE_QTY, CUSTOMER_RESV, CUSTOMER_BACKORDER, QTY_DISTRO, QTY	Stock On Hand, Transfer Reserved, Pending RTV, Non Sellable, Customer Order Reserved, Customer Back Ordered Reserve, External Filling Qty, Pack Quantity	Number	(12,4)

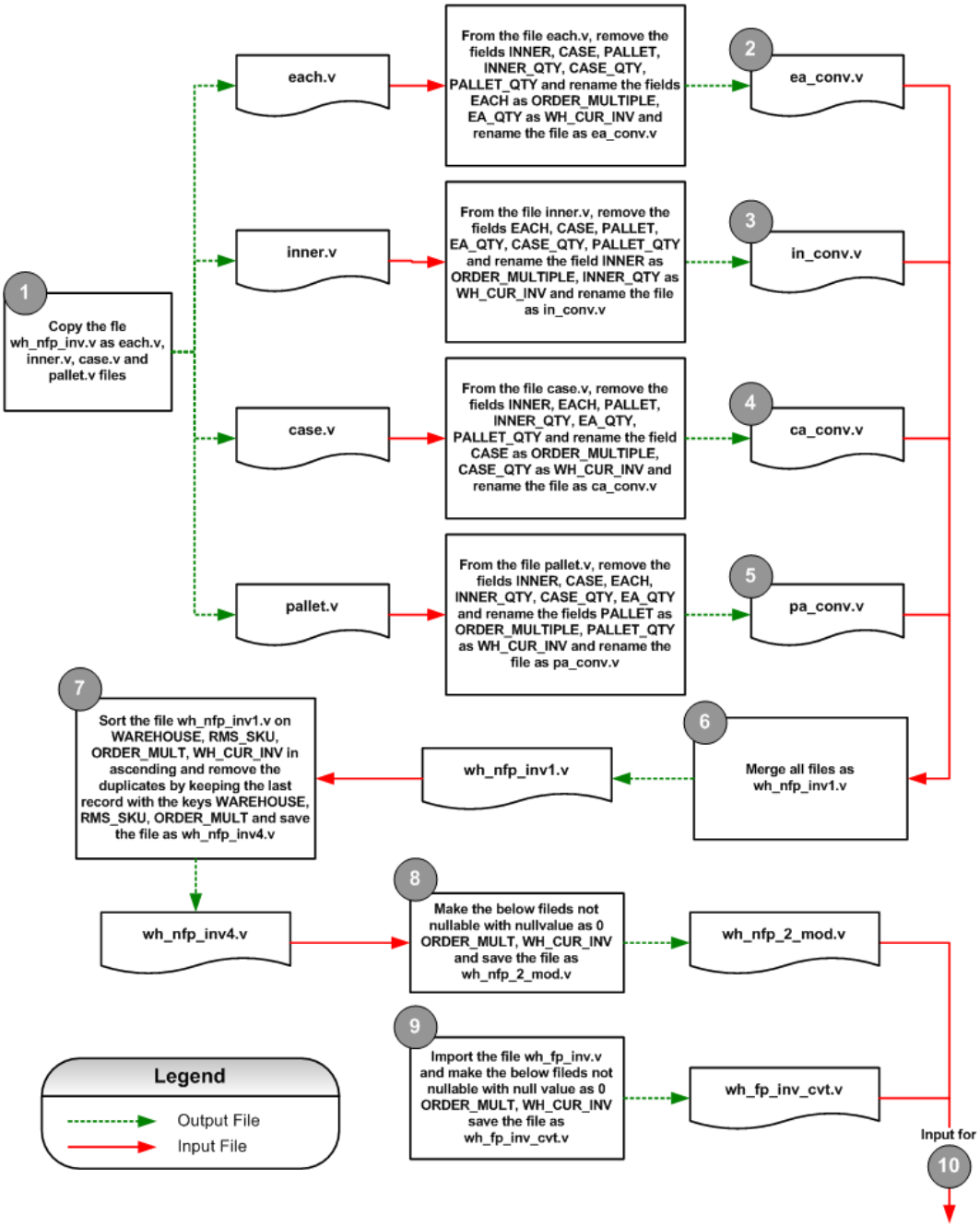
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
WAREHOUSE	Store	int	20	N/A
RMS_SKU	RMS SKU	string	20	N/A
EACH	Eaches	int	4	Hard coded as "1"
CASE	Case Pack Size	int	4	N/A
INNER	Inner Pack Size	int	4	N/A
PALLET	Pallet Size	int	4	(isc.TI * isc.HI * isc.SUPP_PACK_SIZE)
EA_QTY	Eaches Quantity	int	8	Calculated field
EA_QTY	Inner Quantity	int	8	Calculated field
EA_QTY	Case Quantity	int	8	Calculated field
EA_QTY	Pallet Quantity	int	8	Calculated field

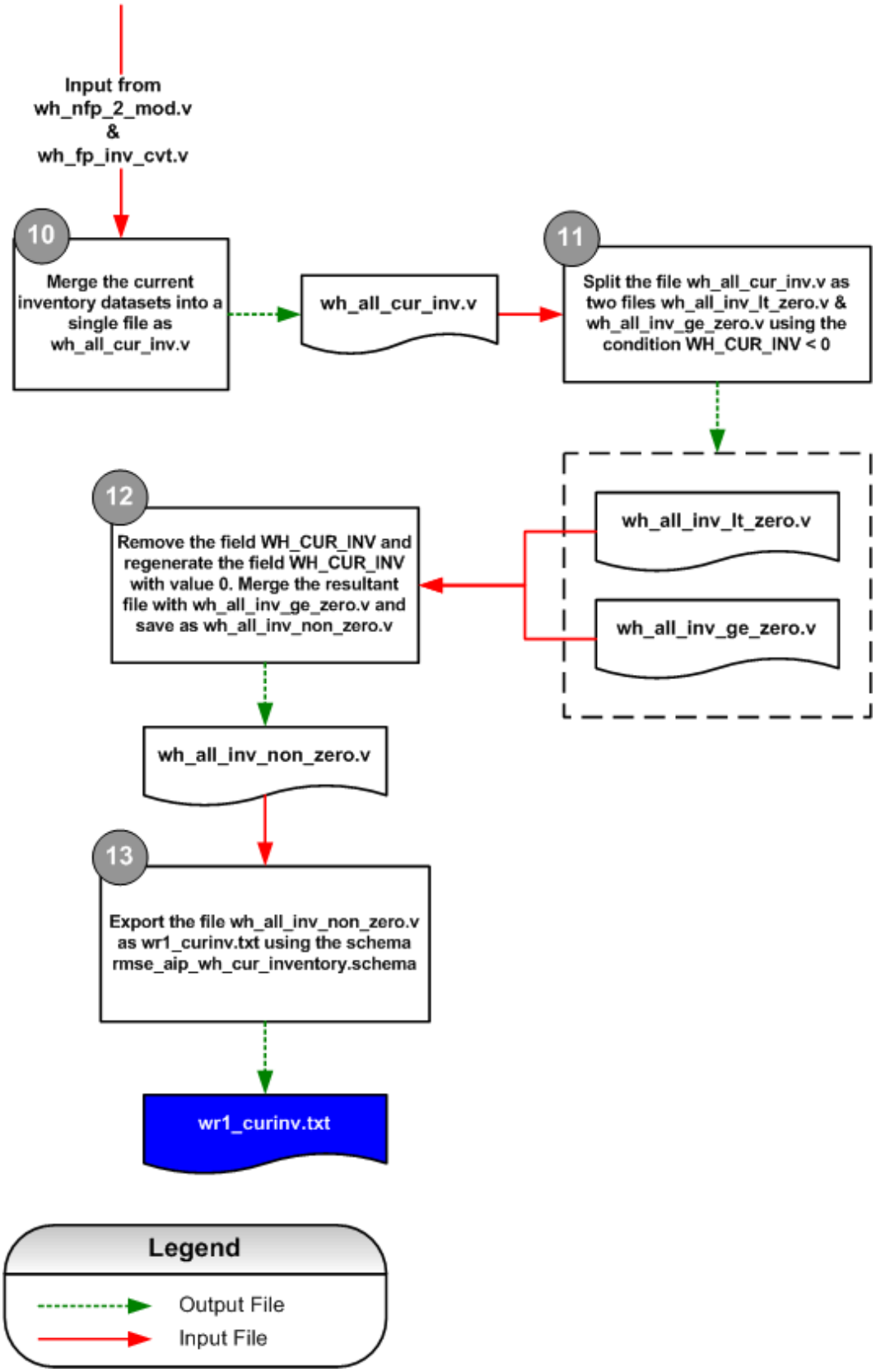
Filtering Conditions

None.

Warehouse Current Inventory Extract Process



Warehouse Current Inventory Extract Process Diagram (1 of 2)



Warehouse Current Inventory Extract Process Diagram (2 of 2)

Final wr1_curinv.txt Layout

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Warehouse Current Inventory	Contains Warehouse, SKU, Order Multiple and Inventory values.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_wh_cur_inventory.txt
Schema File	rmse_aip_store_cur_inventory.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	ITEM_MASTER, ITEM_LOC_SOH, ITEM_SUPP_COUNTRY, ALLOC_DETAIL, ALLOC_HEADER, ORDHEAD, ORDLOC, WH		Target Object Name	wr1_curinv.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
ITEM_LOC_SOH	LOC	Order Number	Number	(10,0)
ITEM_MASTER	ITEM	Item	Varchar2	25
ITEM_SUPP_COUNTRY V_PACKSKU_QTY	SUPP_PACK_SIZE INNER_PACK_SIZE, TI, HI QTY	Supplier Pack Size / Inner Pack Size / Quantity	Number	(12,4)
ITEM_LOC_SOH, ALLOC_DETAIL, ALLOC_HEAD, ORDHEAD, ORDLOC, ITEM_SUPP_COUNTRY, WH	STOCK_ON_HAND, TSF_RESERVED_QTY, RTV_QTY, NON_SELLABLE_QTY, CUSTOMER_RESV, CUSTOMER_BACKORDER, QTY_DISTRO	Stock On Hand, Transfer Reserved, Pending RTV, Non Sellable, Customer Order Reserved, Customer Back Ordered Reserve, External Filling Qty	Number	(12,4)

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
WAREHOUSE	Store	int	20	N/A
RMS_SKU	RMS SKU	string	20	N/A
ORDER_MULT	Order Multiple	int	4	
WH_CUR_INV	Each Quantity	int	8	Calculated field

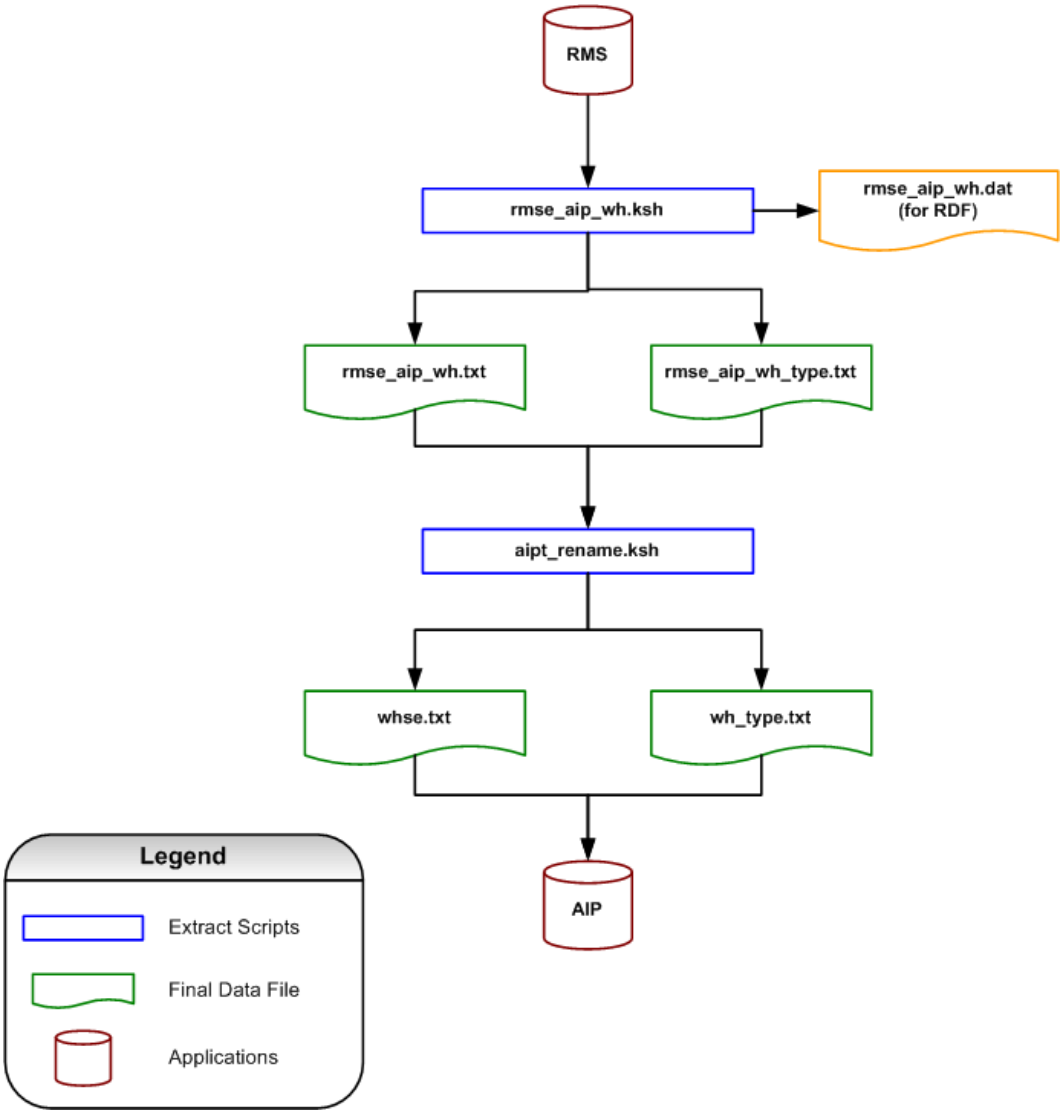
Filtering Conditions

None.

RMS-AIP Warehouse Mapping

Warehouse Data Flow

The transform script aipt_rename.ksh simply renames files. The output files of aipt_rename.ksh are whse.txt and wh_type.txt.



Warehouse Data Flow Diagram

Warehouse Extract

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Warehouse Hierarchy	Contains Warehouse, Warehouse name, type, etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	rmse_aip_wh.ksh
Schema File	rmse_aip_wh.schema
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	WH		Target Object Name	rms_copy.v & aip_copy.v
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
WH	WH	Warehouse	Number	(10,0)
WH	WH_NAME	Warehouse Name	Varchar2	20
WH	FORECAST_WH_IND	Warehouse Forecast Indicator	Varchar2	1
WH	STOCKHOLDING_IND	Stock Hold Indicator	Varchar2	1
WH	WH_TYPE	Warehouse Type	Varchar2	6

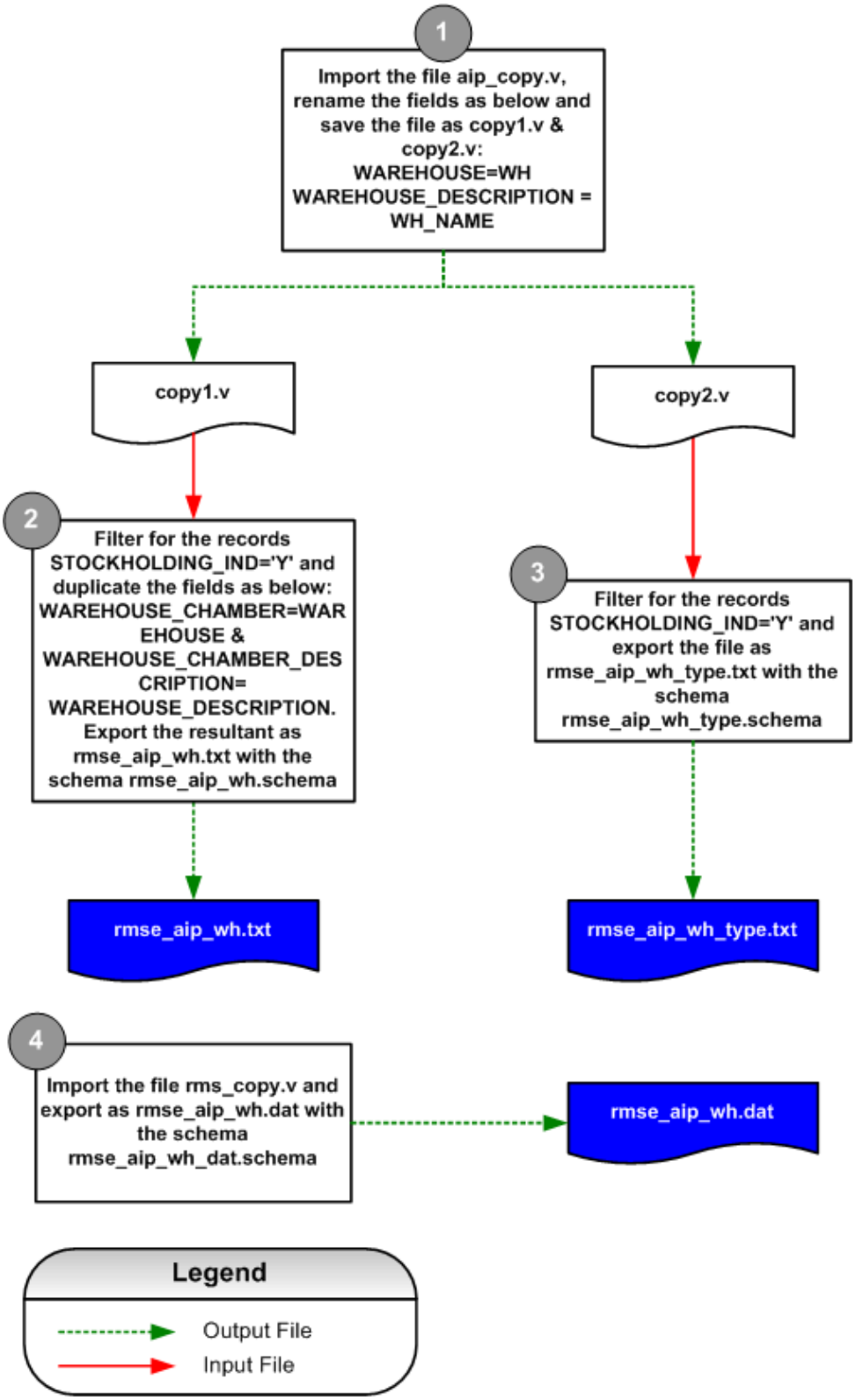
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
WH	Warehouse	int	20	N/A
WH_NAME	Warehouse Name	string	40	N/A
FORECAST_WH_IND	Warehouse Forecast Indicator	string	1	N/A
STOCKHOLDING_IND	Stock Hold Indicator	string	1	N/A
WH_TYPE	Warehouse Type	string	6	N/A

Filtering Conditions

None.

Warehouse Extract Process



Warehouse Extract Process Diagram

Final Warehouse File Layout (whse.txt)

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Warehouse Hierarchy	Contains Warehouse, Warehouse name, type, etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_rename.ksh
Schema File	N/A
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	WH		Target Object Name	whse.txt
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
WH	WH	Warehouse	Number	(10,0)
WH	WH_NAME	Warehouse Name	Varchar2	40
WH	WH	Warehouse	Number	(10,0)
WH	WH_NAME	Warehouse Name	Varchar2	40

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
WAREHOUSE_CHAMBER	Warehouse Chamber	string	20	Same as Warehouse
WAREHOUSE_CHAMBER_DESCRIPTION	Warehouse Chamber Description	string	40	Same as Warehouse Description
WAREHOUSE	Warehouse	int	20	N/A
WAREHOUSE_DESCRIPTION	Warehouse Description	string	40	N/A

Filtering Conditions

```
STOCKHOLDING_IND='Y'
```

Final Warehouse Type File Layout

Data Element Details

Data Type	Data Element Name	Data Description
Foundation	Warehouse Hierarchy	Contains Warehouse, Warehouse name, type, etc.

Extracting Program Details

Program Type	Shell script wrapper around RETL
Program Name	aipt_rename.ksh
Schema File	N/A
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	RMS		Target Object Type	Fixed Length Text File
Source Table(s)/File(s)	WH		Target Object Name	wh_type.ksh
			Target Load Type	Full

Field Level Mapping – Source

Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
WH	WH	Warehouse	Number	(10,0)
WH	WH_TYPE	Warehouse Type	Varchar2	6

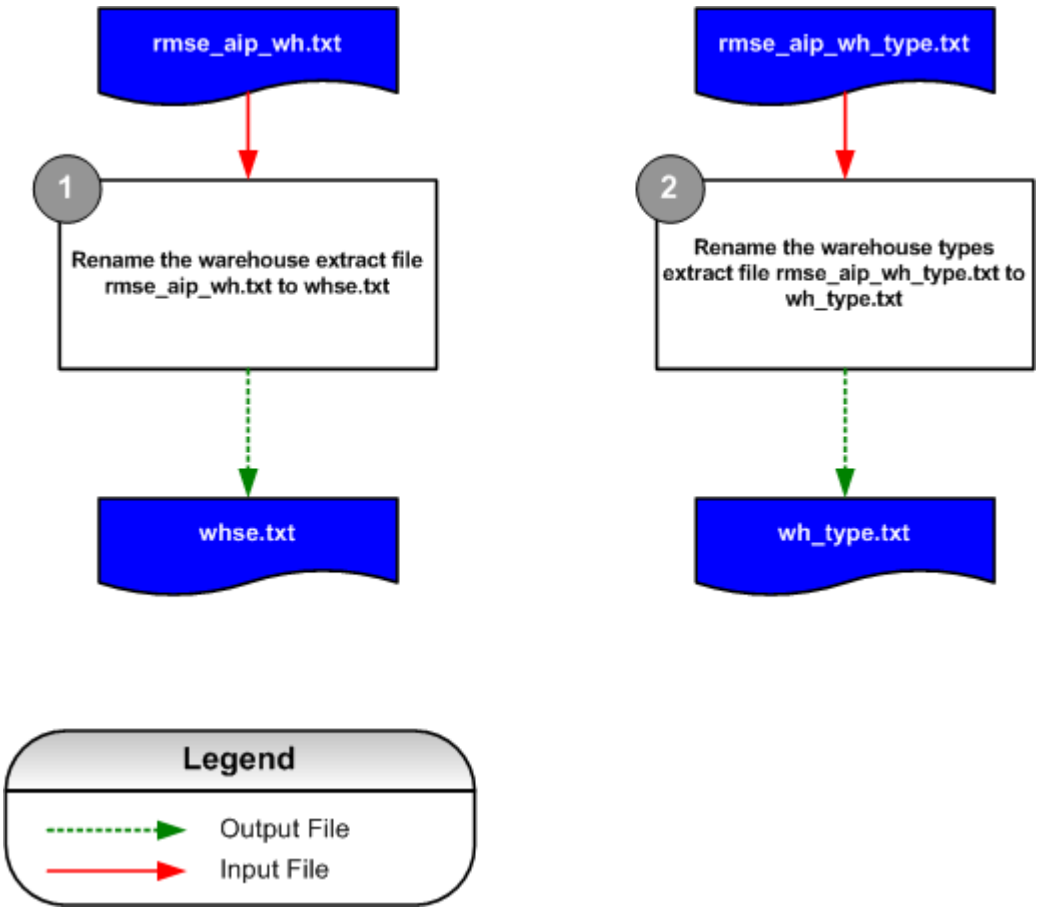
Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Target Field Length	Condition/Format
WAREHOUSE	Warehouse	string	20	Same as Warehouse
WAREHOUSE_TYPE	Warehouse Type	string	40	Same as Warehouse Description

Filtering Conditions

```
STOCKHOLDING_IND='Y'
```

Transformation Process – Warehouse



Warehouse Transform Process Diagram

10

RDF Integration

RMS to AIP Data

AIP receives only measure data from Retail Demand Forecasting system.

Measure Data

Overview

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.txt	Daily Store Forecast Standard Deviation	RDF
5	sr0_fcterrlvl2.txt	Weekly Store Forecast Standard Deviation	RDF
6	sr0_frclvl1_*[1..n]*.txt	Daily Store Demand Forecast	RDF
7	sr0_frclvl2_*[1..n]*.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 displayed in the tables below.

Technical Details of Load Process

For technical details of the processing and loading of the forecasting system measure data, read 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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	Int	"100048001 "
Value	RDF Detail Alert	Boolean	"1" NaVal= false

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

Note that the RDF extract will only contain stores even though AIP reads the store into the destination stocking point dimension which 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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	Int	"100048001"
Value	RDF Detail Alert Mask	Boolean	"1" NaVal= false

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	Int	"5 " NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

Example of sr0_rdfdtdcnt.txt Extract File Format:

```
S303                    118525                  5
```

sr0_fcterrlvl1.txt

Data Element Details

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

Extracting Program Details

Program Type	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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_fcterrlvl1
Source Object Name	sr0_fcterrlvl1.txt		Target Object Database	data/sr0_fcterrlvl1
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	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	Int	"100076002 "
Value	Daily Store Forecast Standard Deviation	Real	"1.000000" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

Example of sr0_fcterrlvl1.txt 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 value.

Extracting Program Details

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

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
SKU	SKU	Int	"100076002 "
Value	Weekly Store Forecast Standard Deviation	Real	"1.000000" NaVal = 0

Formatting Conditions

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

Example of sr0_fcterrlvl2.txt Extract File Format:

```
S441090             100048001           1.000000
```

sr0_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 value.

Extracting Program Details

Program Type	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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_*.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	8
STR	Store	9	20
SKU	SKU	29	20
VALUE	Daily Store Demand Forecast	49	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 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
SKU	SKU	Int	"100049004 "
Value	Daily Store Demand Forecast	Real	"1000 " NaVal = 0

Formatting Conditions

All Stores should be prefixed with an “S” (case sensitive)and all Day values should be prefixed with a “D” (case sensitive).

Example of sr0_frclvl1.txt Extract File Format:

```
D20060420S411                100049004            1000
```

Note: The client may partition this data file for space or size considerations, e.g. sr0_frclvl1_1.txt, sr0_frclvl1_2.txt, sr0_frclvl1_3.txt, etc.

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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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.txt		Target Object Database	data/sr0_frclvl2
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	Weekly Store Demand Forecast	49	8

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
WEEK	Week	String	" W25_2005"
STR	Store	String	"S411 "
SKU	SKU	Int	"100044001 "
Value	Weekly Store Demand Forecast	Real	"1000 " NaVal = 0

Formatting Conditions

All Stores should be prefixed with an “S” (case sensitive)and all Week values should be prefixed with a “W”.

Example of sr0_frclvl2.txt Extract File Format:

```
W25_2005S411                100044001           1000
```

> **Note:** The client may partition this data file for space or size considerations, e.g. sr0_frclvl2_1.txt, sr0_frclvl2_2.txt, sr0_frclvl2_3.txt, etc.

sr0_dayslsld.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	RDF Daily Sales	Real measure at SKU/store/day level indicating the total daily store sales. Used in the calculation of SRP alerts. Loaded from RDF.

Extracting Program Details

Program Type	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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_dayslsld
Source Object Name	sr0_dayslsld.txt		Target Object Database	data/sr0_dayslsld
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	RDF Daily Sales	50	8

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
DAY	Day	String	"D20040109"
STR	Store	String	"S303 "
SKU	SKU	String	“118525 “
Value	RDF Daily Sales	Real	"10.0 " NaVal = -1

Formatting Conditions

All Stores should be prefixed with an “S” (case sensitive) and all Days should be prefixed with a “D” (case sensitive).

Example of sr0_dayslsld.txt Extract File Format:

```
D20040109S303                 118525              10.0
```

11

External System Integration

External System to AIP Data

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

- Hierarchy data
- Measure data

Hierarchy Data

The table below displays 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

The table below displays the measure files 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
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
ipcmtmtde.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
iphldbckqtyi.txt	Hold Back Quantity	External
ipldssi.txt	Loaded Safety Stock	External

File Name	Description	Source
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
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*

File Name	Description	Source
sku_cost.dat	SKU Cost	External*
sku_weight_volume.dat	SKU Weight and Volume	External*

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.

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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	40

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

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	External Systems		Target Object Type	RPAS Measures & 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

All Warehouses should be prefixed with a "W" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

Example of default_wh.txt Extract File Format:

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

Load Notes

AIP RPAS batch processes split this data file into two flat files which 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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	Store Format	String	"1 "
Commodity Code	AIP SKU	String	"100053003 "
Pack Size	Pack Size	int	"36 "
Supplier Code	Supplier	String	"V505 "
Start Date	Start Date	String	"20050101"
End Date	End Date	String	"20051201"

Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive).

Example of direct_store_format_pack_size.txt file:

```
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 & End dates.

Extracting Program Details

Program Type	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	int	"36 "
Supplier Code	Supplier	String	"V505 "
Start Date	Start Date	String	"20050101"
End Date	End Date	String	"20051201"

Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

Example direct_store_pack_size.txt file:

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

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	External Systems		Target Object Type	RPAS Measure
Source Table(s)/File(s)	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
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 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Value	Off Sale Effective Date	date	YYYYMMDD

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

Example dm0_ofseffdt_ file:

```
S303            100072001           20070101
S309            100072001           20070101
S348            100072001           20070101
S402            100072001           20070101
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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	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 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Value	On Sale Effective Date	date	YYYYMMDD

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

Example dm0_onseffdt_ file:

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

dmx_pcktype.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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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

None.

Example of dmx_pcktyp.txt File:

```
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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Data Type	Condition/Format
Supplier	SPLR Dimension	String	"V166 "
Ship To	Ship To Code	String	"XD_GS " NaVal = "

Formatting Conditions

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

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

All Weeks should be prefixed with "W" (case sensitive).

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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Int	"100048001 "
Value	Total Store Average Rate Of Sales	Real	"123.5678" NaVal= -1

Formatting Conditions

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

Example of ipavgrtslsi.txt Exact File Format:

```
W1090               100048001           123.5678
```

ipcmtmtde.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	SPQ Commitment Type Exception	Composite Parameter

Extracting Program Details

Program Type	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	ipcmtmtde
Source Object Name	ipcmtmtde.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

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive). All Weeks should be prefixed with a “W” (case sensitive).

Example of ipcmtmtde.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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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
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	Int	"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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Int	"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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	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	Int	"100048001 "
Value	Hold Back Quantity	Real	"280 " NaVal = -1

Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive), all Warehouses should be prefixed with a "W" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

Example of iphldbckqtyi.txt Extract File Format:

```
D20050820W1090              100048001          280
```

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Int	"100048001 "
Value	Loaded Safety Stock Value	Real	"520.50000" NaVal =0

Formatting Conditions

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

Example of ipldssi.txt Extract File Format:

```
W1090                100048001           520.5000
W3066                100049004           520.5000
```

ipodcmti.txt

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Order Commit	Contains Week, SKU and Order Commit value.

Extracting Program Details

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

Field Level Mapping – Source

Source Fields	Source Field Description	Field Start Position	Field Width
WEEK	Week of the Year	1	8
SKU	SKU	9	20
Value	Order Commit	29	8

Field Level Mapping – Target

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
WEEK	Week	String	"W25_2005"
SKU	SKU	Int	"100055017 "
Value	Order Commit	Real	"1200.000" NaVal= -1

Formatting Conditions

None.

Example of ipodcmti.txt Extract File Format:

```
W25_2005100055017          1200.000
W26_2005100055017          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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Data Type	Condition/Format
DSTK	Destination Stocking Point	String	"W1090 "
SKU	SKU	int	"100046031 "
Value	Replenishment Type Code Value	string	"H " NaVal = ''

Formatting Conditions

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Data Type	Condition/Format
DSTK	Destination Stocking Point	String	"W1090 "
SKU	SKU	int	"100033002 "
Value	Replenishment Type code value	string	"A " NaVal = "

Formatting Conditions

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

Example of iprpltcdi.txt Extract File Format:

```
W1090                100046031            A
W3066                100033002            0
```

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 via the Sales Week Range or Average Weekly Sales replenishment methods.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Warehouse	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	Int	"100048001 "
Value	Historical Weekly Sales value	Real	"105.0000" NaVal = 0

Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive), all Warehouses should be prefixed with a "W" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

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

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

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

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

Example of ipwhhldcpci.txt Extract 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, Attribute Value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Int	"1 "
Pack Quantity	Pack Quantity	String	"0 "
Attribute Type	Attribute Type	String	"WHSED "
Attribute Value	Attribute Value	String	"Y"

Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive), all Warehouses should be prefixed with a "W" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

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, Attribute Value.

Extracting Program Details

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

Filed 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

Filed Level Mapping – Target

Target Data Field Name	Target Field Description	Data Type	Condition/Format
Attribute Type	Attribute Type	String	"WHSED "
Attribute Type Description	Attribute Type Description	String	"Warehouse Indicator "

Formatting Conditions

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

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

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	External Systems		Target Object Type	RPAS Measures & 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 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Existing Store	Existing Store	String	"S402 "
Open Date	Open Date	String	"20051201"

Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive), all Warehouses should be prefixed with a "W" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

Example of sister_store.txt **Extract File Format:**

```
S303            S402            20051201
S348            S309            20051201
```

Load Notes

AIP RPAS Batch process split this data file into two flat files which are loaded into two AIP RPAS measures. The original data file is exported to AIP Oracle and loaded by 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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	Daily

Data Source and Target Details

Data Source Details			Target Data Details	
Data Origin System	External Systems		Target Object Type	RPAS Measures & 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 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
Existing Warehouse	Existing Warehouse	String	"W1091 "
Open Date	Open Date	String	"20051201"

Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive), all Warehouses should be prefixed with a "W" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

Example of sister_wh.txt Extract File Format:

```
W1090           W1091           20051201
W1105           W1170           20051201
```

Load Notes

AIP RPAS Batch process split this data file into two flat files which are loaded into two AIP RPAS measures. The original data file is exported to AIP Oracle and loaded by 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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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_
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	int	"100055017 "
AD	Advertisement	String	"IC0604051 "
Value	Store Ads	Boolean	"1" NaVal = false

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"100055017 "
Value	Store Ads Grand Opening	Real	"123.5678" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 Value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"100055017 "
Value	Store Ads Inserts	Real	"1.000000" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"100055017 "
Value	Store Ads Others	Real	"1 " NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"100055017 "
Value	Store Ads run on press	Real	"1.000000" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"100055017 "
Value	Store Adjusted Sales	Real	"5 " NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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_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	int	"100076002 "
Value	Store Average Weekly Rate of Sale Loaded	Real	"200.0000" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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"
SKU	SKU	String	"S441105 "
STR	Store	int	"100057004 "
Value	Store Customer Orders	Real	"1 " NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"118525 "
Value	Daily Short Code Sales	Real	"123.4500" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"100055009 "
Value	Store Expected Write-Off	Real	"5 " NaVal = -1

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"100055009 "
Value	Store Historical Lost Sales	Real	"1000.500" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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_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	int	"163460 "
Value	Inventory Adjustments	Real	"123.4500" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"100055009 "
Value	Store Known Demand	Real	"1000.500" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Int	"100048001 "
Value	Store Replenishment Type Code	String	"A " NaVal =0

Formatting Conditions

All Stores should be prefixed with an “S” (case sensitive).

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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	Data Type	Condition/Format
Store	Store	String	"S303 "
SKU	SKU	Int	"100048001 "
Value	Store Replenishment Subtype Code	String	"A " NaVal =0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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 "
SKU	SKU	Int	"100048001 "
Value	Store Loaded Safety Stock Value	Real	"155.0000" NaVal =0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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

All Supplier values should be prefixed with a “V” (case sensitive), all Warehouses should be prefixed with a “W” (case sensitive) and all Stores should be prefixed with an “S” (case sensitive).

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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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	Int	"118525 "
Value	Loaded Weekly Base Sales Forecast	Real	"1.00000" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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 value.

Extracting Program Details

Program Type	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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_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	int	"168941 "
Value	Waste Adjustments	Real	"123.4500" NaVal = 0

Formatting Conditions

All Stores should be prefixed with an "S" (case sensitive).

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	N/A
Program Name	N/A
Schema File	N/A
Program Frequency	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 value.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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	int	"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 & end date.

Extracting Program Details

Program Type	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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 "
Commodity Code	AIP SKU	String	"100052001 "
Pack Size	Pack Size	int	"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

All Supplier values should be prefixed with a "V" (case sensitive), all Warehouses should be prefixed with a "W" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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
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	int	"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

All Supplier values should be prefixed with a "V" (case sensitive), all Warehouses should be prefixed with a "W" (case sensitive) and all Stores should be prefixed with an "S" (case sensitive).

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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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.

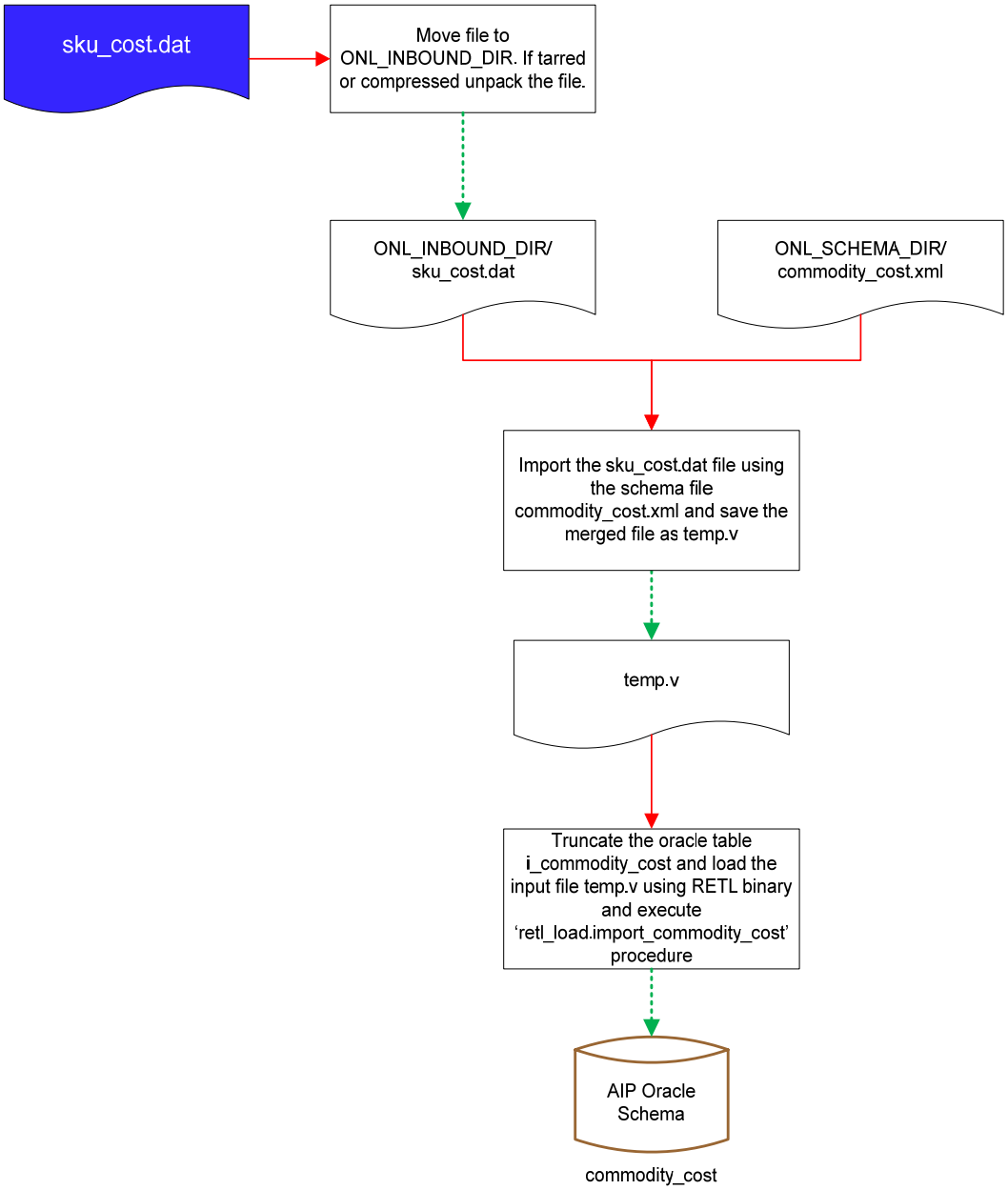
Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive), and all Warehouses should be prefixed with a "W" (case sensitive).

Example of sku_cost.dat Extract File Format:

```
"100052001          V11111          W36          15.9900          "
```

SKU Cost – Online Load Process



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	N/A
Program Name:	N/A
Schema File:	N/A
Program Frequency	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 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
commodity_volume	SKU volume	sfloat	"0.9560 "

Filtering Conditions

None.

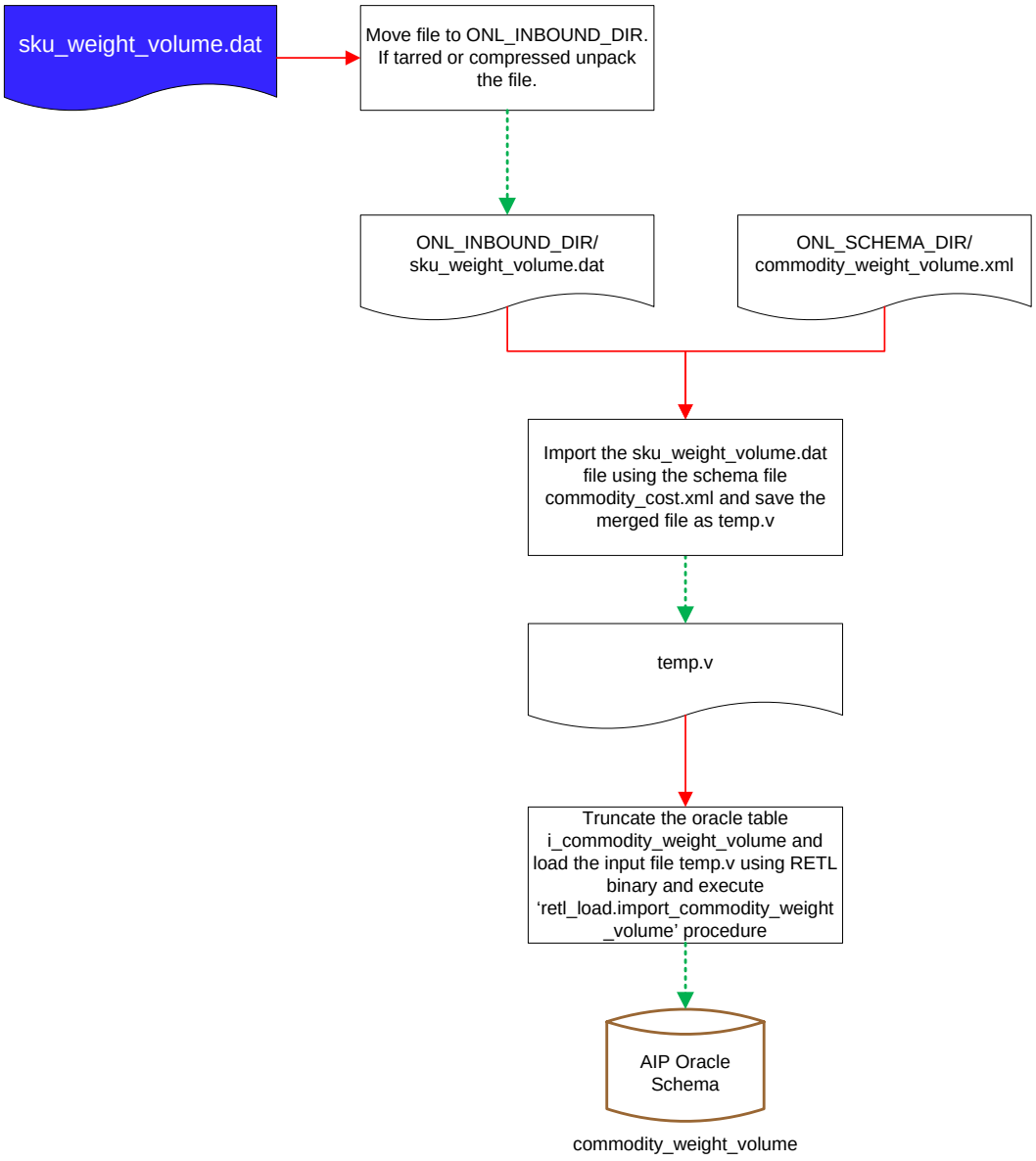
Formatting Conditions

All Supplier values should be prefixed with a "V" (case sensitive).

Example of commodity_weight_volume.dat Extract File Format:

```
"100052001          V11111          3.0000          0.9560          "
```

SKU Weight and Volume – Online Load Process



SKU Weight and Volume – AIP Oracle Load Process Diagram

12

RO Integration

The integration scheme is broken into two by location type, stores and warehouses. This serves two purposes

- First, the optimization system can be implemented for stores and not warehouses. If in the future, the optimization system does consider warehouses
- Second, AIP can be setup to run a Stores-first implementation which would not execute warehouse replenishment and therefore would not require optimization.

When AIP is integrated with RO it is assumed that the RO Store hierarchy has an 'S' prefix. Similarly a warehouse hierarchy, if defined from any system, would have a 'W' prefix.

Store Measure Data

The data mapping below is for stores only.

File and Measure Summary

The table below displays the measure files AIP receives from RO.

File Name	Measures Loaded
STR_MINMAX.[txt|cvs]	sr0_minstk_i, sr0_maxstk_i and sr0_rplmtd_i
STR_DYNAMIC.[txt|cvs]	sr0_svclvl_i, sr0_isd_i and sr0_rplmtd_i
STR_TIMESUPPLY.[txt|cvs]	sr0_mints_day_i, sr0_maxts_day_i, sr0_ts_hzn_i and sr0_rplmtd_i
STR_HYBRID.[txt|cvs]	sr0_mints_day_i, sr0_isd_i and sr0_rplmtd_i
STR_POISSON.[txt|cvs]	sr0_svclvl_i, sr0_isd_i and sr0_rplmtd_i
STR_MINSS.[txt|cvs]	sr0_minss_unt_i
STR_ROUpdate.[txt|cvs]	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.

Data Type	Data Element Name	Data Description
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	Korn Shell Script
Program Name	ro_export_to_aip.sh
Schema Files	exportMinMax.xml, createFile.xml and transferFilePositions.xml
Program Frequency	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 Names	sr0_minstk_i, sr0_maxstk_i and sr0_rplmtd_i
Source Object Name	STR_MINMAX.[txt|cvs]		Target Object Databases	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
aipreplpval1_	Replenishment Parameter 1	50	10

Source Fields	Source Field Description	Field Start Position	Field Width
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	"D20081231"
STR_	Store	String	"S1001 "
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 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). Store values should be prefixed with 'S'.

Example of STR_MINMAX.txt File:

```
"D20081231S1001          123456          123.456   123.456   1        "
```

Example of STR_MINMAX.csv File:

```
"D20081231,S1001,123456,123.456,123.456,1"
```

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 Repl Method. 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.

Data Type	Data Element Name	Data Description
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	Korn Shell Script
Program Name	ro_export_to_aip.sh
Schema Files	exportDynamic.xml, createFile.xml and transferFilePositions.xml
Program Frequency	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 Names	sr0_svclvl_i, sr0_isd_i and sr0_rplmtd_i
Source Object Name	STR_DYNAMIC.[txt|cvs]		Target Object Databases	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	"D20081231"
STR_	Store	String	"S1001 "
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 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). All Store values should be prefixed with 'S'.

Example of STR_DYNAMIC.txt File:

```
"D20081231S1001          123456          123.456  123.456          3"
```

Example of STR_DYNAMIC.csv File:

```
"D20081231,S1001,123456,123.456,123.456,3"
```

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	Korn Shell Script
Program Name	ro_export_to_aip.sh
Schema Files	exportTimeSupply.xml, createFile.xml and transferFilePositions.xml
Program Frequency	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 Names	sr0_mints_day_i, sr0_maxts_day_i, sr0_ts_hzn_i and sr0_rplmtd_i
Source Object Name	STR_TIMESUPPLY.[txt|cvs]		Target Object Databases	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	"D20081231"
STR_	Store	String	"S1001 "
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 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). All Store values should be prefixed with 'S'.

Example of STR_TIMESUPPLY.txt File:

```
"D20081231S1001          123456          123.456  123.456  123.456  2"
```

Example of STR_TIMESUPPLY.csv File:

```
"D20081231,S1001,123456,123.456,123.456,123.456,2"
```

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	Korn Shell Script
Program Name	ro_export_to_aip.sh
Schema Files	exportHybrid.xml, createFile.xml and transferFilePositions.xml
Program Frequency	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 Names	sr0_mints_day_i, sr0_isd_i and sr0_rplmtd_i
Source Object Name	STR_HYBRID.[txt|cvs]		Target Object Databases	data/sr0_mints_day_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	"D20081231"
STR_	Store	String	"S1001 "
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 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). Store values should be prefixed with 'S'.

Example of STR_HYBRID.txt File:

```
"D20081231S1001          123456          123.456   123.456          5"
```

Example of STR_HYBRID.csv File:

```
"D20081231,S1001,123456,123.456,123.456,5"
```

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 Repl Method. 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	Korn Shell Script
Program Name	ro_export_to_aip.sh
Schema Files	exportPoisson.xml, createFile.xml and transferFilePositions.xml
Program Frequency	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 Names	sr0_svclvl_i, sr0_isd_i and sr0_rplmtd_i
Source Object Name	STR_POISSON.[txt|cvs]		Target Object Databases	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	"D20081231"
STR_	Store	String	"S1001 "
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 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). All Store values should be prefixed with 'S'.

Example of STR_POISSON.txt File:

```
"D20081231S1001 123456 123.456 123.456 7"
```

Example of STR_POISSON.csv File:

```
"D20081231,S1001,123456,123.456,123.456,7"
```

STR_MINSS

Data Element Details

Data Type	Data Element Name	Data Description
Measure	Store Min Safety Stock Units	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	Korn Shell Script
Program Name	ro_export_to_aip.sh
Schema Files	exportMinSafetyStock.xml, createFile.xml and transferFilePositions.xml
Program Frequency	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|cvs]		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	"D20081231"
STR_	Store	String	"S1001 "
SKU_	SKU	String	"123456 "
sr0_minss_unt_i	Store Min Safety Stock Units	Real	"123.456 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). Store values should be prefixed with 'S'.

Example of STR_MINSS.txt File:

```
"D20081231S1001          123456          123.456  "
```

Example of STR_MINSS.csv File:

```
"D20081231,S1001,123456,123.456"
```

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	Korn Shell Script
Program Name	ro_export_to_aip.sh
Schema Files	exportRoUpdate.xml, createFile.xml and transferFilePositions.xml
Program Frequency	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|cvs]		Target Object Databases	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	"S1001 "
SKU_	SKU	String	"123456 "
iproupdtstri	Replenishment Optimization Update for Stores	Boolean	"1 "

Formatting Conditions

Store values should be prefixed with 'S'.

Example of STR_ROUpdate.txt File:

```
"S1001          123456          1       "
```

Example of STR_ROUpdate.csv File:

```
"S1001,123456,1"
```

Warehouse Data Interfaces

The mapping data below is for warehouses only. AIP supports the import of warehouse replenishment data however optimization of warehouse replenishment may not 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

The table below displays the measure files AIP receives from an optimization system that is capable of optimizing warehouses.

File Name	Measures Loaded
WH_MINMAX.[txt | cvs]	ipminstke, ipmaxstke and iprplmtde
WH_DYNAMIC.[txt | cvs]	ipsvclvle, ipisde and iprplmtde
WH_TIMESUPPLY.[txt | cvs]	ipmindaytse, ipmaxdaytse, iptshzne and iprplmtde
WH_HYBRID.[txt | cvs]	ipmindaytse, ipisde and iprplmtde
WH_MINSS.[txt | cvs]	ipssminunte
WH_ROUpdate.[txt | cvs]	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.
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	Korn Shell Script
Program Name	Unknown
Schema Files	Unknown
Program Frequency	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 Names	ipminstke, ipmaxstke and iprplmtde
Source Object Name	WH_MINMAX.[txt|cvs]		Target Object Databases	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

Source Fields	Source Field Description	Field Start Position	Field Width
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	"D20081231"
WH__	Warehouse	String	"W1001 "
SKU_	SKU	String	"123456 "
ipminstke	Minimum Stock Exception	Real	"123.456 "
ipmaxstke	Maximum Stock Exception	Real	"123.456 "
iprplmtde	Replenishment Method Exception	Integer	"1 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). All Warehouse values should be prefixed with a "W" (case sensitive).

Example of WH_MINMAX.txt File:

```
"D20081231W1001          123456          123.456  123.456  1       "
```

Example of WH_MINMAX.csv File:

```
"D20081231,W1001,123456,123.456,123.456,1"
```

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 Repl Method. 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	Korn Shell Script
Program Name	Unknown
Schema Files	Unknown
Program Frequency	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 Names	ipsvclvle, ipisde and iprplmtde
Source Object Name	WH_DYNAMIC		Target Object Databases	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

Source Fields	Source Field Description	Field Start Position	Field Width
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	"D20081231"
WH__	Warehouse	String	"W1001 "
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 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). All Warehouse values should be prefixed with a "W" (case sensitive).

Example of WH_DYNAMIC.txt File:

```
"D20081231W1001          123456          123.456   123.456   1       "
```

Example of WH_DYNAMIC.csv File:

```
"D20081231,W1001,123456,123.456,123.456,1"
```

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	Korn Shell Script
Program Name	Unknown
Schema Files	Unknown
Program Frequency	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 Names	ipmindaytse, ipmaxdaytse, iptshzne and iprplmtde
Source Object Name	WH_TIMESUPPLY		Target Object Databases	data/MinDayTs, data/MaxDayTs, data/TsHzn 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
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	"D20081231"
WH__	Warehouse	String	"W1001 "
SKU_	SKU	String	"123456 "
ipmindaytse	Minimum Time Supply Days Exception	Real	"123.456 "

Target Data Field Name	Target Field Description	Target Field Data Type	Condition/Format
ipmaxdaytse	Maximum Time Supply Days Exception	Real	"123.456 "
iptshzne	Time Supply Horizon Exception	Real	"123.456 "
iprplmtde	Replenishment Method Exception	Integer	"2 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). All Warehouse values should be prefixed with a "W" (case sensitive).

Example of WH_TIMESUPPLY.txt File:

```
"D20081231W1001              123456              123.456   123.456   123.456   1"
```

Example of WH_TIMESUPPLY.csv File:

```
"D20081231,W1001,123456,123.456,123.456,123.456,1"
```

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	Korn Shell Script
Program Name	Unknown
Schema Files	Unknown
Program Frequency	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 Names	ipmindaytse, ipisde and iprplmtde
Source Object Name	WH_HYBRID		Target Object Databases	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	"D20081231"
WH__	Warehouse	String	"W1001 "
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 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). All Warehouse values should be prefixed with a "W" (case sensitive).

Example of WH_HYBRID.txt File:

```
"D20081231W1001 123456 123.456 123.456 5"
```

Example of WH_HYBRID.csv File:

```
"D20081231,W1001,123456,123.456,123.456,1"
```

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	Korn Shell Script
Program Name	Unknown
Schema Files	Unknown
Program Frequency	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	"D20081231"
WH__	Warehouse	String	"W1001 "
SKU_	SKU	String	"123456 "
ipssminunte	Minimum Safety Stock Units Exception	Real	"123.456 "

Formatting Conditions

All Day values should be prefixed with a "D" (case sensitive). All Warehouse values should be prefixed with a "W" (case sensitive).

Example of WH_MINSS.txt File:

```
"D20081231W1001          123456          123.456  "
```

Example of WH_MINSS.csv File:

```
"D20081231,W1001,123456,123.456"
```

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	Korn Shell Script
Program Name	Unknown
Schema Files	Unknown
Program Frequency	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 Databases	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	“W1001 ”
SKU_	SKU	String	“123456 ”
iproupdtwhi	Replenishment Optimization Update for Stores	Boolean	“1 ”

Formatting Conditions

All Warehouse values should be prefixed with a “W” (case sensitive).

Example of WH_ROUpdate.txt File:

```
“W1001          123456          1       “
```

Example of WH_ROUpdate.csv File:

```
“W1001,123456,1”
```

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AIP to RMS Interfaces and Data Mapping

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'pproved 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 screen.
2. You have created a new purchase order in the OM Order Create screen.
3. In the OM Order Maintenance screen, 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'anceled 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 screen.

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'pproved 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

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"orksheet or "A"pproved is required for purchase order creation. A purchase order may not 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 below for the 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	
Comments	String	Comment_desc	

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
Reference item	string	xOrderDtl.ref_item	
Origin Country Indicator	string	xOrderDtl.origin_conunty_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	

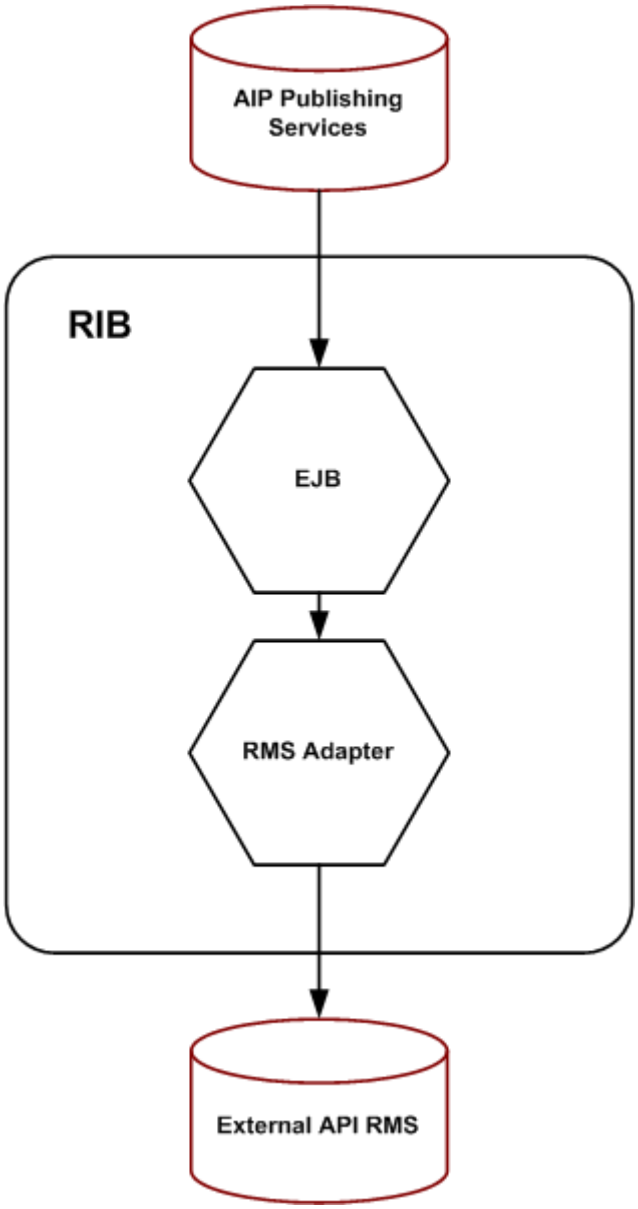
Transfers – Header Message Layout

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 Transfer Create Details.
Transfer Status	String	status	
User ID	String	user_id	
Comments	String	comment_desc	

Transfers – Detail Message Layout

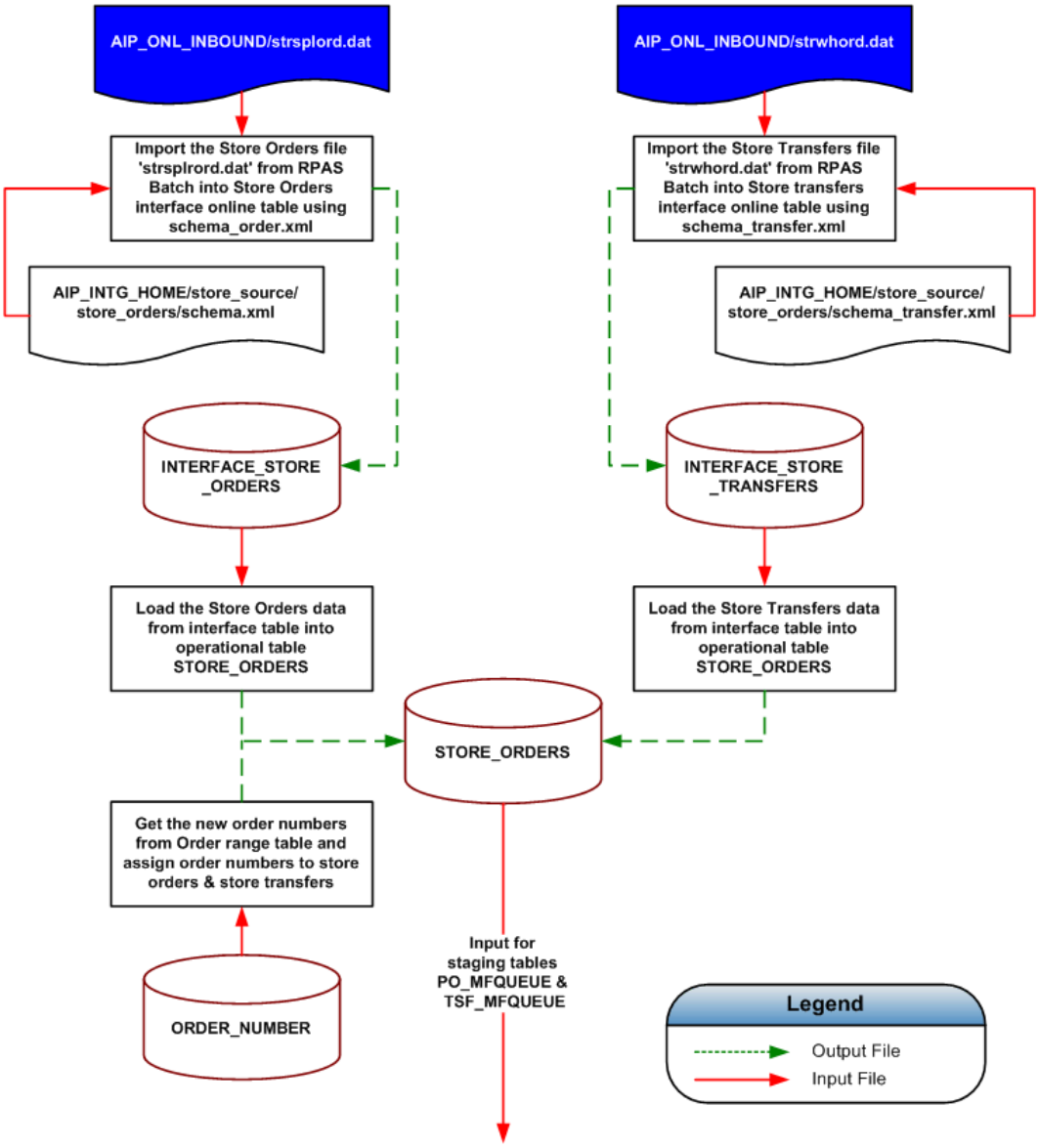
Column Name	Data Type	RIB XML Message Tag	Description/Comments
RMS SKU	string	xTsfDtl.item	
Transfer Quantity	decimal	xTsfDtl.tsf_qty	
Pack Size	decimal	xTsfDtl.supp_pack_size	
Inventory Status	integer	xTsfDtl.inv_status	
Unit Cost	decimal	XTsfDtl.unit_cost	

Purchase Orders and Transfers Message Flow in AIP

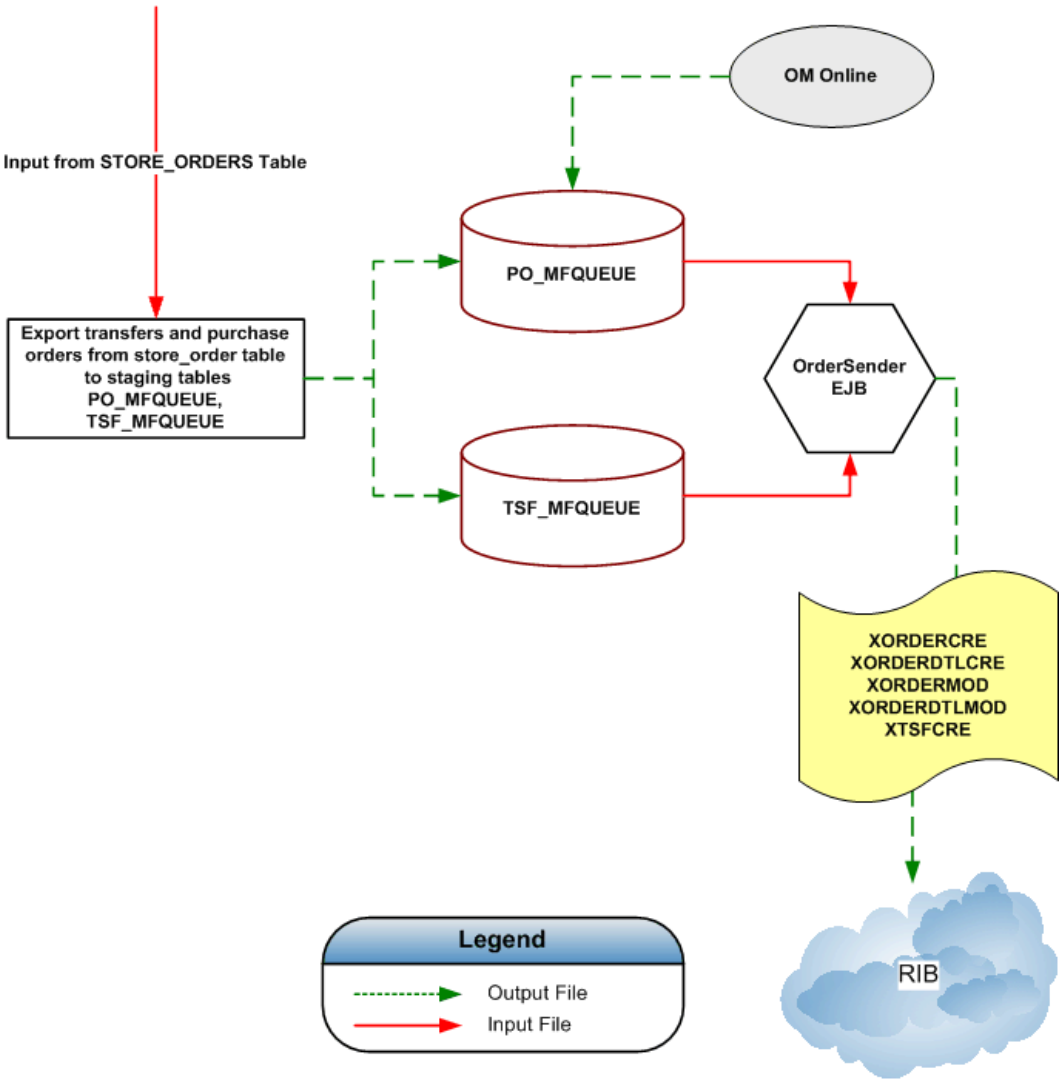


Purchase Orders and Transfers Message Flow Diagram

Store – Purchase Orders and Transfers Message Flow

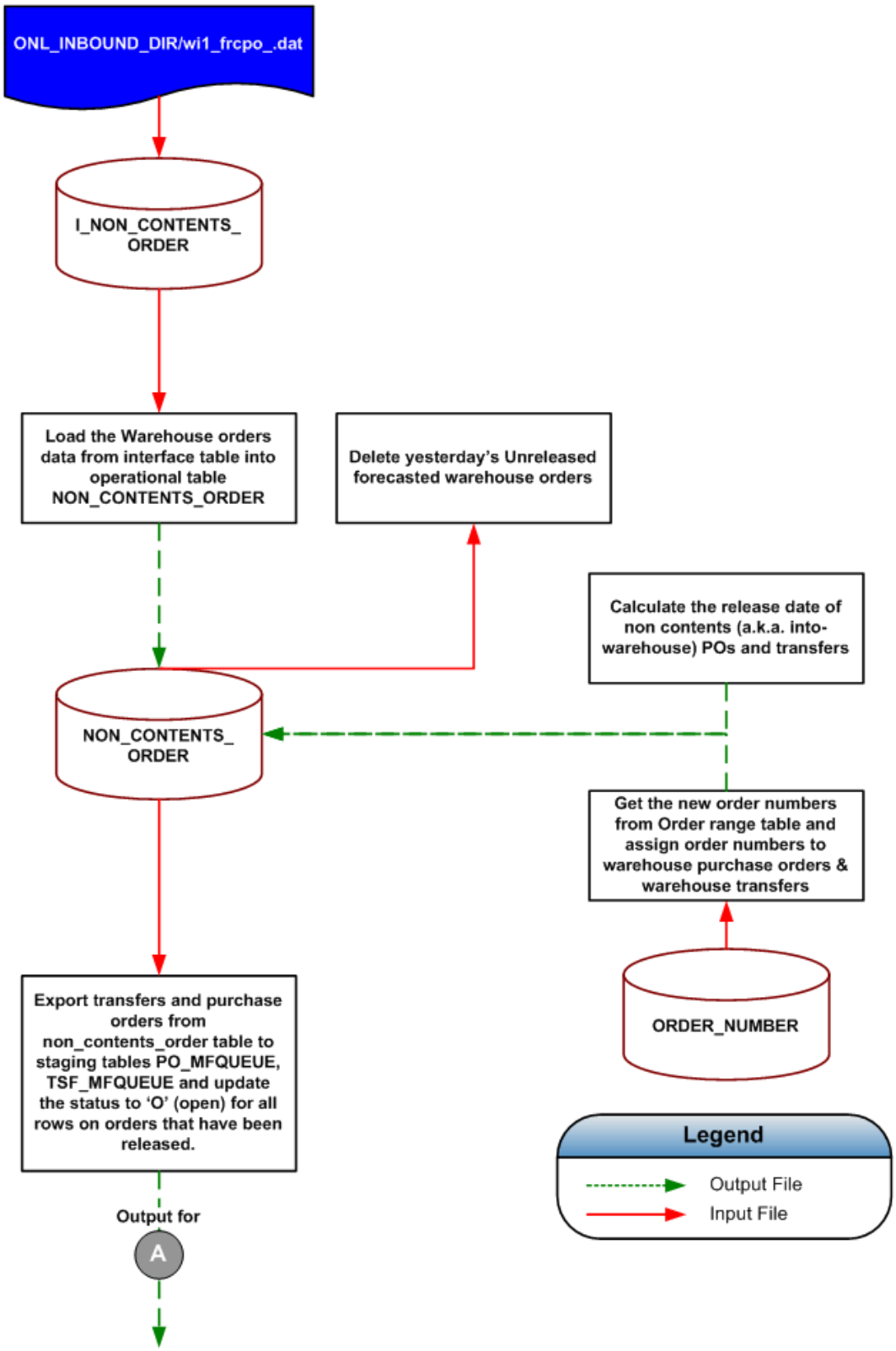


Store – Purchase Orders and Transfers Message Flow Diagram (1 of 2)

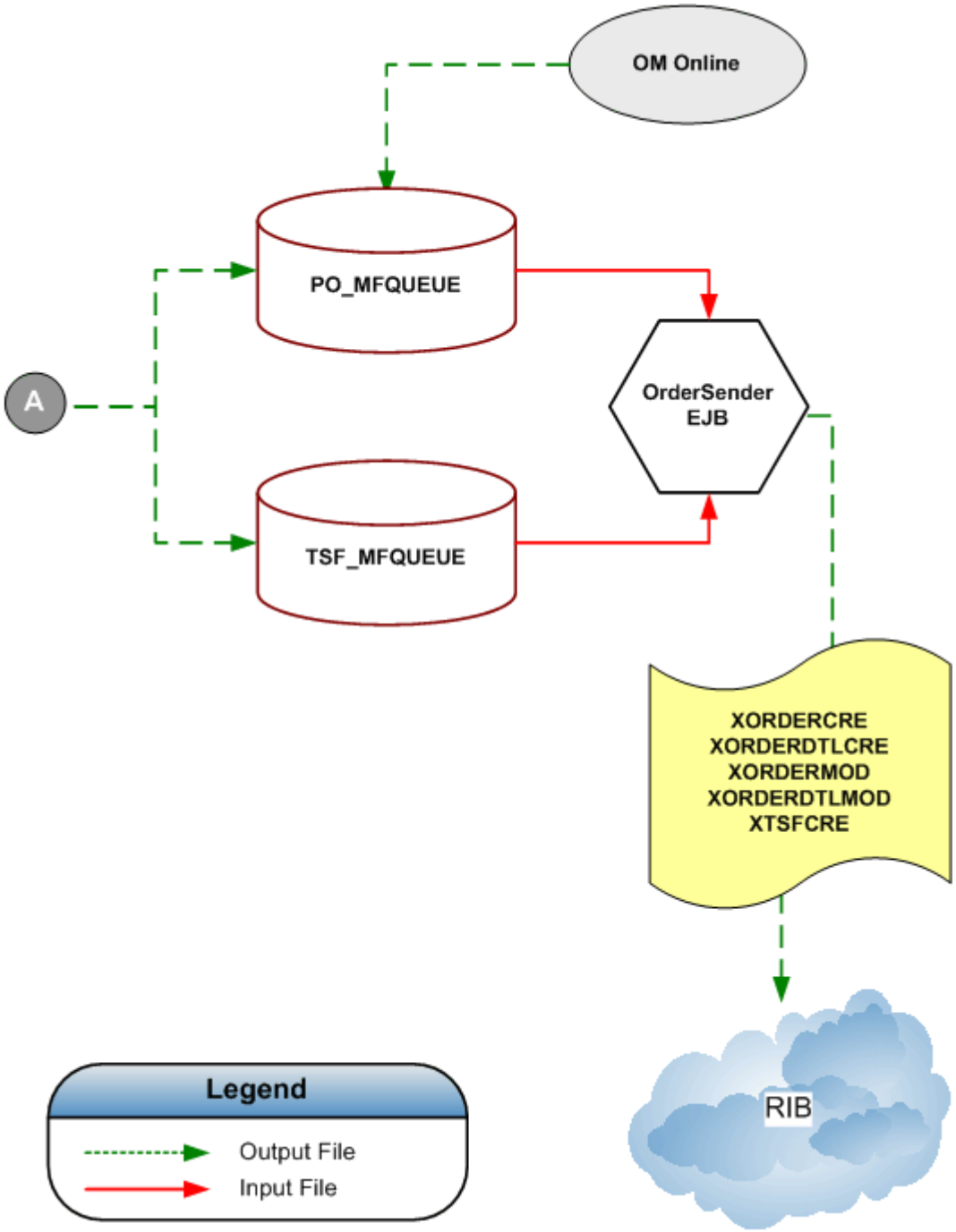


Store – Purchase Orders and Transfers Message Flow (2 of 2)

Warehouse – Purchase Orders and Transfers Message Flow



Warehouse – Purchase Orders and Transfers Message Flow Diagram (1 of 2)



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	EJB
Program Name	OrderSenderBean.java
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	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	Supplier Code	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	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**				
	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 which are not closed. All order line items which 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 which are not closed. All order line items which 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" worksheet and 'A' approved for PO creation. It is also possible to modify the status to 'C' 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

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
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 which 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.
	qty_ordered	The quantity ordered of item	Number	(12,4)	Non-pack SKUs·: store_order.case_volume x commodity_mapping.pack_size· non_contents_order.quantity x 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 which was previously cancelled should be reinstated	Varchar2	1	Hardcoded as NULL

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
14	origin_ind	Indicates where the order originated. Valid values include: 2 - Manual, 6 - AIP generated order, 7 , 8.	Varchar2	1	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 will be transmitted to the supplier via an Electronic Data Exchange transaction. Valid values are: Y = Submit via EDI, 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 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 which 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	EJB
Program Name	OrderSenderBean.java
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	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	Source 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

#	Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
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 which 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.
7	qty_ordered	The quantity ordered of item	Number	(12,4)	Non-pack SKUs: store_order.case_volume x commodity_mapping.pack_size· non_contents_order.quantity x 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

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
10	reinstate_ind	Indicates if a detail record which 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	EJB
Program Name	OrderSenderBean.java
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	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	Source Data Type	Field Length
1	PO_MFQUEUE	ORDER_NUMBER	Order Number	Number	(10,0)
2	SUPPLIER	SUPPLIER_CODE	Supplier Code	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	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	Target 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 which are not closed. All order line items which 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 which are not closed. All order line items which 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" worksheet and 'A' approved for PO creation. It is also possible to modify the status to 'C' closed.	Varchar2	1	The table column has a default of 'A'. If all order quantities are 0 the status of "C"ancel 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

#	Target Data Field Name	Target Field Description	Target Field Data Type	Field Length	Condition/Format
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	6 is a unique RMS identifier that indicates the PO was created in AIP and is hardcoded
14	edi_po_ind	Indicates whether or not the order will be transmitted to the supplier via an Electronic Data Exchange transaction. Valid values are: Y = Submit via 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 the same format and similar content as the Order Create message; however, the message will only contain any **modified** order line items. Any line items which 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	EJB
Program Name	OrderSenderBean.java
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	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
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)	Hardcoded as NULL
4	ref_item	The id of a reference item which can be used instead of using the item field	Varchar2	25	Hardcoded as NULL
5	origin_country_id	The identifier of the country from which the item is being sourced	Varchar2	3	Hardcoded 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.
7	qty_ordered	Changed quantity in eaches	Number	(12,4)	Non-pack SKUs·: store_order.case_volume_delta x commodity_mapping.pack_size· non_contents_order.quantity _delta x 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	Hardcoded as NULL
10	reinstate_ind	Indicates if a detail record which 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	EJB
Program Name	OrderSenderBean.java
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	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	Source 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
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 Records 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

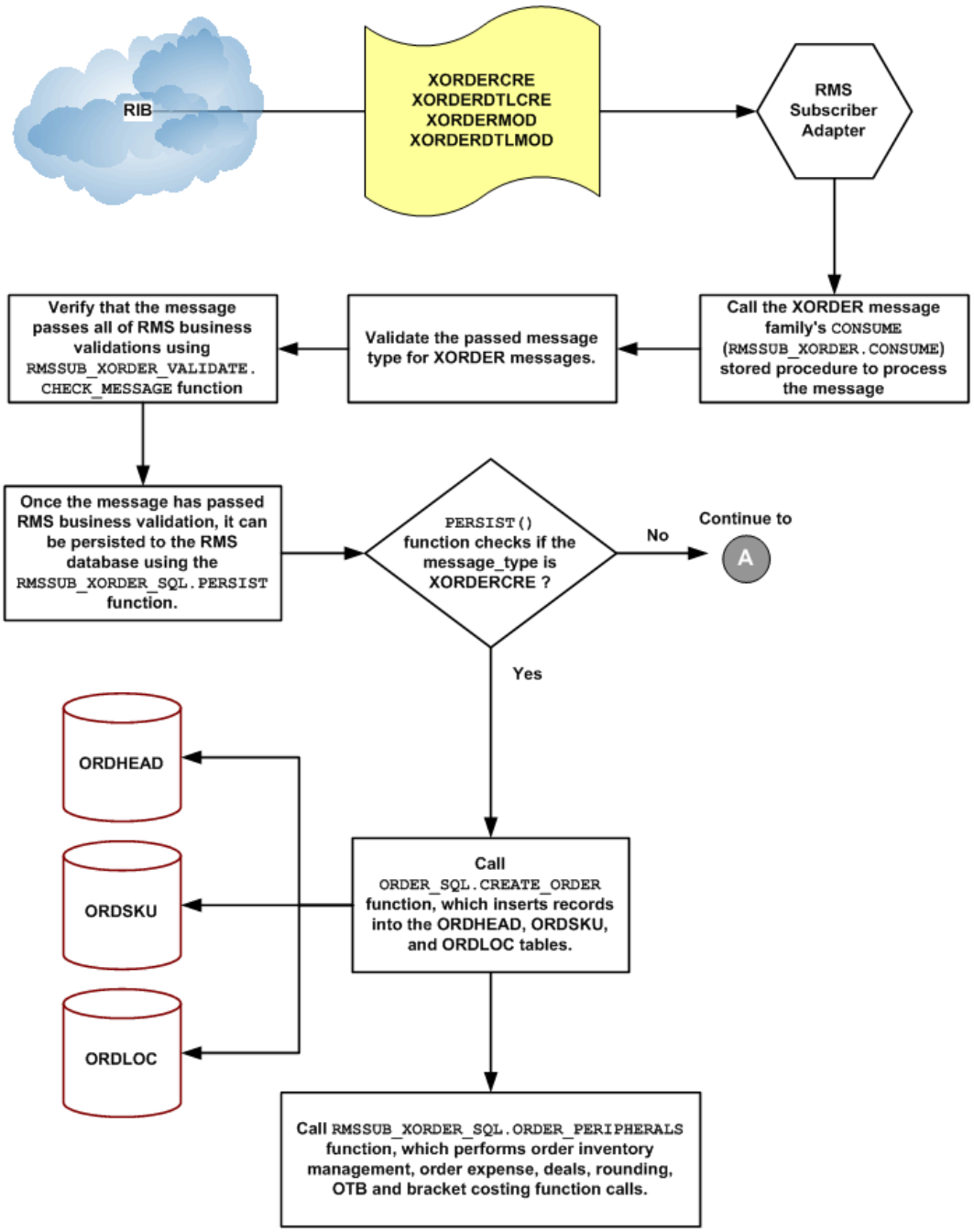
#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
1	tsf_no	Number that uniquely identifies the transfer	Number	10	N/A
2	from_loc_type	The location type of the from location	Varchar2	1	Hardcoded as “W”
3	from_loc	The location number of the from location	Varchar2	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
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 (e.g. normal, expedite, etc.).	Varchar2	1	Hardcoded as NULL
10	tsf_type	A code indicating the type of transfer (e.g. store requisition, book transfer, etc.).	Varchar2	6	Hardcoded as “AIP”

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
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 x commodity_mapping.pack_size· non_contents_order.quantity x 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 (e.g. approved, closed, etc.).	Varchar2	1	The transfer will be 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

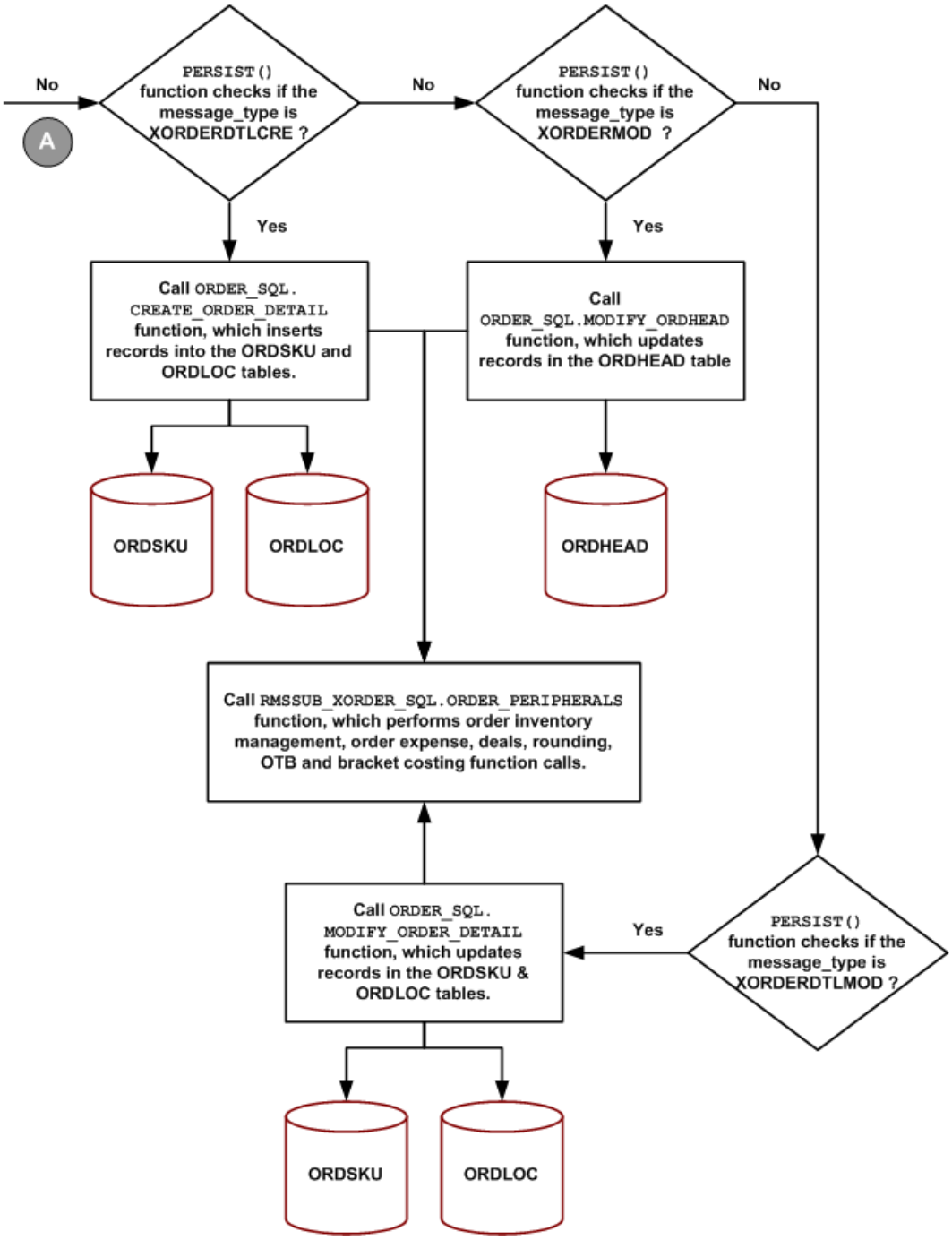
Filtering Conditions

None.

AIP Purchase Order Messages – RMS Load Process

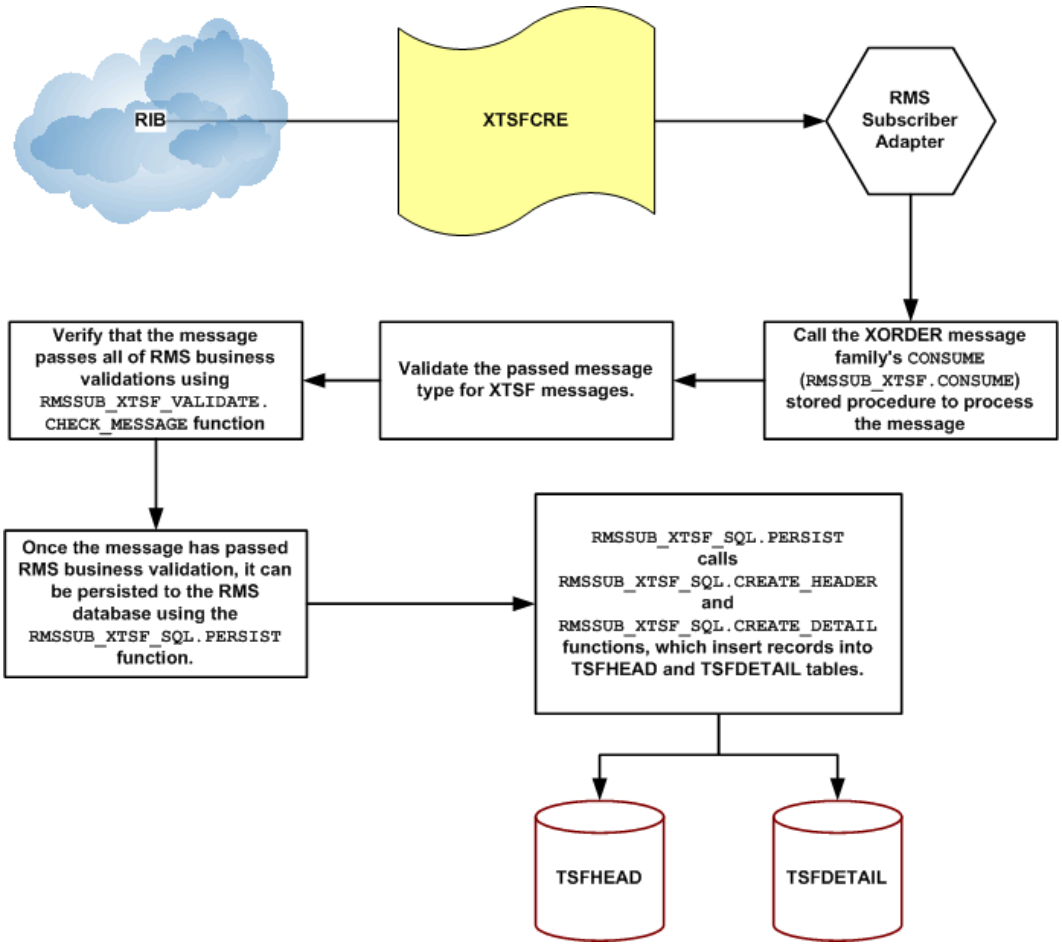


AIP Purchase Order Messages – RMS Load Process Diagram (1 of 2)



AIP Purchase Order Messages – RMS Load Process Diagram (2 of 2)

AIP Transfer Messages – RMS Load Process



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	RIB Subscriber Adapter
Program Name	RMS Subscriber Adapter
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	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	Source 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
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

#	Source Table	Source Table Column	Source Field Description	Source Data Type	Field Length
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
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

The target table for all data is ORDHEAD.

#	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.
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

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
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)	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	NULLablel 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 Else 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

#	Target Data Field Name	Target Field Description	Field Data Type	Field Length	Condition/Format
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
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 & Time	DATE		NULL
60	COMMENT_DESC	Comments	VARCHAR2	250	NULL

Filtering Conditions

None.

XORDER Detail – ORDSKU & ORDLOC Mapping

This section addresses the RMS Subscriber mappings from the XORDER detail message, which 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	RIB Subscriber Adapter
Program Name	RMS Subscriber Adapter
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	STORE_ORDER, STORE, SUPPLIER, PO_MFQUEUE, COMMODITY_MAPPING, NON_CONTENTS_ORDER, STOCKING_POINT		Target Object Name	ORDSKU & 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 displays 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 which 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 & 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 shows 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 displays source data that is mapped to 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	
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 & 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 x commodity_mapping.pack_size· non_contents_order.quantity x 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	RIB Subscriber Adapter
Program Name	RMS Subscriber Adapter
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	STORE_ORDER, STORE, TSF_MFQUEUE, COMMODITY_MAPPING, NON_CONTENTS_ORDER, STOCKING_POINT		Target Object Name	TSFHEAD Table
			Target Load Type	N/A

Field Level Mappings – 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” which 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 (e.g. store requisition, book transfer, etc.).	VARCHAR2	6	Hardcoded as "AIP" at Source
8	STATUS	A code indicating the status of the transfer (e.g. approved, closed, etc.).	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 (e.g. normal, expedite, etc.).	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		VARCHAR2	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	RIB Subscriber Adapter
Program Name	RMS Subscriber Adapter
Schema File	N/A
Program Frequency	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 Table(s)/File(s)	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 x commodity_mapping.pack_size· non_contents_order.quantity x 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.

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AIP to External System Interfaces

Overview

In addition to the RIB, as explained in chapter 11, 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.

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	RETL
Program Name	ord_exp_po_out.sh
Schema File	ord_exp_po.xml
Program Frequency	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|

Formatting 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	RETL
Program Name	ord_exp_tsf_out.sh
Schema File	ord_exp_tsf.xml
Program Frequency	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
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|
9	TSF_QTY	Transfer Quantity in Eaches	Decimal	30|
10	SUPP_PACK_SIZE	Pack Size	Integer	6|

Formatting 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
```

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AIP to RO Interfaces

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	Korn Shell Script
Program Name	aip_export_to_ro.sh
Schema Files	N/A
Program Frequency	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 Names	STR_AIP_DATA.[txt csv]
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	"S1001 "
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:

```
"S1001              123456              3.0000    14.0000   24.0000   "
```

Example of STR_AIP_DATA.csv File:

```
"S1001,123456,3.0000,14.0000,24.0000"
```

WH_AIP_DATA

AIP can be configured to export warehouse supply-chain information. However, few optimization systems can optimize warehouse replenishment. **Check 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.

Data Type	Data Element Name	Data Description
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	Korn Shell Script
Program Name	aip_export_to_ro.sh
Schema Files	N/A
Program Frequency	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 Names	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	“W1001 ”
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:

```
“W1001          123456          21.0000   14.0000   48.0000   “
```

Example of WH_AIP_DATA.csv File:

```
“W1001,123456,21.0000,14.0000,48.0000”
```

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First Day of AIP

Introduction

The phrase "First Day of AIP" encompasses the steps required to initially load the Enterprise and Merchandise data into AIP for setup of the supply-chain, and 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 set up 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 very 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 automated supply-chain setup as well as manual supply-chain setup and replenishment parameter definition. Its success is pertinent to the ability to complete 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 AIP Installation Guide* for details. The necessary environments must exist and be setup as indicated in the *Oracle Retail AIP Implementation Guide*. Also, for more specific instructions and details around the batch process, please reference the *Oracle Retail AIP 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 very 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 are 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, etc. 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, etc.)

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 Online (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.

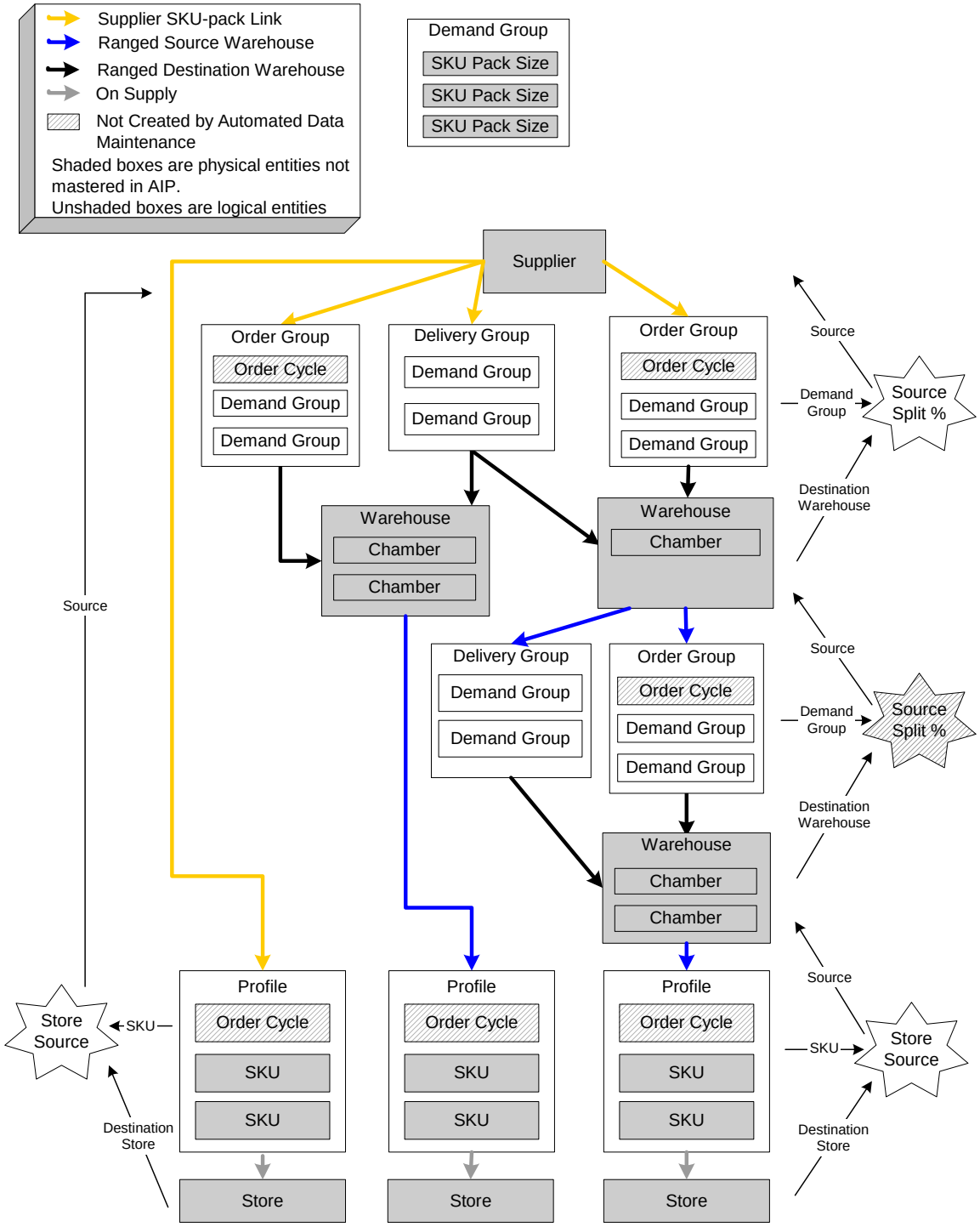
- No received quantities, closed orders, or recycled order numbers are available because no purchase orders or transfers have been executed from AIP.
- No replenishment plan exists to import from AIP on RPAS. Therefore all logic related to retrieving and loading data from AIP on RPAS will be skipped.
- 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 that 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 setup 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 the diagram below, which provides a detailed outline of the AIP supply chain structure.



AIP Supply Chain Structure Diagram

The AIP supply chain structure diagram lists the physical as well as logical entities of the supply chain which 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 this diagram 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.
- etc.

The diagram illustrates what the First Day of AIP needs to accomplish on the Oracle platform. By fully comprehending each element of the diagram 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 the diagram 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 below ensure that all installations and configurations are set according to the *AIP Installation Guide*, *RPAS Installation Guide*, and *AIP Implementation Guide*.

The detailed First Day processes that will be executed for AIP on RPAS can be found in the *AIP Operations Guide*.

The First Day execution steps are quite 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.

The First Day of AIP consists of the following main steps:

1. Virtual Date (Vdate)
   - Sets and synchronizes the virtual/notional date across AIP on Oracle and AIP on RPAS.
2. Build the SRP Implementation Parameters Workbook
   - Customizes implementation parameters required for AIP RPAS batch logic and calculations.
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

4. First Day of AIP on Oracle Import
   - Imports hierarchies into AIP on Oracle
   - Full import of all AIP on RPAS exports
   - Automation creates a significant portion of the logical supply chain structure
5. First Day of AIP on Oracle Manual Setup
   - Creation of Warehouse Chambers and assignment of SKU types
6. First Day of AIP on Oracle Automation
   - Executes the entire set of Automated Data Maintenance processes to automatically setup the supply chain.
7. First Day of AIP on Oracle Import of Non-critical Alerts
   - Imports the non-critical Data Management alerts from AIP RPAS.
8. Complete all manual setup of AIP
   - Set AIP on RPAS replenishment defaults and exceptions
   - Set or modify Data Management Online 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 will take 2 days to complete for the First Day setup and today is April 1st, 2007, then Vdate should be set to 20070403. This will then allow 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 which 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 packs or eaches processing mode. Therefore the appropriate level must be determined before AIP RPAS batch is executed.

Step Execution

Log in to the SRP workbook. Refer to the *Oracle Retail AIP SRP 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 *AIP 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. Below 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 check_process_external_data \
                           –e auto_build_wkbooks_batch
```

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, Step 5, to occur.

Below 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
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

Description	File name	Import Directory
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.
   ```
   /aip/oracle> ${INTEGRATION_HOME}/scripts/process_aiponline_data.sh -l
   "${INTEGRATION_HOME}/config/import_hierarchy.config"
   ```
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"
   ```
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 the user is required to create warehouse chambers and assign SKU-types to them. These actions occur in the Data Management Online 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

Log in to Data Management Online. Follow the steps to create one or more chambers for each warehouse. 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 setup the supply-chain for new Suppliers, new SKU-pack sizes, sister warehouses, and sister stores. 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 AIP Operations Guide* for a detailed explanation of the processes executed to setup and maintain the supply-chain.

Note that 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 may trigger automated maintenance of certain data in addition to an informative alert visible to the user 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"
   ```
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. The user can also choose to modify the supply chain created by automation.

The Data Management Online attributes and exceptions that are not created by automation include:

- 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
- Receipt to Availability Lead Time
- 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

*Required for replenishment

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, but must be completed prior to executing a full batch cycle which includes replenishment planning.

Step Execution

Log in to the Data Management Online application. Refer to the *Oracle Retail AIP 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 AIP SRP User Guide* and *Oracle Retail AIP WRP User Guide* for details on building workbooks and modifying the Administration Workbooks.