

Oracle® Application Integration Architecture

Oracle Value Chain Planning Integration Base Pack Implementation
Guide

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Oracle Application Integration Architecture Oracle Value Chain Planning Integration Base Pack
Implementation Guide, Release 12.2

Part No. E96000-01

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Preface

Intended Audience

Welcome to Release 12.2 of the *Oracle Application Integration Architecture Oracle Value Chain Planning Integration Base Pack Implementation Guide*.

See Related Information Sources on page xiii for more Oracle E-Business Suite product information.

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Structure

- 1 Understanding Oracle Value Chain Planning Integration Base Pack**
- 2 Overview of JDE E1 or PeopleSoft to VCP Integration**
- 3 Understanding Batch Integration**

This chapter discusses the batch integration process between JDE E1 or PeopleSoft and Value Chain Planning and includes details about:

- 4 Understanding Real-time Integration**
- 5 Alternate Integration Scenarios**

This chapter describes how implementers can address common scenarios with the VCP Base Pack integration.

6 Configuring JD Edwards EnterpriseOne

Note: This chapter does not pertain to PeopleSoft users.

7 Configuring JD Edwards EnterpriseOne UBEs

Note: This chapter does not pertain to PeopleSoft users.

8 Configuring PeopleSoft Integration with Oracle Demantra Demand Management

This chapter provides an overview of Demantra integration and discusses how to:

Note: This chapter does not pertain to JDE EnterpriseOne users.

9 Configuring Oracle Demantra

This chapter discusses configuration steps that must be completed before using Oracle Demantra with this integration. The steps include:

1. Set up database directories
2. Run concurrent programs
3. Update profiles
4. Add additional Demantra levels (optional)

10 Configuring VCP

To facilitate the integration, certain one-time setup steps and configurations must be performed to the Oracle EBS planning server.

Additional Information: For additional information, see the Oracle Value Chain Planning Implementation Guide.

11 Adding Installation Steps for ODI 12.2.1

12 Configuring GOP

13 Configuring ODI for GOP

This chapter discusses setting up the ODI web service for Global Order Promising.

14 Defining User Maintained Data

User-maintained data is data that is needed for planning purposes but is not available in the ERP extracts. In releases prior to 12.2.5.1, user-maintained data was managed using a spreadsheet. Starting with the 12.2.5.1 release this data is maintained using the Manage Integration Parameters user interface.

15 Running JDE or PeopleSoft VCP Integration

This chapter provides information about accessing and running JD Edwards EnterpriseOne or PeopleSoft collections. PeopleSoft users are restricted to those relating

to Demantra Demand Management and have their own menu containing this restricted set of options.

This chapter assumes that the JDE or PeopleSoft extracts have been performed or are part of a pre-process script. The import processes is run separately or as part of a post-process.

A User Maintained Data Parameters

B Error Handling and Troubleshooting

This section details possible VCP Base Pack Integration failure points.

Related Information Sources

Integration Repository

The Oracle Integration Repository is a compilation of information about the service endpoints exposed by the Oracle E-Business Suite of applications. It provides a complete catalog of Oracle E-Business Suite's business service interfaces. The tool lets users easily discover and deploy the appropriate business service interface for integration with any system, application, or business partner.

The Oracle Integration Repository is shipped as part of the Oracle E-Business Suite. As your instance is patched, the repository is automatically updated with content appropriate for the precise revisions of interfaces in your environment.

Do Not Use Database Tools to Modify Oracle E-Business Suite Data

Oracle **STRONGLY RECOMMENDS** that you never use SQL*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle E-Business Suite data unless otherwise instructed.

Oracle provides powerful tools you can use to create, store, change, retrieve, and maintain information in an Oracle database. But if you use Oracle tools such as SQL*Plus to modify Oracle E-Business Suite data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle E-Business Suite tables are interrelated, any change you make using an Oracle E-Business Suite form can update many tables at once. But when you modify Oracle E-Business Suite data using anything other than Oracle E-Business Suite, you may change a row in one table without making corresponding changes in related tables. If your tables get out of synchronization with each other, you risk retrieving erroneous information and you risk unpredictable results throughout Oracle E-Business Suite.

When you use Oracle E-Business Suite to modify your data, Oracle E-Business Suite automatically checks that your changes are valid. Oracle E-Business Suite also keeps track of who changes information. If you enter information into database tables using database tools, you may store invalid information. You also lose the ability to track who has changed your information because SQL*Plus and other database tools do not keep a

record of changes.

Understanding Oracle Value Chain Planning Integration Base Pack

This chapter covers the following topics:

- Direct Integration for JD Edwards EnterpriseOne, PeopleSoft with Demantra, and Value Chain Planning
- Prerequisites
- Setup Overview
- Integration Architecture
- Business Processes
- Solution Assumptions and Constraints

Direct Integration for JD Edwards EnterpriseOne, PeopleSoft with Demantra, and Value Chain Planning

This direct integration initiative enhances JD Edwards EnterpriseOne technology to facilitate integration with current and future planning applications in the Oracle EBS Value Chain Planning Suite. This direct integration also provides PeopleSoft Enterprise Supply Chain Management integration with Demantra Demand Management.

Note: This document assumes you are integrating JD Edwards EnterpriseOne or PeopleSoft Enterprise Supply Chain Management to an Oracle Value Chain Planning instance that is not integrated to any other source instances. If a planning instance is integrated to other source instances, then ensure that data components across multiple instances (such as unit of measures) are consistent.

This document uses the term Enterprise Resource Planning (ERP) to refer to an item that is relevant to both JD Edwards EnterpriseOne and PeopleSoft Enterprise Supply

Chain Management integration. When referring to an item that is specific to JD Edwards EnterpriseOne or PeopleSoft only, that system is specified.

Participating Applications

This integration includes the following applications:

- Oracle Advanced Planning Command Center
- Oracle Demantra Demand Management
- Oracle Demantra Real Time Sales and Operations Planning
- Oracle Strategic Network Optimization
- Oracle Inventory Optimization
- Oracle Advanced Supply Chain Planning
- Oracle Rapid Planning
- Oracle Production Scheduling
- Oracle Global Order Promising
- Oracle Demantra Deductions and Settlement Management
- Oracle Demantra Predictive Trade Planning

Important: Oracle Demantra Predictive Trade Planning and Oracle Demantra Deductions Settlement Management do not support multiple instances of JD Edwards EnterpriseOne. This integration supports PeopleSoft Integration to Oracle Demantra Demand Management only, not the entire Oracle Value Chain Planning Suite.

Prerequisites

Verify your software versions before installing and configuring this product to integrate with the following servers:

JD Edwards EnterpriseOne Server (JDE E1 users only)	JD Edwards EnterpriseOne
---	--------------------------

PeopleSoft Server (PeopleSoft users only)	Oracle/PeopleSoft Enterprise Supply Chain Management
Integration Server	Oracle Data Integrator
Planning Server	Oracle Value Chain Planning
Forecasting Server	Oracle Demantra

Additional Information: For more information about the application versions, see *Oracle Application Integration Architecture Installation Guide for Process Integration Packs Release 11.3*.

Setup Overview

The following overview describes the VCP Base Pack integration setup:

1. Install JD Edwards EnterpriseOne (JDE E1 users only).
2. Install Oracle/PeopleSoft Enterprise Supply Chain Management (PeopleSoft users only).
3. Install Oracle Value Chain Planning.
4. Install Demantra (if applicable).
5. Install Oracle Web Logic Server.
6. Install Oracle Database.
7. Install Repository Configuration Utility.
8. Install Oracle SOA Suite.
9. Install AIA Foundation Pack.
10. Install AIA 11.3.
11. Install Oracle Value Chain Planning Integration Base Pack Process Integration Pack (PIP).
12. Install Oracle Data Integrator.

13. Configure Oracle Data Integrator.
14. Configure JD Edwards EnterpriseOne application. (JDE E1 users only).
15. Configure Oracle/PeopleSoft Enterprise Supply Chain Management (PeopleSoft users only).
16. Configure Oracle Value Chain Planning.
17. Configure Demantra (if applicable).
18. Configure Real Time integration (JDE E1-GOP installations only).

Integration Architecture

This direct integration supports the collection of data from JDE E1 or PeopleSoft and the publishing of forecasting and planning results back into JDE E1 or PeopleSoft. The communication between the systems is based on XML and text files. The collection process includes:

1. Supply Chain and Demand Management data is extracted from ERP using pre-seeded extracts.
2. The integration PIP, using ODI, populates VCP staging tables.
3. The data load process is triggered and planning and demand management systems are populated.

After this process, you can use VCP applications as if the data was collected from an EBS instance.

Once the planning processes are complete, the publish process includes:

1. The VCP Publish process triggers the integration to extract the publish data from VCP and creates import files.
2. The ERP import functions import the planning results into the ERP system.

Some information required for planning is not available in the ERP systems. In order to resolve this, the integration has a user interface called Manage Integration Parameters that can be used to maintain the critical data that is not stored in the ERP system.

In other cases, core data components required for planning functions are missing from the ERP system. Therefore, not all of the planning functions are available.

Business Processes

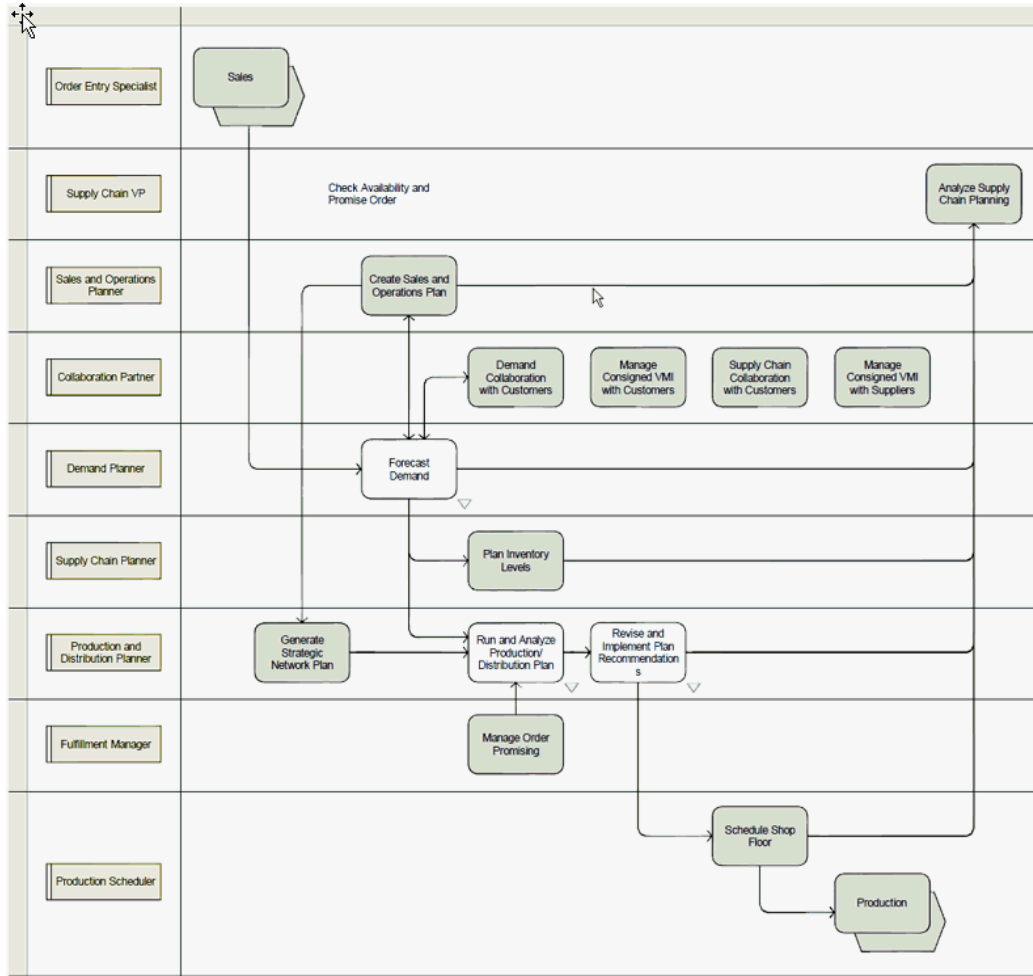
The following diagrams illustrate business processes that describe the integration points between JDEdwards EnterpriseOne or PeopleSoft and Value Chain Planning that are enabled by Oracle Value Chain Planning Integration Base Pack. There are two general areas of business processes:

- Value Chain Planning
- Marketing

Value Chain Planning Processes

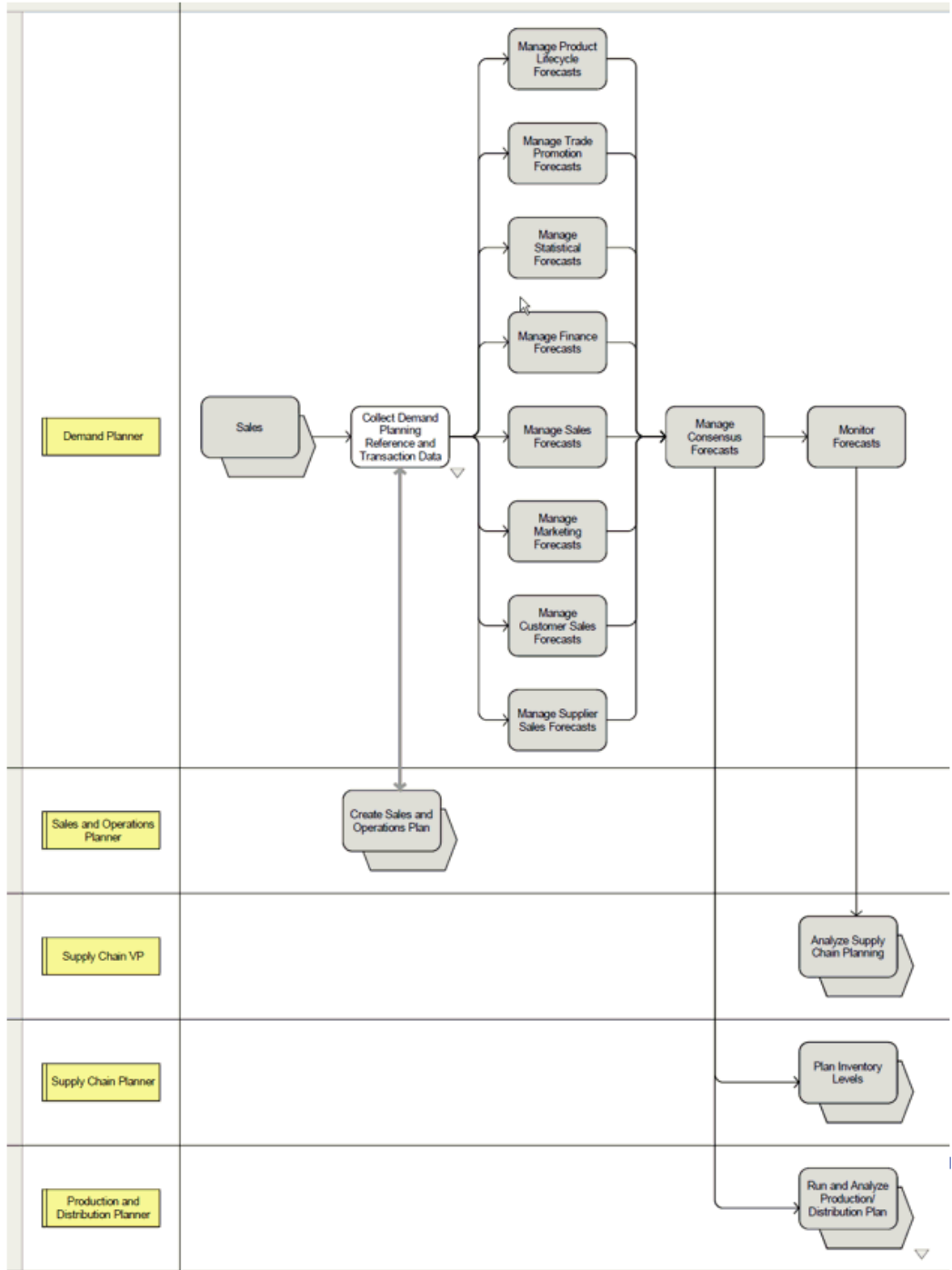
Important: As PeopleSoft integration only applies to Demantra Demand Management, some of these functions are not applicable to PeopleSoft users.

In the following diagram, the Forecast Demand, Run and Analyze Production/Distribution Plan, and Revise and Implement Plan Recommendations boxes depict processes covered by this integration:

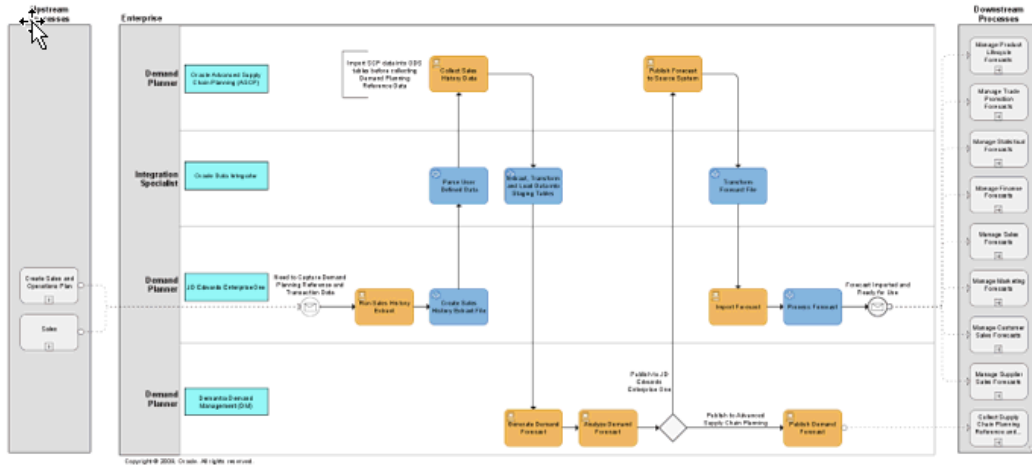


Forecast Demand

The following diagram illustrates the forecast demand business process (Collect Demand Management Reference and Transaction Data) that has integration points covered by this integration:

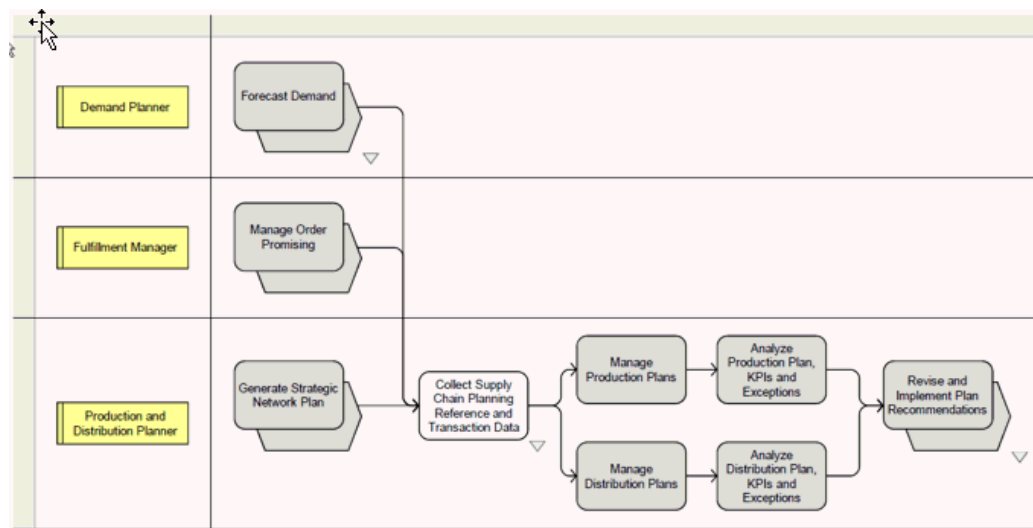


The following diagram provides additional details about the Collect Demand Management Reference and Transaction Data process:

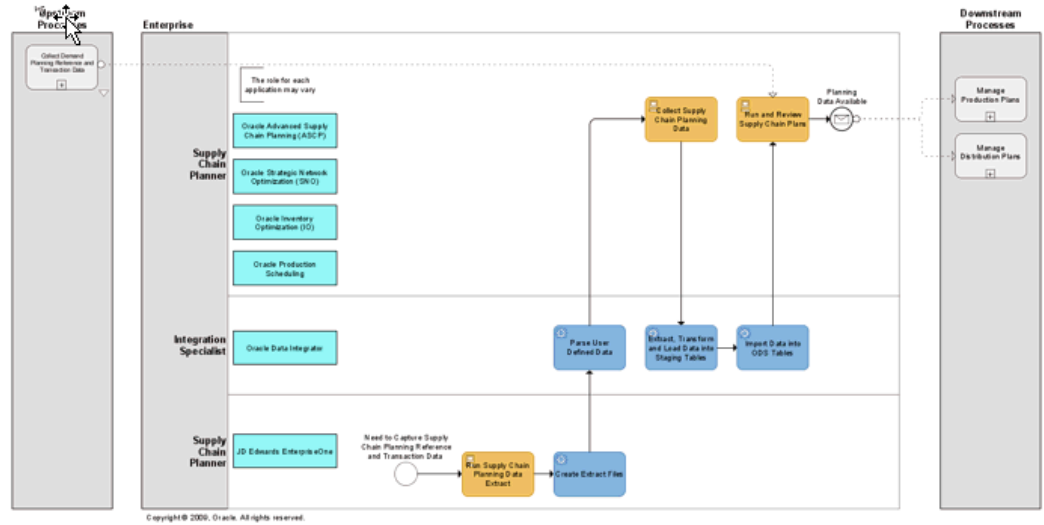


Run and Analyze Production/Distribution Plan Process

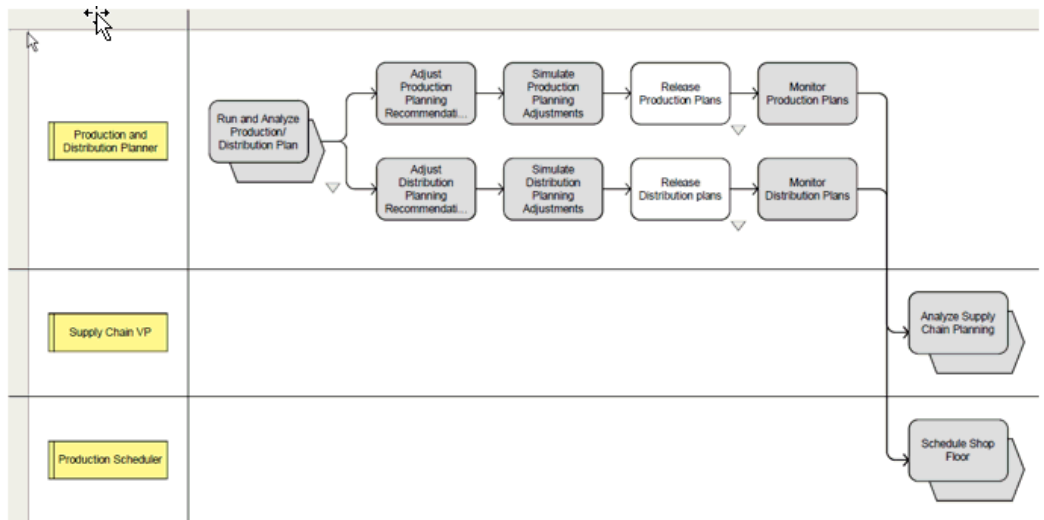
The following diagram illustrates details about the Run and Analyze Production/Distribution Plan process:



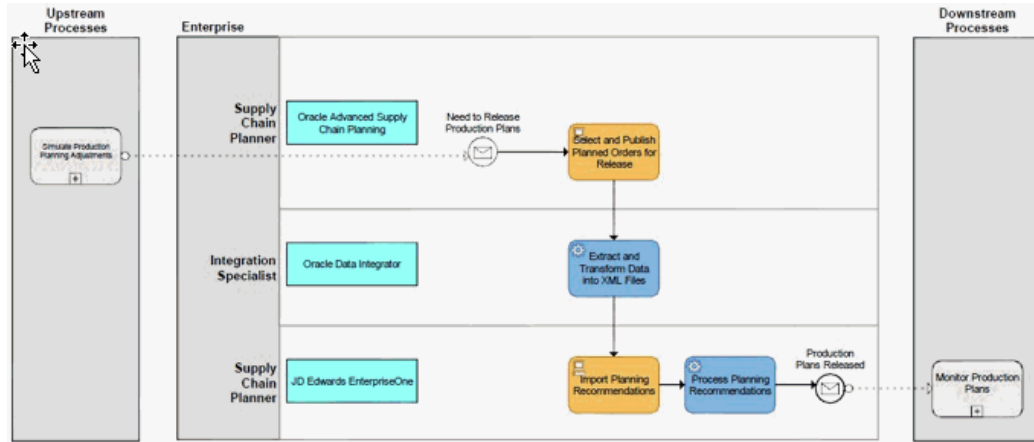
The following diagram provides additional details about the Collect Value Chain Planning Reference and Transaction Data process:



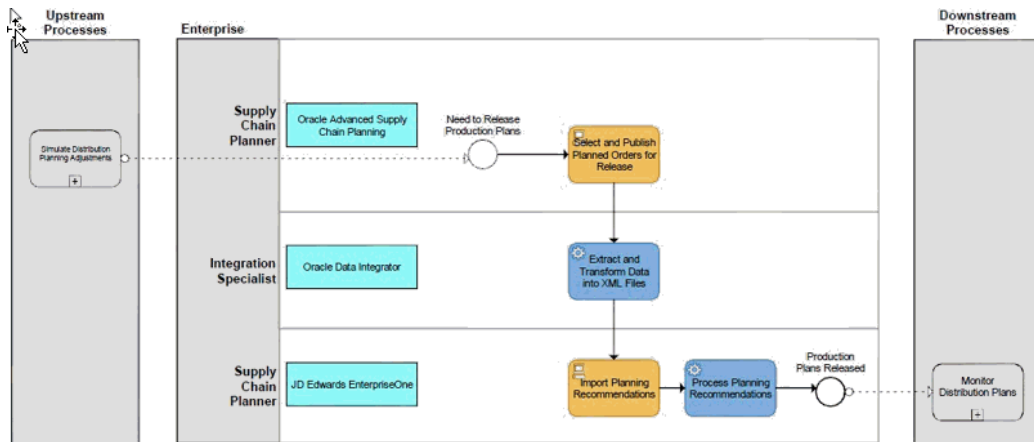
Revise and Implement Plan Recommendations



The following diagram provides additional details about the Release Production Plans process:

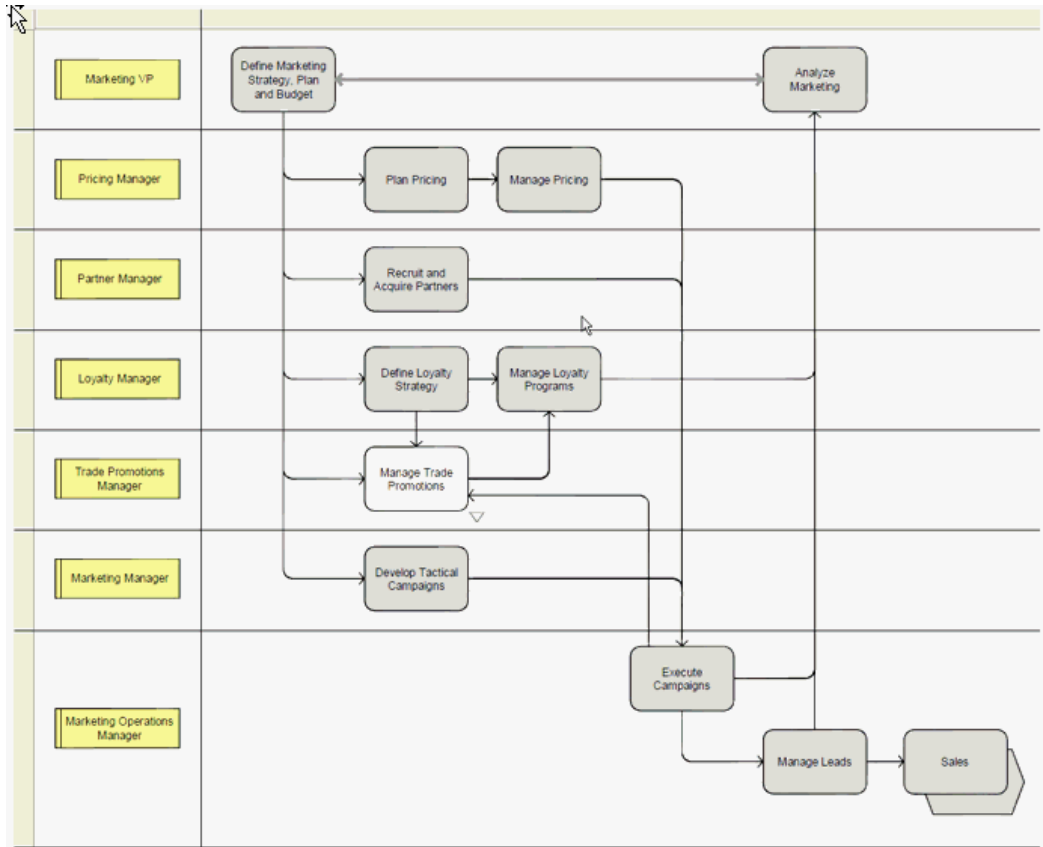


The following diagram provides additional details about the Release Distribution Plans process:

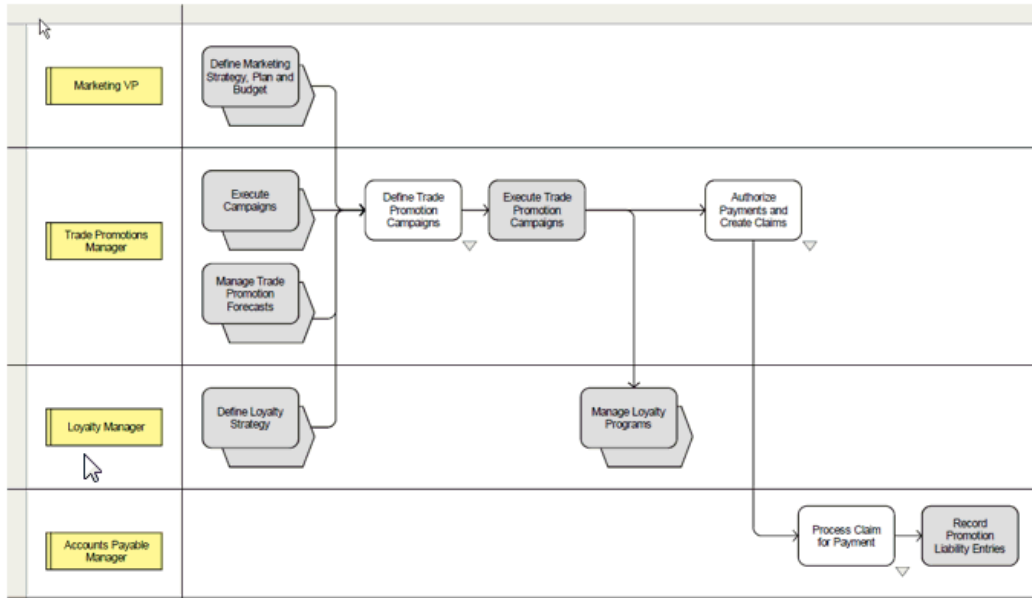


Marketing Processes

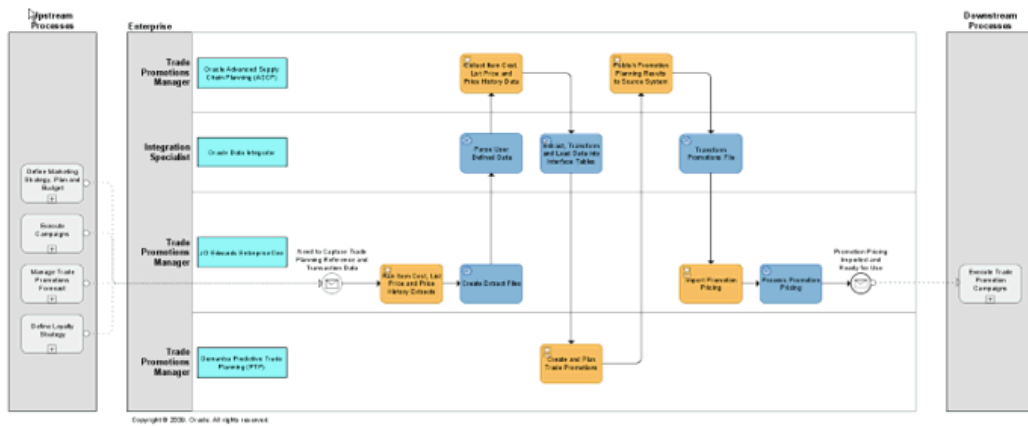
In the following diagram, the Manage Trade Promotions box illustrates the process that has integration points covered by this integration:



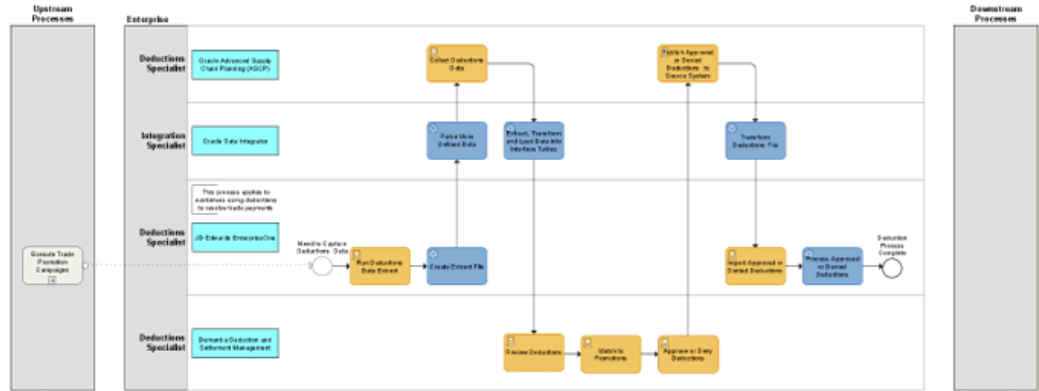
Manage Trade Promotions



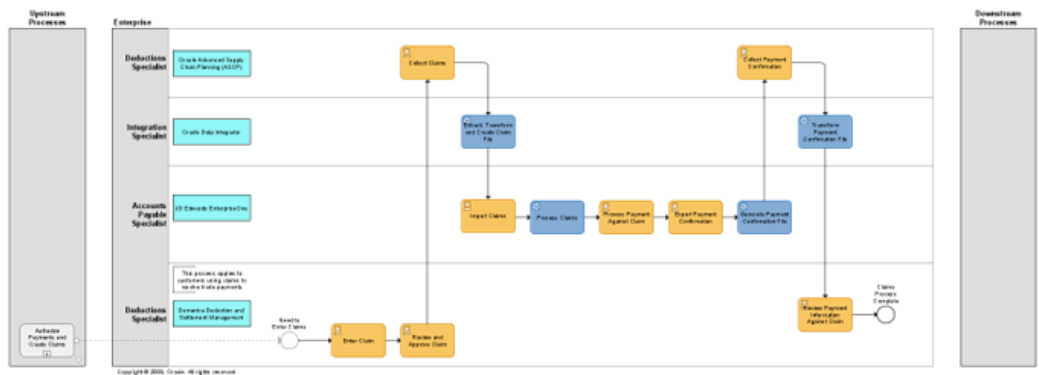
The following diagram provides additional details about the Define Trade Promotion Campaigns process:



The following diagram provides additional details about the Authorize Payments and Create Claims process:



The following diagram provides further details about the Process Claim for Payment process:



Solution Assumptions and Constraints

This section lists solution assumptions and constraints to consider when implementing VCP Base Pack. There are four types of restrictions:

- Limitations of data representation in JDE E1 or PeopleSoft
- Limitations on data extracted from JDE E1 or PeopleSoft
- Restrictions to the VCP Legacy Collections processes
- Modeling within VCP applications

Adding user-defined extensions to standard components of legacy collections can circumvent certain restrictions. User-defined extensions can augment a data model with additional data or transform the data model to reflect different requirements.

Note: Oracle does not support problems arising from user-defined extensions.

Infrastructure

If the directories between the servers are not networked or shared, you must configure the file transfer between the ERP server and the planning solution for security purposes.

Additional Information: For additional information, see Information Sharing Options.

Single sign-on across Value Chain Planning instances and ERP instances is not supported.

Supporting multiple ERP instances requires user-defined extensions.

Additional Information: For additional information, see Multiple ERP Instances.

The collection process (flat file to ODS database) must be completed for a single ERP instance before running a collection process for another ERP instance. The output and input files must be processed as a single set for a particular instance before the next set for the next instance is processed.

- Collections should not be run during the release and publish process.
- When publishing planning results, the generated XML files must be transferred to the ERP server before running another publish process.
- Planning results must be imported into the ERP system before running a publish for the same instance.

General

- This integration focuses on discrete manufacturing.
- This integration does not support process, project or Seiban manufacturing.

Individual packages can be loaded. However, when you load a package that uses information from other packages, the related packages must also be extracted. For example: to load WorkOrders.xml, Manufacturing.xml must also be present.

Planned make orders created by Distribution Planning (DRP) do not have routings associated with them, which is a requirement for JDE E1 Work Orders. Because of this, do not publish planned production orders generated by DRP. You can then run the JDE E1 MRP process to generate the required production orders.

Collaborative Planning is not enabled for VMI replenishment planning, but can be used for supplier collaboration on order forecast and supply commits for Oracle Advanced

Supply Chain Planning.

- Sourcing rules are not imported for this release. Sourcing rules can be defined on the planning server.
- Multi-currency is not supported.
- Multiple companies with the same entity (for example, customer) are not supported.
- Partners defined as a carrier in JDE E1 setup are not collected.
- JDE E1 date effective distribution costs are not collected and not used in Distribution Planning (DRP) plans.
- JDE E1 users must turn on resource sets. To set up resource sets, the Special Handling column must be set to 1 for UDC 34A|GU|6.
- Supplier names, head office customer names, and branch names should be unique.
- Transfer orders must refer to either Sales Order lines or Purchase Order line, not both.
- In the Beginning Inventory (R34A1070) UBE, JDE E1 users should select the Omit Expired Lots processing option so expired lots are not collected.
- Resources should not appear in multiple work centers in the same branch for a routing or operation.
- Bill of Materials (BOM) components cannot span multiple branches or organization. All components must be from the parent item's branch.
- Item Substitution decisions made in Oracle ASCP or Oracle Rapid Planning are not published back to JDE E1.
- A customer is associated with a single customer class.
- Demand classes cannot be changed at order entry time.
- Shifts cannot cross working and non-working day boundaries. For example, if a shift ends at midnight on Saturday and Sunday is a non-working day, the end time for the shift should be specified as 23:59 and not 00:00 or 24:00.
- All resources in an operation are assumed to be simultaneous with the duration resource. The duration resource defines a common duration for all resources associated with that operation.
- An operation must have at least one associated resource.

- When an operation has alternate resource groups, all resources must be unique. A resource cannot be shared by several alternate resource groups.
- In JDE E1, ForecastConsumptionRule (F0005/F34A30.DL01) in Base.xml must be "Order - Greater" and timeFenceUnit is "Days" (hardcoded in Base.xml)
- You must define departments so that resources for an operation are not shared across departments. To handle this, define department as being at either the branch or work center level.
- JDE E1 supports discrete and process manufacturing in the same branch (org).
 - VCP can only support one manufacturing type for a branch (org).
 - Integration with Process Manufacturing is not supported for this release.
- An item or a resource cannot appear in an operation more than once.

When a JDE E1 work order has recorded material or activity, the entire work order becomes firm.

Calendar Restrictions

Calendars should be loaded separately from all other entities. When collecting other entities, calendar collection selection should be set to No. Calendars must start on a Monday. Updates to Calendars must not have a start date after the currently loaded start date or an end date before the currently loaded end date.

Each branch or organization loaded from the ERP system must have a default calendar with a blank calendar name. The blank calendar name for each branch or organization must be present in Calendar.txt as part of the data extracted from the ERP system.

When extending a calendar before or beyond the current calendars horizon, ensure that Calendar_Overwrite_Flag is set to Y.

Calendars should be the first entity collected.

Demantra Demand Management

Demantra users should review the integration and ensure that the integration meets their forecasting requirements. Custom Hooks can be used to bridge gaps and load data into additional levels in Demantra beyond the standard levels supported in this integration.

Additional Information: For additional information, see Custom Hook Functionality.

This integration supports a single price list; STANDARD_PRICE. Additional price lists can be loaded using user-defined extensions in Demantra.

Regions and Zones (global forecasts) are not enabled for this release. Demands are modeled at the item-organization-customer level and support local forecasts.

Product Family Forecasting is not supported.

Demantra Real-Time Sales and Operations Planning

The following series used by RTSOP are not populated with data in this integration:

- Actual Back log (required to generate Projected backlog)
- Past Due Backlog
- Actual on hand (used to measure performance to plan)
- Actual Production (used to measure performance to plan)

To load this data, develop extensions to extract, transform and load data into the Demantra interface (BIIO tables) tables used by the Demantra integration interface called SCI. Execute the Download SCI Data workflow to import this data into Demantra.

Projected Backlog

The Projected Backlog series, used in Actual Backlog, Shipment Forecast and Booking Forecast series, is not populated. Booking Forecast requires Booking History data, which is not available from the ERP systems. This integration populates shipment history into the booking history series, which might not produce a useful Projected Backlog.

Supplier Capacity Data

Supplier Capacity is not populated in this integration. As an alternative, supplier capacity data can be set up directly on the VCP instance, or brought in using Collaborative Planning.

Fiscal Calendars

Fiscal calendars are not loaded as part of the Collect Planning Data program. As an alternative, fiscal calendars can be loaded into VCP ODS using the legacy flat-file collections. The time.dat file must be populated and loaded using the legacy flat-file collections program.

For additional detail on how to populate time.dat, refer to the OATemplate.html file, which is available in the OATemplate.exe file. This file can be downloaded from a VCP application using the Supply Chain Collaborative Administrator responsibility.

Oracle Advanced Supply Chain Planning

- Supplier Capacities are not modeled in this integration. However, they can be defined on the VCP instance, or imported through Collaborative Planning.
- Order Modifiers are not modeled in this integration. However, item order modifiers can be defined on the VCP instance by using Item Simulation Sets.
- Firm Flag in ASCP is not published back to JDE E1 for Purchase Orders and Transfer Orders.
- Changing Suggested Ship Date from the Planning Work Bench is not supported for Purchase Requisitions (Transfer Orders).
- In JDE E E1, Shipping and Arrival Sets apply to an entire order. If ship or arrival dates are specified, these dates are the same for all order lines in an order.
- JDE E1 supports item substitutions at the item-Branch level, VCP only supports substitutions at the item level. Multiple substitutions for the same item are marked as duplicate. Also note that a substitution rule set up for any branch, will apply to all orgs in VCP.
- DRP: Load consolidation is supported only if inter-organizational shipping networks have been defined in JDE E1. Transport Mode is not collected for some JDE E1 configurations.
- DRP: JDE E1 has the concept of sales orders and transport orders; transfer orders are represented as Internal Sales Orders in VCP. Only sales order priorities are taken into consideration. Transfer order priorities are not considered.
- DRP: Transfer orders, shipments from suppliers and shipments to customers have default shipment methods associated with them. Only the default ship method is collected.

Publish sales order updates to JDE E1 ERP	No
DRP: Shipping and receiving calendars	No
Work center calendars	No
Co-products and by-products	No
Engineering Change Orders	No

Planned Inventory Points	No
Sequence Dependent Setups	Yes
Hard links and contiguous operations	No
Routing Minimum Transfer Quantities	No
Lot or batch-based resources	No
Phantom bills and routings	No
Inventory on-hand reservations	No
Alternate bill of materials and routings	Yes
The shrinkage setting: F: Fixed amount to be added to quantity	No
Customer and supplier orgs	No
Complex network routings (EBS OSFM/OPM routing equivalent)	No
Purchase Requisitions in a Purchase Order extract	No
Lot Control and Lot Expiration	No
End item and component substitution	No
Firming at the operation level	No
DRP: Release of make plan/work order recommendations (applies to DRP ONLY)"	No

Inventory Optimization

To use Inventory Optimization (IO), items considered by IO must have their MRP_SAFETY_STOCK_CODE changed from user-defined or non-MRP Planned to MRP Planned, using item mass maintenance.

Component substitution	No
Alternate bill of materials and routings	Yes
Service levels	No
Time phased user-defined or target safety stocks	No
Customer and supplier orgs	No

Service levels can be defined on the VCP instance. Time-phased user-defined or target safety stocks can be modeled directly on the VCP instance.

Production Scheduling

Production Scheduling can schedule both planned orders from ASCP and production work orders from JDE E1 ERP. ASCP must be used to release planned orders. Production Scheduling or ASCP can be used to release changes to production work orders.

Resources for a work order operation must adhere to a pre-defined resource template for an operation.

Alternate bill of materials and routings	Yes
Complex network routings (EBS OSFM/OPM routing equivalent)	No
Lot or batch based resources	No
Sequence Dependent Setups	Yes
Common resources across resource alternates within an operation	No
Hard links and contiguous operations	No
Firming at operation level	No

Strategic Network Optimization

Strategic Network Optimization does not consider JDE E1 Sales Orders as a source of demand.

Rapid Planning

JDE E1 does not support changing the supplier for purchase orders through Rapid Planning.

Rapid Planning lets you change the supplier on Purchase Orders, however this is not possible in E1 and consequently supplier changes are ignored.

Global Order Promising

In Oracle Global Order Promising (GOP), customers cannot exist in multiple companies.

The ATP Rules extract contains more fields than are visible in the JDE E1 ATP Rules window. Only the data displayed in the window needs to be populated. Additional fields in the extract, but not in the window, should be left at default values.

Service Parts Planning

Oracle Service Parts Planning (SPP) is not supported in this version of the VCP Base Pack integration. If you want to deploy SPP, you can leverage the SPP open interfaces for custom integration.

Demand Signal Repository

Oracle Demand Signal Repository (DSR) is a stand-alone product that is integrated with Oracle Demantra and can be leveraged by ERP customers. For more information on how to integrate DSR, please consult the DSR documentation on My Oracle Support.

Configured Items

JDE E1 supports configured items with BOM components of fixed, variable and derived (calculated) quantities. This integration supports fixed and variable quantities. For derived quantities, you must set up Planning BOMs.

Since Purchase Orders, Transfer Orders and Work Orders for configured items are created by JDE E1, planning updates from VCP are limited. Purchase Orders, Transfer Orders, and Work Orders for configured items are created by JDE E1.

- Planning recommendations for configured items are not published back to JDE E1.
- Updates for configured items are limited to date changes for work orders.

- Cancellations for configured items are not updated in JDE E1.

In JDE E1, an operation can have multiple resources with effective dates. For example, Global Order Promising can have one resource with an effective date range of Dec 1 to Jan 31 and a second resource with an effective date range of Feb 1 to 'end of horizon'. However in VCP, resources do not have effectivity dates. To model this in VCP you a second operation should be added, and each operation should have start and end dates.

- Forecasts, and Forecast consumption for "*" items is not supported
- Summary ATP is not supported, Profile MSC:ATP Summary Mode should be set to No.
- Option specific components are not supported by VCP.

Promising for configured orders requires GOP to run for either an ASCP plan or an RP plan. Therefore, promising for configured orders requires both a GOP license and an (ASCP or RP) license.

Configured items and star items must have at least one resource associated with each operation.

```
applmgr user id = 504
orasoa user id = 504
```

or

```
applmgr user id = 504
group dba id = 502
```

```
orasoa user id = 505
group dba id = 502
```

Alternate Bills of Material and Routings

Defining, Extracting, and Importing from E1 to VCP (UDC's 40/TB and 40/TR > R34A1020 UBE > Manufacturing.xml > APS Collections)

For each E1 Item Number – Branch/Plant:

- Define alternate bills of material with Type of Bill other than M.
- Define alternate routings with Routing Type other than M.

Oracle recommends:

- Using ALT for Type of Bill and Routing Type
- Setting them up in pairs using the same value to represent an alternate routing and alternate bill of material. For example, if you use Type of Bill ALT for an alternate bill of material, use ALT as Routing Type for its corresponding alternate routing.

If an item has multiple alternate bills of material and routings:

- Use the same values for each Type of Bill and Routing Type pair.
- Set the alternate names on each alternate bill of material and routing to indicate priority to VCP. VCP ranks alternate bills of material and routing pairs in alphanumeric order (VCP field Preference). For example, ALT1 has a higher rank than ALT2 and ALT2 has a higher rank than ALT3.

The import process fills the VCP organization – item with:

- Alternate Routing Designator from Routing Type
- Alternate BOM Designator from Type of Bill
- Preference based on the alphanumeric order of the Type of Bill - Routing Type's

Although you can have alternate bills of material and routings in E1, based on batch size, all alternate bills of material and routings that pass to VCP arrive with batch size zero.

Work Orders: Extracting and Importing from E1 to VCP (R34A1030 UBE > WorkOrders.xml > APS Collections)

The import process fills the VCP work order:

- Alternate Routing Designator for the supplies and resource requirements information from Routing Type
- Alternate BOM Designator for the supplies and WIP component demand information from Type of Bill

If Type of Bill and Routing Type are not the same, then it:

- Logs a warning
- Uses Routing Type for both

Make Orders: Releasing from VCP and Importing to E1 (R34A1500 UBE > DetailProductionPlan.xml)

The import process fills the E1 work order Type of Bill and Routing Type from the VCP planned order Alternate Routing Designator and Alternate BOM Designator.

For reschedule in, reschedule out, and cancel recommendations, the process does not fill the E1 work order Type of Bill and Routing Type from the VCP work order Alternate Routing Designator and Alternate BOM Designator. The VCP planner should not change the alternate designators as they came from E1.

Configured Items

When the extract process finds a Planning Bill (PB) bill type for a configured item (a VCP model), it extracts the PB bill type, but changes the Bill Type to M in

Manufacturing.xml. This makes the planning bill the primary bill used with the primary routing.

You can use alternate bills of material and routings for both standard and configured items.

Overview of JDE E1 or PeopleSoft to VCP Integration

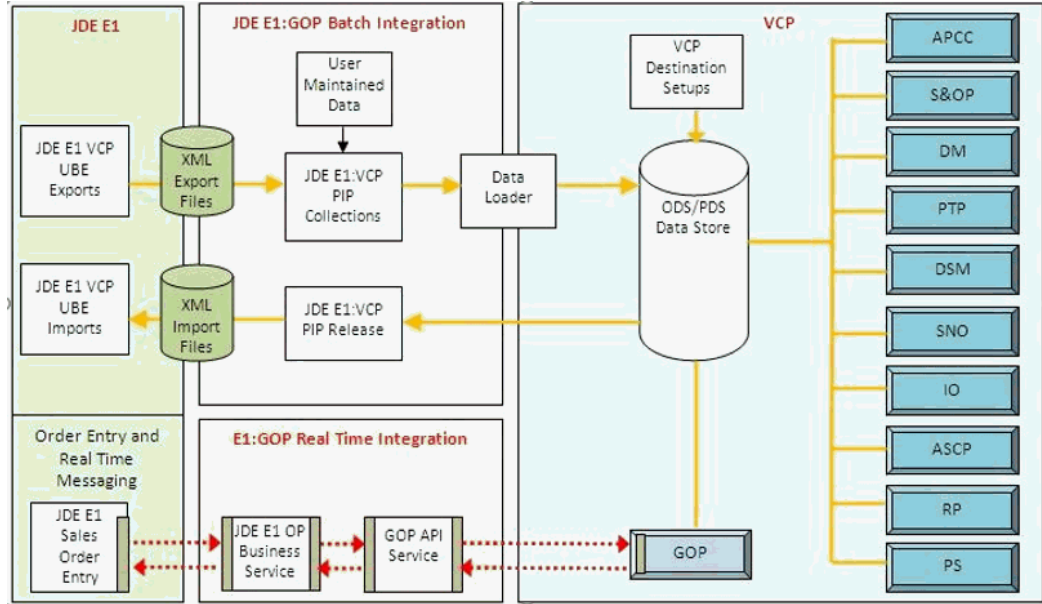
This chapter covers the following topics:

- Overview

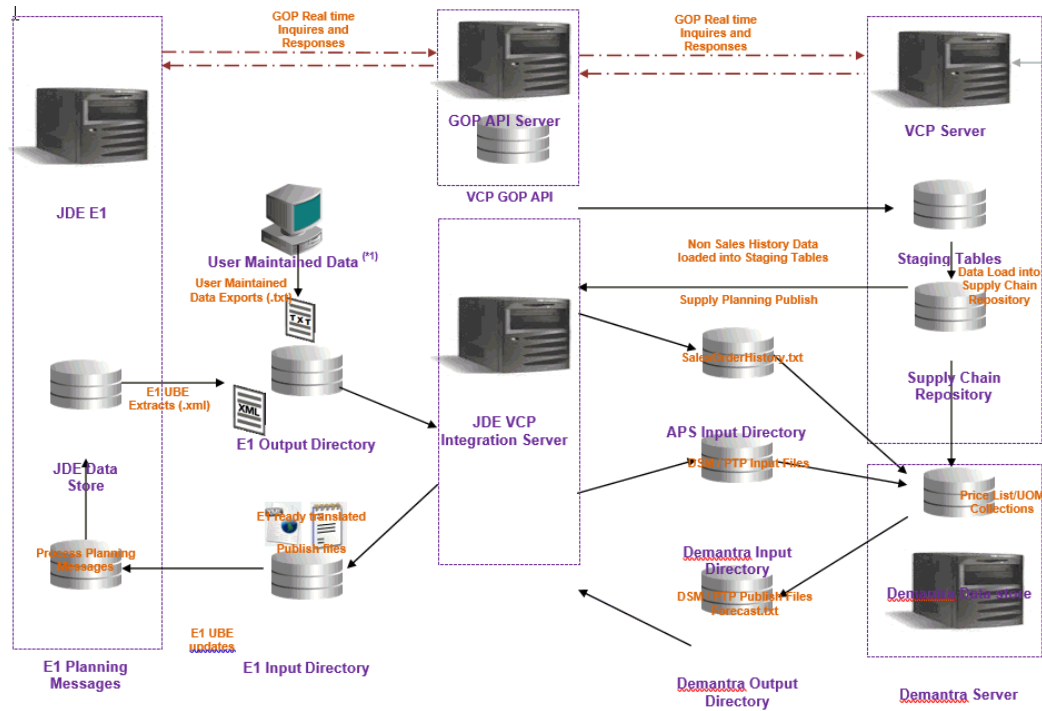
Overview

The JDE E1 or PeopleSoft to VCP integration is based on a file exchange between the two systems, with no direct database interaction. For real time order promising, the data exchange is facilitated by a web-based application, with no direct database interaction.

Important: The PeopleSoft integration is similar to the following diagrams but is only for Demantra Demand Management.



The integration is described in more detail in the following diagram, followed by a description of the various entities.



Description of the above process steps (orange) in the JDE E1 Integration Data Flow diagram include:

GOP Real time Inquiries and Responses	Real time messaging between the JDE E1 and VCP/GOP server used for Global Order Promising.
E1:VCP Data Collections (Supply and Demand Management)	<p>These processes are triggered from the Value Chain Planning menu.</p> <p>This process:</p> <ul style="list-style-type: none"> • Optionally can call the JDE E1 extract process (dependent upon system compatibility) • Takes data from the JDE E1 Output Directory • Transforms the data into VCP format • Loads data into the Staging tables and/or • Loads data into SalesOrderHistory.txt in "SCR Input Directory" • As the last part of the process, the system will call the common process to load data from the staging tables into the main SCR Data Store (some Demantra flows will instead call a Demantra workflow) • Allows hooks for user extensions
E1 UBE Extracts	UBEs extract Supply Chain information from JDE Data Store into the JDE E1 Output Directory (or local directory if not directly accessible). These files are typically in XML format although some are tab delimited .txt files.
User Maintained Data Exports	A Publish action in the Manage Integration Parameters user interface exports the user-maintained planning data that is not in JDE E1. These data files need to be stored in the same directory as the E1 extract files.

Create SalesOrderHistory.txt/ Non Sales History Data loaded into Staging tables

The ODI middleware takes the combined dataset in the JDE E1 Output Directory and loads the MSC_ST_% tables in the VCP database, except in the case of SalesOrderHistory.txt which is kept in file form after transformations.

Data Load into SCR Repository

This is a common process used by collections from other source systems as well as E1, this process is automatically called by the JDE E1 data collections process as its final transformation/ data load step. Demantra collections will not call this process, but instead will call a Demantra workflow.

E1:VCP Publish – Supply Planning

This process is triggered from the Publish Planning Results menu option in planning.

- Triggers an ODI process that extracts the selected planning results from the VCP data store.
- This process will reverse translate any codes that we converted in the JDE E1 Data Collections process.
- Optionally can call the JDE E1 update UBEs (dependent upon system compatibility)
- Allows hooks for user extensions

Supply Planning Publish

ODI publish packages extract Work Order, Transfer Order and Purchase Order information from the planning system.

JDE E1 ready translated Publish files

The ODI publish packages generates XML files with the planning results and stores these in the JDE E1 Input Directory.

JDE E1 UBE Updates

Takes the Planning Result files in the JDE E1 Input Directory and loads them into JDE E1.

Note: Planning results for CTO items (only dates are changed) are not loaded into the JDE E1 Planning Messages store but are updated directly into the main JDE E1 data store.

Process Planning Messages

A standard JDE E1 function which is used to promote planning messages (action messages on Purchase Orders, Transfer Orders, and Work Orders) into the JDE Data Store. CTO items are not processed by this function.

JDE E1:VCP Data Collections Forecasting / PTP/DSM

This process is triggered from the various Collections in the planning menu. This covers:

- Collect Predictive Trade Planning Data
- Collect Deduction Settlement Data

This process:

- Optionally can call the JDE E1 extract process (dependent upon system compatibility)
- Takes data from the JDE E1 Output Directory
- Transforms the data into VCP format
- Loads data into the Demantra PTP Input Directory
- Loads the data into Demantra
- Allows hooks for user extensions

JDE E1 UBE Extracts

UBEs extracts Supply Chain information from JDE Data Store into the JDE E1 Output Directory (or local directory if not directly accessible). These files are typically in XML format

DSM / PTP Input Files in the "Demantra Input Directory"

The integration process transforms the data files used by Forecasting /PTP/DSM extracted from JDE E1 and places them into the Demantra Input Directory. Transformations are in terms of customer codes etc to make them compatible with the customer codes used by VCP.

Users can then run the appropriate Demantra workflows to load the data.

JDE E1:VCP Data Publish Forecasting/PTP/DSM

This process is triggered from the various Publishes in the planning menu. This covers:

- Publish Forecast to Source Systems
- Publish Predictive Trade Planning Results
- Publish Deduction Settlement Management

This process:

- Extracts data from the Demantra database and stores the extracted txt files in the Demantra Output Directory.
- Will reverse translate any codes that were converted in the JDE E1 Data Collections process.
- Optionally can call the JDE E1 update UBEs (dependent upon system compatibility)
- Allows hooks for user extensions

DSM / PTP Publish Files, Forecast.txt

The data from Demantra is stored in flat files (.txt) in the "Demantra Output Directory".

E1 ready translated Publish files

The integration process translates any customer codes back into JDE E1 format and places the updated files in the "E1 Input Directory"

E1 UBE Updates	Unlike the planning result update UBEs, the updates for forecasting, PTP and DSM does not use the E1 Planning Messages tables but directly updates JDE E1.
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Description of the data stores/servers (in purple) in the JDE E1 Integration Data Flow diagram.

JDE Data Store	Contains Master and Transactional information for the JDE system
E1 GOP API	Not a physical drive, but represents the logical API used for real time communications between the two systems.
GOP Web Logic Server	Handles the real time communication between JDE E1 and GOP.
User Maintained Data	A user interface, called Manage Integration Parameters, contains data required for Value Chain Planning but is not available in JDE E1. The publish button allows data to be exported into tab delimited files for use by the integration.
E1 Output Directory	<p>A data store that contains all the Supply Chain data required for the integration. This includes extracts from JDE E1 (generally XML files) and exports from the User Maintained Data (tab delimited .txt files)</p> <p>If the JDE E1 system cannot directly access the JDE E1 output Directory, then after the extract, these files need to be sent by FTP to the JDE E1 Output Directory on the integration server.</p>

JDE VCP Integration Server	<p>This server hosts the integration and :</p> <ul style="list-style-type: none"> • Has access to the four directories • Has access to the SCR database • Can call processes on the VCP server • Can potentially call processes on the JDE E1 server (to automatically trigger the JDE E1 extracts)
APS Input Directory	<p>The integration generally loads the data into Staging tables in the Demand and Supply planning repository. However, as Sales Order History is frequently an extremely large file and only used by Demantra applications, this file is directly imported into Demand Management. SalesOrderHistory.txt is the ONLY file stored in the APS Input Directory.</p>
VCP Server	<p>The server represents the planning server and has access to:</p> <ul style="list-style-type: none"> • The VCP SCR data store • APS Input directory • Can call processes on the Integration server
Supply Chain Repository Staging tables	<p>These tables hold supply chain data prior to being loaded into the main data store.</p>
Supply Chain Repository	<p>This data store is used by the Supply Planning and Demand Management systems.</p> <p>Results from the planning processes are also stored in this data store which can then be published.</p>
Demantra Input Directory	<p>This directory contains the input files to Demantra for DSM/PTP.</p>

Demantra Server/Data store	The server for Demand Forecasting and Trade Promotions management.
Demantra Output Directory	This directory contains the output files from Demantra for DSM/PTP and the forecast file forecast.txt.
E1 Input Directory	This directory stores the supply planning publish XML files and forecast.txt for loading into JDE E1.
E1 Planning Messages	<p>A staging area in JDE E1 where planning messages are stored prior to being updated into the main JDE E1 data store. Approval of these planning messages can be automatic or manual.</p> <p>Note: Although generally data goes through the planning messages as a staging area before being updated into JDE E1, some data (CTO items and forecasts) do not go through this step.</p>
APS Output Directory	The PIP configuration may require you to define a sixth directory, the APS Output Directory, this directory is not used by the integration and no files are read from or written to this directory. When defining PIP directories this parameter can be set to any directory location.

Understanding Batch Integration

This chapter discusses the batch integration process between JDE E1 or PeopleSoft and Value Chain Planning and includes details about:

This chapter covers the following topics:

- Overview
- Collecting Planning Data
- Publishing Planning Results
- Collecting Sales History
- Collecting Price List and UOM
- Publishing Forecast to Source System
- Collecting PTP Data
- Publishing PTP Results
- Collect Deductions Settlement Management Data
- Publish Deductions Settlement Management Results

Overview

Note: PeopleSoft can only be integrated with Demantra Demand Management. Because of this, there are limited menu options for PeopleSoft users. For the menu options that are available to both JDE E1 and PeopleSoft users, the functionality is the same.

- Only one collection process can run at a time.
- Special actions are required when importing data from more than one source instance into a single planning instance.

- A single integration instance cannot support multiple planning instances.

The collection and publish processes have a common structure. For collection menu options, the system extracts data from JDE E1 or PeopleSoft, performs the data transformations, and loads the data into the destination application. The Collection process does not extract the data unless it is configured as a pre-process function.

For publication menu options, the system extracts the data from VCP (PDS or Demantra), performs the data transformations, and creates the required files for loading the data into JDE E1. The Publication process does not run the UBE package to load the data into JDE E1 or PeopleSoft unless it is configured as a post-process function.

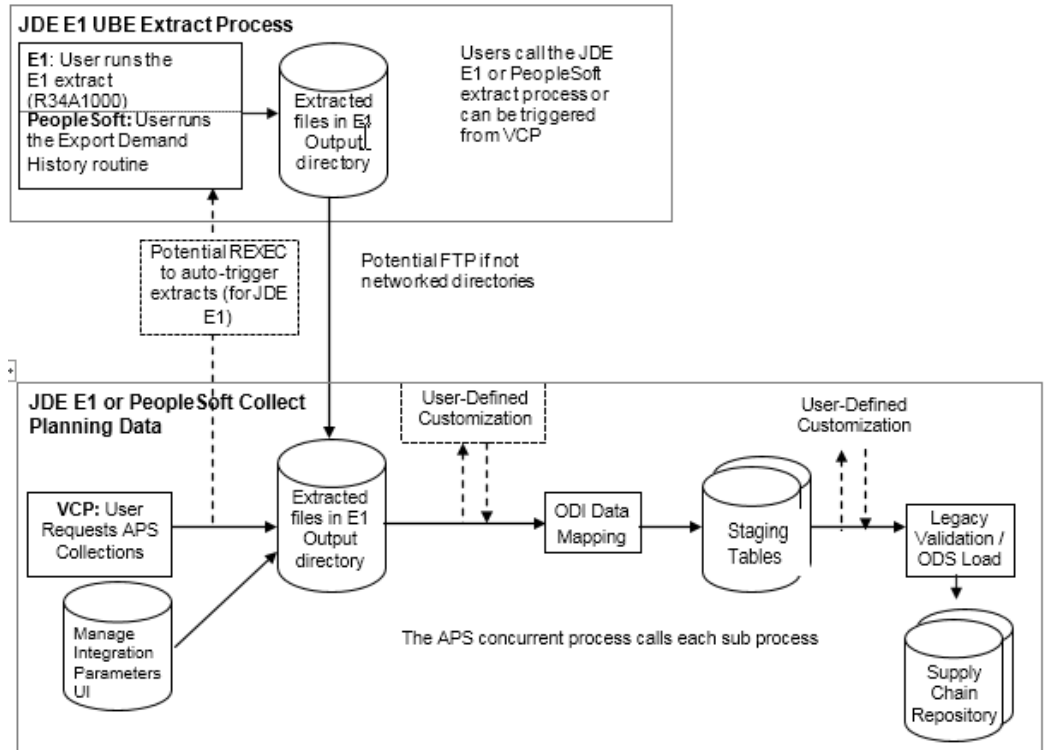
Collecting Planning Data

The Collect Planning Data collection process is the cornerstone of the integration between JDE E1 or PeopleSoft and VCP. Demantra Demand Management, Oracle Predictive Trade Planning (PTP), Oracle Deductions Settlement Management (DSM), and Oracle Value Chain Planning users must run this process to load in order for the base information such as customers, branches and items into the database.

VCP also uses this process to load supply chain data such as routings, bill of materials, safety stock levels, work orders, and purchase orders.

Collect Planning Flow

The following diagram outlines the Collect Planning Data flow for JDE E1 users:



Note: The directories are named E1 Output Directory and E1 Input Directory for both JDE E1 and PeopleSoft source systems.

Collecting Planning Options

Data can be loaded on a component by component basis. However, the components must be loaded in the sequence they appear in the VCP Collect Planning Data page.

The Collect Planning options include:

Instance	The name of the JDE E1 or PeopleSoft instance, as defined in VCP.
Base Date	Use Today. This value depreciates over time.
Calendars	Values are Yes and No
Trading Partners	Yes/No: Loads Branches (Organization), Suppliers and Customers. Also includes Trading Partner Sites and Locations

Planners	Values are Yes and No
UOMs	Values are Yes and No
Items	Values are Yes and No, includes Product Families and Categories
Resources	Values are Yes and No, includes Resource Groups and Resource Shifts
Routings	Values are Yes and No
Operations	Values are Yes and No, includes Operation-Resources
BOMs	Values are Yes and No, includes BOM Components
Demand Classes	Values are Yes and No
Sales Channels	Values are Yes and No
Price Lists	Values are Yes and No, includes Shipping Methods
Item Suppliers	Values are Yes and No
On Hand Supplies	Values are Yes and No
Safety Stock Levels	Values are Yes and No
Purchase Order Supplies	Values are Yes and No
Requisition Supplies	Values are Yes and No, includes Transfers
Intransit Supplies	Values are Yes and No
External Forecasts	Values are Yes and No, includes forecasts from JDE E1 or a third party
Sales Orders	Values are Yes and No

Work Orders	Values are Yes and No
-------------	-----------------------

ATP Rules	Values are Yes and No
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When integrating to only Demantra Demand Management:

- Calendars need to be collected first (and only on subsequent runs) if the calendar has changed or extended.
- After loading calendars, select the following components to load options:
 - Trading Partners
 - Demand Classes
 - Sales Channels
 - Price Lists
 - UOMs
 - Items

Collecting Planning Files

The Collect Planning Data flow uses the following ERP extract files:

- Base.xml
- BeginningInventory.xml
- Calendar.txt
- Customer.xml
- Distribution.xml
- Manufacturing.xml
- PurchaseOrders.xml
- SalesOrders.xml
- Supplier.xml
- TimeSeries.xml

- TransferOrders.xml
- WorkOrders.xml

The Manage Integration Parameters UI exports the following text files:

- Parameters.txt
- TranslationTable.txt
- ShiftInformation.txt
- ShiftDetails.txt
- ResourceGroups.txt
- ResourceGroupDetails.txt
- SetUpDefinitions.txt
- SetUpAllocations.txt
- SetUpTransitions.txt
- StandardOperation.txt
- ShippingMethod.txt
- StandardUOMConversions.txt

For Demantra only implementations, the following files must be populated with data:

- Calendar.txt
- Base.xml
- Customer.xml
- SalesOrderHistory.txt
- Parameters.txt
- TranslationTable.txt
- ShiftInformation.txt
- ShiftDetails.txt
- StandardUOMConversions.txt

Note: The integration requires all files to be present, even if they are empty.

For example, even though Demantra users only need to generate these files, the other xml files (such as Manufacturing.xml) must be present and contain xml header information.

PeopleSoft users: You can maintain ShiftInformation.txt, ShiftDetails.txt and StandardUOMConversions.txt using the Manage Integration Parameters user interface, or you can maintain these files in PeopleSoft and extract them when Base.xml is extracted.

PeopleSoft users: The SalesOrderHistory.xml file, used in a later collections flow, is also generated in the Export Demand History process. It does not need to be re-generated at that time if it is generated in this flow.

The source system for the Collect Planning Data input files includes:

File	Needed for Demantra Implementation Only	JDE E1 Source	PeopleSoft Source
Base.xml	Yes	R34A1010	Export Demand History
BeginningInventory.xml	No	R34A1070	Export Demand History
Calendar.txt	Yes	R34A610	Export Demand History
Customer.xml	Yes	R34A1040	Export Demand History
Distribution.xml	No	R34A1090/1095	Export Demand History
Manufacturing.xml	No	R34A1020 R34A1020B (BOM) R34A1020S (Star items) R34A1020C (Configured items)	Export Demand History

File	Needed for Demantra Implementation Only	JDE E1 Source	PeopleSoft Source
PurchaseOrders.xml	No	R34A1060	Export Demand History
SalesOrders.xml	No	R34A1050	Export Demand History
Supplier.xml	No	R34A1120	Export Demand History
TimeSeries.xml	No	R34A1130	Export Demand History
TransferOrders.xml	No	R34A1080	Export Demand History
WorkOrders.xml	No	R34A1030	Export Demand History
Parameters.txt	Yes	Manage Integration Parameters UI	Manage Integration Parameters UI
TranslationTable.txt	Yes	Manage Integration Parameters UI	Manage Integration Parameters UI
ShiftInformation.txt	Yes	Manage Integration Parameters UI	Manage Integration Parameters UI or Export Demand History
ShiftDetails.txt	Yes	Manage Integration Parameters UI	Manage Integration Parameters UI or Export Demand History
StandardUOMConversions.txt	Yes	Manage Integration Parameters UI	Manage Integration Parameters UI or Export Demand History

The parent UBE for all JDE UBEs is R34A1000.

Monitoring the Load Process

Use the Requests view to monitor the loading progress and view log files. To access the Request view, navigate to the EBS menu path View, Requests.

Identifying Errors

Data integrity errors detected during the load are stored in the ERROR_TEXT field in the appropriate staging table, for example, MSC_ST_PLANNERS.

Clearing Previous Data Loads

When rerunning a collection, clear previously loaded stage data by running the Purge Interface Tables process. This process deletes all records except:

- Calendars
- UOM's
- Category Sets
- Trading Partners

To access the Purge Interface Tables, navigate to Advanced Supply Chain Planner, Collections, Legacy Systems.

Viewing Collected Data

Use the VCP menu path to view collected data. To access the VCP menu path, navigate to Supply Chain Planner, Collections, View Collected Data.

For example, you can view data by organization by locating a collected organization, then drilling down to find the other loaded items.

Publishing Planning Results

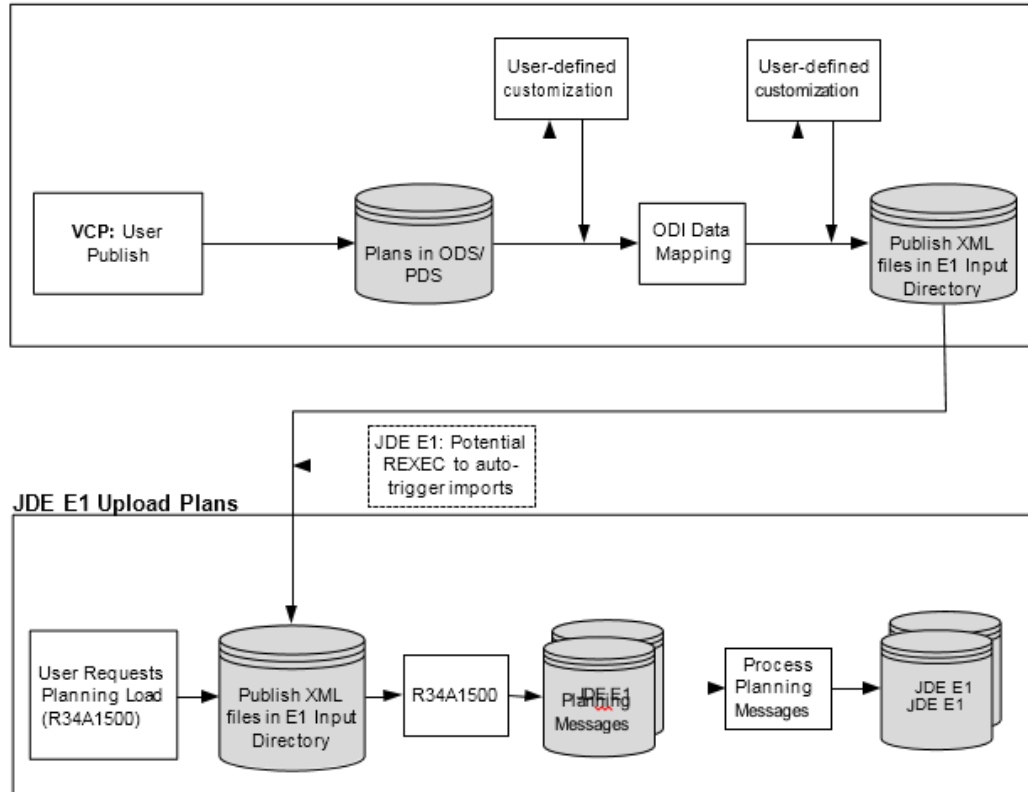
This process publishes planning results back to JDE E1.

Note: You must complete the planning process, including publishing to JDE E1 before beginning a new JDE E1 extract for a new planning cycle.

Publishing Planning Results Flow

The following diagram outlines the Publish Planning Results collections flow:

APS Publish Planning Results Process



The VCP concurrent process copies the files and calls each sub-process.

Publishing Planning Results Options

The Publishing Planning Results Options are as follows:

Instance	The name of the JDE E1 or PeopleSoft instance as defined in VCP
Plan	The VCP plan to publish
Purchase Plan	Yes/No: If the Purchase Plan is to be published
Deployment Plan	Yes/No: If the Deployment (transfers) Plan is to be published
Detailed Production Plan	Yes/No: If the Work Order Plan is to be published

Publishing Planning Results Files

For JDE E1 users, the following environment files are impacted by the Publishing Planning Results flow:

- Deployment Plan.xml (Transfer Order)
- Detailed Production Plan.xml (Work Order additions or modifications)
- Master Production Schedule.xml (Work Order deletions)
- PurchasePlan.xml (Purchase Orders)

Collecting Sales History

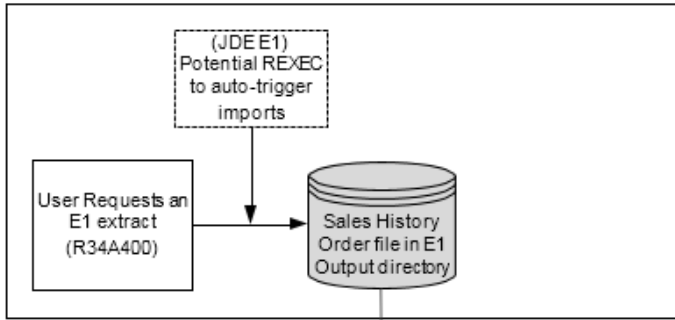
This process loads sales history into Demantra tables.

Important: The Collect Planning Data process must be completed before launching the Collect Sales History collection process.

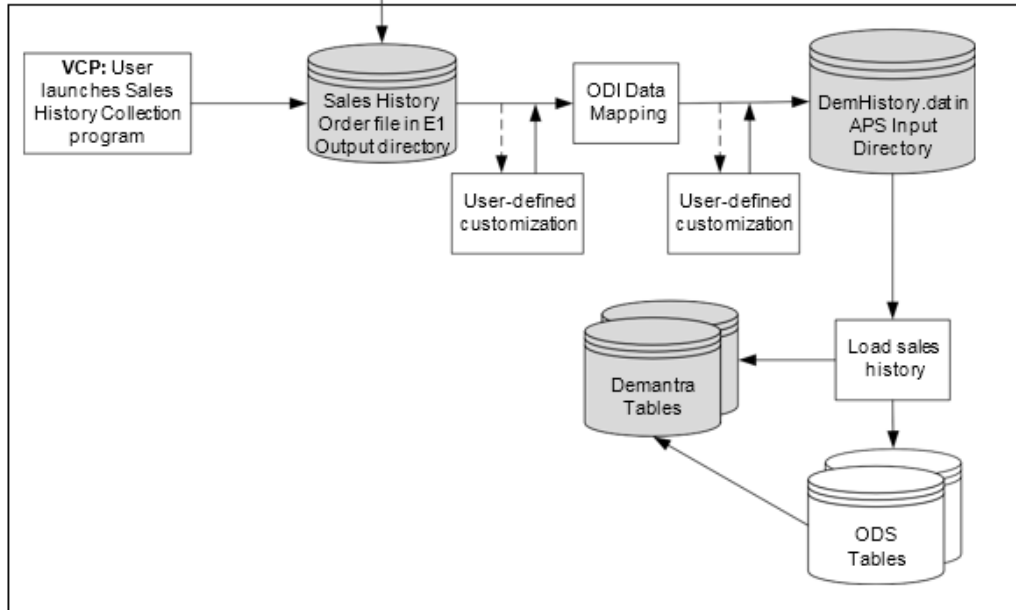
Collecting Sales History Flow

Sales order history can be downloaded from R34A1000 or R34A400. The following diagram outlines the Collect Sales History collections flow:

JDE E1 Sales Order History Extract Process



Demantra PTP Collections Flow



Collecting Sales History Options

The Collect Sales History options are as follows:

Instance	The name of the JDE E1 or PeopleSoft instance as defined in VCP.
----------	--

Auto Download

Yes: Collects sales history and item-/location data into Demantra staging tables and launches the 'EBS Full Download' workflow.

No: Collects sales history and item-location data into Demantra staging tables. User has to manually launch the 'EBS Full Download' workflow

Collecting Sales History Files

The SalesOrderHistory.txt file is impacted by the Publish Planning Results flow.

After performing the ODI data mapping, the name of this file changes to DemHistory.dat.

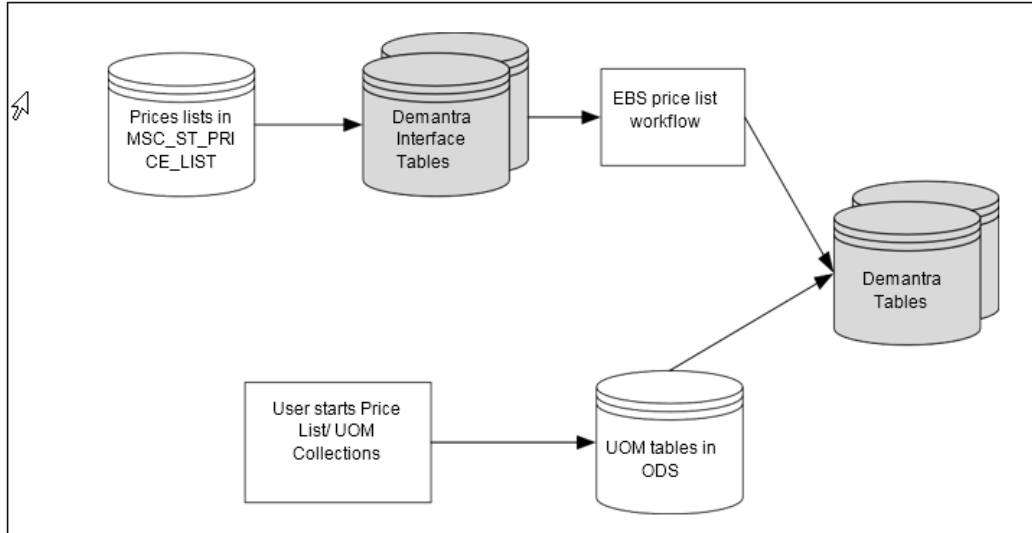
Collecting Price List and UOM

You must run the Collect Planning Data process before you run the Collect Price List and the UOM collection. After running the Collect Planning Data process, units of measure data resides in the Operational Data Store and the price list resides in the MSC_ST_PRICE_LIST staging table.

Collect PriceList and UOM Flow

The following diagram illustrates the Collect Price List and UOM flow:

Price List and UOM collections



You can launch the EBS Price List Download workflow from Demantra workflow manager after the Collect Price List and UOMs concurrent program is complete. This workflow downloads the price list from the Demantra price list staging tables to the Demantra base tables.

Price List and UOM collections should only be launched after the Collect Sales History collection program is complete.

Note: The base UOM for an item needs to be the same across all branches and defined in the master branch. Specific price lists or units of measure cannot be excluded.

Collect Price List and UOM Options

The Collect Price List and UOM options include:

Instance	The name of the JDE E1 or PeopleSoft instance, as defined in VCP
Price List	Yes/No: If Price List is to be collected
UOM	Yes/No: If UOMs are to be collected

Collect Price List and UOM Files

The following files are read by the Collect Price List and UOM flow:

- Base.xml
- Customer.xml

Publishing Forecast to Source System

Forecasts can be published from Demantra to:

- A source ERP system
- The Oracle VCP planning system
- To both a source ERP and the Oracle VCP planning system

This section discusses publishing a forecast from Demantra to a source ERP system. Standard Demantra workflows are used to publish to the Oracle VCP planning system.

This collection uses the Legacy Forecast Publish process to launch the Publish Forecast to Source System program. This program generates the forecast.txt file which can be loaded into JDE E1 or PeopleSoft.

The Oracle VCP Publish Forecast to Source System collection completes the following steps:

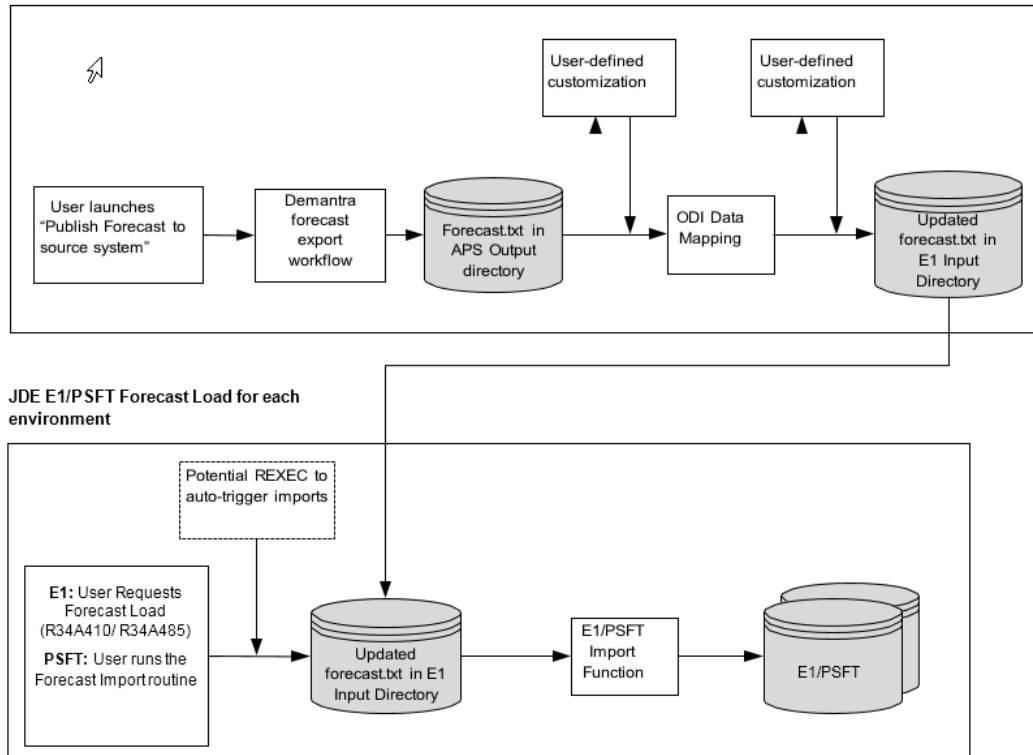
1. Run the Demantra forecast export workflow. This writes the file Forecast.txt to the Demantra Output Directory.
2. Run optional user-defined customization files.
3. Trigger the ODI stream.

The forecast.txt file can contain forecast values across multiple instances. The ODI process filters the records so that only the forecast values for branch codes associated with the current ERP instance are included.

Publish Forecast to Source System Flow

The following diagram illustrates the Publish Forecast to Source System Flow:

Publish Forecast Program



Publish Forecast Program

Publish Forecast to Source System Options

The Publish Forecast to Source System options include:

Instance	The name of the JDE E1 or PeopleSoft instance as defined in VCP
----------	---

Publish Forecast to Source System Files

The Forecast.txt environment file is impacted by the Publish Forecast to Source System flow.

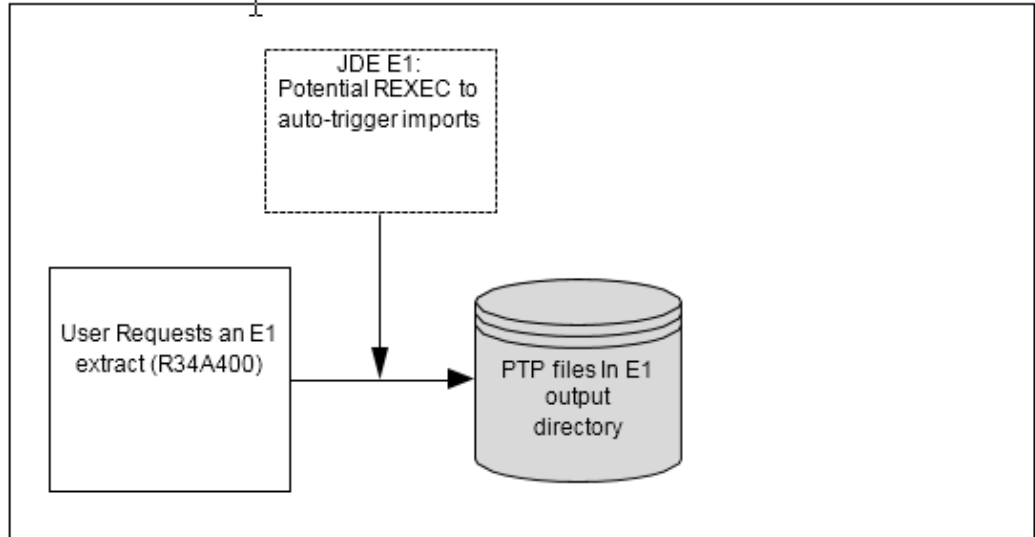
Collecting PTP Data

This section only applies to JDE users.

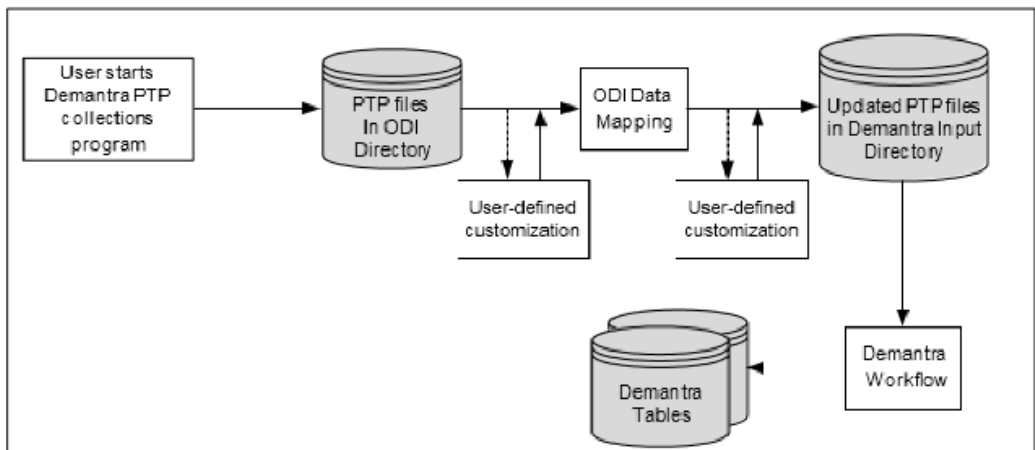
Collect Predictive Trade Planning Flow

The following diagram illustrates the Collect Predictive Trade Planning flow:

JDE E1 Sales PTP Process



Demantra PTP Collections Flow



The VCP concurrent process performs the file copies between the ODI and Demantra DB server directories and calls each sub process.

Collect Predictive Trade Planning Options

The Collect Predictive Trade Planning options include:

Instance	The name of the JDE E1 or PeopleSoft instance as defined in VCP
List Price	Yes/No: If List Price is to be collected
Item Cost	Yes/No: If Item Costs are to be collected
Price History	Yes/No: If Price History is to be collected

Collect Predictive Trade Planning Files

The following environment files are impacted by the Collect Predictive Trade Planning flow:

- ListPrice.txt
- ItemCost.txt
- PriceHistory.txt

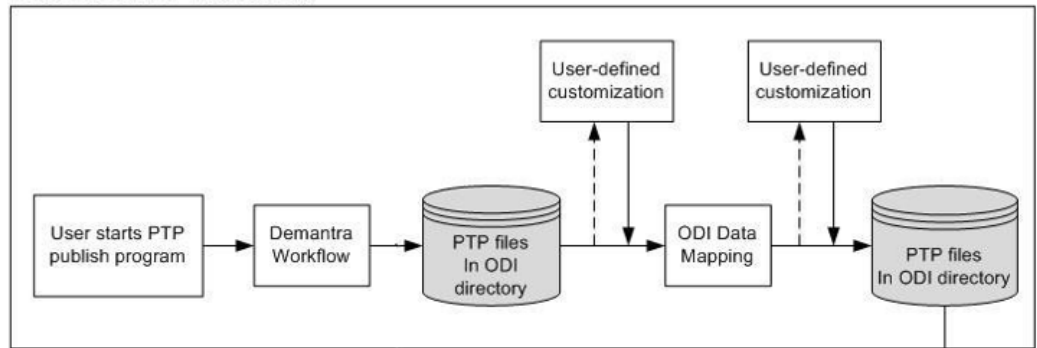
Publishing PTP Results

This section only applies to JDE users.

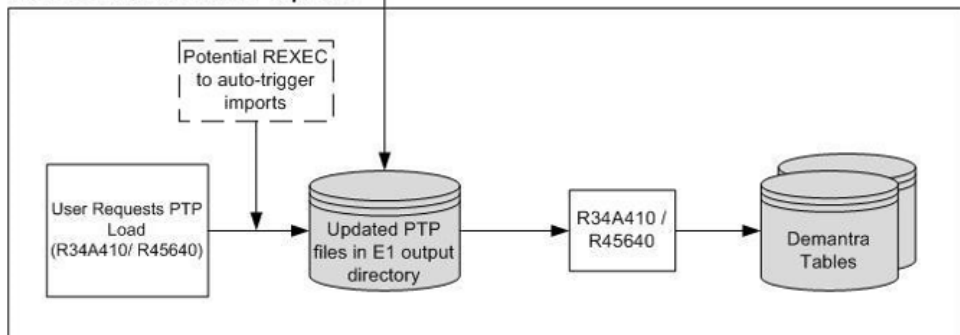
Publish Predictive Trade Planning Flow

The following diagram illustrates the Publish Predictive Trade Planning flow:

Demantra PTP Publish Flow



JDE E1 Deductions PTP Upload



Publish Predictive Trade Planning Options

The Publish Predictive Trade Planning Options include:

Instance	The name of the JDE E1 or PeopleSoft instance is defined in VCP
----------	---

Publish Predictive Trade Planning Files

The Publish Predictive Trade Planning flow impacts the following files:

- PromotionPricing.txt
- Delete_PromoPricing.txt

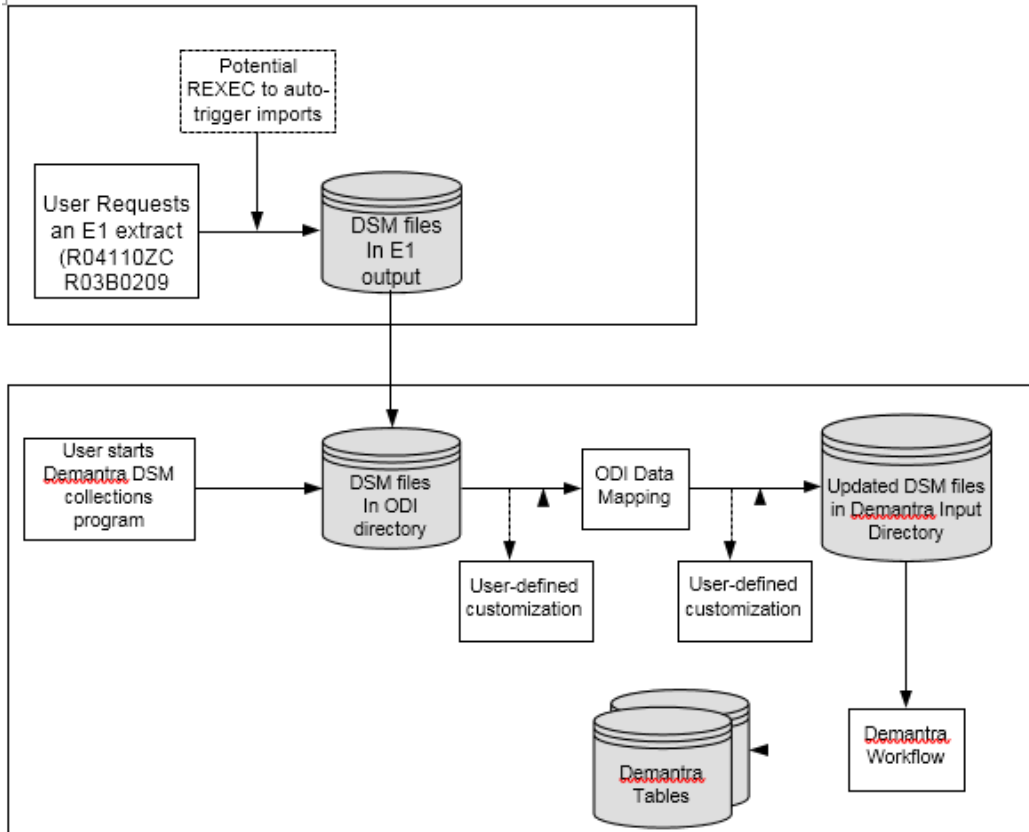
Collect Deductions Settlement Management Data

This section only applies to JDE users.

Collect Deductions Settlement Management Data Flow

The following diagram outlines the Collect Deductions Settlement Management Data flow:

JDE E1 Deductions Settlement Management Extract Process



Demantra Deductions and Settlement Management Collections Flow

Collect Deductions Settlement Management Data Options

The Collect Deductions Settlement Management Data includes:

Instance	The name of the JDE E1 or PeopleSoft instance as defined in VCP
Load Payment Confirmations	Yes/No
Load Deductions	Yes/No

Collect Deductions Settlement Management Data Files

The Collect Deductions Settlement Management Data flow impacts the following files:

- Deductions.txt
- APConfirm.txt

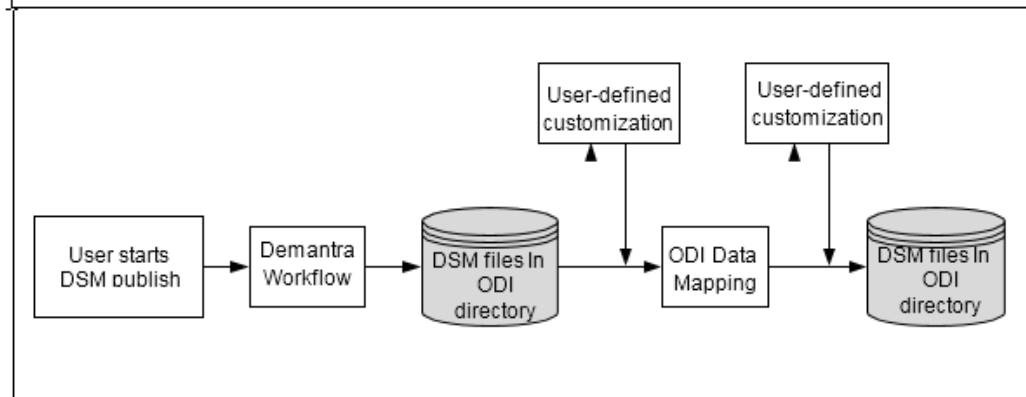
Publish Deductions Settlement Management Results

This process publishes the results of a Publish Deductions Settlement Management collection.

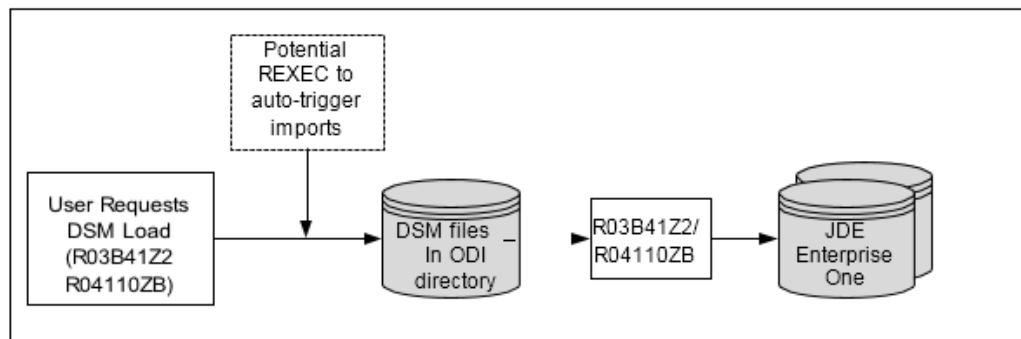
Publish Deductions Settlement Management Results Flow

The following diagram illustrates the Publish Deductions Settlement Management Results flow:

Demantra DSM Publish Flow



JDE EnterpriseOne DSM Load



Publish Deductions Settlement Management Results Options

The Publish Deductions Settlement Management Results options include:

Instance	The name of the JDE E1 or PeopleSoft instance as defined in VCP
Publish Claims	Yes/No
Publish Deduction Dispositions	Yes/No

Publish Deductions Settlement Management Results Files

The Publish Deductions Settlement Management Results flow impacts the following files:

- DeductionDispositions.txt
- Claim.txt

Understanding Real-time Integration

This chapter covers the following topics:

- Understanding the Global Order Promising Business Infrastructure
- Understanding the Global Order Promising User Experience

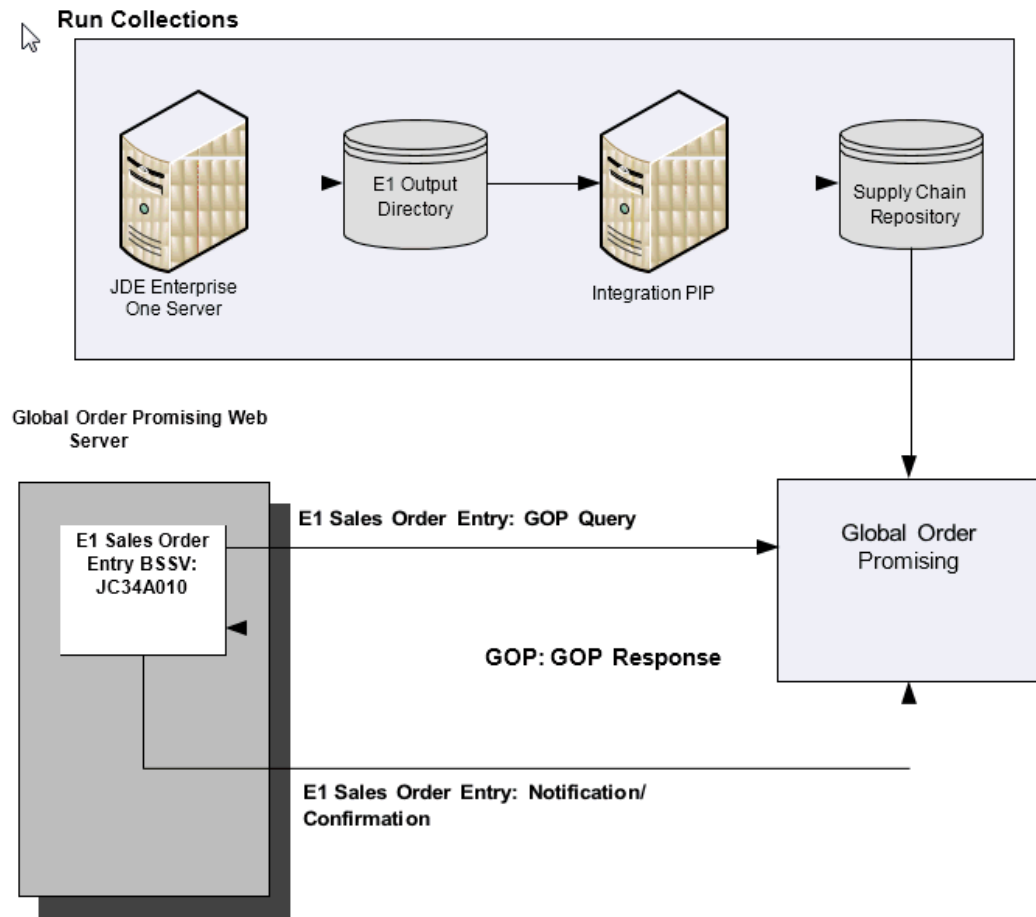
Understanding the Global Order Promising Business Infrastructure

Global Order Promising (GOP) uses the Planning Collections process to collect information about the supply chain such as:

- Items
- Branches
- Customers
- Calendars
- Resources
- Routings/BOMs
- Inventory Levels
- Purchase Orders
- Work Orders
- Sales Orders
- Substitutions
- ATP Rules

Real-time messaging performs the following tasks between JDE E1 and GOP to retrieve the order promise date. This is a three step process that includes:

1. In Sales Order Entry, a JDE E1 user requests a promise date from GOP.
2. GOP messages the JDE E1 Sales Order Entry with the calculated promise date.
3. When the sales order is complete, JDE E1 sends a confirmation message make to GOP.



Understanding the Global Order Promising User Experience

After installing the appropriate software components, you must configure various real-time Order Promising components that includes:

1. Configure JDE Enterprise One for GOP.

Additional Information: For additional information, see Configure JDE Enterprise One for GOP.

2. Configure VCP GOP for E1 Integration.

Additional Information: For additional information, see Configure VCP GOP for JDE E1 Integration.

3. Configure the Web Server for E1:GOP Integration.

Additional Information: For additional information, see Configuring the GOP Web Service Data Source.

After configuring these components, perform the following maintenance tasks:

1. Create ATP Rules.

ATP rules allow you to define order promising strategies and associate them with rules.

2. Maintain the fields associated with GOP on the Item Master/Branch (Tab 2: Value Chain Planning).

- Constraints Flag (Item included in VCP)
- Sellable
- Check ATP
- ATP Components
- ATP Rule name
- ATO Forecast Control

3. Maintain the following fields associated with GOP in the customer records:

- Ship/Delivery Date
- Back Orders Allowed
- Substitutes Allowed
- Partial Shipments Allowed

- Partial Order Shipments Allowed

Order inclusion rules must be set in order for a specific order type or line combination to be promisable. These tasks also require ongoing system maintenance.

During the Order Entry Process:

1. Define the Order Promising options, in the Order Promising Overrides tab in Order Entry, the default value for these fields comes from the values set for the Customer.
 - Back Orders Allowed
 - Substitutes Allowed
 - Partial Shipments Allowed
 - Partial Order Shipments Allowed
2. Enter the Sales Order Header/Lines.
3. You can then request a Promise date by using Form Exit GLOB Order Promising.
At this time, the JDE E1 Sales Order Entry application will pass the relevant information to GOP as GOP Query using BSSV JC34A010. GOP will then respond with the appropriate promise date(s).
4. You can then review the results, and potentially change some order details and repeat the Order Promising Query.
5. When the order is committed/save, JDE E1 calls GOP using BSSV J34AC010 in ReSchedule mode to update GOP with the final Order Information.
The above is part of the JDE Sales Order Entry process.

Alternate Integration Scenarios

This chapter describes how implementers can address common scenarios with the VCP Base Pack integration.

This chapter covers the following topics:

- Information Sharing Options
- Combining Extracts and Collections Across Systems
- Multiple JDE E1 Instances
- User Security

Information Sharing Options

The JDE E1 or PeopleSoft source system and the VCP integration system are typically on different servers. If these servers run different operating systems, you must ensure that the directories can communicate with each other.

For example, many JDE E1 systems operate on the AS400 platform. However, the VCP integration is not supported on the AS400 platform. Directories cannot be shared between AS400 and Unix/Linux systems, so an alternate sharing strategy must be adopted.

Directories used in the integration can be either:

- Shared or
- Non-Shared

The use of shared directories is the optimal solution. However, for security or server technology reasons, it might not be possible to use shared directories. In this case, an alternate sharing strategy is to use File Transfer Protocol (FTP).

Shared Directory Access

Shared directories can also be referred to as a network shared drive or as a shared mount.

In the shared directory scenario, a directory needs to be accessible to all the servers accessing that directory, although the directory itself does not need to be on any of the servers involved.

The shared directory must be read and write accessible to any server that needs to read or write files stored on the directory.

- The ERP and ODI servers both need access to the JDE E1 Input Directory (E1InputDir) and JDE E1 Output directory (E1OutputDir).
- VCP and ODI servers both need access to the APS Input directory (APSInputDir).
- Demantra database and ODI servers both need access to the Demantra Input directory (DemInputDir) and Demantra Output directory (DemOutputDir).

Note: DemInputDir and DemOutputDir must be configured in the Demantra database using the `data_load.setupSystemObjects()` script.

Additional Information: For additional information, see Setting Up Database Directories.

Non-Shared Directory Access

This integration does not provide out-of-the-box file transfer mechanisms between ERP servers and the ODI server when directories cannot be shared. In this case:

- FTP can be used to copy the files to and from other servers in the solution.
- The files can also be manually copied.

Oracle recommends that the directories on the application servers are paired with the six core directories on the ODI server.

Note: If there are multiple JDE E1 servers, then each server has a pair of directories that equate to the E1InputDir and E1OutputDir directory pair on the ODI server.

You can also customize the PREPROCESSHOOKPKG ODI package to do the JDE E1 to ODI FTP transfers.

Additional Information: For additional information, see Optional User-Defined Customizations.

Examples of Shared and Non-Shared Directory Access

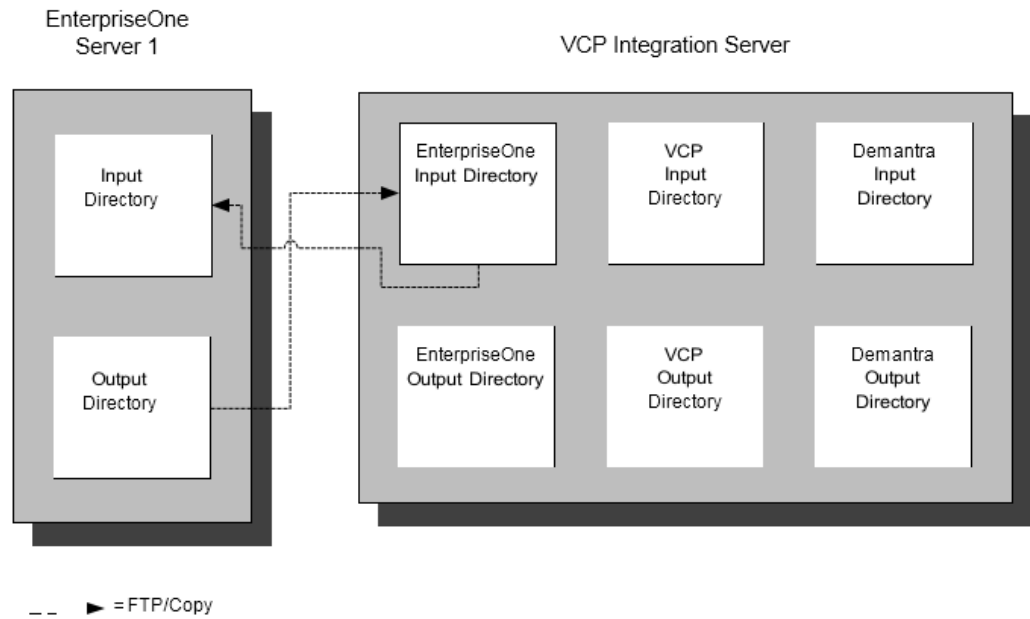
The following diagrams summarize the directory structures in a both shared and non-shared directory scenarios:

When systems are compatible, it is possible to have shared, networked, or mounted directories, where both servers have common read and write access.

This could be a scenario where:

- All the servers are Windows servers, or
- All are Linux/Unix servers, or
- Third party software has been installed to enable mounted drives between Windows and Unix systems.

- There is a mix of Unix and Windows servers
- Security policies restrict shared directories



Combining Extracts and Collections Across Systems

There are two ways that user extension can be used to perform the extraction and collection processes with a single action.

1. For JDE E1 users only: On the JDE E1 server, all JDE E1 UBEs support pre-process and post-process command scripts. In this case, the UBE post process script can be used to activate the collection process on the EBS server.
2. On the VCP Server, all-concurrent processes support pre-process and post-process ODI packages and SQL hooks. In this case, the pre-process can be used to call a runubexml extract script on the JDE E1 server.

Example: Using a JDE E1 Script to Call VCP Collections

As an example, consider the main JDE E1 extract and Legacy Planning Load. You could trigger the combined process from JD E1 by following these steps:

1. Create a remote script on the JDE E1 server that calls the VCP Base Pack Integration collections process on the VCP server.
2. Call the script created above from the UBE post-process option.

In this setup, every time you trigger the JDE E1 extract, the VCP Base Pack Integration collections process is automatically triggered when the extract finishes.

Example: Using a VCP Script to Call JDE E1 Extracts

You could also trigger the combined process from VCP JDE E1 Collections Menu by following these steps:

1. Create a RUNUBEXML batch script to run the planning extracts on the JDE E1 server.
2. On the VCP server, create a script to call the JDE E1 RUNUBEXML script remotely.
3. Incorporate this script into the ODI pre-process script.

In this case, triggering the collections load from within the VCP Base Pack Integration menu. Before running the collections process, the extracts on the JDE E1 server trigger automatically.

Additional Information: For additional information, see Optional User-Defined Customizations.

Multiple JDE E1 Instances

If there is a single ERP server, this server can directly write to and read from E1InputDir and E1OutputDir; no further setup is required.

This integration needs extensions to support multiple ERP instances. You can run multiple ERP instances by either:

- Running in sequence
- Setting up separate directories

In source environments with multiple instances, it is critical to ensure that there is no conflict between global entities such as trading partners or calendars.

Running in Sequence

In this scenario, the user runs the ERP instances' extracts and collections in sequence. The run sequence for a sample two-instance environment is as follows:

1. The JDE E1 Instance A extracts data to E1OutputDir.
2. Legacy collections run for JDE E1 Instance A.
3. Back up the extracted data from JDE E1 Instance A for use in the latter publish

process.

4. After JDE Instance A's collection is complete, JDE E1 Instance B extract to E1OutputDir begins.
5. Legacy collections run for JDE E1 Instance B.
6. Back up the extracted data from JDE E1 Instance B for use in the latter publish process.

If this method is chosen, then the entire processing for Instance A, from extract through to collections must be completed before Instance B can begin its extracts to ensure that there is no conflict.

Also note, the publish process accesses files used in the previous extract process. Extracted files for the instance being published must be present in the JDE E1 extract directory at the time of the publish. The publish extracts do not filter by branch, user extensions are required.

Overlapping Collections

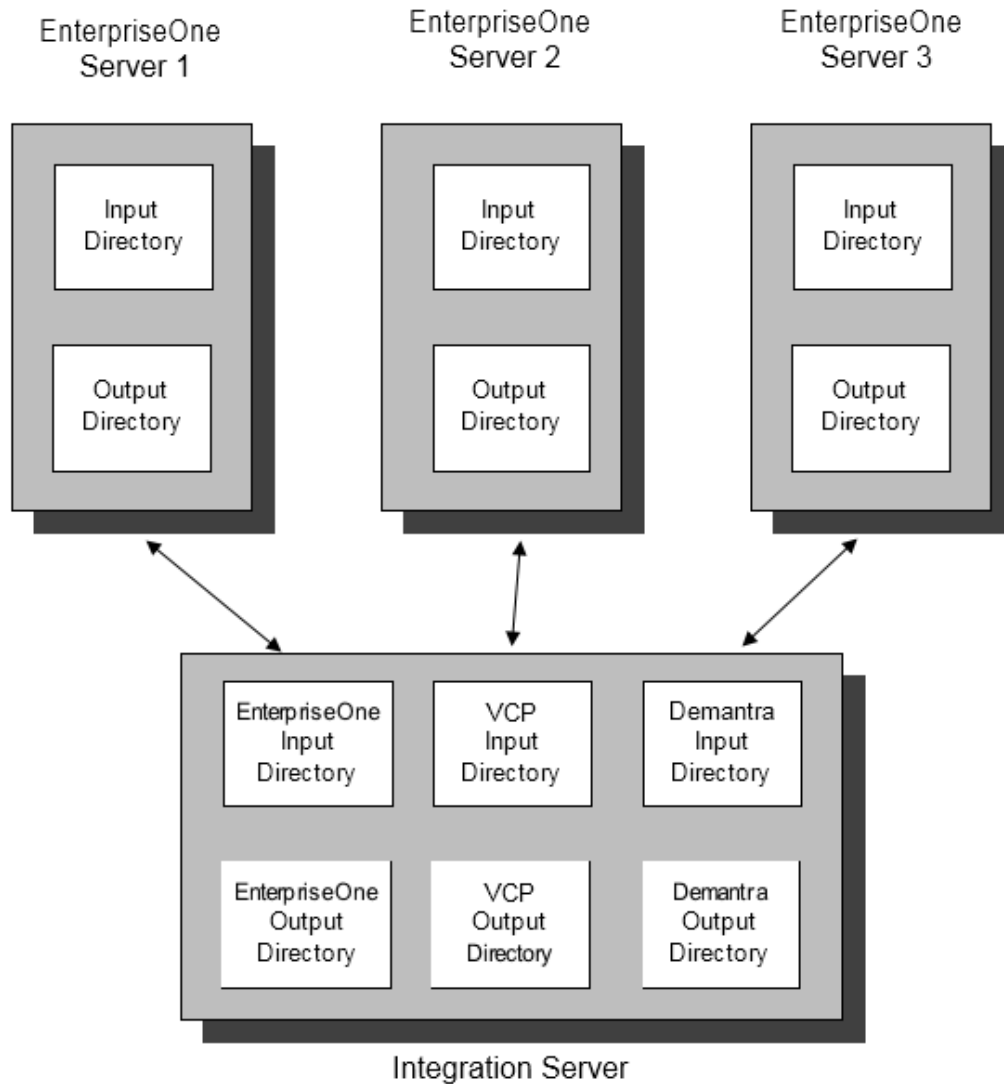
You can also set up separate directories where each ERP instance writes its extracts from E1OutDir or reads its imports from E1InputDir.

The run sequence for a sample two-instance environment with separate directories includes:

1. Extracts on JDE E1 servers can be run in parallel:
 - JDE E1 Instance One extracts to Instance One extract directory.
 - JDE E1 Instance Two extracts to Instance Two extract directory.
2. Collections must be run in sequence:
 - Copy the JDE E1 Instance One files to E1OutDir and run Legacy collections JDE E1 Instance Two.
 - Copy the JDE E1 Instance Two to E1OutDir and run Legacy collections for JDE E1 Instance Two.

The advantage of this method is a shorter processing time. The disadvantage is that you need to set up multiple directories and perform different file copies.

This method also requires user-defined integration extensions to copy a JDE E1 instance's extracts to the common JDE E1 Output directory.



User Security

There is no user security synchronization between ERP and Oracle Value Chain Planning Suite.

You must be created as a user in the Oracle Value Chain Planning suite and assigned one or more of the following responsibilities:

- Advanced Supply Chain Planner (for both forecasting and planning functions)
- Demand Management System Administrator
- Advanced Planning Administrator

Single sign-on configuration is supported between Oracle Value Chain Planning suite and Oracle Demantra applications. Users created in the Oracle Value Chain Planning suite can access the Oracle Demantra system without additionally logging in to Oracle Demantra.

Additional Information: For more information on configuring Single Sign On between Oracle EBS Value Chain Planning and Oracle Demantra, please refer to the Oracle Demantra Implementation guide.

Configuring JD Edwards EnterpriseOne

Note: This chapter does not pertain to PeopleSoft users.

This chapter covers the following topics:

- Designating a Master Branch
- Setting Up Costing Method 07
- Setting Up Customer and Supplier Calendars
- Customer, Branch and Item Category Codes
- Extracting Customer, Branch and Item Category Codes
- Setting Up Integration Constants
- Defining Item Number Identifiers
- Defining the Unit of Measure Type
- Setting Up the Mapping Lot Status
- Mapping the Sales Order and Purchase Order Status
- Mapping the Work Order Priority Status
- Mapping the Work Order Routing Status
- Mapping the Work Order Status
- Mapping the Forecast Consumption
- Defining the Scaling Options (34A/SC)
- Defining the Availability Calendar (34A/AC)
- Defining the Number of Vehicles (34A/VC)
- Synchronizing ODI Variables, Parameters and JDE E1 Constants

Designating a Master Branch

The master branch is used as a source for common information across multiple branches. In some instances, information in JD Edwards EnterpriseOne is available at the item-branch level, but in VCP this information is at the item level. The master branch designates the values that are applied to the item level information in VCP.

The master branch does not need to be an operating branch, but must contain all items (and their category codes) used by planning or forecasting in all branches of a model.

- The master branch ensures that item categorization is consistent between applications.
- The item to product category rollups in Demantra are determined from the master branch.

The master branch must be specified in two places:

- In the Parameters.txt file
- When running the concurrent Configure Legacy Profiles request.

Setting Up Costing Method 07

The costs extracted in Manufacturing.xml use Costing Method 07.

On-site customization is needed for all other costing methods.

Setting Up Customer and Supplier Calendars

In JD Edwards EnterpriseOne, calendars are associated with customers, suppliers, branches, and work centers.

- For resources, only branch level calendars are used. Work center level calendars are not supported.
- Calendars for customers and suppliers are optional. However, if they are used, they must be set up in the master branch.

Customer, Branch and Item Category Codes

Category codes are used to fulfill multiple functions with the integration and are used to form item categories in VCP.

Category codes are also used where item and customer fields are needed for VCP but are not present in JDE E1. In most cases where a VCP field is missing in JDE E1, a global

value is set for all items or customers. This value is set in the Parameters.txt file.

For example, the instance Parameters.txt has an entry with the key:

Purchased_Postprocessing_Lead_Time

The value assigned to this entry populates the Purchased_Postprocessing_Lead_Time for all items.

For a limited number of fields, you are not restricted to a single global entry. For these fields, you can use category codes to specify values unique to a specific item or customer. These category codes are defined and assigned to fields in the Parameters.txt file.

The fields retrieved from Category Codes have the following entries in the Parameters.txt file:

Category Code Entry in Parameters.txt	Category Code Source
Branch_Business_Group_Category	Branch
Branch_Legal_Entity_Category	Branch
Branch_Operating_Unit_Category	Branch
Customer_Class_Code_Category	Customer
Demand_Class_Category	Customer
Operating_Unit_Category	Customer
Sales_Channel_Category	Customer
Change_Over_Category	Item

Extracting Customer, Branch and Item Category Codes

Use the Base.xml file to specify which category codes to extract for item and branch categories. Use the Customer.xml file to specify which category codes to extract for customer categories.

To assign category codes that are to be extracted:

1. Access the Integration Constants form by navigating to Fast Path P34A10.
2. Access the Groups setup form in JED E1 by using the Group Sets Form-Exit.

3. Click the appropriate tab (Item Groups Setup, Branch Groups Setup, or Customer Groups Setup).
4. Select the appropriate Customer Category Code checkboxes.

Note: This integration does not use Supplier Groups.

Setting Up Integration Constants

Integration Constants are interface definitions and formats. You must set up integration constants for use by the batch outbound and inbound processors.

You typically define the integration constants during the development and setup stage of an implementation. Although you can change the integration constants at any time, Oracle recommends that you:

- Change the values in the Planning UOM and Shipping UOM fields only when you are performing a complete extract. Otherwise, inconsistent quantities might occur.
- Set up the format options to match the assumptions that the ETL flows make. Do not change the values in the Flat File Delimiter and Date Format fields after the ETL flows have been implemented.

To access the Planning Integration Constants window:

1. Navigate to Fast Path P34A10.
2. Populate the General Tab.

Planning UOM

Specify the unit of measure to use as the Value Chain Planning planning unit of measure default value, or select it from the Select User Define Codes form. The system validates the value in this field for the values in UDC 34A/UM.

Shipping UOM

Specify the unit of measure to use as the Value Chain Planning shipping unit of measure default value or select it from the Select User Define Codes form. The system validates the value in this field for the values in the UDC 34A/UM.

Date Format

Make sure this is set this to EMD. This format does not need to be set up for XML batch extracts but is needed for the flat files (such as Calendar.txt).

Flat File Delimiter

For this integration, the Flat File delimiter should be set to semicolon (;).

This format does not need to be set up for XML batch extracts generated by the VCP PIP but is needed by the non XML files.

Weekly/Monthly Forecast

Specify the code that identifies whether the exported forecasts were generated using monthly or weekly periods or select it from the Select User Define Codes form. The system validates the value in this field for the values in UDC 34A/MW.

Defining Item Number Identifiers

To effectively extract master routings and corresponding information from the Manufacturing Package (R34A1020), you must synchronize how short, secondary, and third item numbers are identified and cross-referenced by EnterpriseOne. For example, by setting the short item number identifier used by all branches and plants to blank, the secondary item number identifier to /, and the third number identifier to *, you do not need to use a symbol in front of the Cross Reference Item Number in Item Cross Reference (P4104), thereby ensuring that all the correct routing information is extracted.

To define item number identifiers:

1. Navigate to Branch/Plant Constants (G4141).
2. In the Branch/Plant field, select all branch/plants.
3. Click Select.
4. Ensure the settings are the same for:
 - Short Item Number Identifier
 - Second Item Number Identifier
 - Third Item Number Identifier

Note: The identifiers set for the short, second, and third item numbers affect all branches and plants. You must use the same identifiers when cross-referencing the item number in Item Cross Reference (P4104) for routings to be extracted correctly.

5. Click OK.

Defining the Unit of Measure Type

To include a measure type, set up unit of measure codes in EnterpriseOne. This enables the VCP products to use alternate ways of planning a product. For example, a bicycle in the EnterpriseOne Sales Order Entry program can be sold as a unit, but it may be useful to plan its production or distribution in another measure, such as by weight or by volume.

The Base.xml file includes the StandardUOM and the ItemUOM XML objects, which work together to convert an item quantity into an alternate quantity based on the unit of measure type.

The Defining the Unit of Measure feature enables you to map UOM codes from the 00/UM table with valid unit of measure codes used by VCP and stored in the 34A/UT UDC table.

This is a two-step process:

Define the UOM mapped description codes and mapped descriptions in JDE E1:

1. Access the Integration Constants form by navigating to Fast Path P34A10.
2. Access the Define Unit of Measure form in JED E1 by using the Unit of Measure Form-Exit.
3. In the Mapped Description column, select the value to map the EnterpriseOne UOM code.

Values include:

- A–Area
- C–Count
- L–Length
- V–Volume
- W–Weight

4. Click OK.
5. Set up definitions for each mapped description code in UDC 34A/UT.

These definitions are used as the UOM Type values in the Base.xml file and translated to VCP codes in the next step. Consider the following example:

UOM	UOM Description	Mapped Description
12	Twelve Pack	C
LT	Liter	V
LB	Pound	W
KG	Kilogram	W
GR	Gross	C

For each of these mapped descriptions, an entry must be made in the in UDC (34A/UT):

Code	Description of E1 Code
A	Area
C	Count
L	Length
V	Volume
W	Weight

The description of the JDE E1 codes appears in the <toUomType> field in the Base.xml file. For example:

```
<itemUom>
  <itemCode>783121</itemCode>
  <toUom>GR</toUom>
  <toUomType>Count</toUomType>
  <factor>144.0000000</factor>
</itemUom>
```

Item 783121 is associated with the UOM code GR.

The UOM code GR has a mapped description of C.

In the UDC entry 34A/UT, C has a description of Count.

Therefore, in the XML above, Count now appears in the <toUOMType>.

Define how the descriptions are translated to VCP codes:

In the Manage Integration Parameters user interface, use the Cross References tab to translate the JDE E1 codes from Step 1 to their equivalent codes in VCP.

For each of the entries for UDC (34A/UT) there should be an entry in the Cross References tab in the Manage Integration Parameters user interface:

Field Name	JDE E1 Code	VCP Code
UOM_CLASS	Area	ARE
UOM_CLASS	Count	CNT
UOM_CLASS	Time	TIM
UOM_CLASS	Volume	VOL
UOM_CLASS	Weight	WGT

In this example, the JDE E1 UOM codes 12 and GR are translated to the VCP code CNT.

Additional Information: For additional information, see User-Maintained Data.

Setting Up the Mapping Lot Status

This is a two step process:

Define mapped status codes for inventory lot statuses in JDE E1:

You can set up the Lot Status Mapping constant to map the EnterpriseOne lot status from the 41/L UDC table to the format required for the status attribute in the BeginningInventory.xml file. The values are stored in the 34A/LS UDC table.

1. Access the Integration Constants form by navigating to Fast Path P34A10.
2. Access the Lot Status form in JDE E1 by using the Lot Status Form-Exit.
3. In the Mapped Status column, enter the value to which the EnterpriseOne sales order status is mapped.

Values include:

- A–Available
 - E–Expired
 - O–Onhold
 - P–Pegged
 - S–Scrap
4. Click OK.
 5. Set up definitions for each mapped description code in UDC (34A/LS).

These definitions are used as the <lotStatus> values in the Beginning Inventory.xml file to determine available inventory in the next step. Consider the following example:

Lot Status	Status Description	Mapped Status
<space>	Available	A
A	Damaged Goods	S
D	Hold for Inspection-Vendor	O
E	Expired	E
I	Hold for Inspection-Inspector	O
Q	Under Quarantine	Q

Based on these Mapped Status descriptions, the following JDE E1 codes are set up in UDC (34A/LS):

JDE E1 Code	Description
A	Available
E	Expired

JDE E1 Code	Description
O	Onhold
P	Pegged
S	Scrap

These descriptions are the values used in the <lotStatus> field in the in BeginningInventory.xml. For example:

```
<beginningInventory>
  <itemCode>783121</itemCode>
  <branchCode>CRANSTON</branchCode>
  <quantity>4</quantity>
  <lotStatus>Available</lotStatus>
</beginningInventory>
```

In this example, item 783121 has inventory a lot status code of <space>.

The lot status code of <space> has a mapped description of A.

In UDC entry 34A/LS, A has a description of Available. Therefore, in the XML above, A now appears in the <lotStatus>.

In the Parameters.txt file, define the list of statuses to consider as available inventory:

In the Parameters.txt file, specify the Mapped Statuses that will be considered available inventory. These descriptions are the values used in the <lotStatus> field in the in BeginningInventory.xml.

For the following example, inventories with a lot status of Available or Pegged are considered available inventory.

Parameter Name	Parameter Value
Valid_QOH_Status_Codes	Available, Pegged

Note: JDE E1 lot status dates are not recognized by VCP and are treated as being available for planning purposes immediately.

Additional Information: For additional information, see User-Maintained Data.

Mapping the Sales Order and Purchase Order Status

Note: Sales Order and Purchase Order Status affects the value of the <status> field in the Sales and Purchase Order extracts. These fields are not used by the integration. However, Sales Order and Purchasing Order Status should be set up because it is used in an extract key.

You can set up the Sales Order/Purchase Order Status Mapping constant to map the EnterpriseOne sales order status from the 40/AT UDC table to the format required for the status attribute in the SalesOrders.xml file.

EnterpriseOne purchase orders also use this mapping to communicate order status in the PurchaseOrders.xml file. The values are stored in the 34A/OS UDC table.

To map the sales order and purchase order status:

1. Access the Integration Constants form by navigating to Fast Path P34A10.
2. Access the Sales Order/ Purchase Order form in JDE E1 by using the SO/PO Status Form-Exit.
3. In the Mapped Status column, select the value to which the EnterpriseOne sales order status or purchase order is mapped.

Values include:

- A-Approved
 - P-Planned
 - Q-Quoted
 - R-Rejected
4. Click OK.

Mapping the Work Order Priority Status

You can set up the Work Order Priority Status mapping constant to map the EnterpriseOne work order priority status from the 00/PR UDC table to the format required for the priority attribute in the WorkOrders.xml file.

To map the Work Order Priority status:

1. Access the Integration Constants form by navigating to Fast Path P34A10.

2. Access the WO Priority Status form in JDE E1 by using the WO Priority Status Form-Exit.
3. In the Mapped Status column, enter the value to which each EnterpriseOne work order priority status is mapped, where 1 represents the highest priority and 1000 represents the lowest priority.
4. Click OK.

Mapping the Work Order Routing Status

Note: Work Order Routing Status affects the value of the <status> field in the Work Order extracts (work order operation). These fields are not used by the the integration. However, Work Order Routing Status should be set up because it is used in an extract key.

You can use the Work Order Routing Status mapping constant to map the EnterpriseOne work order routing status from the 31/OS UDC table to the format required for the work order routing status attribute in the WorkOrders.xml file. The valid statuses are located in the 34A/RS UDC table.

To map the Work Order Routing status:

1. Access the Integration Constants form by navigating to Fast Path P34A10.
2. Access the WO Routing Status form in JDE E1 by using WO Routing Status.
3. In the Mapped Status column, enter the value to which each EnterpriseOne work order routing status is mapped.

Values include:

- A: The operation is currently being run.
 - C–The operation has already taken place.
 - O–The operation is about to be run
4. Click OK.

Mapping the Work Order Status

This is a two step process:

Defining the translation of the Mapped Status Code Descriptions to be compatible with

VCP Work Order status codes.

Step 1: Defining the Work Order Mapped Status codes in JDE E1

You can use the Work Order Status mapping constant to map the EnterpriseOne work order status from the 00/SS UDC table to the format required for the WorkOrders.xml file. The valid Work Order statuses are located in the 34A/WS UDC table.

1. Access the Integration Constants form by navigating to Fast Path P34A10.
2. Access the WO Status form in JDE E1 by using the WO Status Form-Exit.
3. In the Mapped Status column, enter the value to which each JDE E1 work order status is mapped.

Values include:

- A: The information has been entered, and the work order is ready to be scheduled.
 - C: The work order has been completed or canceled.
 - E: The work order has been entered, and requires routing and parts list information.
 - I: The work order has been scheduled on the shop floor with all of the parts that are required for production ready for processing.
 - R: The work order has been released to the shop floor for scheduling.
4. Click OK.

The Descriptions defined for Mapped Status codes are used as the Work Order Status values in the Work Order xml file and translated to VCP codes in the next step.

Consider the following example:

Work Order Status Code	Status Description	Mapped Status
05	Order Created	E
10	Order Reviewed	E
14	Claim Resubmitted	E
16	Parts List Attached	A

Work Order Status Code	Status Description	Mapped Status
17	Routing Attached	A

The following codes and descriptions are set up in UDC (34A/WS).

Code	Description
A	Attached
C	Closed
E	Entered
I	Issued
R	Released

These descriptions are used in the <status> field in the Work Orders.xml file. For example:

```
<workOrder>
  <workOrderCode>454408</workOrderCode>
  <branchCode>CRANSTON</branchCode>
  <description>Trek 5900 OCLV 110 Road Bike</description>
  <type>Production</type>
  <status>Entered</status>
```

Work Order 454408 may have an JDE E1 status of 05, this translates to a Mapped Status of 05, which in turn is mapped to Entered in UDC table 34A/WS.

Defining the translation of the codes in Step 1 to make them compatible with VCP:

In the Manage Integration Parameters user interface, use the Cross References tab to translate the JDE E1 codes from Step 1 to their equivalent codes in VCP.

For each of the entries for UDC (34A/WS) there should be a code translation described as follows:

Field Name	E1 Code	VCP Code
WIP_STATUS_CODE	Attached	1

Field Name	E1 Code	VCP Code
WIP_STATUS_CODE	Cancelled	7
WIP_STATUS_CODE	Closed	4
WIP_STATUS_CODE	Complete	4
WIP_STATUS_CODE	Entered	1
WIP_STATUS_CODE	Issued	3
WIP_STATUS_CODE	On Hold	6
WIP_STATUS_CODE	Open	1
WIP_STATUS_CODE	Pending	1
WIP_STATUS_CODE	Released	3
WIP_STATUS_CODE	Unreleased	1
WIP_STATUS_CODE	WIP	3

In this example, the work order with the status of Entered is loaded with a status of 1 in VCP.

Mapping the Forecast Consumption

You can use the Forecast Consumption mapping constant to map the EnterpriseOne time fence rules from the 34/TF UDC table the Forecast Consumption rule in 34A/FC UDC table.

Note: For this integration, only the Order-Greater forecast consumption rule is supported. This rule takes the order quantity in the Forecast Consumption Time Fence and beyond the time fence, whichever is greater; Forecast or Orders. This value is ignored by the integration, as it assumes the rule is Order-Greater.

To map the forecast consumption rules:

1. Access the Integration Constants form by navigating to Fast Path P34A10.

2. Access the Forecast Consumption form in JDE E1 by using the Forecast Consumption Form-Exit.
3. In the Mapped Forecast Consumption column, enter code for Time Fence Rule and the associated Description. The Description is the values that are reported in Base.xml.

Values include:

- Order-Greater

Use the Order rule before the time fence and the Greater rule after the time fence.

4. Click OK.

Defining the Scaling Options (34A/SC)

You use user-defined code 34A/SC to define the quantity scaling options available for manufactured items. The only scaling options used for integration with Value Chain Planning are variable and fixed.

To define the scaling operations:

1. Navigate to Fast Path P0004A.
2. In the Solution Explorer, complete the following fields:
 - Product Code: Type 34A
 - User Defined Codes: Type SC
3. Click Add.
4. Complete the following fields:

Codes	Description	Special Handling	Hard Coded
F	Fixed	N	Y
V	Variable	N	Y

Defining the Availability Calendar (34A/AC)

Note: The Availability Calendar is not directly used by the integration. However, the Availability Calendar should be set up because it is used in an extract key.

Use the user-defined code 34A/AC to set the default calendar used by Distribution for batch integration. When using the Distribution Package (R34A1090), the default calendar is sent in the transportMode object.

To define the Availability Calendar:

1. Navigate to the Fast Path UDC.
2. Complete the following fields:
 - Product Code
 - Type 34A
 - User Defined Codes
 - Type AC
3. Click Add.
4. Complete these fields:
 - Codes
 - Type D
 - Description 01
 - Type Default
 - Special Handling
 - Leave blank
 - Hard Coded
 - Type N.
5. Click OK.

Defining the Number of Vehicles (34A/VC)

Note: This defines the Number of Vehicles reported in Distribution.xml. This is currently not used in the integration. However, the Number of Vehicles should be set up because it is used in an extract key.

Use user-defined code 34A/VC to set the number of vehicles used for a route number by Distribution. When using the Distribution Package (R34A1090), the number of vehicles is sent in the transportMode object.

To define the number of vehicles:

1. Navigate to the Fast Path UDC.
2. Complete the following fields:
 - Product Code
 - Type 34A
 - User Defined Codes
 - Type VC
3. Click Add.
4. In User Defined Codes, complete the following fields:
 - Codes
 - Route number
 - Description 01
 - Number of vehicles available for the route number
 - Special Handling
 - Hard Coded
5. Click OK.

Synchronizing ODI Variables, Parameters and JDE E1 Constants

JDE E1 and ODI are configured independently but share the same files and file structure. It is important to ensure that the configuration is consistent. For example:

- Ensure file names are consistent, including capitalization.
- Directories are the same, unless files are being copied manually or through a script.
- Ensure Parameter.Field_Delimiter is + and the Profile Value in ODI profile values is +.

Configuring JD Edwards EnterpriseOne UBEs

Note: This chapter does not pertain to PeopleSoft users.

This chapter covers the following topics:

- Understanding EnterpriseOne UBEs
- Understanding Versions
- Parent and Child UBE Versions
- Defining the Data Selections
- Defining File Locations
- Setting Up Unicode Encoding for XML Extracts
- Setting Up JDE E1 UBEs
- Creating Runubexml Template Files
- Reviewing XML Batch Data Transfer
- Setting Up the JDE to VCP Processor (R34A1000)
- Setting Up the VCP to JDE Processor (R34A1500)
- Setting up the Demantra to EnterpriseOne Imports (R34A410)
- Reviewing Data Transfer

Understanding EnterpriseOne UBEs

Universal Batch Engines (UBEs) are programs that extract data from JDE E1, transform it, and load it JDE E1. You can define multiple versions of UBEs. For each version, you can define:

- Version filenames
- Processing options for inclusion rules
- Data selection options

This integration uses the following UBEs:

Function	Related JDE E1 UBEs
Extract and Collect Planning Data	R34A1000 <ul style="list-style-type: none"> • R34A1010 (Base Items, Locs, UOM, etc) • R34A1020/1020C, 1020S, 1020B (Manufacturing) • R34A1030 (Work Orders) • R34A1040 (Customers) • R34A1050 (Sales Orders) • R34A1060 (Purchase Orders) • R34A1070 (Beginning Inventory) • R34A1080 (Transfer Orders) • R34A1090/1095 (Distribution) • R34A1120 (Suppliers) • R34A1130/940 (Time Series for Forecast) • R34A610 (Calendar.txt) • R34A1140/1145 (Sales Order History)

Publish Planning Results	R34A1500
	<ul style="list-style-type: none"> • R34A1520 (Purchase Order Recommendations) • R34A1530 (Transfer Order Recommendations) • R34A1550 (Master Production Plan) • R34A1560 (Create/Maintain Work orders, part lists and operation routings)
Publish Forecast	R34A410
	<ul style="list-style-type: none"> • R34A485 (Forecast)
Extract Predictive Trade Planning Data	R34A400
	<ul style="list-style-type: none"> • R34A1140 (Price History ex Sales History) • R41053 (Item Cost) • R45529 (List Price)
Publish Predictive Trade Planning	R34A410
	<ul style="list-style-type: none"> • R45640 (Promotion Pricing to be imported) • R45640 (Delete Promotion Pricing)
Deduction Settlement Extract (Payment Requests)	R04110ZC
	<ul style="list-style-type: none"> • R04110ZC (Payment Confirmation)
Deduction Settlement Management – Import Claims	R04110ZB
	<ul style="list-style-type: none"> • R04110ZB(A) (Publish Claims)
Deduction Settlement Management-Import Deductions	R03B41Z2
	<ul style="list-style-type: none"> • R03B41Z2 (Import Deduction Disposition)

Deduction Settlement Management
(Deduction Extract)

R03B0209

- R03B0209 (Extract Deductions)
-

Understanding Versions

A batch version is a set of related data that is transferred between Supply Chain Management and Value Chain Planning. Typically, you set up one batch version for the collections process and one for the planning process. However, it's possible to divide the extract process and use batch versions to set up different JDE E1 extract and JDE E1 import groups. For example:

- Export weekly forecasts to Value Chain Planning for items in a specific planning family.
- Export daily sales orders to Value Chain Planning for items in a specific planning family.
- Export sales history information for a specific branch each month.
- Import daily planning messages from Value Chain Planning.

Parent and Child UBE Versions

Parent and child UBEs support different versions and these are discussed in more detail in the next few sections, however a summary is given here so you can put these sections in context.

The following is using the parent UBE, R34A1000, as an example, but the general pattern is applicable to other parent UBEs.

Defining the Parent UBE Version

You must define a batch version for the parent UBE.

To define the parent UBE version:

In the parent UBE processing options, specify:

- Which child UBEs to run (by specifying the batch version of the child UBE).
- The file definition.
- The file definition.

Note: Data selection and data sequencing are not applicable to the parent UBE. The child UBE must be populated and have a defined file directory if you want to run it part of the parent batch.

Defining the Child UBE Version

You must define a batch version for the child UBE.

To define the child UBE version:

1. Define the Processing Options for the Child UBE
2. Define any selection criteria for the Child UBE.

Defining the Data Selections

After you select the programs to include in each batch, you select the specific data for each outbound batch. You can select data using both the processing options and the data selection on the individual extract programs.

For example, you can specify which records to fetch, such as Business Unit 10–30 and 70, or all Address Book records with Category 1=North.

For most extracts, you can use category codes such as Master Planning Family to select data. If you select the category codes as data selection, verify that the category codes are filled in correctly when the transactions are entered in these tables. For example, when work orders are entered, the processing options must be set up to consistently place the master planning family in the same category code on the work order header.

Defining File Locations

You can use the Integration File Definition program to:

- Set up the file name/location that the outbound and inbound batch processor programs use.
- Define command line instructions for external functions that run during outbound and inbound batch processing.

You use this form primarily during the setup processes. Although you can change this information at any time, you must consider your changes carefully, because the definitions must be synchronized with any scripts, ETL flows, or programs that reference them, such as the VCP PIP.

The entries for each file or command line in the Integration File Definition table (F34A11) are platform-specific. If the integration programs are moved from one platform to another, no filename translation is made.

For example, if a batch program is set up to run on a Windows NT EnterpriseOne server, the filenames that the program uses must be NT-compliant filenames. If this batch program is submitted to a UNIX or OS/400 server that is running EnterpriseOne, the program will fail to run properly because valid Windows NT filenames are not valid on the OS/400 or on UNIX. The same is true for command line (FTP script) table entries. A valid Windows NT command is not valid for other EnterpriseOne server platforms.

Note: The Integrated File System (IFS) of the OS/400 is not supported for inbound or outbound flat files. Inbound or outbound flat files on the AS/400 must use the traditional file system.

An external function is additional logic that you can define to run at specific steps in the integration process. For example, external functions might be used to:

- Run an FTP script to retrieve data files from another computer.
- Preprocess or edit data before or after the inbound or outbound processing.
- Carry out a UNIX script or OS/400 CL program to perform processing that is required for the integration.
- Initiate the ETL tool.

External functions can be almost any program or set of commands that you can run from a command line, such as:

- wordpad.exe
This command runs the executable file called wordpad.
- ftp -n -s:c:\scripts\ftp_fc_ibctln.txt
This command runs an FTP script.

You must define the commands in the Integration File Definition table (F34A11) by using the Integration File Definition form. When you set up the commands on this form, you associate a key with the commands. Then, when you set up the versions of the inbound or outbound processor programs, you enter this key in the appropriate processing option. The external functions are run at specific points in the inbound or outbound processing.

Defining File Definitions.

Planning file definitions specify the location of the files used by outbound and inbound processor programs. To set the planning file definitions, use the P34A11 program.

To define File Definitions:

1. Navigate to Fast Path P34A11 to access to the Planning File Definitions page.
2. Create a record in the P34A11 program for each file being extracted or imported.

This file's key is used to specify the Extract File Definition for UBE Processing Options.

Field	Description
Key	A code that identifies the file definition. If you have text in the corresponding File Definition field, this field cannot be blank.
File Definition	The name of the file, including the file's directory path.

Note: The names of the XML files generated by each import and export program must correspond with the XML file names required by VCP PIP.

You usually run the outbound and inbound processors from the JD Edwards EnterpriseOne user interface or by using a batch command with the runubexml command.

Additional Information: For additional information, see the *JD Edwards EnterpriseOne User's Guide*.

Important: In a shared directory configuration, the paths specified in extract file definitions must point to a valid path that is shared between the JD Edwards EnterpriseOne server and the ODI server.

Additional Information: For additional information, see Information Sharing Options.

Setting Up Unicode Encoding for XML Extracts

The character data in all outbound extracts generated by the outbound processors is in Unicode format. EnterpriseOne enables you to convert the extract files into a number of formats when an outbound processor is run.

Important: For integration with the Supply Chain Business Modeler,

the extracts generated by the VCP PIP Outbound Processor (R34A1000) must use UTF-8 encoding.

- The encoding can be specified in the Unicode Flat File Encoding Configuration (P93081, which must be called from a fat client) application.
- The Encoding Name must be set to UTF8.

Setting Up JDE E1 UBEs

You must create versions of each of the outbound and inbound processor programs (UBEs) in JD Edwards EnterpriseOne and set up all relevant processing options. Processing options enable you to configure how files are extracted.

Outbound JDE E1 Processor Programs

The following processor programs are outbound from JD Edwards EnterpriseOne during the integration process:

Processor	Purpose
R34A1000	Extract master data entities like items, customers, branches etc from JD Edwards EnterpriseOne along with other transactional entities like Purchase Orders, Sales orders, Work Orders, etc Both the Oracle VCP suite and the Demantra suite use the master entities.
R34A1010 (Base Items, Locs, UOM, etc))	
R34A1050 (Sales Orders)	
R34A1070 (Beginning Inventory)	
R34A1060 (Purchase Orders)	
R34A1080 (Transfer Orders)	
R34A1040 (Customers)	
R34A1090/1095 (Distribution)	
R34A1120 (Suppliers)	
R34A1030 (Work Orders)	
R34A1020/1020C/1020B/1020S (Manufacturing)	
R34A1130 (Time Series for Forecast)	

<p>R34A1000</p> <p>R34A1140/45 (Sales History ex Sales Orders)</p>	<p>Extract SalesOrderHistory.txt and PriceHistory.txt from JD Edwards EnterpriseOne</p> <p>SalesOrderHistory.txt – Used by Demantra DM and PTP to drive history information in Demantra that generates forecasts.</p> <p>PriceHistory.txt – Used by Demantra PTP to capture the actual cost of promotions in Demantra.</p>
<p>R34A400</p> <p>R34A425/435 (Price History ex Sales History)</p> <p>R41053 (Item Cost)</p> <p>R45529 (List Price)</p>	<p>Extract ItemCost.txt and ListPrice.txt – Used by Demantra PTP</p> <p>List Price calculates profitability when planning future promotions. Item Cost calculates profitability when planning future promotions.</p>
<p>R03B0209 (Deductions)</p>	<p>Extract open deductions in JD Edwards EnterpriseOne by Deductions.txt - Used by Demantra DSM</p>
<p>R04110ZC (Payment Confirmations)</p>	<p>Extract payment confirmations from JD Edwards EnterpriseOne by APConfirm.txt – Used by Demantra DSM</p>

<p>R34A1500</p> <ul style="list-style-type: none"> • R34A1520 (Purchase Plan) • R34A1530 (Deployment Plan) • R34A1550 (Master Production Plan) • R34A1560 (Detail Production Plan) 	<p>Process the files generated from ASCP that contain planning recommendations into JD Edwards EnterpriseOne.</p>
<p>R34A410</p> <ul style="list-style-type: none"> • R34A485 	<p>Used by Demantra DM</p> <p>Process forecast.txt containing forecast values from Demantra into JD Edwards EnterpriseOne</p>

R34A410	Used by Demantra PTP
<ul style="list-style-type: none"> R45640 (Promotion Pricing) 	Imports promotional pricing from Demantra by PromotionPricing.txt and Delete_PromoPricing.txt into JD Edwards EnterpriseOne.
R03B41Z2 (Publish Deduction Dispositions)	Used by Demantra DSM
	Imports approved and denied deductions from Demantra into JD Edwards EnterpriseOne using DeductionDispositions.txt
R04110ZB (Claims)	Used by Demantra DSM
	Process Claim.txt from Demantra into JD Edwards EnterpriseOne

Depending on the implemented Demantra modules, you must set up a version of the relevant processor program in JD Edwards EnterpriseOne using the Fast Path command BV. Once a version of the processor program is created, you can set processing options.

Creating Runubexml Template Files

You can optionally trigger UBE exports and imports using batch scripts. To run outbound and inbound processors from a batch script, you must create runubexml template files that are used with the runubexml command.

A runubexml template file must be created for each processor version required for the Oracle Demantra integration. UBE launch scripts call XML files to launch the appropriate processor and version.

Generating Runubexml Files

You can generate runubexml files based on the configuration of the outbound and inbound processors in your JD Edwards EnterpriseOne environment.

To generate runubexml files in an JD Edwards EnterpriseOne environment:

1. Set up file definitions for all files to be exported to or imported from JD Edwards EnterpriseOne.

Use the P34A11 program.

2. Set up versions of the outbound and inbound processors used in the integration.
3. Set up processing options for the versions of the processors.
4. Generate the runubexml file.

To generate an XML File:

1. From the command line on the JD Edwards EnterpriseOne server, change to the e1_system_bin32 folder.

2. Enter the following:

```
runubexml G CREATE_XML jdeRequest.xml
```

The jdeRequest.xml file is created in the same folder.

3. Open the jdeRequest.xml file and modify the following fields:

Field	Description
User	The JD Edwards EnterpriseOne user ID
Pwd	The JD Edwards EnterpriseOne password
Environment	The source JD Edwards EnterpriseOne environment
Role	Your JD Edwards EnterpriseOne role
REPORT_NAME_VALUE	Specify the base processor, such as R34A400 for the Planning Outbound Processor or R34A410 for the Planning Inbound Processor.
REPORT_VERSION_VALUE	Enter the processor version

4. 4. Save the changes to the jdeRequest.xml file.

5. 5. At the command line, enter the following:

```
runubexml S jdeRequest.xml Processor_Version.XML
```

where Processor is either R34A400 (Planning Outbound Processor) or R34A410 (Planning Inbound Processor), and Version is the version you set up in JD Edwards EnterpriseOne.

The *Processor_Version.XML* file is generated in the e1_system_bin32 folder. This file

contains all the processing options, data selections, and report interconnects for the specified processor version.

Running the Runubexml Program:

After you have created the runubexml program, you can call the runubexml file in a batch file using the following command (this example refers to R34A400 and a version called VCPDM):

```
runubexml S R34A400_VCPDMFULL.xml RESULT.xml
```

This command extracts sales history information from JD Edwards EnterpriseOne.

Reviewing XML Batch Data Transfer

This section discusses the options and tools used to review the validity of the XML batch data transfer:

- Outbound Processor (R34A1000) Reviewing Options and Tools
- Inbound Processor (R34A1500) Reviewing Options and Tools

Outbound Processor (R34A1000) Options and Tools

After you run the Outbound Processor (R34A1000), the system provides these results:

- A file for each extraction that is run.
- A report from the outbound processor program that lists error messages, date and time information.
- A report from each extraction program that was run that lists status information and error messages.
- A message in the EnterpriseOne work center notifying you of any errors, if you set the processing options for error notification.

Inbound Processor (R34A1500) Options and Tools

After running either the Inbound Processor (R34A1500) for XML, the system provides the following results:

If you imported forecasts, the Demand Management system sends the forecasts to the Forecast File table (F3460). You can view the forecasts through the Forecast Revisions program (P3460).

If you imported planning messages, the purchase order, transfer order, and work order messages are sent from Value Chain Planning to the MPS/MRP/DRP Message File table

(F3411), where they are automatically processed. Inbound work order messages then update the Work Order Master File table (F4801). In addition, the inbound purchase order messages and inbound transfer order messages update the Purchase Order Detail File table (F4311).

If you imported detailed production plans, the detailed production plans are sent from Value Chain Planning to the appropriate tables. Data for scheduled routings, operations, operation resources, consumed items, and produced items are sent from Value Chain Planning to the Work Order Master File (F4801), Work Order Master Tag File (F4801T), Work Order Parts List (F3111), Work Order Routing (F3112), Work Order Routing Resource (F34A150), and Item Location File (F41021) tables.

- A report from the inbound processor program that lists error messages, date and time information.
- A report from each import program that was run. This report lists status information and error messages.
- A message in the EnterpriseOne work center that notifies you of any errors, if you set the processing options for error notification.

Setting Up the JDE to VCP Processor (R34A1000)

This section discusses how to configure the JDE to VCP Processor (R34A1000). It includes details about:

- R34A1000 extract program
- R34A1000 processing options

R34A1000 Extract Program

The JDE to VCP Processor (R34A1000) transfers XML extracts from JD Edwards EnterpriseOne to Value Chain Planning. Depending on the JDE to VCP Processor configuration, all or part of the data can be exported.

The following table lists the files extracted by R34A1000:

Package	Program	Application	Description
Base.xml	R34A1010	Supply Planning and Demantra	Items, Locations, Item-Branch relationships, Unit of Measures, etc

Package	Program	Application	Description
BeginningInventory.xml	R34A1070	Supply Planning	Beginning Inventory
Customer.xml	R34A1040	Supply Planning and Demantra	Customers, customer pricing and sourcing
Distribution.xml	R34A1090 R34A1095	Supply Planning	Distribution Lanes
Manufacturing.xml	R34A1020 R34A1020B R34A1020C R34A1020S	Supply Planning	Routing, BOM and Resources
PurchaseOrders.xml	R34A1060	Supply Planning	Purchase Orders
SalesOrders.xml	R34A1050	Supply Planning	Sales Orders
Supplier.xml	R34A1120	Supply Planning	Suppliers
TimeSeries.xml	R34A1130R34A940	Supply Planning	Legacy forecast
TransferOrders.xml	R34A1080	Supply Planning	Transfer Orders
WorkOrders.xml	R34A1030	Supply Planning	Work Orders
Calendar.txt	R34A610	Supply Planning and Demantra	The JD Edwards EnterpriseOne calendar information flat file.
SalesOrderHistory.txt	R34A1140/11 45	Demantra	Sales Order and Price History

The following table lists the data retrieved by R34A1000:

Outbound Transfer Batch	Data Retrieved
VCP Base Package (R34A1010)	<p>This batch program retrieves information from:</p> <ul style="list-style-type: none"> • Address by Date (F0116) • Inventory Constants (F41001) • Item Branch File (F4102) • Item Cost File (F4105) • Item Location File (F41021) • ItemMaster table (F4101) • Item Units of Measure Conversion Factors (F41002) • LocationMaster (F4100) • Unit of Measure standard conversion (F41003)
VCP Beginning Inventory Package (R34A1070)	<p>Use this batch program to retrieve information from:</p> <ul style="list-style-type: none"> • Item Location File (F41021) • Lot Master (F4108)
VCP Customer Package (R34A1040)	<p>This batch program retrieves information from:</p> <ul style="list-style-type: none"> • Address BookMaster (F0101) • Address by Date (F0116) • Item Base Price File (F4106) • Item Cross Reference File (F4104) • Preference Profile - Inventory Sourcing (F40306)

Outbound Transfer Batch	Data Retrieved
VCP Distribution Package (R34A1090/R34A1095)	<p>Use this batch program to retrieves information from:</p> <ul style="list-style-type: none"> • Branch Relationships Master File (F3403) • Routing Entries (F4950) • User Defined Codes (F0005) • Routing Restrictions (F4952) • R34A1095
VCP Manufacturing Package (R34A1020/1020C/1020S/1020B)	<p>Use this batch program to retrieve information from:</p> <ul style="list-style-type: none"> • Routing Master File (F3003) • Bill of Material Master File (F3002) • F34A110 • F34A120 • F34A190 (resource set info) • F30008/F30006 (tool, machine, crew calendar information)
VCP Purchase Order Package (R34A1060)	<p>Use this batch program to retrieve information from the Purchase Order Detail File table (F4311).</p>

Outbound Transfer Batch	Data Retrieved
VCP Sales Order Package (R34A1050)	<p>Use this batch program to retrieve information from:</p> <ul style="list-style-type: none"> • Sales Order Detail File table (F4211) • Sales Order Header File table (F4201) <p>You can also specify a date in the processing options before which any sales orders with earlier promised dates are excluded from the extraction.</p>
VCP Supplier Package (R34A1120)	<p>Use this batch program to retrieve information from:</p> <ul style="list-style-type: none"> • WO Supplemental Data Types (F48090) • Address Book Master (F0101) • Address By Date (F0116) • Item Branch (F4102)
VCP TimeSeries Package	<p>Time Series (F3460)</p> <ul style="list-style-type: none"> • R34A1130 • R34A940
VCP Transfer Order Package (R34A1080)	<p>Use this batch program to retrieve information from:</p> <ul style="list-style-type: none"> • Purchase Order Detail File (F4311) • Sales Order Header File (F4201) • LotMaster (F4108)

Outbound Transfer Batch	Data Retrieved
Work Order Package (R34A1030)	Use this batch program to retrieve information from: <ul style="list-style-type: none"> • Work Order Master File (F4801) • Work Order Routing (F3112) • Work Order Parts List (F3111) • Bill of Material Master File (F3002) • Work CenterMaster File (F30006) • Work CenterMaster File (F30006)
Calendar.txt	Use this batch program to retrieve information from: <ul style="list-style-type: none"> • Work Order Master File (F30006) • Work Day Calendar (F0007)
SalesOrderHistory.txt	Use this batch program to retrieve information from: <ul style="list-style-type: none"> • History of Changes to a PO (F43119) • Sales Order Detail (F4211) • Price Adjustment Ledger File (F4074)

Using the processing options associated with the JDE to VCP Processor or its extract programs, you can customize the extracts generated. For more finite customization, there are data selection options available.

Using JD Edwards EnterpriseOne versions, you can create different configured sets of outbound extracts that can be run at different times during the day to meet your requirements.

R34A1000 Processing Options

Several categories of processing options can be used to generate the XML extracts. They include:

- JDE to VCP Pre/Post Processor processing options
- Extract program processing options
- Extract program processing options
- Transfer orders processing options

JDE to VCP R34A1000 Processor Processing Options

The JDE to VCP Processor processing options for all the extract packages include general processing options that:

- Monitor the transmission of the extract files to ensure that data is not corrupted by more than one data transmission occurring at a time.
- Specify the extract file definition.
- Specify any external programs or scripts to be run as pre/post processors.

These processing options exist for all extract packages, however some packages have additional R34A1000 processing options and each sub UBE has its own processing options. The packages with additional processing options include:

- Distribution (source of the distribution information).
- Calendar (whether or not to clear or append).
- Sales History (clear or append; supports both order and price history).

Important: In a shared directory configuration, the paths specified in extract file definitions must point to a valid path that is shared between the JD Edwards EnterpriseOne server and the ODI server.

Additional Information: For additional information, see ODI Directory Structure.

Processing Option or Tab	Description
Process 1 Tab	<p>Processing options on this tab control batch processing.</p> <p>Note: Oracle recommends that you turn off process control only under certain conditions. For example, process control is not required the first time that you run the batch associated with this control file.</p>
1. Control File Definition	<p>Use this processing option to specify the key value associated with the path and file name of the control file. When Process Control is enabled, the JDE to VCP Processor can determine whether the VCP to JDE Processor (R34A1500) is finished importing, and whether the JDE to VCP Processor (R34A1000) can start exporting.</p> <p>The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definition program (P34A11), which you access from the Value Chain Planning & Scheduling menu (G34A).</p>
2. Process Control	<p>Use this processing option to indicate whether the JDE to VCP Processor (R34A1000) checks that the VCP to JDE Processor (R34A1500) has completed before running. Values are:</p> <p>Blank—Do not check that the VCP to JDE Processor (R34A1500) has completed.</p> <p>1—Do check that the VCP to JDE Processor (R34A1500) has completed</p>
Process 2 Tab	<p>Processing options on this tab control error handling and how the system processes external functions.</p>

Processing Option or Tab	Description
1. Recipient for error notification	Use this processing option to specify the address book number of the person who receives messages from the VCP Outbound batch processing. These messages appear in the Personal Inbasket folder in the Supply Chain Management work center. If you leave this processing option blank, the system does not send a notification when errors occur.
2. Error Log Definition	Use this processing option to specify the key value that is associated with the path name of the error log that is created in the batch. The error log is a text file that contains batch status information and record counts. The same information is included in the standard report that is produced by this batch program. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Supply Chain. Planning & Scheduling menu (G34A). If you leave this field blank, the system does not write the error log text file, but it still produces the standard report output.
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out before any individual extract batch programs are run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning menu (G34A).

Processing Option or Tab	Description
4. External Function Definition (End of Processing)	<p>Use this processing option to specify the key value that is associated with external commands that are carried out after any individual extract UBE programs are run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that sends data, runs an external program, or performs most command line processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).</p>
Base Tab	<p>Processing options on this tab control the processing of the VCP Base Package program (R34A1010), which extracts base information from the Location Master (F4100), Inventory Constants table (F41001), Item Master table (F4101), Unit of Measure standard conversion table (F41003), Item Units of Measure Conversion Factors table (F41002), Address by Date table (F0116), Item Location File table (F41021), Item Branch table (F4102), and Item Cost table (F4105); and transfers the information to an XML file.</p>
1. Base Package Version (R34A1010)	<p>Use this processing option to specify the version of the VCP Base Package program (R34A1010) that you want the system to run in this batch. You can use the version to select the data to be included in the extract.</p> <p>If you leave this option blank, the system does not run the extract in this batch.</p>

Processing Option or Tab	Description
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of this extract file. You must enter a key value in this field if you entered a version in the Base Package Version field. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys in the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands, which are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing.
Sales Order Tab	Processing options on this tab control the processing of the VCP Sales Order Package program (R34A1050), which extracts sales order information from the Sales Order Header (F4201) and Sales Order Detail (F4211) tables; and transfers the information to an XML file.

Processing Option or Tab	Description
1. Sales Order Package Version (R34A1050)	Use this processing option to specify the version of the VCP Sales Order Package program (R34A1050) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning menu (G34A).
Inventory Tab	Processing options on this tab control the processing of the VCP Beginning Inventory Package program (R34A1070), which extracts inventory information from the Item Location File (F41021) and Lot Master (F4108) tables; and transfers the information to an XML file.
1. Beginning Inventory Package Version (R34A1070)	Use this processing option to specify the version of the VCP Beginning Inventory Package program (R34A1070) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.

Processing Option or Tab	Description
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definition form from the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definition form from the Value Chain Planning menu (G34A).
Purchase Orders Tab	Processing options on this tab control the processing of the VCP Purchase Order Package program (R34A1060), which extracts purchase order information from the Purchase Order Detail table (F4311); and transfers the information to an XML file.
1. Purchase Order Package Version (R34A1060)	Use this processing option to specify the version of the VCP Purchase Order Package program (R34A1060) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.

Processing Option or Tab	Description
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning menu (G34A).

Processing Option or Tab	Description
Transfer Order Tab	Processing options on this tab control the processing of the VCP Transfer Order Package program (R34A1080), which extracts transfer order information from the Sales Order Header (F4201), Purchase Order Detail (F4311), and Lot Master (F4108); and transfers the information to an XML file.
1. Transfer Order Package Version (R34A1080)	Use this processing option to specify the version of the VCP Transfer Order Package program (R34A1080) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning menu (G34A).
Customer Tab	Processing options on this tab control the processing of the VCP Customer Package program (R34A1040), which extracts customer information from the Address Book Master table (F0101), Address by Date table (F0116), Item Cross Reference (F4104), Preference Profile - Inventory Sourcing table (F40306), Item Base Price table (F4106); and transfers the information to an XML file.
1. Customer Package Version (R34A1040)	Use this processing option to specify the version of the VCP Customer Package program (R34A1040) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this option blank, the system does not run the extract in this.
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of this extract file. You must enter a key value in this field if you entered a version in the Customer Extract Version field. The key value must be a valid entry in the Integration File Definition table (F34A11).
	You can enter path names and keys using the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys in the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing.
Distribution Tab	Processing options on this tab control the processing of the VCP Distribution Package program (R34A1090), which extracts distribution information from the Branch Relationships (F3403), Routing Entries (F4950), User Defined Codes (F0005), and Routing Restrictions (F4952) tables; and transfers the information to an XML file.
1. Lane Definition	<p>Use this processing option to specify how to build the lane definitions. Values are:</p> <p>Blank-Lane definitions are created from the Transportation Routing table (F4950). The VCP Distribution Package (R34A1090) is used.</p> <p>1-Lane definitions are created from the Branch Relationships table (F3403). The VCP Distribution - Branch Relationships Package (R34A1095) is used.</p>

Processing Option or Tab	Description
2. Distribution Package Version (R34A1090) or Distribution Package - Branch Relationships Version (R34A1095)	<p>Use this processing option to specify the version of the VCP Distribution Package program (R34A1090) or VCP Distribution - Branch Relationships Package program (R34A1095) to run in this batch. Data selection and processing options that are specific to this extract can be set on the VCP Distribution Package version (R34A1090) or the VCP Distribution - Branch Relationships Package version (R34A1095) entered in this field. If this processing option is left blank, the system does not run the VCP Distribution Package program (R34A1090) or the VCP Distribution - Branch Relationships Package program (R34A1095) in this batch.</p> <p>Note: This processing option should be used in conjunction with the Lane Definition processing option.</p>
3. Extract File Definition	<p>Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.</p>

Processing Option or Tab	Description
4. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).
5. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form by using the Value Chain Planning menu (G34A).
Supplier Tab	Processing options on this tab control the processing of the VCP Supplier Package program (R34A1120), which extracts supplier information from the Address Book Master (F0101) and Supplier Item Relationships (F43090) table and transfers the information to an XML file.

Processing Option or Tab	Description
1. Supplier Package Version (R34A1120)	Use this processing option to specify the version of the Supplier Package (R34A1120) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry on the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that run immediately before this extract batch is run. The commands associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry on the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definition form from the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
4. External Function Definition (End of Processing)	<p>Use this processing option to specify the key value that is associated with external commands that run immediately after this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry on the Integration File Definition table (F34A11).</p> <p>You can enter path names and keys on the Integration File Definition form from the Value Chain Planning menu (G34A).</p>
Work Orders Tab	<p>Processing options on this tab control the processing of the VCP Work Order Package program (R34A1030), which extracts work order information from the Work Order (F4801), Work Order Routing (F3112), Work Order Parts List (F3111), Bill of Materials (F3002), Last Outbound Work Order (F34A70), and Work Center File (F30006) tables and transfers the information to an XML file.</p>
1. Work Order Package Version (R34A1030)	<p>Use this processing option to specify the version of the Work Order Package (R34A1030) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.</p>
2. Extract File Definition	<p>Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.</p>

Processing Option or Tab	Description
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning menu (G34A).
Manufacturing Tab	Processing options on this tab control the processing of the VCP Manufacturing Package program (R34A1020), which extracts manufacturing information from the Routing Master (F3003) and Bill of Material (F3002) tables; and transfers the information to an XML file.
1. Manufacturing Package Version (R34A1020)	Use this processing option to specify the version of the VCP Manufacturing Package program (R34A1020) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.

Processing Option or Tab	Description
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definition form from the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definition form from the Value Chain Planning menu (G34A).

Processing Option or Tab	Description
Forecasting Tab	Processing options on this tab control the processing of the VCP TimeSeries program (R34A960), which extracts time series information from the F3460 table and transfers the information to an XML file.
1. Time Series (R34A1130)	Use this processing option to specify the version of the TimeSeries Package (R34A1130) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.
2. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning menu (G34A).
Calendar Tab	Processing options on this tab control the processing of the VCP Calendar extract program (R34A610), which extracts calendar information from the F0007/F30006 table and transfers the information to a txt file.
1. Calendar Extract Version (R34A610)	Use this processing option to specify the version of the Calendar Package (R34A1130) that you want the system to run in this batch. You can use the version to select the data to be included in the extract. If you leave this field blank, the system does not run the extract in this batch.
2. Clear File	Use 1 to clear the file before writing, leave blank to append to an existing file.
3. Extract File Definition	Use this processing option to specify the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions program (P34A11) from the Value Chain Planning & Scheduling menu (G34A). You must enter a key value in this field if you entered a version in the version processing option.

Processing Option or Tab	Description
4. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning & Scheduling menu (G34A).
5. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning menu (G34A).
Sales History Tab	Processing options on this tab control the processing of the VCP Sales History extract program (R34A1140/1145), which extracts order and price history information from JDE and transfers the information to a price or sales history txt file.
1. History Extract Version- Sales History Table (F42119) (R34A1140)	This processing option specifies the version of VCP Sales History Extract (R34A1140) to run. The VCP Sales History Extract program selects information from the Sales Order History table (F42119). If blank, the extract is not run. Set up the sub-UBE program for the specified version.

Processing Option or Tab	Description
2. History Extract Version - Sales Detail Table (F4211) (R34A1145)	<p>This processing option specifies the version of VCP F4211 Sales History Extract (R34A1145) to run. The VCP F4211 Sales History Extract program selects information from the Sales Order Detail table (F4211). If blank, the extract is not run.</p> <p>Set up the sub-UBE program for the specified version.</p>
3. Clear Extract File	<p>Use this processing option to specify whether or not to clear the extract file from the previous batch before adding extracted data.</p> <p>Values are:</p> <p>Blank: Do not clear the extract file before adding new data. Append the new data to any existing data in the extract file.</p> <p>1: Clear the extract file before adding new data.</p>
4. Sales History Extract File Definition	<p>This processing option specifies the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Planning File Definition table (F34A11). The sales order history file should be named SalesOrderHistory.txt</p>
5. External Function Definition (Beginning of Processing)	<p>Use this processing option to specify the key value that is associated with external commands that are carried out immediately before this extract batch is run. The commands associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning & Scheduling menu (G34A).</p>

Processing Option or Tab	Description
6. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys on the Integration File Definitions form from the Value Chain Planning menu (G34A).
7. Price History Extract File Definition	This processing option specifies the key value that is associated with the path name of the extract file. The key value can be defined using the Planning File Definition program (P34A11) Note: This generates the PriceHistory.txt file. Specify a value if you are using Demantra Predictive Trade Planning.

For this integration, the SalesOrderHistory.xml extract is generated from the R34A1000 extract.

R34A1000 Sub-UBE Program Processing Options

This section provides information on processing options for the following R34A1000 sub-UBE programs:

- Base Package (R34A1010)
- Sales Order Package (R34A1050)
- Inventory Package (R34A1070)
- Purchase Order Package (R34A1060)
- Transfer Order Package (R34A1080)
- Customer Package (R34A1040)

- Distribution Package (R34A1090 or R34A1095)
- Work Order Package (R34A1030)
- Manufacturing Package (R34A1020)
- Time Series Package (R34A1130)
- Calendar Extract Package (R34A610)
- Sales History Package (R34A1140/1145)

Setting Base Package (R34A1010) Processing Options

Processing Option	Description
1. End Date	This processing option specifies the end date for the selection of sales orders to be included. Sales orders with a promised ship date after this date are not included.
2. Version of Supply/Demand Inclusion Rules	This processing option specifies the version of supply and demand inclusion rules used by the program. The rules define the criteria used to select items for processing.

Setting Inventory Package (R34A1070) Processing Options

Processing Option	Description
1. Omit expired lots	<p>Use this processing option to specify whether the system considers lot expiration dates when calculating on-hand inventory. For example, if you have the quantity of 200 on-hand for an item with an expiration date of August 31, 2012, and you need 200 on September 1, 2012, the program does not recognize the expired lot and creates a message to order or manufacture more of the item to satisfy demand.</p> <p>Values are:</p> <p>Blank: Do not consider lot expiration dates when calculating on-hand inventory.</p> <p>1: Consider lot expiration dates when calculating on-hand inventory.</p>
2. Receipt Routing Quantities Quantity in transit	<p>This option determines whether the stock is available for immediate use or in transit.</p> <p>Values are:</p> <p>Blank: Do not include in on-hand inventory. This ensures that quantities in transit are not included in the Beginning Available calculation on the time series.</p> <p>1: Include in on-hand inventory. These quantities are still considered available by the program.</p>
Quantity in Inspection	<p>This option determines whether the stock is available for immediate use or if it is unavailable because it is being inspected.</p> <p>Values are:</p> <p>Blank: Do not include in on-hand inventory. This ensures that quantities being inspected are not included in the Beginning Available calculation on the time series.</p> <p>1: Include in on-hand inventory. These quantities are still considered available by the program.</p>

Processing Option	Description
Quantity In Operation 1	<p>This processing option specifies whether or not User Defined Quantity 1 is considered part of the on-hand quantity. This quantity is defined in the Update Operation 1 field on the Receipt Routing Definition form. In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether it is available for immediate use.</p> <p>Values are:</p> <p>Blank: The system displays the User Defined Quantity 1 for the appropriate date.</p> <p>1: The system includes the User Defined Quantity 1 in the on-hand inventory</p>
Quantity In Operation 2	<p>This processing option specifies whether User Defined Quantity 2 is considered part of the on-hand quantity. This quantity is defined in the Update Operation 2 field on the Receipt Routing Definition form. In a manufacturing environment, sometimes it is necessary to establish where stock is, in order to determine whether it is available for immediate use.</p> <p>Values are:</p> <p>Blank: The system displays the User Defined Quantity 2 for the appropriate date.</p> <p>1: The system includes the User Defined Quantity 2 in the on-hand inventory.</p>

Setting Purchase Order Package (R34A1060) Processing Options

Processing Option	Description
1. End Date	<p>This processing option specifies the ending date for the selection of purchase orders to be included. Purchase orders with a promised delivery date after this date are not included.</p>

Processing Option	Description
2. Version of Supply/Demand Inclusion Rules	This processing option defines the version of supply/demand inclusion rules that are read by the program. The rules define the criteria used to select items for processing.

Setting Transfer Order Package (R34A1080) Processing Options

Processing Option	Description
1. End Date	This processing option specifies the ending date for the selection of purchase orders to be included. Purchase orders with a promised delivery date after this date are not included.
2. Version of Supply/Demand Inclusion Rules	This processing option defines the version of supply/demand inclusion rules that are read by the program. The rules define the criteria used to select items for processing.

Setting Customer Package (R34A1040) Processing Options

You do not need to set any processing options for R34A1040. Create a version of the program as specified in the processing options of the R34A1000 program.

Setting Distribution Package (R34A1090 or R34A1095) Processing Options

You do not need to set any processing options for R34A1090 or R34A1095. Create a version of these programs as specified in the processing options of the R34A1000 program.

Setting Work Order Package (R34A1030) Processing Options

You do not need to set any processing options for R34A1120. Create a version of the program as specified in the processing options of the R34A1000 program.

Processing Option	Description
1. End Date	This processing option specifies the ending date for the selection of purchase orders to be included. Purchase orders with a promised delivery date after this date are not included.
2. Version of Supply/Demand Inclusion Rules	This processing option defines the version of supply/demand inclusion rules read by the program. The rules define the criteria used to select items for processing.
3. Convert Queue and Move Resource Units to Hours	<p>If you use resource units for queue and move fields, use this processing option to convert resource units to hours for use by VCP.</p> <p>Values are:</p> <p>1: Convert the queue and move resource units to hours per day.</p> <p>Blank: Do not convert. The queue and move hours are already represented in hours per day.</p>
4. Prohibit Change Status	This processing option specifies the work order status at which changes are no longer allowed. VCP cannot modify work orders with a status greater than or equal to this value.

Setting Manufacturing Package (R34A1020) Processing Options

Processing Option	Description
1. Convert Queue and Move Resource Units to Hours	<p>If you use resource units for queue and move fields, use this processing option to convert resource units to hours for use by VCP.</p> <p>Values are:</p> <p>1: Convert the queue and move resource units to hours per day.</p> <p>Blank: Do not convert. The queue and move hours are already represented in hours per day.</p>
Manufacturing BOM Data Selection (F3002) Extract Version (R34A1020B)	If blank, BOMs are not be extracted.
Star Item Data Selection (F34A32) Extract Version (R34A1020S)	If blank, star items are not be extracted.
Configured Item Data Selection (F3293) Extract Version (R34A1020C)	If blank, no Configured Item information is extracted.

Setting Time Series Package (R34A1130) Processing Options

Processing Option	Description
<p>Process tab</p> <p>1. Opportunities</p>	<p>This processing option extracts opportunities for the VCP Forecast Package.</p> <p>Values are:</p> <p>1: Time series records is extracted.</p> <p>0: Time series records are not extracted.</p>
2. Forecasts	<p>This processing option extracts forecasts for the VCP Forecast Package. Values are:</p> <p>1: Time series records are extracted.</p> <p>0: Time series records are not extracted.</p>

Processing Option	Description
3. Bucket Type	<p>This processing option specifies the length of period to group the opportunities and forecasts. Values are:</p> <p>M: Opportunities and forecasts are grouped into monthly buckets.</p> <p>W: Opportunities and forecasts are grouped into weekly buckets.</p>
4. Start Date	<p>This processing option specifies the start date of the first opportunity and forecast. If this processing option is blank, the system date is used.</p>
5. Count	<p>This processing option specifies the number of periods to extract.</p>
6. Probability	<p>This processing option specifies the percent probability that raw opportunities must equal or exceed to be extracted.</p>
Version tab	<p>This processing option specifies the version of the VCP Outbound Forecast Package - Data Selection (R34A940), which extracts manufacturing forecast information from the Forecast (F3460) and ItemMaster (F4101) tables when CRM is not used.</p>
1. VCP Outbound Forecast Package - F3460 Data Selection. (R34A940)	<p>Note: R34A940 has no processing options. However, you need to create a version of the program as specified in this processing option.</p>

Setting Calendar Extract Package (R34A610) Processing Options

You do not need to set any processing options for R34A610. Create a version of the program as specified in R34A1000.

Setting Value Chain Planning Sales History Extract (R34A1140) Sub-UBE Program Options

The following table outlines the R34A1140 sub-UBE program options:

Processing Option	Description
Begin Date	This processing option specifies the beginning date for the selection of sales history. Sales orders with a promised ship date before this date are not included.
Version of Supply/Demand Inclusion Rules	This processing option defines the version of supply/demand inclusion rules read by the program. The rules define the criteria used to select items for processing.

Performing Incremental Sales History Extracts from JD Edwards EnterpriseOne

You can extract complete or incremental sales history information from JD Edwards EnterpriseOne.

To extract incremental sales history information from JD Edwards EnterpriseOne, open the R34A400_VCDMINCR.xml sample runubexml template file (or the one you have created in your environment) and edit the report interconnect values at the end of the file as shown here below:

Field	Description
nFromDays	<p>This processing option specifies the number of days before or after the current day to begin gathering extract data.</p> <p>To gather data starting after today, enter a positive number. For example, to gather data starting three days after today, enter 3.</p> <p>To start gathering data before today, enter a negative number. For example, to start gathering data three days before today, enter -3.</p> <p>The value 0 represents today. If both the FromDays and ThruDays fields are blank, the value is assumed to be 0, which will extract only today's historical data.</p>

Field	Description
NthruDays	<p>This processing option specifies the number of days before or after the current day to stop gathering extract data.</p> <p>To stop gathering data after today, enter a positive number. For example, to stop gathering data three days after today, enter 3.</p> <p>To stop gathering data before today, enter a negative number. For example, to stop gathering data three days before today, enter -3.</p> <p>The value 0 represents today. If both the FromDays and ThruDays fields are blank, the value is assumed to be 0, which will extract only today's historical data.</p>
NincrementalLoadIndicator	<p>This processing option specifies whether full or incremental data is extracted from the Planning Outbound Processor.</p> <p>Values are:</p> <p>0: Full extraction.</p> <p>1: Incremental extraction based on values in the FromDays and ThruDays fields.</p>

Note: You cannot extract incremental sales history records by running the R34A1000 or R34A400 programs in the JD Edwards EnterpriseOne user interface. To generate incremental Sales History extracts, variables must be specified in the runubexml template file and the runubexml command must be run in a batch script using R34A400.

Setting Up the VCP to JDE Processor (R34A1500)

This section contains an overview of the VCP to JDE Processor (R34A1500) and its sub-UBE program processing options.

R34A1500 Extract Program

The VCP to JDE Processor (R34A1500) transfers XML packages from Value Chain Planning to JD Edwards EnterpriseOne. It is associated with the JDE to VCP Processor

(R34A1000), which exports JD Edwards EnterpriseOne supply chain management data to Value Chain Planning.

The VCP to JDE Processor can export depending on the configuration of the VCP to JDE Processor, all or part of the data listed:

- Purchase order messages
- Transfer order messages
- Work Orders (work order deletions) / Detailed production plans (work order adds/changes)

The following table identifies the data that is retrieved by using each of the import programs:

Inbound Transfer Batches	Data Retrieved
VCP Inbound Purchase Order Messages (R34A1520)	<p>Use this batch program to import purchase order messages from VCP into the MPS/MRP/DRP Message File table (F3411). The system then processes the purchase order messages and updates the Purchase Order Detail File table (F4311).</p> <p>Use a processing option to specify the default purchase order type. Before it adds new messages, this program deletes from the MPS/MRP/DRP Message File table (F3411) any existing messages for the specified item, branch and order type.</p>
VCP Inbound Transfer Order Messages (R34A1530)	<p>Use this batch program to import purchase order messages from VCP into the MPS/MRP/DRP Message File table (F3411). The system then processes the purchase order messages and updates the Transfer Orders (ST/OT).</p> <p>Before it adds new messages, this program deletes from the MPS/MRP/DRP Message File table (F3411) any existing messages for the specified item, branch and order type.</p>
VCP Inbound Master Production Plan Package (R34A1560)	This package is for Work Order Deletions only.

Inbound Transfer Batches	Data Retrieved
VCP Inbound Detailed Production Plan Package (R34A1560)	<p>This package is for Work Order Additions and Modifications only.</p> <p>Use this batch program to import detailed production plans from VCP that contain scheduled routings, operations, resources, and the consumed and produced items.</p> <p>Upon receipt, JD Edwards EnterpriseOne creates, updates, or cancels related manufacturing execution transactions, work order headers, parts list, and routing instructions based on the recommended optimized production plan from VCP. Resource assignments per routing instruction from the production plan are also persisted within JD Edwards EnterpriseOne.</p> <p>The following tables are updated:</p> <ul style="list-style-type: none"> <li>• Work Order Master File (F4801) <li>• Work Order Master Tag File (F4801T) <li>• Work Order Parts List (F3111) <li>• Work Order Routing (F3112) <li>• Work Order Routing Resource (F34A150) <li>• Item Location File (F41021) <p>Use a processing option to specify the default work order type, a reason code for fixed work orders, and the version of the Manufacturing Work Order Processing program (P48013) to use.</p>

Using the processing options associated with the VCP to JDE Processor or its import programs, you can customize the messages and extracts generated. For more finite customization, there are data selection options available.

Using JD Edwards EnterpriseOne versions, you can create different configured sets of inbound extracts that can be run at different times during the day to meet your requirements.

R34A1500 Processing Options

The R34A1500 program processes the files that contain planning recommendations generated from Oracle Advanced Supply Chain Planning into JD Edwards EnterpriseOne.

Important: In a shared directory configuration, the paths specified in extract file definitions must point to a valid path that is shared between the JD Edwards EnterpriseOne server and the ODI server.

Additional Information: For additional information, see ODI Directory Structure.

Three categories of processing options can be set to import the XML extracts. They include:

- VCP to JDE Processor processing options
- Import program processing options
- JD Edwards EnterpriseOne program processing options

The VCP to JDE Processor Processing Options

The VCP to JDE Processor processing options include general processing options that:

- Monitor the transmission of the extract files to ensure that data is not corrupted by more than one data transmission occurring at a time.
- Define error logging.
- Specify the extracts to be imported by JD Edwards EnterpriseOne.
- Specify any external programs or scripts to be run when the selected extracts are imported.

The Import Program Processing Options

These processing options are specific to the selected import programs and provide some common customization and filtering options useful when integrating with Value Chain Planning programs.

JD Edwards EnterpriseOne Program Processing Options

These processing options are specific to the JD Edwards EnterpriseOne manufacturing programs and provide some common customization and filtering options required

when importing detailed production plans from Value Chain Planning.

The following table lists the processing options for the VCP to JDE Processor program (R34A1500):

Processing Option or Tab	Description
Process 1 Tab	Processing options on this tab control batch processing. Note: Oracle recommends that you turn off batch control only under certain conditions. For example, batch control is not needed the first time that you run the batch associated with this control file.
1. Control File Definition	Use this processing option to specify the key value that is associated with the path name of the Supply Chain Management inbound control file. This processing option is required. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definition program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).
2. Process Control	This processing option causes the JDE to VCP Processor (R34A1000) to check that the VCP to JDE Processor (R34A1500) has completed before running. Blank—Do not check that the VCP to JDE Processor (R34A1500) has completed. 1—Do check that the VCP to JDE Processor (R34A1500) has completed.
Process 2 Tab	Processing options on this tab control error handling and processing of external functions.

Processing Option or Tab	Description
1. Recipient for Error Notification	Use this processing option to identify the address book number of the person who receives messages during batch processing. These messages appear in the Personal Inbasket folder in the Supply Chain Management work center. If you leave this field blank, the system does not send a notification when errors occur.
2. Error Log Definition	Use this processing option to specify the key value that is associated with the path name of the error log that is created in the batch. If you leave this field blank, the system does not write the error log text file, but it still produces the standard report output. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A). The error log is a text file that contains batch status information and record counts. The same information appears on the standard report that is produced by this batch program.
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out before any individual import batch programs are run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out after any individual import batch programs are run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that sends data, runs an external program, or performs most command line processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).
Process 3 Tab	Processing options on this tab control processing of the MRP/MPS Detail Message Revisions (R3411) and VCP Work Order Cancel (R34A1550) programs.
1. MRP/MPS Detail Message Processing Version (R3411)	Use this processing option to specify the version of the Message Processing (R3411) that you want the system to run in this batch. The system processes only messages in the MRP/MPS/DRP Message File table (F3411) that were imported from VCP. If you leave this field blank, message processing will not run.
2. VCP Inbound Work Order Cancel Version (R34A1550)	Use this processing option to specify the version of the VCP Inbound Work Order Cancel (R34A1550) that you want the system to run in this batch, following the import of the VCP Inbound Work Order Messages (R34A1560). Processing options that are specific to this import program can be set on the VCP Inbound Work Order Cancel program (R34A1550). If you leave this field blank, the VCP Inbound Work Order Cancel (R34A1550) will not run.
3. Cancellation of Purchase Orders	Use this option to disable R34A1520 from deleting any previous outbound purchase orders (R34A1060) not inbounded.

Processing Option or Tab	Description
4. Cancellation of Transfer Orders	Use this option to disable R34A1530 from deleting any previous outbounded transfer orders (R34A1080) not inbounded.
Purchase Order Messages Tab	Processing options on the Purchase Order Messages tab control the processing of the VCP Inbound Purchase Order Messages program (R34A1520). Use this batch program to import purchase order messages from VCP into the MPS/MRP/DRP Message File table (F3411). The system then processes the purchase order messages and updates the Purchase Order Detail table (F4311).
1. Purchase Order Messages Import Version (R34A1520). If left blank, the import will not run.	Use this processing option to specify the version of the VCP Inbound Purchase Order Messages program (R34A1520) that you want the system to run in this batch. This program populates the MRP/MPS/DRP Message File (F3411) table with purchase order message information passed in from VCP. If you leave this field blank, the system does not run the import in this batch.
2. Import File Definition	Use this processing option to specify the key value that is associated with the path name of the import file. You must enter a key value in this field if you entered a version in the version processing option. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this import batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this import batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).
Transfer Order Messages Tab	Processing options on the Transfer Order Messages tab control the processing of the VCP Inbound Transfer Order Messages program (R34A1530). Use this batch program to import transfer order messages from VCP into the MPS/MRP/DRP Message File table (F3411). The system then processes the transfer order messages and updates the Purchase Order Details table (F4311).

Processing Option or Tab	Description
1. Transfer Order Messages Import Version (R34A1530). If left blank, the import will not run.	Use this processing option to specify the version of the VCP Inbound Transfer Order Messages program (R34A1530) that you want the system to run in this batch. This program populates the MRP/MPS/DRP Message File (F3411) table with transfer order message information passed in from VCP. If you leave this field blank, the system does not run the import in this batch.
2. Import File Definition	Use this processing option to specify the key value that is associated with the path name of the import file. You must enter a key value in this field if you entered a version in the version processing option. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this import batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this import batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).
Work Order Messages Tab	This controls the processing of Work Order deletion messages via the Master Production Plan file. Work Order creation and modifications is achieved through the use of the Detailed Production Plan file.
1. Work Order Messages Import Version (R34A1540). If left blank, the import will not run.	Use this processing option to specify the version of the VCP Inbound Work Order Messages Plan program (R34A1540) that you want the system to use to run this batch. If you leave this field blank, the system does not run the import in this batch.
2. Import File Definition	Use this processing option to specify the key value that is associated with the path name of the import file. You must enter a key value in this field if you entered a version in the version processing option. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this import batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this import batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).

Processing Option or Tab	Description
Detailed Production Plan Tab	<p>Processing options on the Detailed Production Plan tab control the processing of the VCP Inbound Detailed Production Plan program (R34A1560). Use this batch program to import detailed production plan messages from VCP into:</p> <ul style="list-style-type: none"> • Work Order Master File (F4801) • Work Order Master Tag File (F4801T) • Work Order Parts List (F3111) • Work Order Routing (F3112) • Work Order Routing Resource (F34A150) • Item Location File (F41021)
<p>1. Production Plan Import Version (R34A1560). If left blank, the import will not run.</p>	<p>Use this processing option to specify the version of the VCP Inbound Detailed Production Plan program (R34A1560) that you want the system to use to run this batch. If you leave this field blank, the system does not run the import in this batch.</p>
<p>2. Import File Definition</p>	<p>Use this processing option to specify the key value that is associated with the path name of the import file. You must enter a key value in this field if you entered a version in the version processing option. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).</p>

Processing Option or Tab	Description
3. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this import batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).
4. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands that are carried out immediately after this import batch is run. The commands that are associated with this key can be used to carry out a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys using the Integration File Definitions program (P34A11) on the Value Chain Planning & Scheduling menu (G34A).

R34A1500 Sub-UBE Program Processing Options

This section provides information on sub-UBE programs called from the main outbound process program, R34A1500.

Setting Inbound Purchase Order Messages (R34A1520) Processing Options

Processing Option	Description
1. Purchase Order Type	This processing option specifies the order type used for new purchase orders. If blank, OP is used as the default order type.

Setting Inbound Transfer Order Messages (R34A1530) Processing Options

Processing Option	Description
1. Transfer Order Type	This processing option specifies the order type used for new transfer orders. If blank, OT is used as the default order type.

Setting Inbound Detailed Production Plan (R34A1560) Processing Options

Processing Option	Description
Process tab	This processing option specifies the order type used for creating new work orders. If blank, WO is used as the default order type.
1. Work Order Type	
2. Display Reason Code	This processing option displays a code that explains why the work orders are fixed and not processed or changed during the inbound detailed production plan run. Enter 1 to display the code. If this processing option is blank, no reason is displayed.
3. Work Order Entry Version (P48013)	This processing option specifies a version of the Manufacturing Work Order Processing program (P48013) to be used by the VCP Inbound Detailed Production Plan Package program (R34A1560). If this processing option is blank, then version ZJDE0001 is used.

Setting Manufacturing Work Order (P48013) Processing Options

You must set processing options for Manufacturing Work Order Processing (P48013). The following table lists the processing options available for Manufacturing Work Order Processing (P48013):

Processing Option or Tab	Description
Defaults Tab	The processing options on the Defaults tab are used to set up the version of Manufacturing Work Order Processing (P48013) that is used by the VCP to JDE Processor program (R34A1500).
Document Type	Use this processing option to specify the type of XML document that is imported by Manufacturing Work Order Processing (P48013). The default value is WO for work order.
Opt Defaults Tab	The processing options on the Opt Defaults tab are used to define the work order header for new work orders.
Work Order Type	Use this processing option to specify the work order type that you want the system to use for new work orders. The default is S for service order. Use M to specify a maintenance order.
Work Order Priority	Use this processing option to specify the work order priority. The default is 1.
Beginning Status	Use this processing option to specify a valid status that determines the statuses at which new work orders are created. Work order statuses are determined by the Inbound Detailed Production Plan package (R34A1560).
Charge to Business Unit	Use this processing option to specify the business unit that the new work order is charged to. Specify 1 to use the project number. Leave the option blank to use the branch or plant.
Cross Reference Code	Use this processing option to specify a cross-reference code for the new work order.
Validating Tab	The processing options on the Validating tab are used to recalculate parts list and routing information and validate the existing item or branch record.

Processing Option or Tab	Description
Item/Branch Plant	Do not set this processing option. The item or branch record is validated when the Inbound Detailed Production Plan package (R34A1560) is processed.
Disp Options Tab	<p>The processing options on the Disp Options tab determine whether the Bill of Material field and Routing Type fields are displayed.</p> <p>Bill of Material and Routing Type fields display.</p>
Bill of Material Field	Use this processing option to display the Bill of Material field. A value of 1 displays this field. Leave this field blank if you do not want the field displayed.
Routing Type Field	Use this processing option to display the Routing Type field. A value of 1 displays this field. Leave this field blank if you do not want the field displayed.
Versions Tab	The processing options on the Versions tab specify the versions of the Routing (P3112) and Parts List (P3111) applications.
Routing (P3112)	Use this processing option to specify a version of the Work Order Routing program (P3112) to be used by the VCP Inbound Detailed Production Plan Package program (R34A1560). If left blank, version ZJDE0001 is used. When you select a version, review the version's processing options to ensure that the version meets your requirements.
Parts List (P3111)	Use this processing option to specify a version of the Work Order Parts List program (P3111) to be used by the VCP Inbound Detailed Production Plan Package program (R34A1560). If this processing option is left blank, version ZJDE0001 is used. When you select a version, review the version's processing options to ensure that the version meets your requirements.

Processing Option or Tab	Description
Process Mfg Tab	The processing option on the Process Mfg tab enables or disables the creation of co-products and by-products.
Co- and By-Products	Do not set this processing option. By leaving the field blank, you specify that no co-products and by-products are created.
Interop Tab	The processing option on the Interop tab determines the transaction type that is used.

Setting Work Order Parts List (P3111) Processing Options

In addition to setting the processing options for Manufacturing Work Order Processing (P48013), you need to set up processing options for the Work Order Parts List program (P3111). The following table lists the processing options available for the Work Order Parts List program (P3111):

Processing Option or Tab	Description
Edits Tab	The processing options on the Edits tab control the processing of any changes to the parts list and component selection.
Process Tab	The processing options on the Process tab control the processing of parts lists.
Commitment Processing	Use this processing option to specify how commitments are processed. Enter 1 if you want Order Promising (R3410) to process commitments. Leave the field blank if you want commitments to be processed during the inbound process.
Process Tab	The processing option on the Process tab determines the operation sequence number to use.

Setting Work Order Routing (P3112) Processing Options

In addition to setting the processing options for Manufacturing Work Order Processing

(P48013), you need to set up processing options for the Work Order Routing program (P3112). The following table lists the processing options available for the Work Order Routing program (P3112):

Processing Option or Tab	Description
Edits Tab	The processing options on the Edits tab control the processing of any changes to the parts list and component selection.
Parts List at Prior Revision Levels	Do not set this processing option.
Select Components for Parts List	Do not set this processing option.
Process Tab	The processing options on the Process tab control the processing of parts lists.
Routings	Do not set this processing option.
Substitute Processing Method	Do not set this processing option.
Commitment Processing	Use this processing option to specify how commitments are processed. Enter 1 if you want Order Promising (R3410) to process commitments. Leave the field blank if you want commitments to be processed during the inbound process.
Component Generic Text	Do not set this processing option.
Process Tab	The processing option on the Process tab determines the operation sequence number to use.
Phantom Operation Sequence Number	Do not set this processing option.

Setting Order Processing (R31410) Processing Options

In addition to setting the processing options for Manufacturing Work Order Processing (P48013), you need to set up processing options for Order Processing (R31410). The following table lists the processing options available for Order Processing (R31410):

Processing Option or Tab	Description
Process Tab	The processing options on the Process tab control the behavior of work order routings.
Generate Parts List and Routing Instructions	Do not set this processing option.
Update Parts List and Routing Instructions	Use this processing option to update the existing parts list and routing instructions. Enter 1 in this field.
Printing 1 Tab	The processing options on the Printing 1 tab control the printing of work orders, parts lists, and parts list details.
Parts Lists	Use this processing option to print a parts list. Enter 1 in this field.

Setting up the Demantra to EnterpriseOne Imports (R34A410)

The R34A410 program processes the files that contain the published forecast from Demantra to JDE E1 and Promotion Pricing from PTP.

The R34A410 UBE used to process other update files for JDE E1, these have now been superseded by R34A1500 and can be ignored for this integration.

Important: In a shared directory configuration, the paths specified in extract file definitions must point to a valid path that is shared between the JD Edwards EnterpriseOne server and the ODI server.

Additional Information: For additional information, see ODI Directory Structure.

Setting Demantra Inbound (R34A410) Processing Options

Processing Option	Description
<p>Process 1 tab</p> <p>1. Control File Definition - JD Edwards EnterpriseOne</p>	<p>Use this processing option to specify the key value that is associated with the path name of the outbound control file. This processing option is required.</p> <p>The key value can be defined using the Planning File Definition program (P34A11)</p>
<p>Process 2 tab</p> <p>Error Log Definition</p>	<p>Use this processing option to specify the key value that is associated with the path name of the error log that is created in the batch. The error log is a text file containing batch status information and record counts.</p> <p>The key value can be defined using the Planning File Definition program (P34A11)</p>
<p>Forecasts tab</p> <p>1. Forecast Import Version (R34A485)</p>	<p>This tab is used only to import forecasts from Demantra directly into JDE E1.</p> <p>This processing option specifies the version of the VCP Inbound Forecasts program (R34A485) to run. If blank, the import is not run.</p> <p>This program populates the Forecast table (F3460) with forecast information that is passed in from Demantra. You can set processing options that are specific to this import program for the Forecasts Import version (R34A485), which you enter in this field.</p> <p>Set up the sub-UBE program for the specified version.</p>

Processing Option	Description
2. Clear Import File	<p>This processing option specifies whether or not to clear the import file after the data on the file has been processed. Values are:</p> <p>Blank: Do not clear the import file after processing the batch. Save the incoming data on the import file.</p> <p>1: Clear the import file after processing the batch. If you enter 1 in this field, but you leave the VCP Inbound Forecasts version processing option blank, the import file is cleared.</p>
3. Import File Definition	<p>This processing option specifies the key value that is associated with the path name of the import file. You must enter a key value in this field if you entered a version in the version processing option.</p> <p>The key value can be defined using the Planning File Definition program P34A11.</p> <p>The file containing the forecast values must be named Forecast.txt</p>
4. External Function Definition (Beginning of Processing)	<p>Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys in the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).</p>
5. External Function Definition (End of Processing)	<p>Use this processing option to specify the key value that is associated with external commands, which are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program.</p>

Processing Option	Description
<p>Promotional Pricing tab</p> <p>1. Inbound Promotional Pricing Version (R45640)</p>	<p>This tab is used only by PTP customers to import promotions from Demantra into JDE E1.</p> <p>This processing option specifies the version of the VCP Inbound Promotional Pricing program (R45640) to run. If blank, the import is not run.</p>
<p>2. Clear Import File</p>	<p>This processing option specifies whether or not to clear the import file after the data on the file has been processed. Values are:</p> <p>Blank: Do not clear the import file after processing the batch. Save the incoming data on the import file.</p> <p>1: Clear the import file after processing the batch.</p> <p>If you enter 1 in this field, but you leave the Inbound Promotional Pricing version processing option blank, then the import file is cleared.</p>
<p>3. Import File Definition</p>	<p>This processing option specifies the key value that is associated with the path name of the import file. You must enter a key value in this field if you entered a version in the version processing option.</p> <p>The key value can be defined using the Planning File Definition program P34A11.</p> <p>Promotion Pricing needs two versions, one for the Delete_PromoPricing.txt file and one for the PromotionPricing.txt file.</p> <p>The Delete_PromoPricing.txt version must be run first, and then the PromotionPricing.txt version. This causes the promotion in JDE E1 to be replaced by the new entries in PromotionPricing.txt</p>

Processing Option	Description
4. External Function Definition (Beginning of Processing)	Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys in the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).
5. External Function Definition (End of Processing)	Use this processing option to specify the key value that is associated with external commands, which are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program.
Demantra tab	This processing option specifies whether you are integrating with Demantra. Values are:
1. Indicate if the processor is used for Demantra Integration	Blank: Not used for Demantra integration 1: Used for Demantra integration. The MDE date format, semicolon (;) flat file delimiter, and double quote (") text qualifier is used to format the extracts. This formatting overrides the formatting set in the Planning Integration Constants, ensuring the output is compatible with Demantra applications.

Setting Inbound Forecasts (R34A485) Processing Options

In addition to the forecast processing options in the VCP to JDE Processor (R34A410), you must also set processing options for the VCP Inbound Forecasts Package program (R34A485). The following table lists the VCP Inbound Forecasts Package processing options:

Processing Option	Description
Default Forecast Type	Use this processing option to specify the default forecast type to use when adding new forecasts. Select a forecast type from the UDC table 34/DF. If this processing option is left blank, BF is used.
Fiscal Date Pattern	A code that identifies date patterns. You can use one of 15 codes. You must set up special codes (letters A through N) for 4-4-5, 13-period accounting, or any other date pattern unique to your environment. An R, the default, identifies a regular calendar pattern.

Setting Inbound Promotional Pricing (R45640) Sub-UBE Program Options

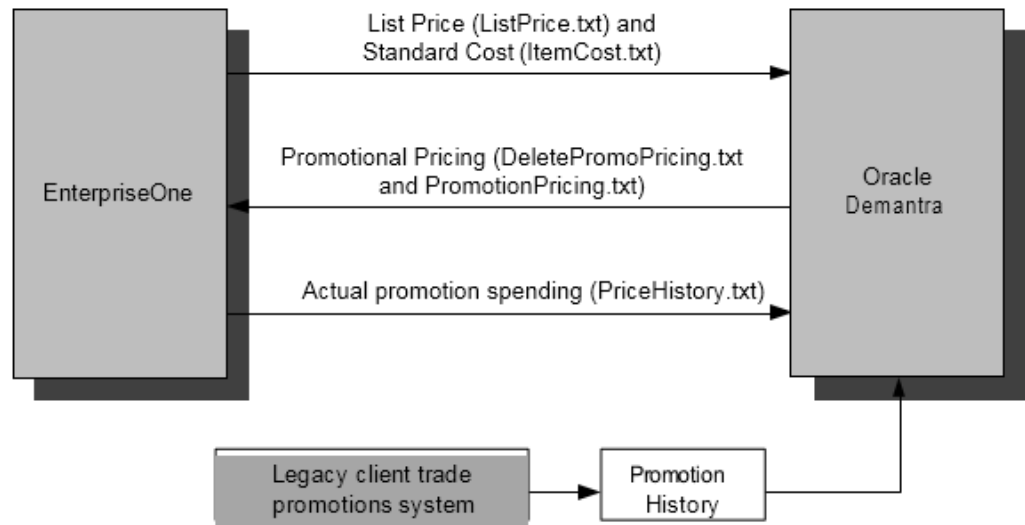
This is used for importing PTP Price information.

Option	Description
Process 1 tab 1. Automatically Launch Live Promotions Update	This processing option automatically calls the Live Promotions Update program (R45720ZB), which runs over the data created in the batch run. Values are: Blank: No 1: Yes
Versions 1. Version of Live Promotions Update (R45720ZB)	This processing option specifies the version of the Live Promotions Update program to run. If blank, version XJDE0001 is used. A version of the R45720ZB must be set up.

Extracts Required for Integration with Demantra Predictive Trade Planning

The Demantra PTP integration is an extension of the Demantra Demand Management integration. Entities loaded from JD Edwards EnterpriseOne into Demantra for the Demand Management integration is also required a PTP implementation. Sales history information should be extracted from JD Edwards EnterpriseOne using the steps described in the Demand Management integration section.

The following diagram illustrates the logical integration flow between JD Edwards EnterpriseOne and Demantra PTP:



The integration flow is as follows:

Master data and sales history information are extracted from JD Edwards EnterpriseOne and loaded into Demantra during the Demand Management integration.

This populates the item and location hierarchies in Demantra and loads sales history information required to generate forecasts.

1. List price (ListPrice.txt) and item cost (ItemCost.txt) are loaded into Demantra.
Future List Price and Standard Cost information are extracted from JD Edwards EnterpriseOne and loaded into Demantra, populating the Demantra sales data structure, which is used to plan future promotions.
2. Historical Promotions are loaded.
Historical promotional information must be loaded into Demantra at the beginning of an implementation. This information comes from the Trade Promotions Management system. The standard Demantra integration interface loads this data.
3. The forecasting engine is run in Demantra PTP.
The Predictive Trade Planning forecasting engine generates baseline forecasts for the customer and product hierarchies based on sales activity and promotion history provided in steps 1 and 3.
4. Future promotions are planned in Demantra PTP.
5. Future promotional pricing is loaded from Demantra to JD Edwards EnterpriseOne using Delete_PromoPricing.txt and PromotionPricing.txt.

Promotional Pricing (Off-Invoice and Bill-Back Allowances) information interfaced from Demantra to the JD Edwards EnterpriseOne Advanced Pricing module and applies correct price discounts during order management.

6. In JD Edwards EnterpriseOne, orders are processed for new promotions.
7. Actual promotional spending and accruals are extracted from JD Edwards EnterpriseOne and loaded into Demantra using PriceHistory.txt.
8. Actual Promotional Spending or Accruals is the actual amount spent for off-invoice promotions or accrued (for bill-back promotions).

Important: Demantra PTP uses the Parent Address Number and Parent Address Description fields in JD Edwards EnterpriseOne and loads this data to the Retailer level in Demantra. Retailer is a parent level of the Site level, which represents the ship-to site.

Promotions in Demantra are usually planned at the Retailer level. It is recommended that you populate the Parent Address Number and Parent Address Description fields in JD Edwards EnterpriseOne. If Parent Address fields are null in JD Edwards EnterpriseOne, the customer code and customer name are populated into the Retailer level.

Setting Value Chain Planning Outbound (R34A400) Processor Options

The R34A400 processor extracts List Price information (by ListPrice.txt) and Item cost information (by ItemCost.txt).

Option	Description
<p>Process 1 tab</p> <p>Control File Definition - JD Edwards EnterpriseOne</p>	<p>This processing option specifies the key value that is associated with the path name of the outbound control file. This processing option is required.</p> <p>The key value can be defined using the Planning File Definition program (P34A11).</p>

Option	Description
<p>Process 2 tab</p> <p>Error Log Definition</p>	<p>This processing option specifies the key value that is associated with the path name of the error log that is created in the batch. The error log is a text file containing batch status information and record counts.</p> <p>The key value can be defined using the Planning File Definition program (P34A11).</p>
<p>Demantra tab</p> <p>1. Indicate if the processor is used for Demantra Integration</p>	<p>This processing option specifies whether you are integrating with Demantra. Values are:</p> <p>Blank – Not used for Demantra integration</p> <p>1: Used for Demantra integration. The MDE date format, semicolon (;) flat file delimiter, and double quote (") text qualifier is used to format the extracts. This formatting overrides the formatting set in the Planning Integration Constants, ensuring the output is compatible with Demantra applications.</p>
<p>List Price tab</p> <p>1. Future List Price Extract Version (R45529)</p>	<p>This processing option specifies the version of the Future List Price program (R45529) to run in the batch. If blank, the import is not run.</p> <p>A version of the sub-UBE program R45529 must also be set up.</p>
<p>2. Clear extract file</p>	<p>This processing option specifies whether or not to clear the extract file from the previous batch before adding extracted data. Values are:</p> <p>Blank: Do not clear the extract file before adding new data. Append the new data to any existing data in the extract file.</p> <p>1: Clear the extract file before adding new data.</p>

Option	Description
3. Extract file definition	<p>This processing option specifies the key value that is associated with the path name of the extract file. The key value can be defined using the Planning File Definition program (P34A11)</p> <p>The file name must be ListPrice.txt</p>
Item Cost tab	<p>This processing option specifies the version of the Future List Price program (R41053) to run. If blank, the import is not run.</p>
1. Item Cost Extract Version (R41053)	<p>A version of the sub-UBE program R41053 must also be set up.</p>
2. Clear extract file	<p>This processing option specifies whether or not to clear the extract file from the previous batch before adding extracted data. Values are:</p> <p>Blank: Do not clear the extract file before adding new data. Append the new data to any existing data in the extract file.</p> <p>1: Clear the extract file before adding new data.</p>
3. Extract file definition	<p>This processing option specifies the key value that is associated with the path name of the extract file. The key value must be a valid entry in the Planning File Definition table (F34A11).</p> <p>The file must be named ItemCost.txt</p>

If you are using Demantra PTP, then extract Price History information (PriceHistory.txt) using the R34A400 outbound processor by setting the Price History extract file definition in the Sales History tab.

Setting Future List Price (R45529) Processing Options

In addition to setting the processing options in the VCP Outbound Processor (R34A400), you must also set processing options for the R45529 program in order to extract future list prices. The processing options include:

Processing Option	Description
1. Item Pricing	<p>This processing option specifies whether or not to include item pricing in extract file. Values are:</p> <p>Blank: Do not include</p> <p>1: Include</p>
2. Customer Price Group	<p>This processing option specifies whether or not to include records in the Item Base Price table (F4106) for a specific customer price group in the extract file. These records are selected in addition to item pricing and item or customer pricing records.</p> <p>Blank: Do not include</p> <p>1: Include</p>
3. Item/Customer pricing	<p>This processing option specifies whether or not item or customer pricing is included in the extract file. Values are:</p> <p>Blank: Do not include</p> <p>1: Include</p>
4. Currency Code	<p>This processing option specifies which currency to extract. If you do not enter a currency code, the system extracts the currency designated for company 000000.</p>
5. Unit of Measure	<p>If you do not enter a unit of measure, prices are extracted in the item's primary unit of measure.</p>
6. Branch/Plant	<p>If you do not enter a value, prices for all branches or plants are extracted.</p>
7. Multiple Prices	<p>This processing option specifies whether or not the system allows the extraction of multiple prices. Values are:</p> <p>Blank: Error.</p> <p>1: Allow multiple price extractions.</p>

Note: : If you leave the Branch/Plant option blank but select the Multiple Prices option, then the application reports an error and stops processing. If you leave the Branch/Plant option and Multiple Prices option blank, then multiple prices can be written to the extract file. If any value is entered for the Branch/Plant option, then multiple prices cannot be written to the extract file.

Setting Item Cost (R41053) Processing Options

Set the processing options for the R41053 extract program to extract future list prices.

Processing Option	Description
1. Multiple Costs	This processing option specifies whether or not to allow multiple costs. Values are: Blank: Error 1: Include

Setting Value Chain Planning Inbound (R34A410) Processing Options

The VCP Inbound Processor (R34A410) imports promotional pricing information from Demantra into JD Edwards EnterpriseOne. Demantra PTP enables you to create a new promotional price for an item. The Oracle Demantra system bases this price on several factors. The JD Edwards EnterpriseOne Advanced Pricing integration with Oracle Demantra requires that once a promotional discount is accepted and activated, it is applied to JD Edwards EnterpriseOne advanced pricing tables.

The accounting for the promotional discount occurs in one of two methods:

- Off-invoice. The discount is applied to the final price that is invoiced to the customer.
- Billback. This discount does not come from the invoiced price, but rather from an accrual account.

When new promotions are sent to JD Edwards EnterpriseOne, the file contains a record for every Account and Item combination on the promotion. Regardless of the Demantra customer or product level, promotion information is always sent to JD Edwards EnterpriseOne at the Account location and Item product level.

If a promotion is modified in Demantra after it has been sent to JD Edwards EnterpriseOne, then a set of delete entries are sent to JD Edwards EnterpriseOne, followed by a set of new promotion entries.

Note: Promotional changes are handled by replacing the promotion in JD Edwards EnterpriseOne.

For the inbound promotional pricing program, set up two versions of R34A410; one for Delete_PromoPricing.txt and one for PromotionPricing.txt.

The following table provides information for the Demantra integration. Other tabs may be used in an implementation for other purposes, for example, external function definitions at the beginning or end of the processing.

Processing Option	Description
<p>Process 1 tab</p> <p>1. Control File Definition JD Edwards EnterpriseOne</p>	<p>This processing option specifies the key value that is associated with the path name of the outbound control file. This processing option is required.</p> <p>The key value can be defined using the Planning File Definition program (P34A11).</p>
<p>Process 2 tab</p> <p>2. Error Log Definition</p>	<p>This processing option specifies the key value that is associated with the path name of the error log that is created in the batch. The error log is a text file containing batch status information and record counts.</p> <p>The key value can be defined using the Planning File Definition program (P34A11), which you access from the Value Chain Planning & Scheduling menu (G34A).</p>
<p>Promotional Pricing</p> <p>1. Inbound Promotional Pricing Version (R45640)</p>	<p>Specify the version of the inbound promotion pricing program (R45640) to run. If blank, the import is not run.</p> <p>Note: A version of the R45640 extract program must be set up.</p>
<p>2. Clear Import File</p>	<p>This processing option specifies whether or not to clear the import file after the data on the file has been processed. Values are:</p> <p>Blank: Do not clear the import file after processing the batch. Save the incoming data on the import file.</p> <p>1: Clear the import file after processing the batch.</p>

Processing Option	Description
3. Import File Definition	<p>This processing option specifies the key value associated with the path name of the import file. You must enter a key value in this field if you entered a version in the version processing option.</p> <p>The key value can be defined using the Planning File Definition program (P34A11).</p> <p>Promotion Pricing needs two versions, one for the Delete_PromoPricing.txt file and one for the PromotionPricing.txt file.</p> <p>The Delete_PromoPricing.txt version must be run first, and then the PromotionPricing.txt version. This causes the promotion in JDE E1 to be replaced by the new entries in PromotionPricing.txt</p>
4. External Function Definition (Beginning of Processing)	<p>Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys in the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).</p>
5. External Function Definition (End of Processing)	<p>Use this processing option to specify the key value that is associated with external commands, which are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external</p>

Processing Option	Description
Demantra tab 1. Indicate if the processor is used for Demantra Integration	This processing option specifies whether or not you are integrating with Demantra. Values are: Blank: Not used for Demantra integration 1: Used for Demantra integration. The MDE date format, semicolon (;) flat file delimiter, and double quote (") text qualifier are used to format the extracts. This formatting overrides the formatting set in the Planning Integration Constants, ensuring that the output is compatible with Demantra applications.

Setting Inbound Promotional Pricing (R45640) Sub-UBE Program Options

Option	Description
Process 1 tab 1. Automatically Launch Live Promotions Update	This processing option automatically calls the Live Promotions Update program (R45720ZB), which runs over the data created in the batch run. Values are: Blank: No 1: Yes
Versions 1. Version of Live Promotions Update (R45720ZB)	This processing option specifies the version of the Live Promotions Update program to run. If blank, version XJDE0001 is used. A version of the R45720ZB must be set up.

Setting Live Promotions Update (R45720ZB) Processing Options

Processing Option	Description
Defaults 1. Enter the preference hierarchy name to be used (Required)	The preference hierarchy for promotional price adjustment definitions. The promotional hierarchy must use a hierarchy based on the Sold to, Ship to, or parent address number.
2. Enter the unit of measure code for which to write the price details record (Required)	This processing option specifies the unit of measure to which the system converts the promotional amount. A conversion does not occur if the value is set to the planning unit of measure.
3. Enter the branch plant to utilize for a branch specific conversion	This processing option specifies the branch or plant the system uses to find a conversion factor when conversions are set up to be branch specific.
4. Enter G/L Offset for Bill Back Adjustment	The G/L offset for the billback promotional price adjustment definition. You can change the value on the price adjustment definition after it is created. If the pricing engine updates a promotion, the value is not used to update the promotional adjustment definition.
5. Enter Subledger for Bill Back Adjustment	The subledger for the billback promotional price adjustment definition. You can change the value on the price adjustment definition after it is created. If the pricing engine updates a promotion, the value is not used to update the promotional adjustment definition.
6. Enter G/L Offset for Off Invoice Adjustment	The G/L offset for the off-invoice promotional price adjustment definition. You can change the value on the price adjustment definition after the system creates it. If the pricing engine updates a promotion, the value is not used to update the promotional adjustment definition.
7. Enter Subledger for Off Invoice Adjustment	The subledger for the off-invoice promotional price adjustment definition. You can change the value on the price adjustment definition after it is created. If the pricing engine updates a promotion, the value is not used to update the promotional adjustment definition.

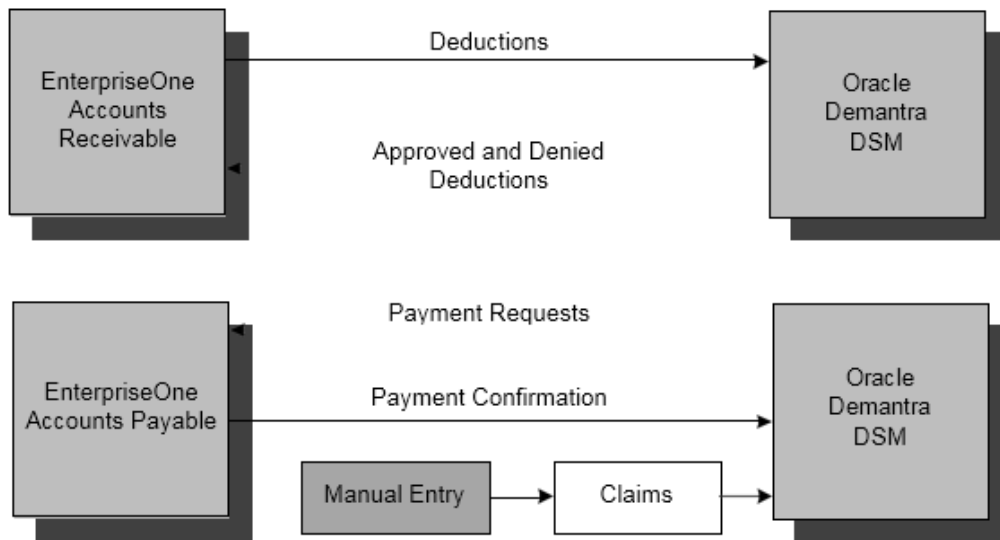
Processing Option	Description
Pricing Schedule 1. Enter the Product Code of the User Defined Code to drive schedule application	The UDC's product code used as a driver for the schedule application.
2. Enter the User Defined Code type to drive schedule application.	The user-defined code value used to run the schedule application.
3. Enter the User Defined Code driver method	<p>The driver method for which UDC values are entered in options 1 and 2. Values are:</p> <p>Blank: The system ignores the values in options 1 and 2 and does not apply adjustment definitions to any schedules. This action allows you to manually attach adjustment definitions to appropriate schedules.</p> <p>1: The system uses the UDC values that you entered in options 1 and 2 to apply the created adjustment definitions to the schedule name indicated in the code value of the UDC. The value must exist in the 40 AS UDC.</p> <p>2: The system uses values in from the 40 AS UDC to apply to valid schedules. The system skips the values indicated in options 1 and 2. The value must exist in the 40/AS UDC. The system applies new promotional adjustment definitions to the schedules that you determine here.</p>
4. Beginning Sequence range for definition application	<p>The beginning sequence value applied to the schedule.</p> <p>This is the first number identified for schedule application.</p>
5. Ending sequence range for definition application	<p>The ending sequence value applied to the schedule. This is the last number identified for schedule application.</p>
6. Sequence increment factor for definition application	<p>The incremental factor used when the system searches for an appropriate place to apply a schedule.</p>

Extracts Required for Integration with Demantra Deductions and Settlement Management

Oracle Demantra Deductions and Settlement Management tracks and resolves deductions and settlement methods that are common to the consumer goods industry.

The Oracle Demantra Deductions and Settlement Management (DSM) product requires implementation of Oracle Demantra Predictive Trade Planning (PTP) as a prerequisite.

The following diagram illustrates the logical integration flow between JD Edwards EnterpriseOne and Demantra PTP:



Setting Open Deductions Extract (R03B0209) Processing Options

The Open Deductions Extract program (R03B0209) extracts open deductions from JD Edwards EnterpriseOne A/R and creates a flat file. The extract sends new deductions without any updates.

Processing Option	Description
1. Enter File Name and Path	The name and path of the created flat file. The file name must be Dedcutions.txt.
2. Enter Control File Name and Path	The name and path of the created flat file. This file prevents concurrent processing of other inbound batch processes that utilize this same control file.

Important: In a shared directory configuration, the paths specified in extract file definitions must point to a valid path that is shared between the JD Edwards EnterpriseOne server and the ODI server.

Additional Information: For additional information, see ODI Directory Structure.

Setting Deduction Dispositions (R03B41Z2) Options

This program takes the approved and denied deductions from Demantra and processes them in JD Edwards EnterpriseOne.

Option	Description
Process tab	
1. Specific Date as GL Date	The date used to populate the General Ledger date in the Interoperability - Deductions Management (F03B41Z1) table. If blank, the server date is used.
2. Enter File Name and Path	The path for DeductionsDispositions.txt. The file name must be DedcutionDispositions.txt.
3. Automatically Launch Process Interop Deductions (R03B41Z1)	This processing option specifies whether or not the Process Interop Deductions (R03B41Z1) program is automatically called. Values are: Blank: Review the inbound record, perform the update at a later time, or both. 1: Run the Process Interop Deductions (R03B41Z1) program. This program runs over the created data.
4. Enter control file name and path	The name and path of the created flat file. This file prevents concurrent processing of other inbound batch processes that utilize this same control file.

Option	Description
Versions tab Version of Process Interop Deductions (R03B41Z1)	If the automatic launch processing option is selected, specify the version to use for deduction records processing. If blank, version XJDE0001 is used. A version of the sub-UBE program R03B41Z1 must be set up. The R03B41Z1 program has no processing options. Create a version of the program or use the default program XJDE0001.

Important: In a shared directory configuration, the paths specified in extract file definitions must point to a valid path that is shared between the JD Edwards EnterpriseOne server and the ODI server.

Additional Information: For additional information, see ODI Directory Structure.

Setting AP Claim (R04110ZB) Processing Options

The JD Edwards EnterpriseOne Accounts Payable integration with Oracle Demantra Trade Promotions supports the process of receiving claims in the Demantra system and creating a payment request in the JD Edwards EnterpriseOne Accounts Payable system.

Processing Option	Description
Process 1. Enter Control File Name and Path	The name and path of the created flat file. This file prevents the concurrent processing of other inbound batch processes that use the same control file.
2. Enter File Name and Path	The name and path where the Claim.txt file from Demantra is located.

Processing Option	Description
3. External Function Definition (Beginning of Processing)	<p>Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing.</p> <p>The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys in the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).</p>
4. External Function Definition (End of Processing)	<p>Use this processing option to specify the key value that is associated with external commands, which are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or</p>
Defaults 1. Voucher G/L Date	<p>This processing option specifies the general ledger date to use for the voucher. Values are:</p> <p>Blank: Use the system date.</p> <p>1: Use the invoice date from the Inbound AP Claims flat file. 2: Use the settlement date of origin from the Inbound AP Claims flat file.</p>
2. Override Voucher G/L Date	<p>This processing option specifies a general ledger date for the voucher. If you enter a value in this processing option, the date overrides the Voucher general ledger Date processing option.</p>

Processing Option	Description
3. G/L Offset for Bank Account	<p>This processing option specifies the G\L offset assigned to the bank charge.</p> <p>If blank, the default value is AAI PB.</p> <p>A PB AAI with the correct account information must exist. The value from this processing option concatenates with the PB value to resolve the AAI.</p>
4. G/L Offset for G/L Distribution	<p>This processing option specifies the general ledger offset for the PExx expense item.</p> <p>The PE AAI for the general ledger offset that you specify identifies the expense account.</p> <p>If blank, the default is AAI PE. A PE AAI with the correct account information must exist. The value from this processing option concatenates with the PE value to resolve the AAI.</p>
Versions 1. Batch Voucher Processor (R04110ZA)	<p>This processing option specifies the version of the Voucher Batch Processor (R04110ZA) to run. If blank, the Voucher Batch Processor is not run.</p> <p>Set up a version of the sub-UBE program.</p>

Setting Outbound AP Confirmation (R04110ZC) Processing Options

Processing Option	Description
Process 1. Enter Control File Name and Path	The name and path of the created flat file. This file prevents concurrent processing of other inbound batch processes that utilize this same control file.
2. Enter File Name and Path	The path where the APConfirm.txt file is created.

Processing Option	Description
3. Voucher Document Type	This processing option specifies the Oracle Demantra document type to confirm the payments Enter PV (Voucher)
4. Multiple Payments Description	This processing option specifies the description to indicate multiple payments. For example: MP.
5. External Function Definition (Beginning of Processing)	<p>Use this processing option to specify the key value that is associated with external commands, which are carried out immediately before this extract batch is run.</p> <p>Commands associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line processing. The key value must be a valid entry in the Integration File Definition table (F34A11). You can enter path names and keys in the Integration File Definition program (P34A11) from the Value Chain Planning & Scheduling menu (G34A).</p>
6. External Function Definition (End of Processing)	<p>Use this processing option to specify the key value that is associated with external commands, which are carried out immediately after this extract batch is run. The commands that are associated with this key can be used to run a script (for example, an FTP script) that retrieves data, runs an external program, or performs most command line-type processing.</p>

Important: In a shared directory configuration, the paths specified in extract file definitions must point to a valid path that is shared between the JD Edwards EnterpriseOne server and the ODI server.

Reviewing Data Transfer

This section discusses the options and tools for reviewing the validity of UBE runs.

Outbound Processor (R34A1000/R34A400) Options and Tools

After you run the Outbound Processor (R34A1000), the system provides these results:

- A file for each extraction that is run.

Inbound Processor (R34A1500/410) Options and Tools

After running either the Inbound Processor (R34A1500/410), the system provides the following results:

- If you imported forecasts (R34A410), then the Demand Management system sends the forecasts to the Forecast File table (F3460). You can view the forecasts through the Forecast Revisions program (P3460).
- If you imported planning messages, then the purchase order, transfer order, and work order messages are sent from Value Chain Planning to the MPS/MRP/DRP Message File table (F3411), where they are automatically processed. Inbound work order messages then update the Work Order Master File table (F4801). In addition, the inbound purchase order messages and inbound transfer order messages update the Purchase Order Detail File table (F4311).
- If you imported detailed production plans, then the detailed production plans are sent from Value Chain Planning to the appropriate tables. Data for scheduled routings, operations, operation resources, consumed items, and produced items are sent from Value Chain Planning to the Work Order Master File (F4801), Work Order Master Tag File (F4801T), Work Order Parts List (F3111), Work Order Routing (F3112), Work Order Routing Resource (F34A150), and Item Location File (F41021) tables.

Configuring PeopleSoft Integration with Oracle Demantra Demand Management

This chapter provides an overview of Demantra integration and discusses how to:

Note: This chapter does not pertain to JDE EnterpriseOne users.

This chapter covers the following topics:

- Understanding PeopleSoft to Demantra Integration
- Setting Up Calendar and Weight Profiles
- Mapping PeopleSoft Fields To Demantra Fields
- Exporting Data from PeopleSoft to Demantra
- Importing Data from Demantra to PeopleSoft
- Running the PeopleSoft to Demantra Integration
- Step 1: Maintain User Data
- Step 2: Build and Review the Demand History Process
- Step 3: Export the Demand History Process
- Step 4: Collect Planning Data
- Step 5: Collect Sales History
- Step 6: Collect Price List and UOM
- Step 7: Forecast Management
- Step 8: Publish to Source System
- Step 9: Import the Forecast into PeopleSoft

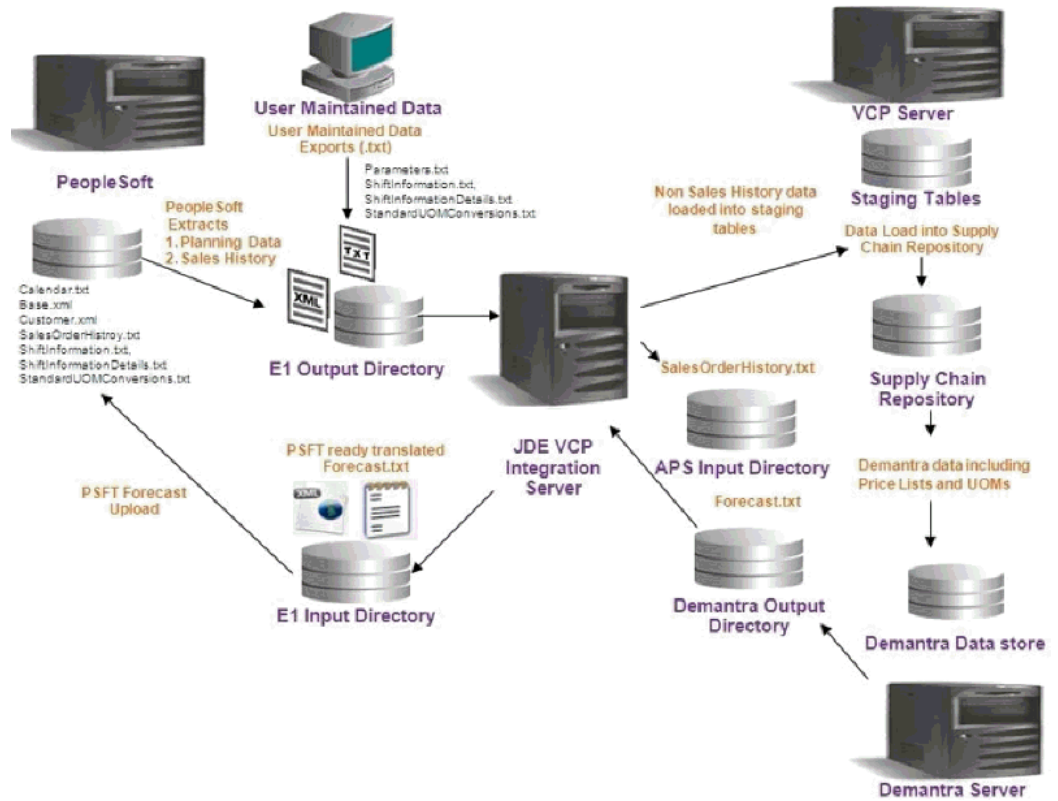
Understanding PeopleSoft to Demantra Integration

Only integration between PeopleSoft and Demantra Demand Management is supported. Other VCP applications cannot be integrated with PeopleSoft.

After data setup is complete, the typical daily process for PeopleSoft to Demantra Demand Management integration is as follows:

- Build demand history in PeopleSoft.
- Extract customer, item, branch, calendar and sales history data from PeopleSoft.
- Run Collect Planning Data.
- Run Collect Sales History.
- Run Collect Price List and UOM.
- Run the Forecasting process in Demantra Demand Management.
- Publish Forecast to Source System.
- Use the Import Forecast component to upload the published forecast.

Forecasts are then available in other PeopleSoft applications. This is outlined in the following diagram:



ShiftInformation.txt, ShiftInformationDetails.txt, and StandardUOMConversions.txt can be defined in PeopleSoft or in the User Maintained Data file.

Configuring PeopleSoft to Demantra Integration

Before you run the PeopleSoft to Demantra integration, you must perform configuration and setup steps in PeopleSoft. Use the SCM Integrations – Advanced Planning – Demantra components to set up the behavior of data that is imported and exported to and from Demantra Demand Management. Use these components to:

- Create calendars and weight profiles. Calendars and weight profiles are used to specify period buckets and daily weights.
- Build demand history from PeopleSoft application internal data. This internal, transactional data consists of demand quantities, dates, costing information, and attributes related to product, item, location, customers and so on. You must run this process at least once and after that, it is a daily task.
- Create a map ID that maps PeopleSoft fields to Demantra integration file fields. These field mappings are used to specify which data is passed to Demantra Demand Management for use in forecast generation.
- Create specifications and run controls to export Demand History Data to flat files

for Demantra Demand Management.

- Create specifications and run controls to import forecast data from Demantra Demand Management. This data is used to publish forecast information and populate existing publish tables for PeopleSoft applications.

Setting Up Calendar and Weight Profiles

This section provides an overview of calendars and discusses how to:

- Define calendar patterns.
- Create and maintain calendars.
- Define calendar periods.

Understanding Calendars

PeopleSoft calendars control forecast and inventory policy parameters for each day of the year by using weights. The application stores weights for each day and distributes raw data into different period buckets based on the weights.

Note: Some calendar attributes are used by PeopleSoft Inventory Policy Planning and not in conjunction with Demantra Demand Management integration.

Here are some key factors for working with calendars:

- Establish an overall time frame that might extend over several years.

A calendar should start at a date that is equal to or prior to the earliest date of the demand history that you want the application to populate and recognize. The calendar should extend beyond the end of the forecast horizon.

Set up a standard calendar which includes the generally observed corporate holidays or vacations. You can then copy this calendar to other calendars as a starting point when setting up calendars to reflect local operating conditions.

- Define multiple calendars that cover the same date ranges.
- Change days within a specific calendar to contain various elements of data.

Calendar patterns are week-long templates that you use to maintain calendar weights for each day in a weight profile. The week is from Monday through Sunday. Use patterns to set up daily weights attributes quickly for calendar weight profiles and apply them to a range of dates within the weight profile.

Weight profiles are templates that you use to create and maintain daily weights. The default weight profile typically has a normal weight distribution across a given date range.

Here are some examples of weight profiles that can be set up for customer ordering patterns:

- Orders are placed on the 1st and the 15th of the month.
- Orders are placed toward the end of the month.
- Orders are placed toward the end of the quarter.

Periods define time buckets for a calendar. Each calendar period is numbered within a year, either based on a calendar or fiscal year, and has a start date and an end date.

The definitions also allow the system to associate fiscal years and periods with underlying calendars, based on calendar years. For example, suppose that an organization's fiscal year runs from July to June on a monthly basis and you associate month one with July. The calendar period definition runs from July 1 of the starting year to June 30 of the ending year. In turn, the definition associates period one in each fiscal year with the month of July.

You cannot overlap start and end dates within a single period definition. However, the same day can belong to a different period in another period definition. The period definitions are independent of the daily weight attributes and therefore, the same day within the same calendar has identical attributes even if it is contained in multiple period definitions.

Note: When deciding whether to base period definitions on calendar or fiscal years, consider which period that forecasters and collaborators consider as period one. When PeopleSoft Inventory Policy Planning publishes the forecast for Supply Planning or Inventory, the system uses dates to determine the period to which the forecast is assigned.

The system copies the data setup for a pattern code to the appropriate day in the weight profile. You can apply different pattern codes for different date ranges to change daily attributes or weightings for days that are in a selected date range. The pattern code is not stored in the weight profile; rather, the system copies attributes from the pattern code to each day in the weight profile. Therefore, you can reapply the pattern-code data to parts of the weight profile at any time.

You can also:

- Create new pattern codes and apply them to weight profiles that are already in use.
- Assign pattern codes to weight profiles by using the Weight Profiles window. To access the window, select Define Calendars, Weight Profiles.

- Change details for an existing pattern code at any time.
- This does not change the details on a weight profile where the pattern code has been used. To change the weight profile details, you must maintain the individual weight profile by reapplying the new pattern code to it or by changing the weight details manually on the weight profile.

Defining Calendar Patterns

Access the Define Calendar Patterns window by navigating to SCM Integrations, Advanced Planning, Demantra, Calendar Patterns.

Item	Description
Pattern Code	Enter a code for use when you apply the pattern to a period of data. You assign pattern codes to weight profiles by using the Weight Profiles window. You can add a new calendar pattern at any time, and you must define at least one calendar pattern before you add a new weight profile.
Demand Weight	Demand Weight: Enter the relative weight for each day. For Demantra integration, the demand weight is used to determine whether a day is a working or a nonworking day when the system creates the calendar flat file.

Creating and Maintaining Calendars

Access the Define Calendar Structure window by navigating to SCM Integrations, Advanced Planning, Demantra, Calendars.

Item	Description
Calendar ID	Enter a code for identifying the calendar. This field is required.
Start Date	Enter a date that is early enough to cover the entire period of historical data that you plan to use in the system. The date is required and cannot be changed after you save the calendar.

Item	Description
End Date	Enter a date that is far enough in the future to cover all future planning periods. PeopleSoft recommends that you start and end the overall calendar on the first and last day of a year even if the organization's fiscal year is different. The system requires the date and can extend it during the life of the calendar.

Defining Calendar Periods

You can define multiple period codes for a calendar along with varying date ranges that increase the flexibility of the calendar.

To create calendar periods:

1. Navigate to SCM Integrations, Advanced Planning, Demantra.

2. In the Calendars window, click the Periods Tab.

3. If you are creating additional periods, click the Add Row button.

If this is the first time that calendar periods are added for the calendar, you do not need to perform this step.

4. Enter the period code that you want to use for the calendar, and a description.

5. Select a period type that determines which periods per year the calendar uses.

The system inserts the default value for the selected period type in the Periods Per Year field. You can override that value; however, if you want to customize the periods per year, select the Periodic period type.

If you previously added a period code, the system enters default values in the Start Date, End Date, and Forecast Period/Year start and end fields. You can override these values as needed.

6. Enter a start date and end date to set up the date range for the period code.

The system provides a default start and end date from the calendar. Values are required for both fields.

7. Enter values in the Forecast Period/Year fields for the start and end date to define a starting period other than the system default.

Use this feature to distinguish between a yearly calendar and a fiscal calendar.

Yearly calendars match the start date, but you offset the date by entering the period

that matches the start of the fiscal year. Values are required for both fields. If you are setting up weekly periods codes, you must indicate what week is the first week of the year.

8. Click the Recreate button.
9. If this is the first time that periods are defined for the calendar, click the Create button.

The system populates the lower portion of the window with more detailed period information. You can change the details for an existing period definition at any time; however, you cannot change all of the fields. To change the period type or the starting date or starting period year, you must delete the period definition and recreate it. You can change the end date, end period, and year, as well as any of the individual period start and end dates.

The system can re-create period date ranges automatically. This process deletes existing period data and creates new periods and ranges that are based on the date and period details that you provide. If you need to extend the period definition end date, select a new end date, period and year; then click the Extend button to create new periods at the end of the existing periods, extending the periods through to the new end date.

Item	Description
Period Code	Enter a unique code that the system uses to retrieve data that you define for this period definition. Periods cannot overlap or have gaps between them. Within a single definition, you must include each day in a period, and a day cannot belong to more than one period.

Item	Description
Period Type	<p>Select a value that determines the type of periods that make up the calendar. The formats for all period types are recurring through the end date for the calendar. The field is required. Values include:</p> <p>4 WEEKLY: Each period is made up of four weeks. Use this in situations when you want to use a 13-month calendar.</p> <p>445: The first two periods are four weeks long and the third is five weeks long.</p> <p>454: The first and last periods are four weeks and the second period is five weeks.</p> <p>544: The first period is five weeks and last two are four weeks. Each of the 4-4-5 period types are the same. The only difference is to indicate which month begins the 4-4-5 cycle.</p> <p>If the first month that you define in the calendar is the second month of the 4-4-5 cycle, select the 4-5-4 period type. If the first month that you defined in the calendar is the five-week month, select the 5-4-4 period type.</p> <p>MONTHLY: Each period represents a calendar month.</p> <p>PERIODIC: The number of periods in a year is the value that you enter in the Periods Per Year field.</p> <p>QUARTER: Each period is three months long.</p> <p>WEEKLY: Each period is seven days long.</p>
Periods Per Year	<p>Enter the number of periods that occur in one year for the period type that you selected. The system provides a default value that is based on the period type that you select.</p>
Total Periods	<p>Displays the total number of periods in the calendar horizon when periods are created.</p>

Item	Description
Start Date and End Date	<p>Enter a start and end date to define a subset of periods within the calendar, or change the start date to match the period one start date. The start and end dates must be within or equal to the start and end dates that you define on the Calendars window.</p> <p>Note: When adding weekly periods based on a calendar year, make sure that the start date is at the beginning of the week that you want to have as week one.</p> <p>For example, suppose that the week runs from Sunday to Saturday and January 1 is a Friday. Set the start date to January 3 and include the prior two days in the last period of the previous year.</p> <p>Refer to the ISO 8601 (International Standards Organization) standard for determining the first week of the year. Also, the ISO calendar standards indicate which years have 52 weeks (short ISO calendar year) and which years have 53 weeks (long ISO calendar years).</p> <p>For example, 1998, 2004, and 2009 might be within the calendar horizon and if you are establishing weekly periods. Then you should refer to the ISO standard to determine the beginning dates for the weeks in those years.</p>

The following table lists actions if the monthly period type is based on a calendar year or a fiscal year:

Calendar Type	Period and Year Action
Calendar Year Start Date:1/1/2012	Period Action: The system uses the default value of 1 as the start period. Year Action: The system uses the default value of 2012 as the year.
Calendar Year Start Date: 7/1/2012	Period Action: The system uses the default value of 7 as the start period. Year Action: The system uses the default value of 2012 as the year.
Fiscal Year: July 1-June 30 Start Date: 1/1/2012	Period Action: You must enter 7 (January) as the forecast period to show the middle of the fiscal year. Year Action: You must enter 2010 as the fiscal year for the forecast.
Fiscal Year: July 1-June 30 Start Date: 7/1/2012	Period Action: You must enter 1 as the forecast period to show the start of the fiscal year. Year Action: You must enter 2012 as the fiscal year for the forecast.

After you enter data and re-create it, review the record of periods to enter any changes that you want to make to the start and end dates. If you change an end date, the system automatically updates the next start date. If you change a start date, the system automatically adjusts the previous end date. If there are insufficient days between the start and end date or too many days to split into periods, an error message appears.

Mapping	Description
Forecast Period/Year	The system populates these start and end values based on the information that you enter in the Start Date and End Date fields. Enter either a forecast period, a year, or both to create or maintain the start and end date of the calendar manually.
Recreate	Click to rebuild period definitions if you change the forecast date, period, or year.

Mapping	Description
Extend	<p>Click if you want the system to calculate the start and end period dates automatically for the period of time that you add. This increases the time over which the period code is valid by extending the end date.</p> <p>Note: If you click the Extend button, then you must recalculate the trading days to populate the trading days value for those extended periods.</p>

Defining Calendar Weight Profiles

Access the Calendar Weight Profiles window by navigating to SCM Integrations, Advanced Planning, Demantra, Weight Profiles.

The Calendar ID and Year fields are display-only. You can change the month field and enter data in each of the daily boxes. You must create a weight profile for each calendar. The system requires that you have a weight profile for the calendar that is associated with a forecast that is designated as the default weight profile.

Item	Description
Calculate Trading Days	<p>Select this option to indicate that the system should use this weight profile to calculate trading days. If you select to calculate trading days, then when you maintain calendar period information. You can also view the total number of trading days for each period. Use the Periods window to view the number of trading days.</p> <p>Note: This feature is not used with the Demantra integration.</p>

Item	Description
Pattern Code	<p>Select a pattern code. When you set up a new weight profile, you can add the daily weights automatically by using one or more pattern codes. This is the easiest way to create the basic daily data for the weight profile for the first time. After this, you can change some or all of the daily weights by using another pattern code or by changing the weights for a single day.</p> <p>Note: . It is not necessary to apply the pattern code to the entire weight profile before saving it. Provided the weight profile has a start and end date, you can save it without applying a pattern and then subsequently apply the pattern code for ranges of dates within the weight profile start and end dates as required.</p>
Start Date	<p>Select a date from which you want to apply the pattern along with an end date. You can repeat this to apply different patterns to different date ranges within the calendar.</p>
End Date	<p>Select a date on which you want to finish applying the pattern.</p>

Changing Daily Calendar Weights

Access the Change Calendar Weights window (SCM Integrations, Advanced Planning, Demantra, Change Calendar Weights).

A daily calendar displays each day along with any weights for the day. Use the calendar to adjust the daily weight attribute by entering the relative demand weight for the day.

Mapping PeopleSoft Fields To Demantra Fields

You can map PeopleSoft fields for use with Demantra Demand Management processing. The system provides a field where you can indicate whether the map is at the product or item level. This section discusses how to:

- Map base fields.
- Map customer fields.
- Map sales fields.

Defining Base Field Maps

Access the Define Field Mappings - Base window by navigating to SCM Integrations, Advanced Planning, Demantra, Define Field Mappings.

Use this window to define which PeopleSoft fields are mapped to Demantra fields contained in the integration Base.xml file. You must select a value in the Item/Product Forecasts field. The window consists of a number of mapping fields along with a single Item Group Mappings grid used for mapping additional fields to Demantra using the Custom Hook functionality provided by the integration. For a new mapping, the system provides default values for field mappings.

Note: When you are using the Item Group Mappings grid, the group name that you enter cannot match the category name. Group names must be unique and cannot be duplicated, but you can map the same planning field mapped to more than one group.

Mapping	Description
Map Name	Enter a name that you want to use to describe the map ID.
Item Code	<p>If the Item/Product Forecasts field value is Item, then the system sets the Item Code field to INV_ITEM_ID. The field cannot be changed. If the Item/Product Forecasts field value is Product, the Item Code field is set to PRODUCT_ID and cannot be changed.</p> <p>You cannot leave the Item/Product Forecasts field blank.</p>
DM_ITEM_DESC	<p>Displays a value based on the Item/Product Forecasts field setting. When the setting is Item, this field displays MITBL_DESCR..</p> <p>When the setting is Product, this field displays PRDITM_DESCR.</p>

Mapping	Description
Organization	The field is set to BUSINESS_UNIT_IN if the Item/Product Forecast field is set to Item. The Organization field is set to BUSINESS_UNIT_IN when the Item/Product Forecast field value is Product.
DM_ORG_DESC	Displays the description – DESC and is used to pass the description for the business unit to the integration.
Master Branch	Select a master branch. The master branch is required by the integration for validation purposes but the value is not used by Demantra. The master branch populates the base.xml file so that the branch will have an entry for each item or product, whether that branch and item combination exists in reality.
Product Family	Select a product family for the map ID. The system uses the data in this field to populate the product family in Demantra.
Planning UOM	Displays the unit of measure to be mapped to the planning unit of measure in the integration. You cannot change the value.
Shipping UOM	Select the shipping unit of measure for this map ID. The shipping unit can be the shipping, standard, volume, or weight unit of measure.
Primary UOM	Select a primary unit of measure to be used with this map ID. The primary unit can be the shipping, standard, volume, or weight unit of measure.
Volume UOM	Displays a volume unit of measure to be used with this map ID. You cannot change the value.
Weight UOM	Displays a weight unit of measure to be used with this map ID. You cannot change the value.

Branch Category Parameters

Branch categories are populated as default values and cannot be changed.

Item	Description
Operating Unit	Displays the PeopleSoft field used to populate the operating unit in Demantra. The GL_BUS_UNIT is obtained from the BUS_UNIT_TBL_GL table for the business unit that is being processed.
Business Group	Displays the PeopleSoft field – GL_BUS_UNIT– used to populate the business unit in Demantra.
Legal Entity	Displays the PeopleSoft field – LEGAL_ENTITY– that is used to populate the legal entity in Demantra.

Item Default Category

The item default category in Demantra is populated with the PeopleSoft field that you select in the Planning Field.

Item	Description
Category Name	Displays the item default category name.
Planning Field	Select a planning field to be used to populate the item default category.

Item Group Mappings

The system uses item group mappings to populate additional fields in Demantra using the Customer Hooks functionality provided through the integration.

Mapping	Description
Group Name	Enter a name for the item group mapping that you will create using this grid. The group name is required by the integration. The name cannot match the item default category name. The group name cannot be duplicated; however, you can duplicate the PeopleSoft planning field to which the name is mapped.
Planning Field	Select a PeopleSoft planning field with which you want to populate the group name that you entered.

Defining Customer Field Maps

Access the Define Field Mappings - Customer window by clicking the Customers tab on the Define Field Mappings - Base window.

Use the Define Field Mappings – Customer window to define which PeopleSoft fields are mapped to Demantra fields contained in the integration Customer.xml file. You must select a value in the Item/Product Forecasts field. The window consists of a number of mapping fields along with a single Customer Group Mappings grid used for mapping additional fields to Demantra using the Custom Hook functionality provided by the integration. For a new mapping, the system provides default values.

The Site Code field is set to the Ship to Cust ID and you cannot change the value.

Note: When you are using the Customer Group Mappings grid, the group name that you enter cannot match either the channel name or the demand class name. Group names must be unique and cannot be duplicated but you can map can use the same planning field mapped to more than one group.

The channel and demand class in Demantra are populated with the PeopleSoft values that you select for the Channel Planning Field and Class Planning Field fields. The channel name and demand class name are required by the integration.

Customer Category Parameters

Parameter	Description
Channel Name	Enter a name for the channel. This is required by the integration.
Channel Planning Field	Select a planning field that you want to map to the Channel field in Demantra.
Demand Class Name	Enter a name for the demand class. This is required by the integration.
Class Planning Field	Select a planning field that you want to map to the Demand Class field in Demantra.

Customer Group Mappings

Use this grid to map a customer group name. The system uses customer group mappings to populate additional fields in Demantra using the Customer Hooks functionality provided through the integration.

Mapping	Description
Group Name	Enter a group name. The group name cannot match either the channel name or demand class name. The group name cannot be duplicated; however, you can duplicate the PeopleSoft planning field to which the name is mapped.
Planning Field	Select a PeopleSoft planning field to which you want to link the customer group mapping name that you entered.

Defining Sales Field Maps

Access the Define Field Mappings - Sales window by clicking the Sales tab on the Define Field Mappings - Base window.

Use the Define Field Mappings window to view sales field mappings for the map ID. Field mappings on this window are display only and cannot be changed.

Mapping	Description
Item/Product Forecasts	Select whether you want to display values for either the item or product forecast. When you make a selection, the system updates values in the Field Mappings grid.
Interface Field and Planning Field	Displays the fields that the system will use to populate the SalesOrderHistory.txt file that is passed to Demantra through the integration. The Planning Field is the PeopleSoft field that you use to populate the Interface Field.

Exporting Data from PeopleSoft to Demantra

This section provides an overview of exporting data from PeopleSoft and discusses how to:

- Define export specifications
- Maintain export controls
- Export demand

Exporting Data Overview

Demand data is the actual sales requirement for a product, item, or component. When defining an import specification for demand data, select the data fields that you want the system to use for importing demand data. When you load records, the system processes demand data that matches the selection criteria that you define on this window. You can also define additional parameters or update these parameters when you run the import process. When you use this specification to load data, the system processes items only in the forecast that you select.

Defining Export Specifications

Access the Define Export Specification window by navigating to SCM Integrations, Advanced Planning, Demantra, Define Export Specifications. Use this window to define basic information about an export specification, select demand sources, and define selection criteria.

Criteria	Description
Date Updated	Displays the last date the export specification was updated.
Updated By	Displays who updated the export specification.
Posting UOM(posting unit of measure)	Displays Standard Inventory UOM which indicates that the system uses the unit of measure defined for the item at the business unit level.
Delimiter	<p>Select the delimiter that the system uses during the integration Values include:</p> <p>+ (plus sign)</p> <p>-(minus sign)</p> <p>.(period)</p> <p>/(forward slash)</p> <p>\ (backward slash)</p> <p> (slash)</p>

Criteria	Description
Forecast Kit Option	<p>Select whether you want to run the process using product kits. A product kit consists of a fixed set of components that are forecasted as a unit. The default value for the field is blank and will include components and product kits in the build process. The process creates a demand record for each product kit and for each component in the product kit.</p> <p>Forecast kit options include:</p> <p>Components: Select to include only the components in the build process. The process creates a demand record for each component in the product kit.</p> <p>Product Kits: Select to include only product kits in the build process. The process creates a demand record for each product kit.</p> <p>During inventory policy generation, PeopleSoft Inventory Policy Planning can react to the kits and explode product kit items into its components. The Policy Generation (DP_CALCPOLCY) process matches inventory policy items and attributes for use in the PeopleSoft Inventory system.</p>
Calendar ID	<p>Select a calendar to be exported and used by the integration.</p>
Weight Profile	<p>Select the weight profile that you want to use for the export. The profile determines which dates are working and nonworking days. The system also associates weight profiles with a calendar, so the values that are available for this field depend on the calendar ID that you selected.</p>

Demand Source

The check boxes that you select indicate that the system will include data from that source when it runs the export process.

Selection Criteria

Use the grid to provide filter elements for the data subset. The feature makes it possible

for you to control and filter ranges of data or types of data to be selected for export. You create the subset by establishing selection criteria for the field. For example, if you want to limit the number of items or only select data for a specific location, you can select a range of records to limit the Item Code or Location field.

Criteria	Description
Open ((open parenthesis)	Select the open parenthesis character to signify the start of a group of criteria that you want to enclose. For example, if you have three criteria, you can create a selection criteria of (A or B) and C by placing an open parenthesis on the line for A.
Field Name	Select a field on which to filter. The system uses the field you define as the basis for further limiting data when you use the Criteria field. Fields that are available for selection are dependent on the function that you use.

Criteria	Description
Operator	<p>Determines the action that the system applies to the criteria that you enter in the Criteria field. For example, suppose you want only item IDs that start with AA to be placed in the data file, use the = (like) operator. You should enter the correct form of the criteria to match the operation that you want the system to perform. Available operators depend on the window that you use.</p> <p>Values include:</p> <p><: Include values that are less than the value that you enter in the Criteria field.</p> <p><>: Include values that are not equal to the value that you enter in the Criteria field.</p> <p>=: Include only values that are equal to the criteria.</p> <p>>=: Include values that are equal to or greater than the criteria.</p> <p>BETWEEN: Include only values between the two values that you enter as criteria. This operation requires a list with values that are appropriate to the fields that are selected for string values. For example, a string might be A, B, C, and D. You enter A and D to include B and C values only. Values can include numeric strings.</p> <p>IN: Include records that contain the criteria that you enter. This operation requires a list with values that are appropriate to the fields that are selected for string values. Values can include numeric strings.</p> <p>LIKE: Include only values that match the value that you enter. The criteria must include at least one wildcard character. For example, you could use Apple%. This would select values starting with Apple while %Ap% would select values containing Ap.</p> <p>NLIK: Include values that do not match this value. This option restricts values from the data subset. The value must include at least</p>

Criteria	Description
	one wildcard character.
	NOT BET: Include values that are not between the two values that you enter in the Criteria field.
	NOT IN: Include values that are not in the range of values that you enter as selection criteria.
Criteria	Enter the value that you want the system to use when applying the operators. For example, if you select >= for an Item Code field and enter AA100 as the criteria, then the system includes only values that are equal to or greater than the criteria.
Close) (close parenthesis)	Select the close parenthesis character to signify the end of a group of criteria that you want to enclose. For example, if you have three criteria, you can create a selection criteria of (A or B) and C by placing an close parenthesis on the line for B.
Next	Provides a means of creating And or Or statements for the operators and criteria that you enter. Use the AND option to create additional criteria for the field. Use the OR option to create contrasting criteria.

Maintaining Export Controls

Access the Maintain Export Controls window (SCM Integrations, Advanced Planning, Demantra, Maintain Export Controls). Use this window to define how the system should process demand history data when exporting data to Demantra.

Field	Description
Unlock	Select to unlock the demand data history record in the event of a failure or other problem. Do not use this option when the build or load processes are running.

Field	Description
Reset	<p>Select to reset the status of all demand data history records to the status of not processed. You normally only use this option during system start up.</p> <p>Warning: This resets the status of all demand data history records to Not Processed.</p>
Rebuild	<p>Select to delete all demand data history records. You normally only use this option during system start up.</p> <p>Warning: Select to delete all demand data history records. You normally only use this option during system start up.</p>

Exporting Demand

Access the Export Demand window by navigating to SCM Integrations, Advanced Planning, Demantra, Export Demand.

Use the Export Demand window to define run controls and initiate the Export Demand History (FINT_DMD_EXP) process.

Field	Description
Specification ID	Select an export specification. An export specification defines the demand history data set that you want to export for use with the integration to Demantra Demand Management.
Edit Export Specification	Click to access the export specification that you selected to use with this run control. Using the window, you can make updates to specifications to refine the demand history data to use with the export process.

Field	Description
From and To Date	Select the date range from which to include demand history data for this export process.
Sales, Base, Customer, and Calendars	Select the date range from which to include demand history data for this export process.
File Path	Enter the location where you want the export Integration files to be created.

Importing Data from Demantra to PeopleSoft

This section discusses how to:

- Define import specifications
- Configure import run control

Defining Import Specifications

Access the Define Import Specification window by navigating to SCM Integrations, Advanced Planning, Demantra, Define Import Specifications.

Importing data is the process of retrieving forecast information sent from Demantra Demand Management and loading that into PeopleSoft publish tables. You use an import specification to define the forecast information that you want to include and where the forecast data file resides.

Field	Description
Calendar ID	Select a calendar for use by the import specification. Calendars provide the time horizon over which the forecast operates.
Time Period Code	Select a code for the selected calendar for the specification. A period definition is comprised of the number of periods per year and the total number of periods within the calendars date range. The period code defines the date range for each period and thus the size of the time buckets into which forecasts are grouped.

Field	Description
Weight Profile	Select the weight profile that you want to use for this import specification. The profile determines the weights that are associated with each time period and is used when the Publish Daily Weights check box is selected. The system associates weight profiles with a calendar.
Publish Daily Weights	Select to have the system automatically publish the daily weights associated with the calendar for this import specification. Other applications use these weights to convert the published forecast into daily time periods for aggregation or reporting purposes. The default value is to include daily weights. You can publish daily weights regardless of what time period code you select for the specification.
File Path	Enter the file name and path to the location of the external file that you want to import. The system imports the file only when you select to import the forecasts.

Selection Criteria

Use the grid to provide filter elements for the data subset. The feature makes it possible for you to control and filter ranges of data to be selected. You create the subset by establishing selection criteria for either items or locations.

Configuring Import Run Control

Access the Import Forecast window by navigating to SCM Integrations, Advanced Planning, Demantra, Define Import Specifications.

Use the Import Forecast window to define forecast specifications:

Field	Description
Specification	Use the drop-down list to enter a time specification for the forecast.

Field	Description
Publish Name	Enter the name of the publish plan.
Description	Enter a meaningful description for the forecast.
Publish Date	Click the calendar button to specify a forecast publish date.

Running the PeopleSoft to Demantra Integration

This section discusses the steps involved in running an integration between PeopleSoft and Demantra:

- Step 1: Maintain user data.
- Step 2: Build and review the Demand History process.
- Step 3: Export the Demand History process.
- Step 4: Collect Planning data.
- Step 5: Collect Sales History data.
- Step 6: Collect Price List and UOM data.
- Step 7: Run Forecast Management.
- Step 8: Publish to the source system.
- Step 9: Import the forecast into PeopleSoft.

Step 1: Maintain User Data

You must maintain non-ERP data in the Manage Integration Parameters user interface. If you are using Demantra or PeopleSoft, you must populate and maintain the Parameters and Cross References tabs. Define the following information in either the Manage Integration Parameters user interface or in PeopleSoft:

- Shift Information
- Shift-Information-Details

- Standard-UOM-Conversions

This data can be exported to a local directory using the Publish button. The files must be present in the E1 Output Directory when the VCP Collections process starts.

Additional Information: For additional information, see Chapter 11: Defining User Maintained Data.

Step 2: Build and Review the Demand History Process

This is an internal PeopleSoft process that extracts and consolidates transactional data to a staging table. You must build and review the Demand History before it can be exported.

Demand history is extracted from transactions in PeopleSoft Order Management, Billing, and Inventory. Internal data is transactional data that consists of demand quantities, dates, costing information, and attributes that are related to the product, item or customer.

The internal builder process creates a staging record by pulling the demand data and all of its related attributes (item/product/customer), costs, prices, and secondary information into a single record for each transaction. This data is read directly from sales orders, shipments, transfers, and invoices based on user-specified criteria. Demand data includes new demand for a selected date range and adjustments to demand for past periods.

When the system builds internal demand, you cannot make changes to demand data that's extracted from the transaction system. If the data is not correct, you should go back to the transactional system and correct it there.

To build demand history:

1. Navigate to the Build Demand History window by browsing to SCM Integrations, Advanced Planning, Demantra, Build Demand History.
2. Use the Build Demand History window to run the Build Demand History (FINT_DHBUILD) process.

The fields in the Build Demand History window include:

Item	Description
Extract Demand From	<p>Enter a starting date from which the build process should pull data. The system extracts demand history from records only for the selected transactions from this period. The default value for this field is the latest extract demand to date for the previous extraction.</p>
Extract Demand To	<p>Enter an ending date from which the build process should pull data. The default value for the field is the current date.</p>
Extract Custom Fields From	<p>Select the record from which you want to extract custom fields. You can use custom fields from PeopleSoft Inventory to update specific user-defined fields. Using this field, you determine whether the system uses custom fields from the item level or from the item/business unit level.</p>
	<p>Values include:</p>
	<p>BU Items Inventory (business unit items inventory): These custom fields are related to the item ID specifically as it relates to a specific business unit.</p>
	<p>Master Item Table: These custom fields are related to the item ID specifically across all business units.</p>

Item	Description
Forecast Kit Option	<p>Select whether you want to run the Demand Data History Builder process using product kits. A product kit consists of a fixed set of components that are forecasted as a unit.</p> <p>Forecast kit options include:</p> <p>Both: Select to include components and product kits in the build process. The process creates a demand record for each product kit and for each component in the product kit.</p> <p>Components: Select to include only the components in the build process. The process creates a demand record for each component in the product kit. Product Kits: Select to include only product kits in the build process. The process creates a demand record for each product kit.</p> <p>During inventory policy generation, PeopleSoft Inventory Policy Planning can react to the kits and explode product kit items into its components. The Policy Generation (DP_CALCPOLCY) process matches inventory policy items and attributes for use in the PeopleSoft Inventory system.</p>

3. Use the Demand Source group box to specify which internal PeopleSoft transaction data that you want to extract from PeopleSoft SCM records, such as sales orders and transfers.

4. Select the Demand Source tab.

This tab displays the PeopleSoft transaction data types that are selected for the run control ID that you select on the General tab. The check boxes that you select indicate that the system will include data from that source when it runs the build process. Sources include:

- Billing
- Sales Orders
- Order Shipments

- Material Stock Requests
- Transfers

5. Select the Status tab.

The fields in this tab include:

Criteria	Description
Status	<p>Displays the state of the corresponding run control ID.</p> <p>Values include:</p> <p>Processed: Indicates that the process is complete and extracts the number of rows of data that are displayed in the corresponding column.</p> <p>Not Processed: Indicates that this extract run control has not been processed before.</p> <p>Errored: Indicates that this process was started but not complete because of an error. The system locks the build process for one of these reasons:</p> <ul style="list-style-type: none"> • The load process was running. • The load process completed in error. • The build process was already running. • The build process completed with an error. • The forecast was locked for another price
Rows Extracted	<p>Displays the number of rows of data extracted from records when this process ran. The system writes this data to the DP_DMDHISTORY record.</p>

Criteria	Description
Notes	Displays system-generated messages that indicate the number of rows that were updated from each demand source.

Reviewing Demand Data History:

Access the Review Demand History window by navigating to SCM Integrations, Advanced Planning, Demantra, Review Demand History.

Demand

Select the Demand tab to view information about the demand. As part of the information the window displays the source and date of the demand, the quantity and value of the demand, and any errors that occurred during the build for each row of data. The demand source is where the demand originated such as a billing or a customer.

Codes

Select the Codes tab to view information about any codes associated with the demand, for example, the UOM, source code, or forecaster code.

Currency

Select the Currency tab to view information about the currency, conversion rate, cost per unit and list price for the demand.

Orders

Select the Orders tab to view information about the orders associate with the demand. This information describes, for example, the Order Management business unit, salesperson, order line and schedule line number.

Shipments

Select the Shipments tab to view information about how the demand is shipped. This includes the ship to customer and the item's shipping date.

Billing

Select the Billing tab to view billing information for the demand. Billing information includes the customer, invoice number and date, and the Billing business unit.

Items

Select the Items tab to view a variety of demand item information. Item information ranges from component, group, family and category information to attribute information such as item type and utilization group.

Products

Select the Products tab to view product demand information including the product ID, group, brand, category and product description.

Customers

Select the Customers tab to view customer demand information. Customer demand information includes the sold to customer and corporate customer and customer group and subgroup information.

Customer and Product Custom Items

Select any custom item tab for customers and product to view tailored demand information that has been defined by the organization.

Promotional Channel

Select the Promotional Channel tab to display PeopleSoft Order Management information that is related to events. Fields include Customer Channel, Classification, Division, Region, and Territory.

Step 3: Export the Demand History Process

In this step, you extract data from PeopleSoft to the JDE E1 output. Before you run this process, you must configure the extracts and run control. This process produces the following data needed to run Demand Management:

- Calendar.txt
- Base.xml
- Customer.xml
- SalesOrderHistory.txt
- ShiftInformation.txt (if not maintained in the Manage Integration Parameters UI)
- ShiftInformationDetails.txt (if not maintained in the Manage Integration Parameters UI)
- StandardUOMConversions.txt (if not maintained in the Manage Integration Parameters UI)

This process also produces the following blank files, which are also necessary:

- BeginningInventory.xml
- Distribution.xml
- Manufacturing.xml

- PurchaseOrders.xml
- SalesOrders.xml
- Supplier.xml
- TimeSeries.xml
- TransferOrders.xml
- WorkOrders.xml

.dtd files for each of these files are also required but they already exist in the E1 Output Directory folder.

Field	Description
Specification ID	Select an export specification. An export specification defines the demand history data set that you want to export for use with the integration to Demantra Demand Management.
Edit Export Specification	Click to access the export specification that you selected to use with this run control. Using the window, you can make updates to specifications to refine the demand history data to use with the export process.
From and To Date	Select the date range from which to include demand history data for this export process.
Sales, Base, Customer, and Calendars	Select the date range from which to include demand history data for this export process.
File Path	Enter the location where you want the export Integration files to be created.

To export demand history:

1. Navigate to SCM Integrations, Advanced Planning, Demantra, Export Demand.
2. Use the Export Demand window to define run controls.
3. Initiate the Export Demand History (FINT_DMD_EXP) process.

Step 4: Collect Planning Data

This process is initiated from the VCP Menu and:

1. Loads the data in E1 Output Directory.
2. Transforms the data into a format suitable for VCP.
3. Loads the VCP Staging tables MSC_ST_%.
4. Calls the VCP Loader which migrates the data from the staging tables into the main VCP ODS tables.
5. Translates SalesOrderHistory.txt and stores it in the APS Input directory.

Calendars must be initially collected and then collected again on subsequent runs if the calendar has changed/been extended.

If you are only integrating with Demantra, and calendars are loaded, select the following components to load options:

- Trading Partners
- Demand Classes
- Sales Channels
- Price Lists
- UOMs
- Items

Additional Information: For additional information, see Collect Planning Data.

Step 5: Collect Sales History

This process is initiated from the VCP Menu and:

1. Loads the SalesOrderHistory.txt file in E1 Output Directory.
2. Transforms the data into a format suitable for VCP.
3. Writes the transformed data to the DemHistory.dat file in the APS Input directory.

4. Optionally loads the DemHistory.dat file data into Demantra.

Additional Information: For additional information, see Collect Sales History.

Step 6: Collect Price List and UOM

This process is initiated from the VCP menu.

Additional Information: For additional information, see Collect Price List and UOM.

Step 7: Forecast Management

In Demantra Demand Management, generate and manage the forecast.

Additional Information: For additional information, see the Oracle Demantra Demand Management Implementation Guide.

Step 8: Publish to Source System

This process is triggered from the VCP menu. When you run the Publish to Source System:

1. Demantra writes the Forecast.txt to the Demantra Output Directory.
2. Demantra runs the PIP process to translate the customer code in Forecast.txt.
3. The system writes the translated file to the E1 Input Directory.

Step 9: Import the Forecast into PeopleSoft

1. Navigate to SCM Integrations, Advanced Planning, Demantra, Import Forecasts.
2. Use the Import Forecast Page to import the forecast into PeopleSoft.

Before you run this process, you must configure the import rules.

Additional Information: For additional information, see Configuring Import Run Control.

Importing the forecast into PeopleSoft:

1. Navigate to SCM Integrations, Advanced Planning, Demantra, Import Forecast.
2. Use the Import Forecast window to define run controls and initiate the Import External Forecast (FINT_FSTIMP) process.

Additional Information: For additional information, see Defining Import Specifications.

Defining Search Criteria for Reviewing Forecasts:

1. After you publish a name and date, click the Search button on the Review Imported Forecasts window.
2. Use the Review Imported Forecasts window to define the search criteria for the imported forecast information that you want to review.

The window header information displays the publish name, date, and map ID that you selected. After defining selection criteria, click the Search button to retrieve the search results. Click the Clear Filter button to remove selection criteria entries.

Note: If you do not define search criteria, then the system retrieves all the forecast details for the imported forecast.

Reviewing Forecast Item Details:

1. After you publish a name and date, click the Search button on the Review Imported Forecasts window.
2. Use the Forecast Item Details window to review forecast item information and access forecast period data and weight profiles.

The Forecast Item Details fields include:

Value	Description
Forecast Item	Displays the logical item/location combination for the imported forecast data. Click the link to access the Forecast Period Data window where you can review additional forecast information.

Value	Description
Item Code	Displays the item code used to define an item across the organization.
Location	Displays the location or business unit for the forecast data.
Weight Profile	Displays the weight profiles defined for this imported forecast data set. Weight profiles are templates that you use to create and maintain daily weights for calendars. One weight profile must be defined on each imported forecast data set.
Base Unit	Displays the unit of measure (UOM) in which the system stores demand and forecast quantities for the selected forecast item. This is also the UOM that is associated with all standard prices and costs.
Publish Unit	Displays the unit of measure in which the forecast was published.

Reviewing Forecast Period Data:

1. In the Forecast Item Details window, click a Forecast Item link.
2. Use the Forecast Period Data window to view basic details about the imported or published forecast period data.

This data includes period-by-period values for the imported (published) forecast. Select the Return to Item Details link to return to the Forecast Item Details window.

The fields in the Forecast Period Data window include:

Value	Description
Period	Displays the period to which this row of data pertains.
Year	Displays the year in which the period belongs.

Value	Description
Start Date and End Date	Displays the beginning and ending dates for the forecast period.
Forecast Value	Displays the total value of the forecast for the forecast period. The value appears in the published unit of measure.

Updating Imported Forecasts:

1. Access the Forecast Update window by navigating to SCM Integrations, Advanced Planning, Demantra, Forecast Data Update.
2. Use the Forecast Update window to run the FINT_FSTUPD process to update the imported forecasts.

The fields in the Forecast Update window include:

Value	Description
Publish Name	Select the name used to identify the imported forecast data. The name is a label that applications use to identify the publish activity. The name is a logical name that you can use to access and use the forecast data set again and again.
Forecast Set	Select the forecast set. The set contains the latest imported forecast set.
Item/Product Forecasts	Select whether to update the forecast based on the item forecast or the product forecast.
Forecast Update Method	Select the method that you want to use to update the forecast. Values include Complete: Select to update the complete forecast set. Replace: Select to replace only those forecast items or products records that have been updated.

Configuring Oracle Demantra

This chapter discusses configuration steps that must be completed before using Oracle Demantra with this integration. The steps include:

1. Set up database directories
2. Run concurrent programs
3. Update profiles
4. Add additional Demantra levels (optional)

This chapter covers the following topics:

- Setting Up Database Directories
- Running Concurrent Programs for EBS to Demantra Integration
- Updating Profiles
- Updating the Demantra Data Model
- Oracle Demantra Hierarchies
- Adding Demantra Levels
- Custom Hook Functionality
- Custom Hooks Examples

Setting Up Database Directories

Important: The VCP schema and the Demantra schema must reside on the same database instance.

In this integration, Demantra workflows look for inbound flat-files and generate outbound flat-files on the Demantra database server. Run the following script in the

Demantra schema to indicate the location of these files on the database server:

```
begin
data_load.setupSystemObjects('V_PATH');
end;
/
exit
/
```

where V_PATH is the path where ODI files are stored.

Note: Alternatively you can execute the AIA-Create_Database_Directory with the appropriate parameters.

For inbound integration to Demantra, workflows pick up ODI transformed files from this location and loads them into Demantra.

For outbound integration from Demantra, workflows extract data from Demantra and place the output flat-files in this location.

Running this script creates three entries in the ALL_DIRECTORIES table in Oracle:

- DAT_DIR: The location of the flat-files: For example: DAT_DIR = C:/E1 Files.
- LOG_DIR: The location of the log files. For example: LOG_DIR = C:/E1 Files/log.
- BAD_DIR: The location of bad files. For example, BAD_DIR = C:/E1 Files/bad.

Note: You must manually create the LOG_DIR and BAD_DIR directories and provide read and write access to the LOG_DIR, BAD_DIR, and DAT_DIR directories.

In a shared directory configuration, the DAT_DIR directory must be shared with the DemInputDir and DemOutputDir directories.

In a non-shared directory configuration, the DAT_DIR directory is basically the DemTargetDir (ODI Variable: PVV_DEM_TARGET_DIR) and DemSourceDir (ODI Variable: PVV_DEM_SOURCE_DIR).

Running Concurrent Programs for EBS to Demantra Integration

This section discusses running concurrent programs to initialize the EBS to Demantra integration. The first time you run the VCP-Demantra collections, perform the following steps:

1. Run concurrent programs to initialize the EBS-Demantra integration by navigating to Demand Management System Administrator Responsibility, Other, Requests, Submit a New Request, Single Request.

2. Run the Update Synonyms concurrent request.
3. Run the Configure Legacy Profiles concurrent request.
4. Specify the instance code, master organization and the category set name.
5. Run the concurrent request Cleanup Entities in Use concurrent request.

It is not recommended to have multiple Demantra schemas on the same database instance.

The Master organization is a branch that contains all items and their category codes, and is used by planning or forecasting in every branch of a model.

Additional Information: For additional information, see Designating a Master Branch.

Updating Profiles

To update profiles:

1. Navigate to System Administrator Responsibility, Profile, and System.
2. Set the MSD_DEM: Host URL profile option to the correct Demantra Application Server url.
3. Because CTO is not supported, the MSD_DEM: Include Dependent Demand profile option should be set to No.
4. Set the MSC: E1 Concatenation Character profile option to the correct delimiter character in the generated flat files.

The default value is +.

Updating the Demantra Data Model

If you are using Demantra Predictive Trade Planning or Demantra Deductions and Settlement Designer, then you must modify the data mapping for the Retailer level.

To update the Demantra data model:

1. Open Demantra Business Modeler.
2. Navigate to Data Model, Open Data Model.
3. Select the data model DM/S&OP

4. Click OK.
5. Click Next until you get to the Data Model Design form.
6. Click Site level and select the lr2a level.
7. Click lr2a_desc.
8. Change the field name from t_ep_lr2a to t_ep_lr2a_desc.
9. Click Next.
10. Click Build Model.

Important: : Do not click Build New Model.

11. Click Upgrade Existing Model.
12. Click OK.

Oracle Demantra Hierarchies

This integration uses the EBS legacy collections framework to load sales history information into Oracle Demantra. The level hierarchies supported in this integration are a sub-set of the level hierarchies supported by the integration between an EBS ERP source and Demantra.

In the Item hierarchy, the following levels are supported for this integration:

- Item > Product Category > All
- Item > Product Family > All
- Demand Class > All

In the Location hierarchy, the following levels are supported for this integration:

- Site > Account > Customer > Customer Class
- Organization > Operating Unit
- Sales Channel > All
- Organization > Legal Entity

Note: Use the parameters.txt file to configure the data field that is mapped to the levels Product Category, Demand Class, Operating Unit and Sales Channel levels.

Additional Information: For additional information, see Appendix A: Parameters Table.

Adding Demantra Levels

VCP Base Pack Integration loads data into pre-seeded Demantra levels. ERP category codes are mapped to pre-seeded levels defined in the Parameters tab in the Manage Integrations Parameters UI.

Additional Information: For more information, see Creating User-Maintained Data

Depending on your business needs, you might want to load additional category codes into additional levels in Demantra.

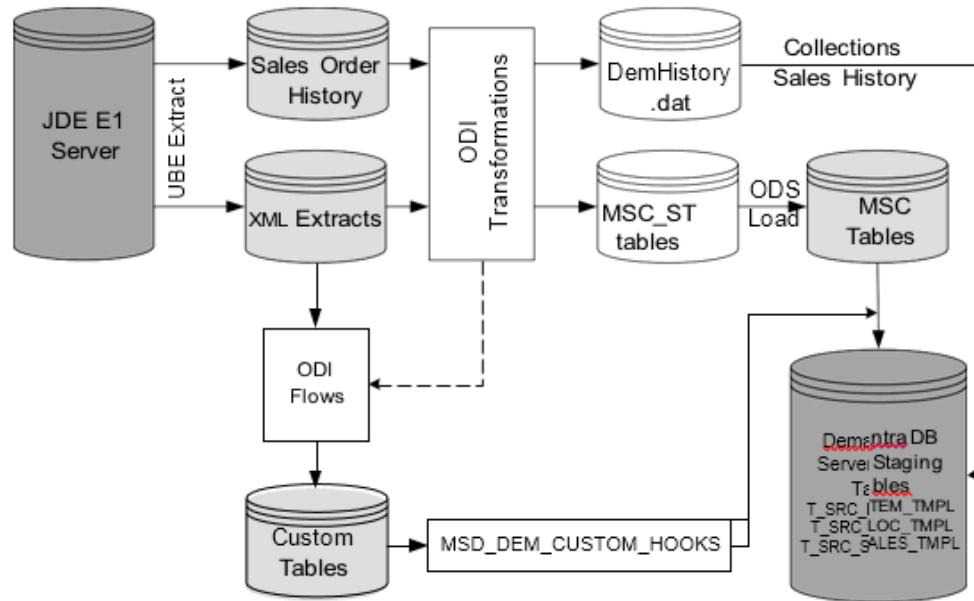
To load data into additional Demantra levels:

1. Configure the ERP system to extract the additional category codes into Customer.xml and Base.xml.
2. Extend ODI to load the additional category codes from the Customer.xml and Base.xml files into the custom tables.

Note: Extending ODI might require a design-time license for ODI. As an alternate approach, you can parse the XML files and populate custom tables using PL/SQL procedures. These custom procedures can be invoked from the post-process custom hook procedure (COL_PLAN_DATA_POST_PROCESS) called after Collect Planning Data.

3. Use Demantra's custom hooks functionality to load the additional category codes from the custom tables into Demantra.

The following diagram is an example of how can be used to load additional category code data into Demantra.



- Extensions to standard ODI mappings load additional category codes to custom tables in the ODI flow.
- MSD_DEM_CUSTOM_HOOKS maps additional category codes to Demantra staging table columns.

Configuring JDE E1 to Extract Additional Category Codes:

You can configure JDE E1 to extract additional category codes into Customer.xml and Base.xml. Integration Constants (P34A10) can be used to select category codes for JD Edwards EnterpriseOne extraction.

1. Navigate to Form > Group Sets.
2. Select the Item Category codes, Customer Category codes and Branch Category codes.

The selected category codes are extracted into Base.xml for items and branches or into Customer.xml for Customers.

Configuring PeopleSoft to Extract Additional Category Codes:

Item group mappings and customer group mappings can be used to extract Item and Customer categories.

Additional Information: For additional information, see Item Group Mappings or Customer Group Mappings.

Extending ODI to Load Additional Category Codes:

This integration populates standard ODI scenarios with specific category codes from JD Edwards EnterpriseOne into VCP ODS and then into Demantra. However, you can extend ODI to load additional category codes from Customer.xml into custom tables and Base.xml.

To do this, ODI must be customized by defining a custom ODI scenario and invoking it in the POSTPROCESSHOOKPKG ODI package of the Collect Planning Data program.

1. Define a new interface object in ODI. This object uses the xml files from JD Edwards EnterpriseOne (Base.xml for item and branch and Customer.xml for customer) as the source data store and the custom table as the target data store.

You might need to define a separate interface with each of the custom tables as the target data store (one table for item category codes, one for branch category codes, and one for customer category codes).

2. Define a new ODI scenario and include the new interfaces in this custom scenario.

Invoke the custom ODI scenario in the POSTPROCESSHOOKPKG ODI package when the concurrent program Collect Planning Data is invoked.

Additional Information: For additional information, see Optional User-Defined Customizations.

Custom Hook Functionality

VCP Base Pack loads data into pre-seeded Demantra levels. You can use custom hooks to load data into from custom tables into additional Demantra levels. Custom hooks are invoked by the Collect Sales History concurrent program before the EBS Full Download workflow is launched. Data is then loaded from Demantra staging tables into Demantra base tables.

To use custom hook functionality to load data from custom tables into additional Demantra levels:

1. Add custom code to in the APPS.MSD_DEM_CUSTOM_HOOKS package.
2. Run the ITEM_HOOK, LOCATION_HOOK procedures.
 - Use the ITEM_HOOK procedure to load data for new item levels
 - Use the LOCATION_HOOK procedure to load data for new organization and customer levels

T_SRC_ITEM_TMPL Demantra Staging Table:

Data for additional levels in the item hierarchy can be stored in the T_SRC_ITEM_TMPL Demantra staging table.

T_SRC_ITEM_TMPL has several placeholder columns such as E1_ITEM_CATEGORY_1 to E_ITEM_CATEGORY_23. These columns can be used to load data for new item hierarchy levels.

In the shipped settings, seven columns are mapped to placeholder levels such as Item Category Code 1 and Item Category Code 2. If you need to use more than seven levels, update the data model to map the columns in T_SRC_ITEM_TMPL to new levels.

T_SRC_LOC_TMPL Demantra Staging Table:

Data for additional levels in the organization hierarchy can be stored in the T_SRC_LOC_TMPL Demantra staging table.

T_SRC_LOC_TMPL has several placeholder columns such as E1_BRANCH_CATEGORY_1 to E1_BRANCH_CATEGORY_30. These columns can be used to load data for new organization hierarchy levels.

In the shipped settings, five columns are mapped to placeholder levels such as Branch Category Code 1 and Branch Category Code 2. If you need to use more than five levels, update the data model to map the columns in T_SRC_LOC_TMPL to new levels.

The data for the additional levels in the organization hierarchy can be stored in the Demantra staging table T_SRC_LOC_TMPL. The data for the additional levels in the customer site hierarchy can be stored in T_SRC_LOC_TMPL.

Refreshing the Data Model:

Each time new levels are added, you must refresh the data model to ensure that the new levels have been assigned to the correct relevant Demantra component (for example; Demand Management).

1. Restart the Demantra application server.
2. Ensure that the new levels are visible in the aggregation level tab of the worksheet.

For legacy systems, there is no sales history hook for combination levels in T_SRC_SALES_TMPL. There is a HISTORY_HOOK procedure in MSD_DEM_CUSTOM_HOOKS, but it is not invoked during legacy sales history collection. If you need to update the T_SRC_SALES_TMPL table for combination levels, you can embed code in the ITEM_HOOK or LOCATION_HOOK procedures.

When you add columns to custom tables, it is suggested that you name the key columns similar to the following:

- DM_ITEM_CODE

- DM_SITE_CODE
- DM_ORG_CODE

Custom Hooks Examples

CustomTable = ITEM_HIERARCHY

This example describes how to add five additional levels to the item hierarchy. To load data into these additional levels, create a custom table in the Demantra schema, similar to the table below. Category codes for each item should be populated using dm_item_code as the key from the JD Edwards EnterpriseOne .xml extracts. Ensure that there are no duplicate records.

Column	Description
DM_ITEM_CODE	Item name
ITEM_CATEGORY_CODE1	New item hierarchy level 1
ITEM_CATEGORY_CODE2	New item hierarchy level 2
ITEM_CATEGORY_CODE3	New item hierarchy level 3
ITEM_CATEGORY_CODE4	New item hierarchy level 4
ITEM_CATEGORY_CODE5	New item hierarchy level 5

Custom Table = ORGANIZATION_HIERARCHY

This example describes how to add five additional levels to the organization hierarchy. To load data into these additional levels, create a custom table in the Demantra schema, similar to the table below. Category codes for each branch should be populated using dm_org_code as the key from the JD Edwards EnterpriseOne .xml extracts. Ensure that there are no duplicate records.

Column	Description
DM_ORG_CODE	Organization name

Column	Description
BRANCH_CATEGORY_CODE1	New org hierarchy level 1
BRANCH_CATEGORY_CODE2	New org hierarchy level 2
BRANCH_CATEGORY_CODE3	New org hierarchy level 3
BRANCH_CATEGORY_CODE4	New org hierarchy level 4
BRANCH_CATEGORY_CODE5	New org hierarchy level 5

CustomTable = SITE_HIERARCHY

This example describes how to add five additional levels to the customer site hierarchy. To load data into these additional levels, create a custom table in the Demantra schema, similar to the table below. Category codes for each customer site should be populated using dm_site_code as the key from the JD Edwards EnterpriseOne .xml extracts. Ensure that there are no duplicate records.

Column	Description
DM_SITE_CODE	Organization name
CUSTOMER_CATEGORY_CODE1	New site hierarchy level 1
CUSTOMER_CATEGORY_CODE2	New site hierarchy level 2
CUSTOMER_CATEGORY_CODE3	New site hierarchy level 3
CUSTOMER_CATEGORY_CODE4	New site hierarchy level 4
CUSTOMER_CATEGORY_CODE5	New site hierarchy level 5

Item Hook Procedure Pseudocode

Populate the branch and customer site category codes from the custom tables into the new organization and site hierarchy level columns in the T_SRC_LOC_TMPL table as follows:

For branch category codes:

```
Set T_SRC_LOC_TMPL. E1_BRANCH_CATEGORY_1 = ORGANIZATION_HIERARCHY.  
BRANCH_CATEGORY_CODE1
```

where

```
T_SRC_ITEM_TMPL.DM_ORG_CODE = ORGANIZATION_HIERARCHY.DM_ORG_CODE
```

```
Set T_SRC_LOC_TMPL. E1_BRANCH_CATEGORY_2 = ORGANIZATION_HIERARCHY.  
BRANCH_CATEGORY_CODE2
```

where

```
T_SRC_ITEM_TMPL.DM_ORG_CODE = ORGANIZATION_HIERARCHY.DM_ORG_CODE
```

and so on, for each of the five new organization hierarchy levels.

For customer site category codes:

```
Set T_SRC_LOC_TMPL. E1_CUSTOMER_CATEGORY_1 = SITE_HIERARCHY.  
CUSTOMER_CATEGORY_CODE1
```

where

```
T_SRC_ITEM_TMPL.DM_SITE_CODE = ORGANIZATION_HIERARCHY.DM_SITE_CODE
```

```
Set T_SRC_LOC_TMPL. E1_CUSTOMER_CATEGORY_2 = SITE_HIERARCHY.  
CUSTOMER_CATEGORY_CODE2
```

where

```
T_SRC_ITEM_TMPL.DM_SITE_CODE = ORGANIZATION_HIERARCHY.DM_SITE_CODE
```

After adding custom code, recompile and verify the package to check for warnings or errors.

Run the Collect Sales History concurrent program. You have the following options:

- Auto Download = No. This option populates the new level data into the staging tables of Demantra.
- .Auto Download = Yes. This option populates the new level data into the staging tables and moves the data to the Demantra base tables.

Configuring VCP

To facilitate the integration, certain one-time setup steps and configurations must be performed to the Oracle EBS planning server.

Additional Information: For additional information, see the Oracle Value Chain Planning Implementation Guide.

This chapter covers the following topics:

- Setting Up the Oracle EBS Planning Server
- Profile Parameters

Setting Up the Oracle EBS Planning Server

To set up the Oracle EBS planning server for this integration:

1. Log in with the Advanced Planning Administrator responsibility.
2. Create the Oracle VCP Partition by completing the following steps:
 1. Run the concurrent process Create VCP Partitions.
 2. Set the plan partition count to 0.
 3. Set the instance count to 1.
3. Create the Oracle VCP Planning instance by completing the following steps:
 1. Navigate to Admin, Instances.
 2. Set the instance type to Others.
 3. Ensure that the Enable ATP option is not selected.

Note: Planners must be set up in Oracle EBS and given the appropriate permissions.

4. Set the following integration profile parameters:

Parameter	Default Value
MSC: E1 Concatenation Character	+

5. In the Parameters.txt file, set the Source_Instance parameter to the Oracle VCP Planning instance you created.

Additional Information: For additional information, see User-Maintained Data.

6. Navigate to Application Developer, Flexfield, Descriptive, Segments.
7. Enable the descriptive flex field to have the collection name.
8. In the Application field, enter Advanced Supply Chain Planning and in the Title field, enter MSC_APPS_INSTANCES.
9. Click Segments.
10. In the Segments form, make the following entries:

Number	Name	Column
1	Collection Name	ATTRIBUTE15
11	Data Path	ATTRIBUTE13
12	Control File Path	ATTRIBUTE12

11. Click Save.
12. Navigate to Admin, Instances.
13. In the Instances form, complete the following fields:

Field	Description
Collection Name	The name of the ERP instance.
Data Path	<p>The directory on the server that hosts the VCP application server, where the VCP concurrent program locates the DemHistory.dat file.</p> <ul style="list-style-type: none"> • In a shared directory configuration, this directory corresponds to APSInputDir. • In a non-shared directory configuration, this directory corresponds to APSInputDir. <p>Important: Ensure that files can be copied to this directory.</p>
Control File Path	The directory on the server that hosts the VCP application server. This directory contains the T_SRC_SALES_TMPL.ctf control file that loads DemHistory.dat. This is typically in APPL_TOP for msc in the sub- directory msc/12.0.0/patch/115/import.

14. Navigate to Advanced Supply Chain Planner, Collections, JD Edwards EnterpriseOne or PeopleSoft, Collect Planning Data.
15. Run the Collections program.
16. To view data in the Collections Workbench, select the category set collected from the ERP system.
17. Click Save.
18. To retain released data, set the value of the MSC: Retain Released Data to Yes.

Profile Parameters

The following profile parameters are used by the JDE E1 integration:

Profile Parameter	Description	Default Value	Data Type
MSC: E1 APS FC URL	URL for the web service used to Launch ODI scenarios from collections program		String
MSC: E1 APS ODI URL	URL for the web service used to Launch ODI scenarios from collections program		String
MSC: E1 Concatenation Character	Delimiter character in the generated flat files from JDE	+	Character
MSC: E1APS_BATCH_SIZE	Transaction batch size used in Legacy Collections	1000	Integer
MSC: E1APS_DEM_END_DATE_I N_MONTHS	End date offset in months from the current date used for Demantra Price List collections		Integer
MSC: E1APS_DEM_START_DATE _IN_MONTHS	Start date offset in months from the current date used for Demantra Price List collections		Integer
MSC: E1APS_DEM_WF_TI ME_OU T	Timeout value for Demantra Workflow in seconds		Integer
MSC: E1APS_NO_OF_WO RKERS	Number of workers for Legacy Collections concurrent program	3	Integer

Profile Parameter	Description	Default Value	Data Type
MSC: E1APS_TIME_OUT	Timeout value in minutes for Legacy collections pre-processor and ODS Load programs	180	Integer
MSC: E1APS_WS_TIME_OUT	Timeout value in seconds for ODI web service		Integer
MSC: E1_DBLINK	Database link to ODI Work repository from the apps schema		String

Adding Installation Steps for ODI 12.2.1

This chapter covers the following topics:

- Certified Components
- Installing the Middle Tier Components
- Setting Up the JDE Shared Folders
- Creating Database Schema's
- Setting Up Property Files
- Creating and Importing ODI Repositories
- Testing ODI Topology Connections
- Setting up the ODI Domain/Agent
- Updating ODI Variables
- Deploying the VCP Web Service
- Configuring the VCP Web Service
- Testing the VCP Web Service
- Updating VCP Profiles
- Setting Up the VCP Timeout Value in ODI

Certified Components

Component	Release
Weblogic	WebLogic Server 12.2.1.0.0
SOA	Oracle SOA Server version 12.2.1.0.0

Component	Release
Oracle Database	12.1.0
Oracle Data Integrator	12.2.1.0.0
Value Chain Planning	12.2.6
Demantra	12.2.6
JD Edwards	9.2

Installing the Middle Tier Components

For installing the following components, use the following links for complete instructions.

Weblogic 12.2.1:

<http://www.oracle.com/technetwork/middleware/weblogic/documentation/index.html>

SOA 12.2.1:

<http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html>

Oracle Database 12.1.0:

<http://www.oracle.com/technetwork/database/enterprise-edition/documentation/index.html>

Oracle Data Integrator 12.2.1.0.0:

<http://www.oracle.com/technetwork/middleware/data-integrator/documentation/index.html>

Oracle Data Integrator EE Agent:

<http://www.oracle.com/technetwork/middleware/data-integrator/documentation/index.html>

Setting Up the JDE Shared Folders

The VCP Base Pack integration uses multiple applications, so files are often generated in one application and imported into another application. Files are written to different directories according to application. Each application has an input directory and an output directory. Input files are placed in the input directory according to application. Generated or extract files are placed in the output directory.

For example, files generated by the ERP system extracts are written to the JDE E1 Output directory and files which are loaded into the ERP system and stored in the JDE E1 Input directory.

Note: The section contains references to JDE E1, and E1. These directories apply to both JDE E1 and PeopleSoft users.

JDE E1 Output Directory

Files extracted from the ERP system and user-defined integration data files are written to the JDE E1 Output directory. ODI takes files from this directory, transforms them to the correct format if necessary, and loads the data into staging tables. In a shared directory environment, the ODI server and the ERP server must be able to access this directory.

The files written to the JDE E1 Output directory include:

File Name	Target Application	Source
Parameters.txt	VCP staging tables	User-defined
TranslationTable.txt	VCP staging tables	User-defined
ShiftInformation.txt	VCP staging tables	User-defined
ShiftInformationDetails.txt	VCP staging tables	User-defined
ResourceGroups.txt	VCP staging tables	User-defined
ResourceGroupDetails.txt	VCP staging tables	User-defined
ForecastDesignators.txt	VCP staging tables	User-defined
SetupDefinitions.txt	VCP staging tables	User-defined
SetupTransitions.txt	VCP staging tables	User-defined
StandardOperationResources.txt	VCP staging tables	User-defined
StandardUOMConversions.txt	VCP staging tables	User-defined

File Name	Target Application	Source
Calendar.txt	VCP staging tables	ERP extract
Supplier.xml	VCP staging tables	ERP extract
Customer.xml	VCP staging tables	ERP extract
Base.xml	VCP staging tables	ERP extract
Manufacturing.xml	VCP staging tables	ERP extract
BeginningInventory.xml	VCP staging tables	ERP extract
Distribution.xml	VCP staging tables	ERP extract
PurchaseOrders.xml	VCP staging tables	ERP extract
WorkOrders.xml	VCP staging tables	ERP extract
SalesOrders.xml	VCP staging tables	ERP extract
TransferOrders.xml	VCP staging tables	ERP extract
TimeSeries.xml	VCP staging tables	ERP extract
SalesOrderHistory.txt	Demantra	ERP extract
ListPrice.txt	Demantra	ERP extract
ItemCost.txt	Demantra	ERP extract
PriceHistory.txt	Demantra	ERP extract
APConfirm.txt	Demantra	ERP extract
Deductions.txt	Demantra	ERP extract

The specific files used in this integration depend on the set of VCP applications you are using.

Note: Even if they are not used, all XML files in The following table (depending on the implemented VCP applications) must be present in the JDE E1 Output Directory.

All unused XML files must be created with the same names as in the above table and must contain the following content:

```
<?xml version="1.0" encoding="UTF-8"?><scbm-extract version='3.0'>
</scbm-extract>
```

As an example, for a customer implementing only Demantra Demand Management, the integration uses only Base.xml and Customers.xml from the list of XML files. However, the other XML files such as PurchaseOrders.xml and WorkOrders.xml need to be created in the JDE E1 Output Directory.

JDE E1 Input Directory

Files imported into the ERP system are written to the JDE E1 Input Directory. In a shared directory environment, the ODI and ERP servers must be able to access this directory.

The files written to the JDE E1 Input directory include:

File Name	Target Application	Extract Information
PurchasePlan.xml	JDE E1	VCP extract
DeploymentPlan.xml	JDE E1	VCP extract
DetailedProductionPlan.xml	JDE E1	VCP extract
forecast.txt	JDE E1/PeopleSoft	Demantra (transformed file)
PromotionPricing.txt	JDE E1	Demantra (transformed file)
Delete_PromoPricing.txt	JDE E1	A copied file of a Demantra extract
DeductionDispositions.txt	JDE E1	A copied file of a Demantra extract
Claim.txt	JDE E1	A copied file of a Demantra extract

APS Input Directory

DemHistory.dat is the only flat-file written to the APS Input directory. ODI takes SalesOrderHistory.txt files from the JDE E1 Output directory, transforms the file to the correct format, and creates the DemHistory.dat file. In a shared directory environment the ODI and VCP servers must be able to access this directory.

File Name	Target Application	Source
DemHistory.dat	Demantra	ERP transformed file

Demantra Input Directory

Input files for Demantra, PTP, and DSM are written to the Demantra Input directory. ODI reads files from the JDE E1 Output directory, transforms them if necessary, and writes them in this directory. In a shared directory environment the ODI server and the Demantra database server must be able to access this directory.

The files stored in this directory include:

File Name	Target Application	Description
ListPrice.txt	Demantra	JDE E1 transformed file
PriceHistory.txt	Demantra	JDE E1 transformed file
ItemCost.txt	Demantra	JDE E1 transformed file
APConfirm.txt	Demantra	A copied file of an JDE E1 extract
Deductions.txt	Demantra	A copied file of an JDE E1 extract

Demantra Output Directory

Outbound files from Demantra are written to the Demantra Output directory. ODI transforms the files if necessary and stores them in the JDE E1 Input directory before they are imported into JD Edwards EnterpriseOne. In a shared directory environment the ODI server and the Demantra database server must be able to access this directory.

The files stored in this directory include:

File Name	Target Application	Description
forecast.txt	ERP	Demantra transformed file
PromotionPricing.txt	JDE E1	Demantra transformed file
Delete_PromoPricing.txt	JDE E1	A copied file of a Demantra extract
DeductionDispositions.txt	JDE E1	A copied file of a Demantra extract
claim.txt	JDE E1	A copied file of a Demantra extract

Mappings Between Directories and ODI Variables

The following table summarizes the mappings between directories and their associated ODI variables:

Directory	ODI Variable
E1InputDir	PVV_E1_INPUT_DIR
E1OutputDir	PVV_E1_OUTPUT_DIR
APSInputDir	PVV_APS_INPUT_DIR
APSOuputDir	PVV_APS_OUTPUT_DIR
Demantra Input Directory	PVV_DEM_INPUT_DIR
Demantra Output Directory	PVV_DEM_OUTPUT_DIR

Steps to be Completed

Create the following directory structures on the ODI Host:

- E1InputDir
- E1OutputDir

- Copy the E1 Extract files mentioned under "JDE E1 Output directory" to this folder • APSInputDir
- APSInputDir
- APSOutputDir
- DemInputDir
- DemOutputDir
- LogDir

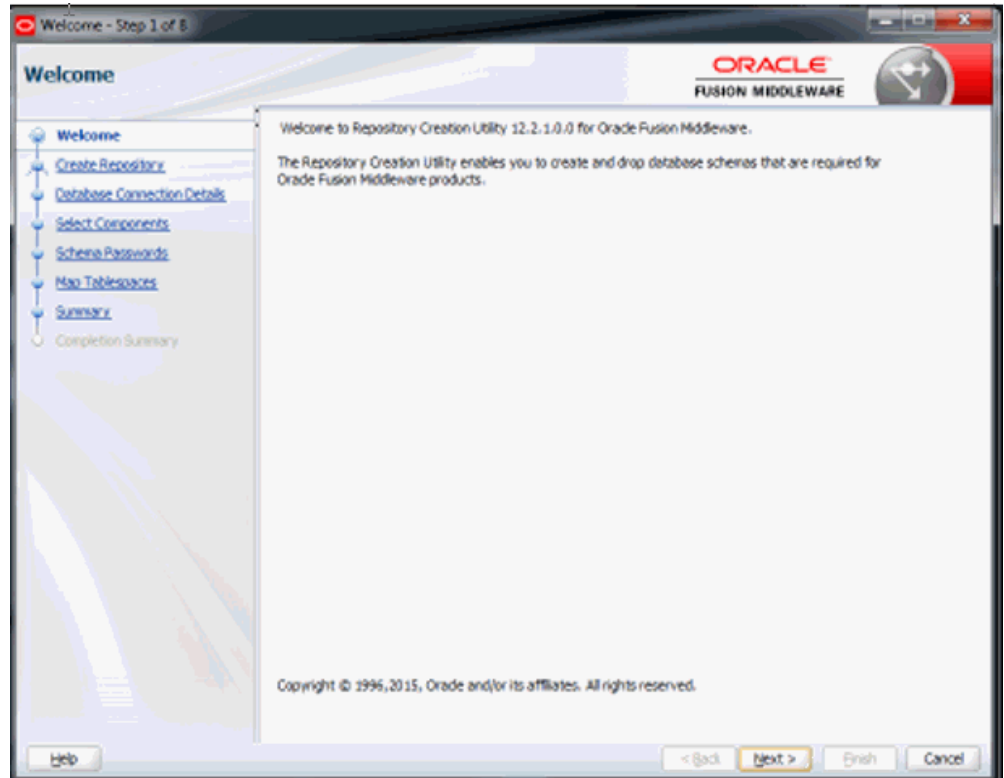
Creating Database Schema's

Master/Work Repository Schema: Creating Master and Work Repositories

1. Set the JAVA_HOME.
For Linux set the Java Home with the following command:

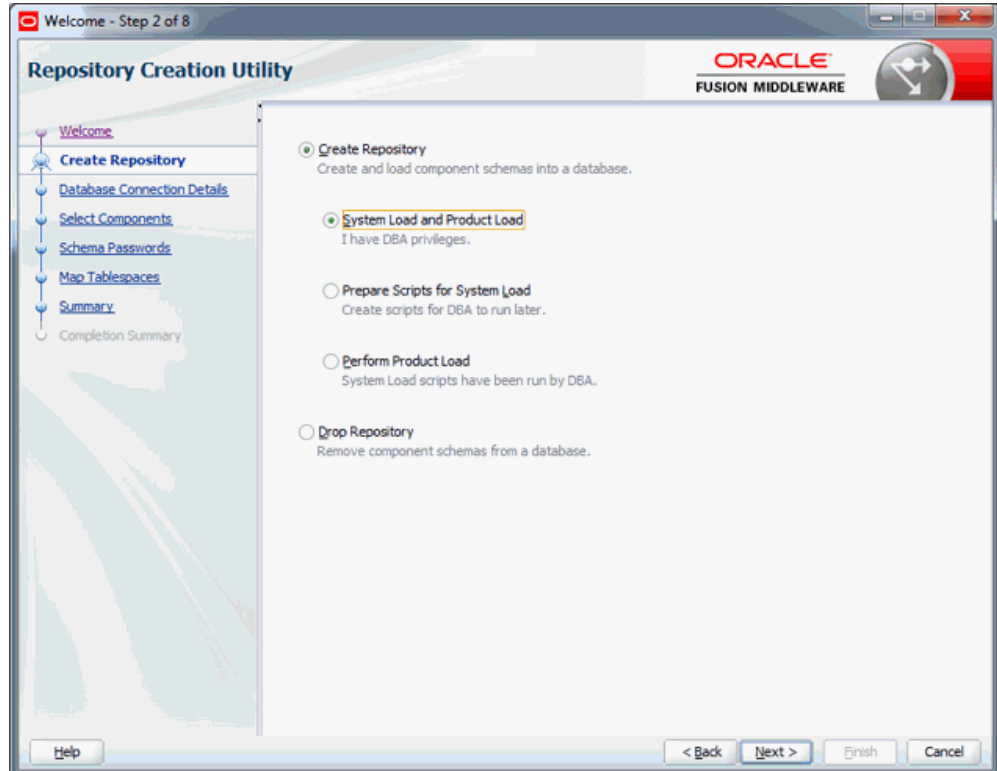
```
setenv JAVA_HOME /home/Oracle/Java/<jdkversion>
```


For Windows set up the Java Home under
MyComputer > Properties > Advanced System Settings
2. Navigate to ORACLE_HOME/oracle_common/bin folder to launch RCU.
For Windows: start rcu.bat
For Linux: start rcu.sh
3. Navigate through the RCU screens to create the Schemas.

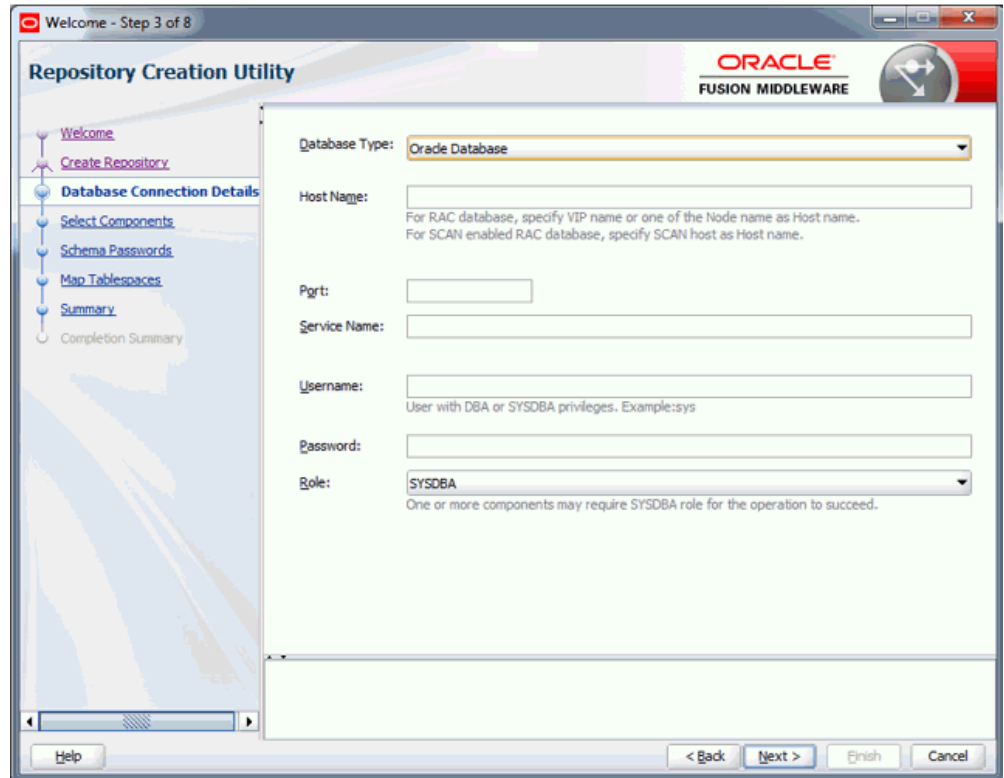


4. Select Next and then select 'Create Repository' and 'System Load and Product Load'.

Note: Ensure that you have DBA privileges to select this option.



5. Select Next to grant Database Connection Details for the following:



Hostname: <Database hostname>

Port: <Database Port number>

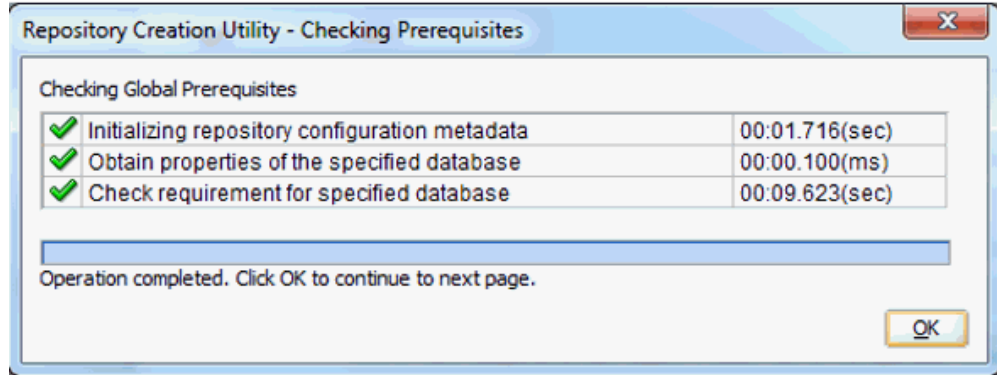
Service Name: <SID/ServiceName of the database>

Username: <System/SYSDBA User name>

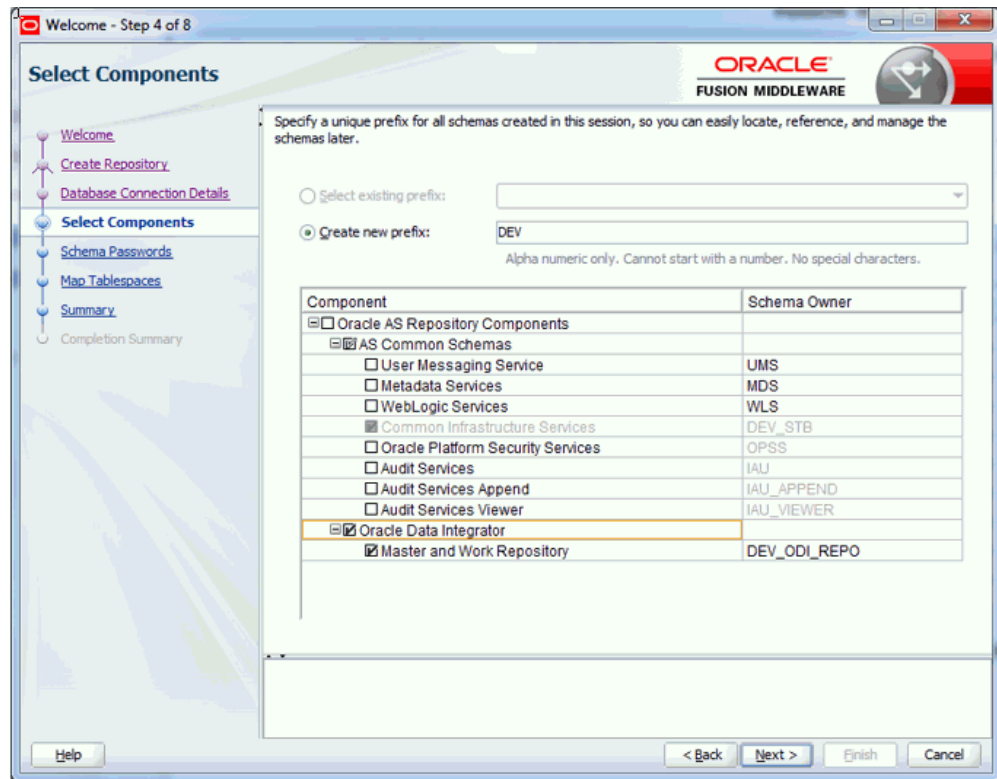
Password: <System/SYSDBA Password>

Role: Normal

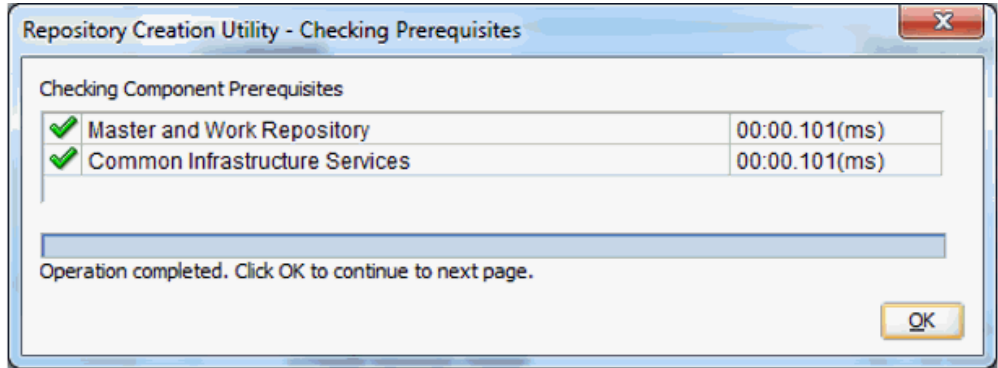
6. Click 'Next' for Prerequisites check.



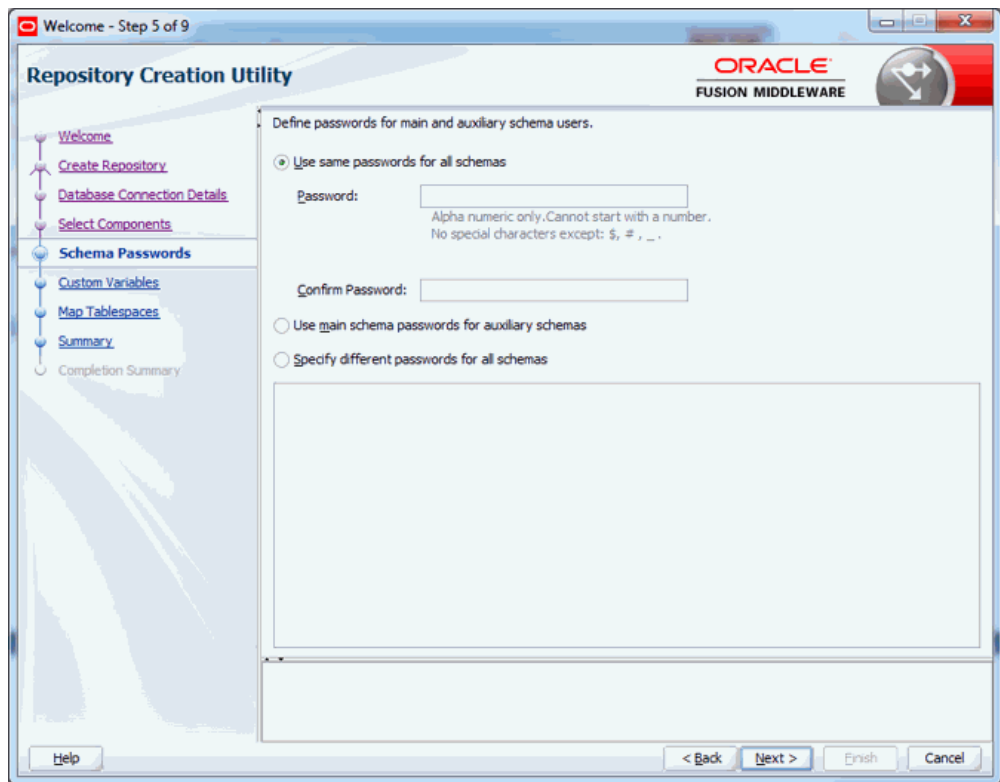
7. Select OK. In the next window, select Oracle Data Integrator and also select Master and Work Repository. You can change the Prefix or leave it as Default 'DEV'. Select Next.



8. Select OK after Prerequisites check completes.



9. Enter passwords for the schema users. Select 'Use same Passwords for all schemas' if you want to keep everything the same.



Note: If you want to use different passwords for repositories and other common services, then select 'Specify different passwords for all schemas'. Enter passwords in the following window:

10. Select Next to enter values for custom variables.

Supervisor Password: <Supervisor Password>

Confirm Supervisor Password: <Give the same password given above>

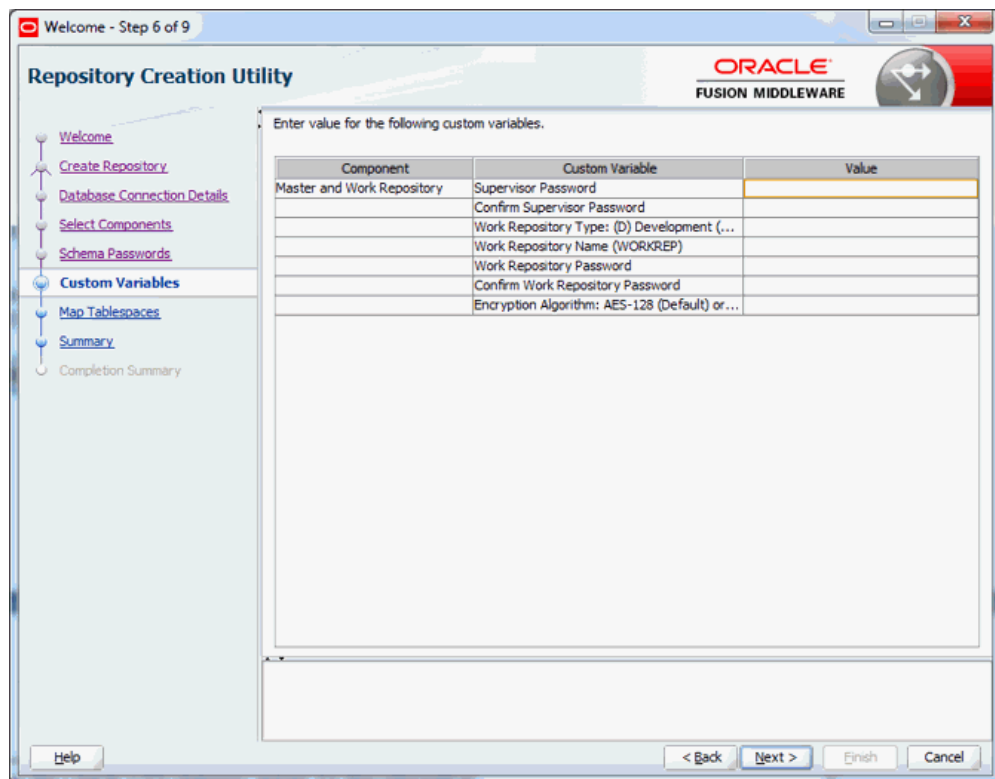
Work Repository Type: D

Work Repository Name: <Work repository name or use Default "WORKREP">

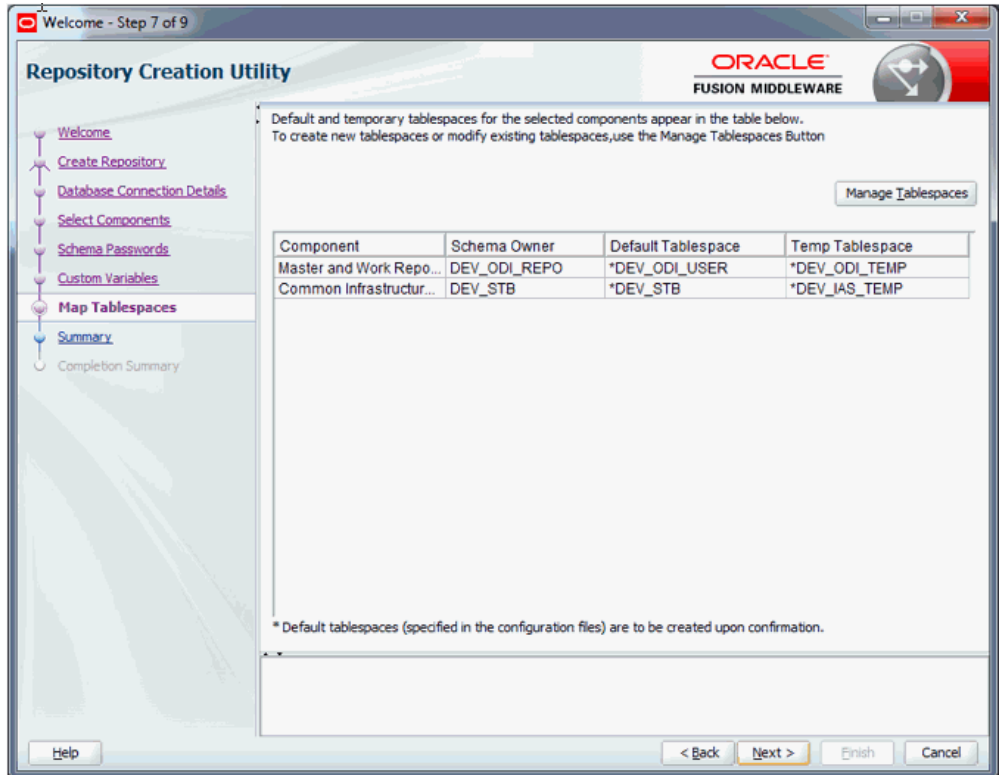
Work Repository Password: <Work Repository Password>

Confirm Work Repository Password: <Enter the same Work Repository Password given above>

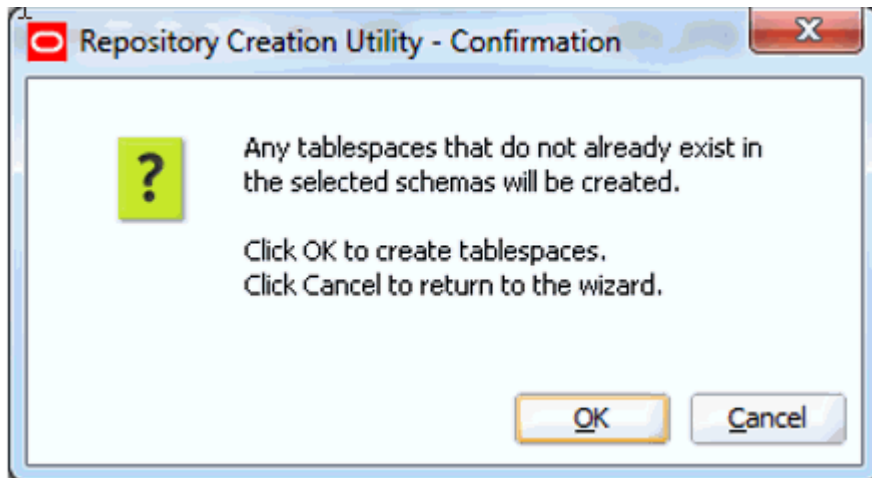
Encryption Algorithm: <Use Default>



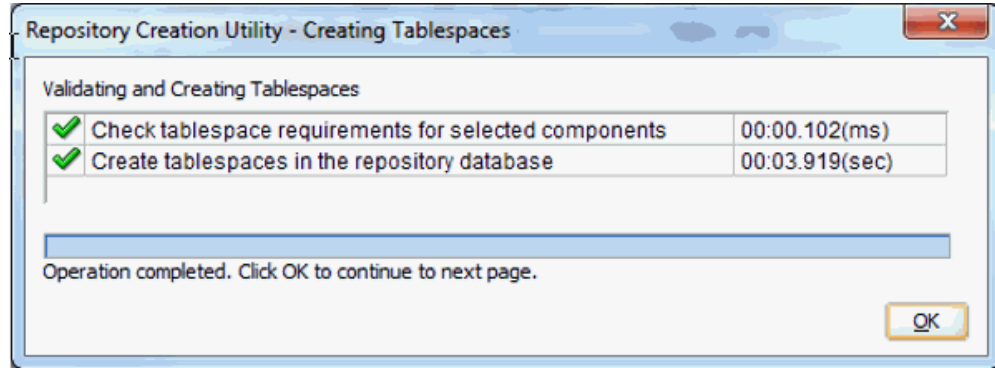
11. Select Next for the Default Tablespaces. Change the default table spaces by selecting 'Manage Tablespaces' or use the default tablespaces.



12. Select Next and confirm OK for the following message.



13. Select OK when the following window appears after tablespaces are created.



14. Select Create after reviewing the details in the Summary screen and wait for the complete summary screen for Status of the Repositories created. Select Close to exit RCU. Connect 12c Database as sysdba user and run the following command to check that the repository was created:

```
SQL > select * from dba_users
```

External Database Schema:

Create schema under ODI database to store xml files data in database tables. Use the following sql queries to create the schema/user:

```
SQL > CREATE USER <Username> IDENTIFIED BY <Password>;
GRANT RESOURCE, CONNECT, DBA TO <Username>;
GRANT CREATE SESSION TO <Username>;
```

Creating Database Links:

The following database links must be created for the Integration:

1. On ODI Server DB pointing to VCP Environment
 - Create Database link in ODI database with work repository details pointing to VCP Environment
 - Login to ODI server Database with work repository details
 - Create database pointing to VCP environment with help of below example query

Example:

```
create database link VCPENV connect to <username> identified by
<Password> using '(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)
(HOST=<Hostname>)(PORT=<Port>))(CONNECT_DATA=(SID=Port))
(CONNECT_DATA=(SID=VCP ENV)))';
```

2. On VCP Environment DB pointing to ODI Work Repository user

- Create Database link in VCP Environment database pointing to ODI Host User
- Login to VCP environment Database
- Create database link using VCP Host DB pointing to ODI Work Repository User

Example:

```
create database link ODIUSER connect to <ODI username> identified
by <Password> using '(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)
(HOST=<ODI Hostname>)(PORT=<Port>))(CONNECT_DATA=(SID=<SID ODI
MACHINE>)))';
```

Setting Up Property Files

- Base.properties
- Instance.properties
- msc_e1aps_odi-config.properties
- Encoding Passwords

Base.properties:

Create base.properties file under \$ODI_Home/Middleware/odi/studio/bin folder on the ODI Host Place the following contents in the file after modifying the details for and save.

- Url: Format "jdbc:oracle:thin:@<odi_db_host>:<odi_db_port>:<odi_db_sid>"
- User: Name of the user created for the external database schema above.
- Password: Encrypted Password of the external database schema.
- Schema: Schema name of the external Database created above.

Please configure the Oracle JDBC Type 4 Driver in the Classpath.

```
driver=oracle.jdbc.driver.OracleDriver
url=<URL>
user=<Username>
password=<Password>
schema=<Schema name>
drop_on_connect=Y
create_tables=AUTO
create_indexes=Y
truncate_before_load=Y
ids_in_db=Y
drop_tables_on_drop_schema=N
use_prepared_statements=Y
use_batch_update=Y
batch_update_size=20000
commit_periodically=Y
num_inserts_before_commit=20000
reserve_chars_for_column=3
reserve_chars_for_table=3
```

Copy the same base.properties file in \$ODI_HOME/agent/lib directory

Note: See the Encoding Passwords section for encoding the passwords.

Instance.properties :

Ensure that the instance.properties file is available at two paths:

- \$ODI_Home/Agent Directory
- /Middleware/user_projects/domains/ODI_Domain/config/fmwconfig/components/ODI/OracleDIAGENT Directory

Update the details in the instance.properties file at both locations for one parameter as follows:

```
ODI_SECU_WORK_REP=<Work Repository Name>
```

The following should be the contents of the file at both locations:

```
PROTOCOL=http
ODI_SECU_WORK_REP=<Work Repository Name>
JMXPORT=
JMXPROTOCOL=rmi
ODI_MASTER_TIMESTAMP=
ODI_KEYSTORE_ENCODED_PASS=
ODI_KEY_ENCODED_PASS=
ODI_TRUST_STORE_ENCODED_PASS=
ODI_CONNECTION_RETRY_COUNT=0
ODI_CONNECTION_RETRY_DELAY=7000
ProductHome=_product_home_on_target_domain_
DomainHome=_target_domain_home_
ODI_EXCLUDED_CIPHERS=
```

Note: Refer to the Encoding Passwords section for encoding passwords.

msc_e1aps_odi-config.properties:

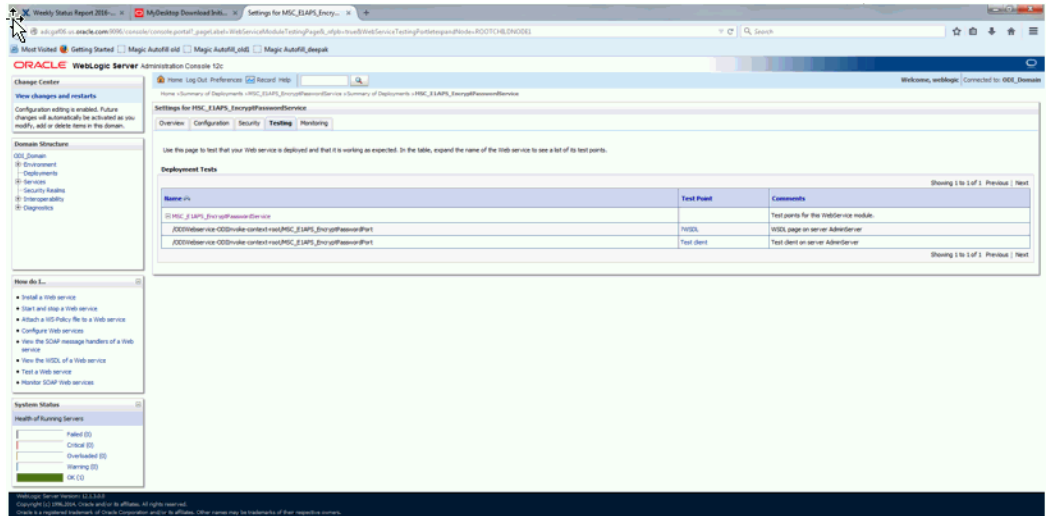
Create **msc_e1aps_odi-config.properties** file in \$ODI_HOME/agent/lib

```
ODIUSER=<Supervisor Username>
ODIPASSWORD=<Supervisor Password>
WORKREP=<Work Repository Name>
HOSTNAME=<ODI Host name>
PORT=Agent Port No>
JDBCDSNAME=odiMasterRepository
```

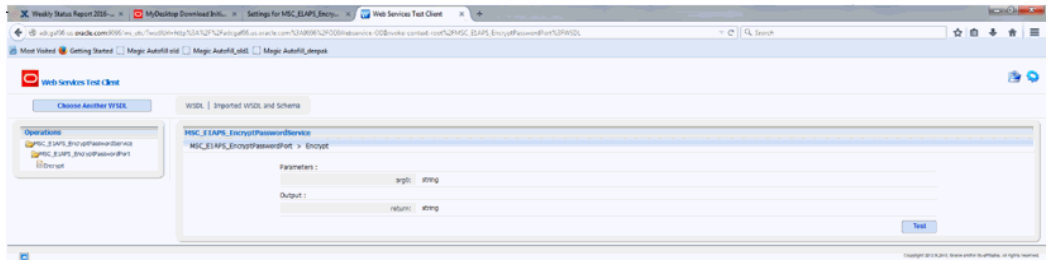
Note: Refer to the Encoding Passwords section for encoding passwords

Encoding Passwords:

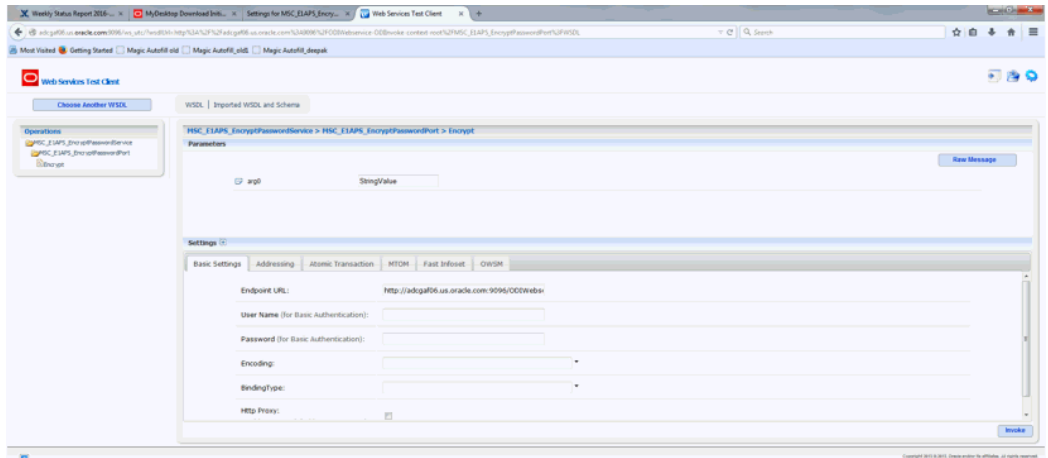
- For the **Base.Properties** file and the **Instance.properties** file, encode the passwords



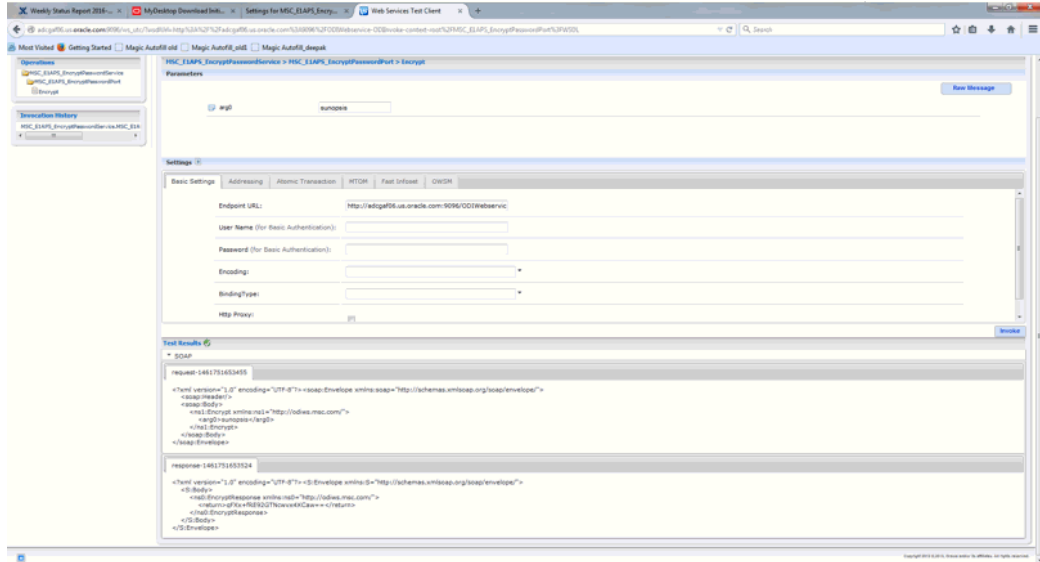
Select Test Client.



Select Test.



Enter the Password in place of StringValue and select Invoke.



The encrypted password will be available in the Response section as shown in the image.

Creating and Importing ODI Repositories

Downloading PIP Patch:

- Download JDEVCP Integration PIP patch # and ftp it to the Host where ODI is installed
- Unzip the PIP patch after download
- CD to the PIP Patch folder
- Install the PIP Patch files by following the instructions in the Readme.txt of the PIP Patch

Creating a Login for the Repository:

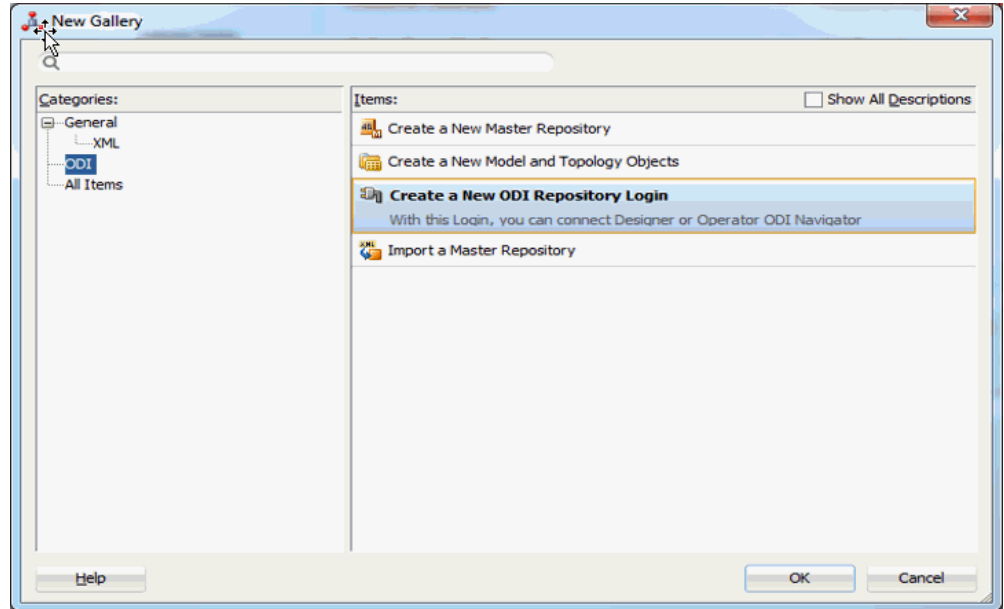
1. For the repository created with RCU, create a new login in ODI studio.

Navigate to <ODI_HOME>/studio folder

Run the following command to launch ODI Studio:

```
./odi.sh <for Linux>
odi.cmd <for windows>
```

2. Select File > New > Create a New ODI Repository Login



3. Enter Repository Connection Information provided during RCU Repository creation.

Oracle Data Integrator Connection

Login Name: <Login Name for the connection>

User: <Supervisor User name>

Password: <Supervisor Password>

Database Connection (Master Repository)

User: <Master Repository User name>

Password: <Master Repository Password>

Driver List: Oracle JDBC Driver

URL: jdbc:oracle:thin:@<host>:<port>/<ServiceName>

Work Repository

Select the Work Repository Radio button and select the Work Repository Name.

Repository Connection Information

Oracle Data Integrator Connection

Login Name:


User:

Password:


Database Connection (Master Repository)

User:

Password:


Driver List: 

Driver Name:

URL: 

Work Repository

Master Repository Only

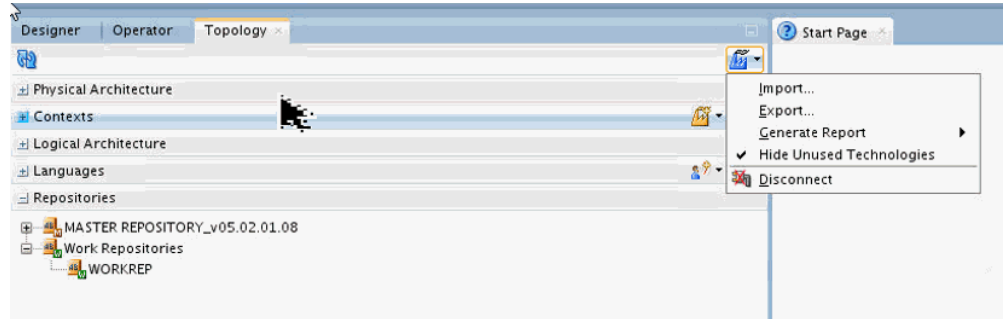
Work Repository 

Default Connection

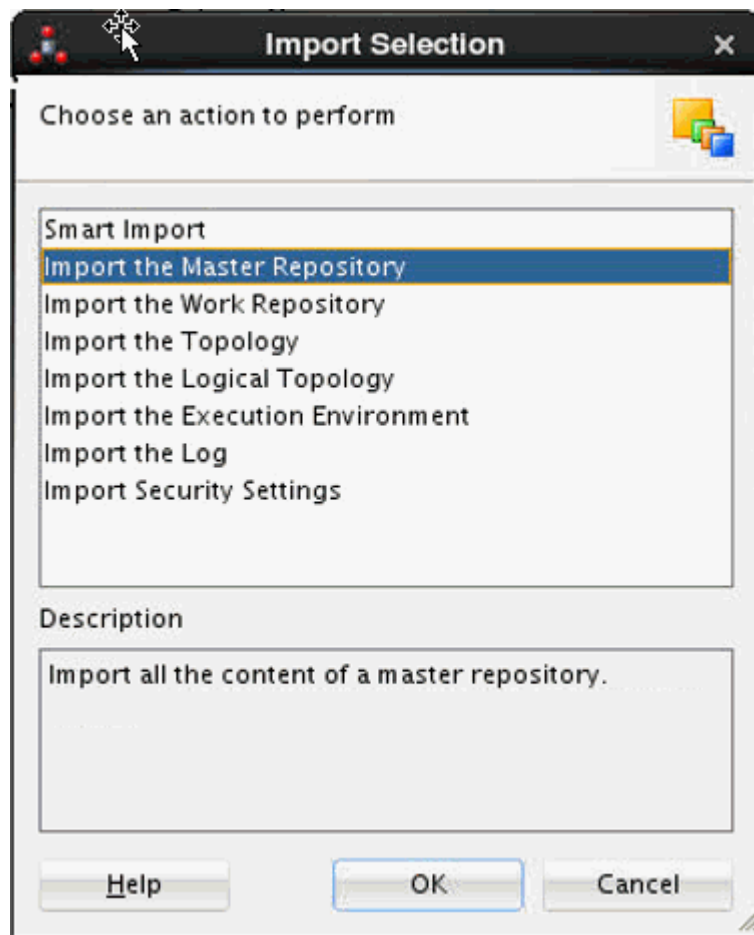
4. Test the connection and select OK to login to the ODI Studio.

Importing Master Repository Files:

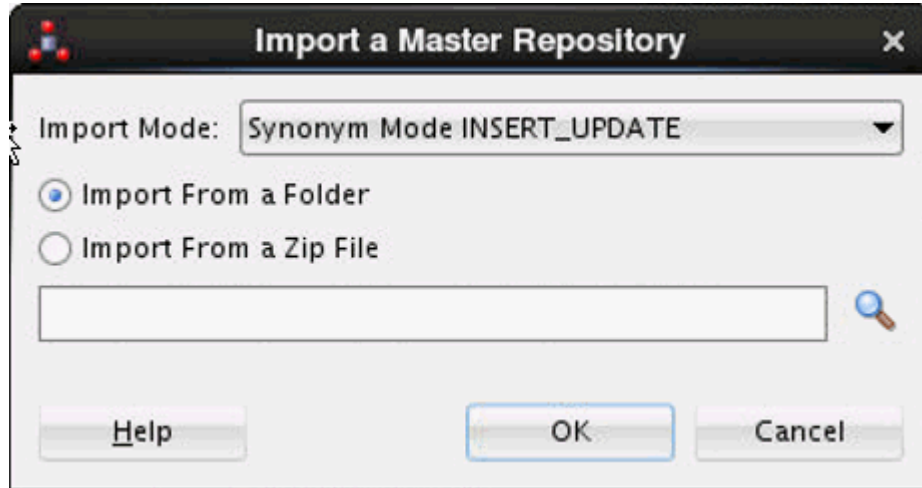
1. Open the ODI Studio and log in to the repository connection created above.
2. Go to the Topology Tab and select the Navigator and then Select Import.



3. Select Import the Master Repository.



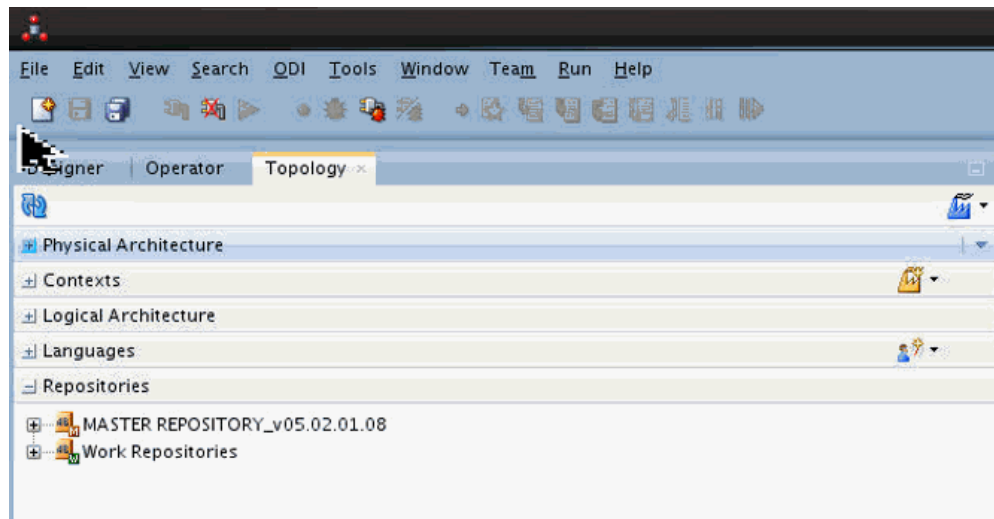
4. Select Import_Update as Import Mode and select the location of the Master Repository from the downloaded PIP Patch folder.



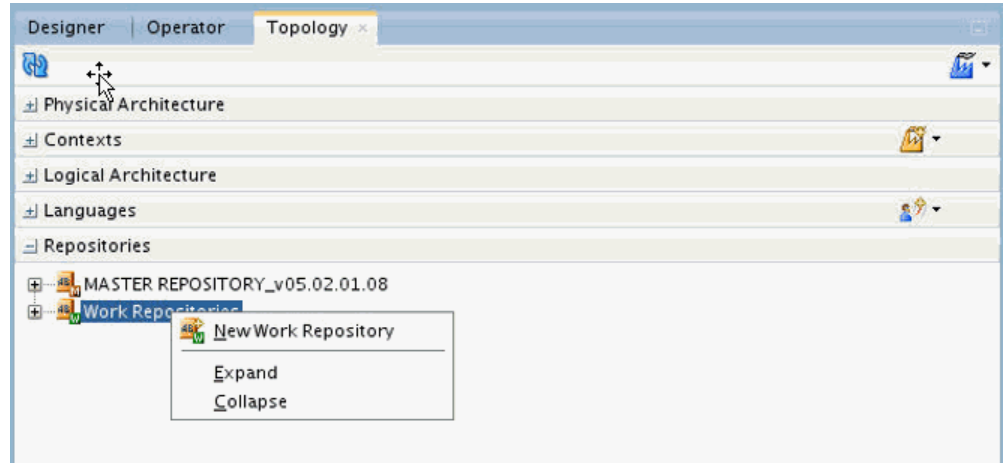
5. Select OK to start the import. Ensure all files are imported and then close the summary window.

Importing Work Repository Files:

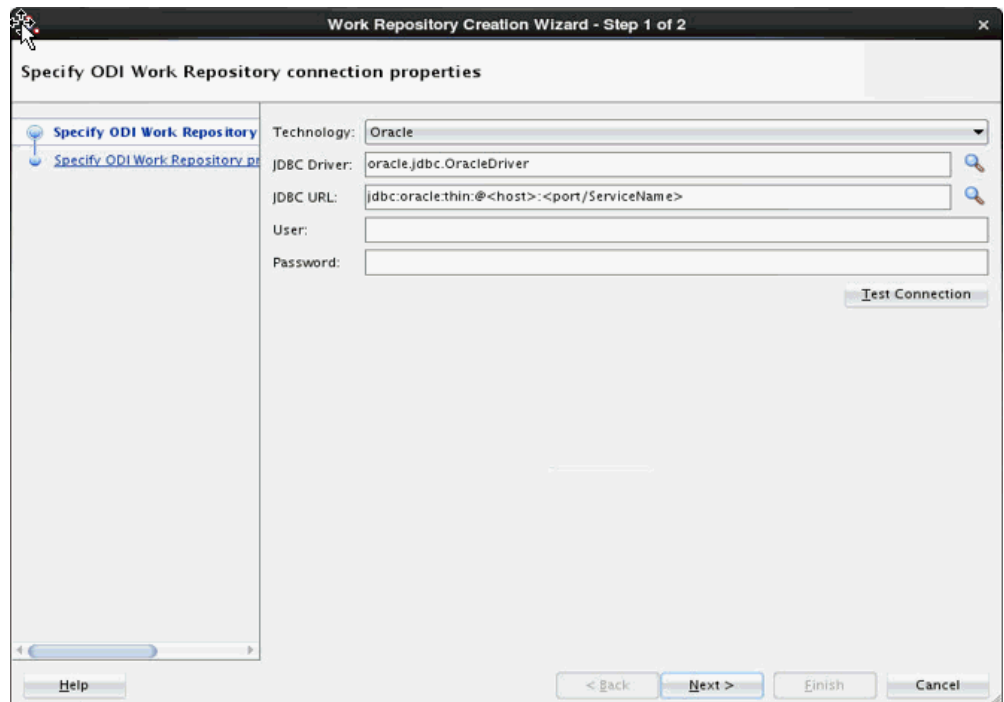
1. Expand the Repositories tab in the Topology page.



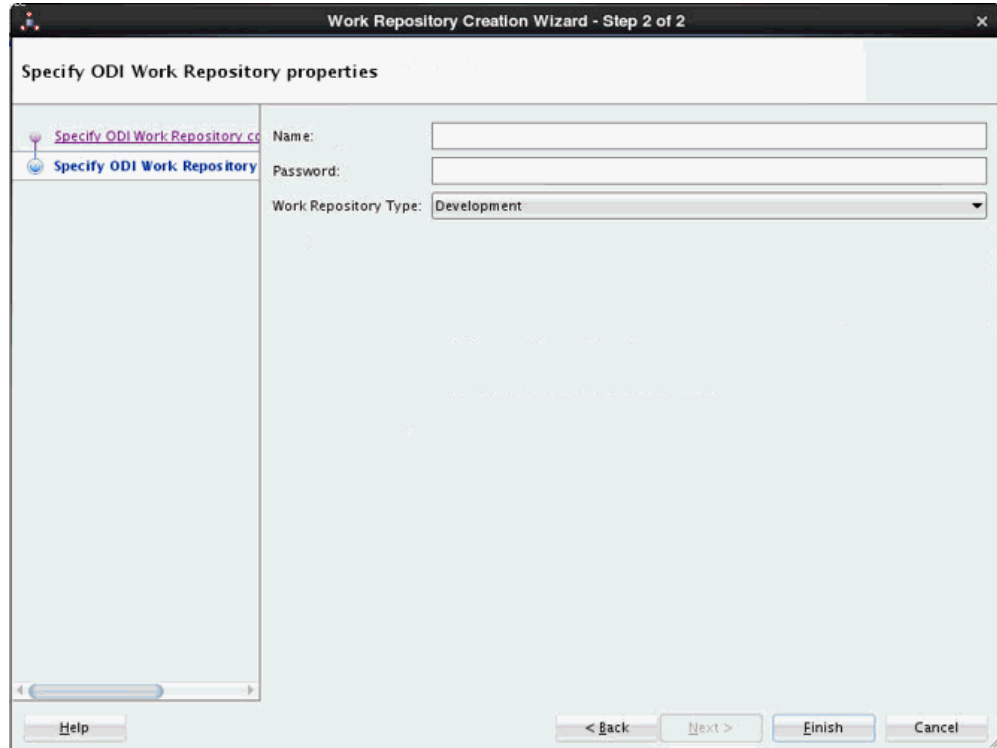
2. Right click on Work Repositories and select New Work Repository.



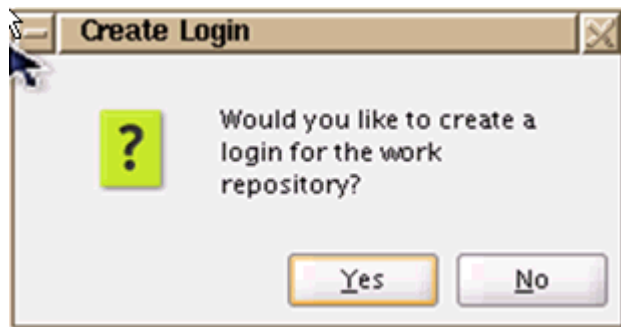
3. Specify Repository details and test the connection for success. Select Next.



4. Specify the Work Repository Name and Password if it is different from the default and select Finish to start the repository creation.



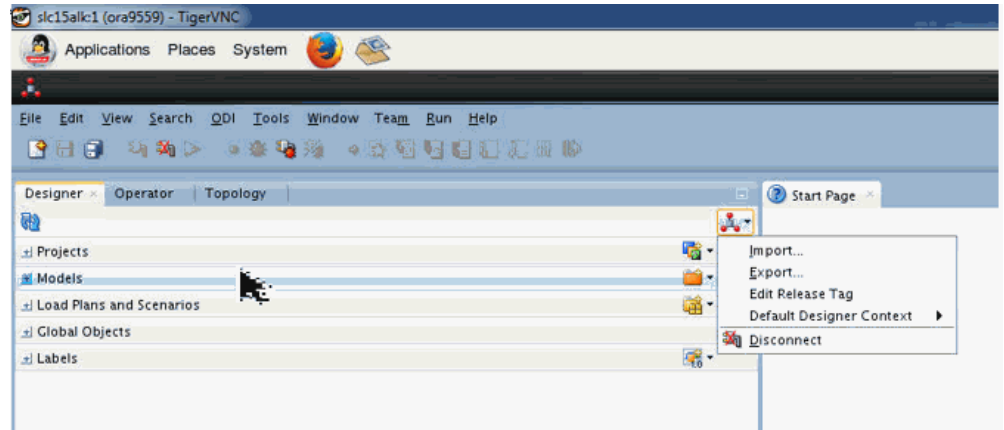
5. Select No when prompted for New login creation.



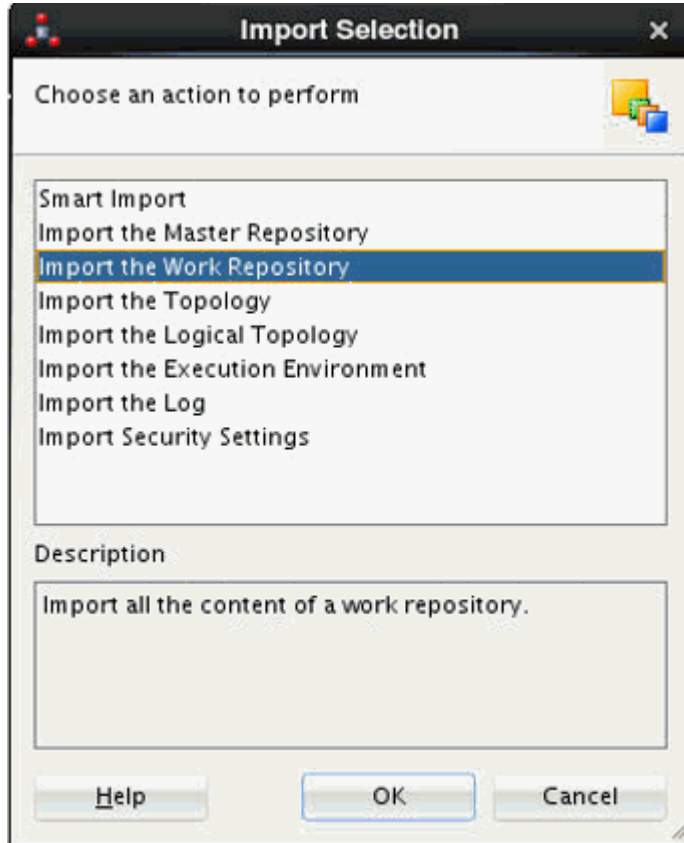
6. Expand the Work Repository to find the Repository attached.



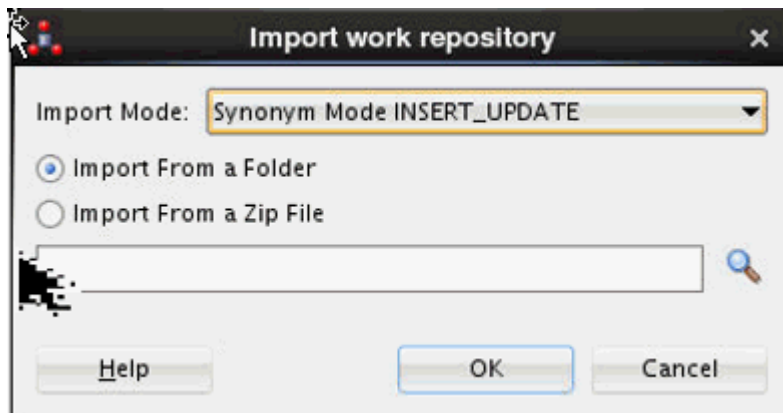
7. Select the Designer tab to Import the Work Repository files.



8. Select Import and then select Import the Work Repository.



9. Select Insert_update Mode and specify the path of the Work Repository folder in the downloaded PIP Patch location.



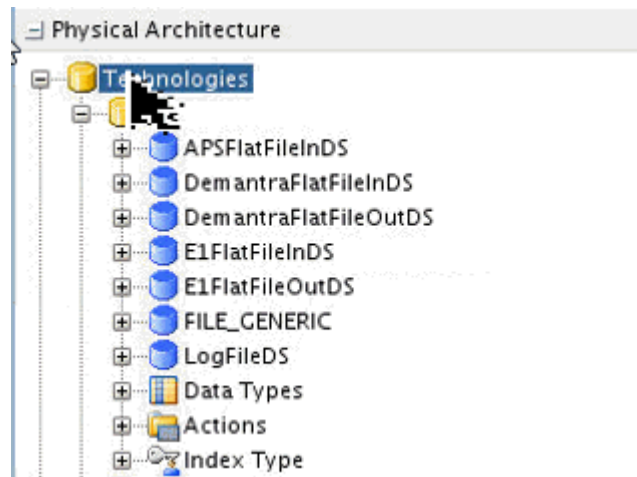
10. Select OK to start the import. Ensure all files are imported and then close the summary window.

Testing ODI Topology Connections

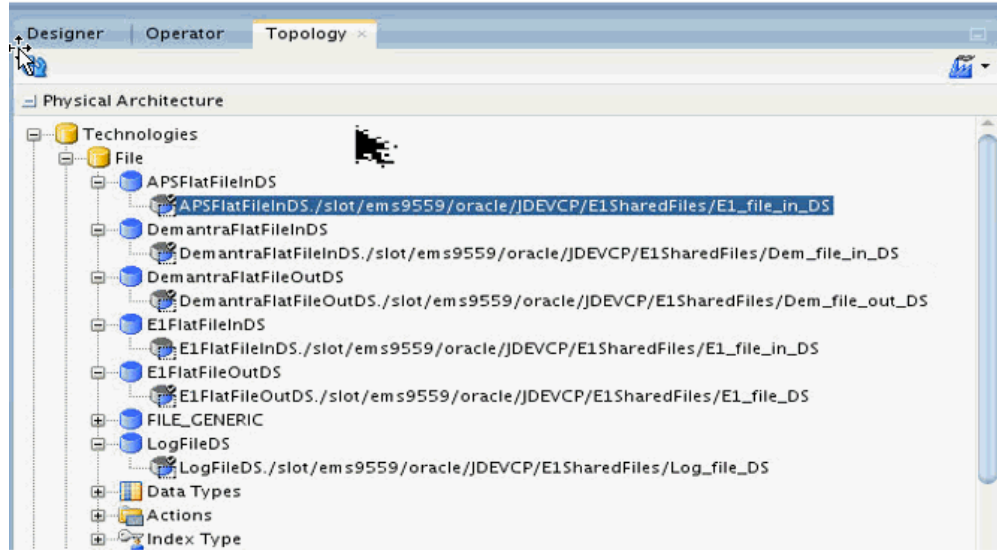
Select the Topology Tab to test the following connections. Expand Physical Architecture.

Testing Shared Folder Connections:

1. Expand the Technologies > File.

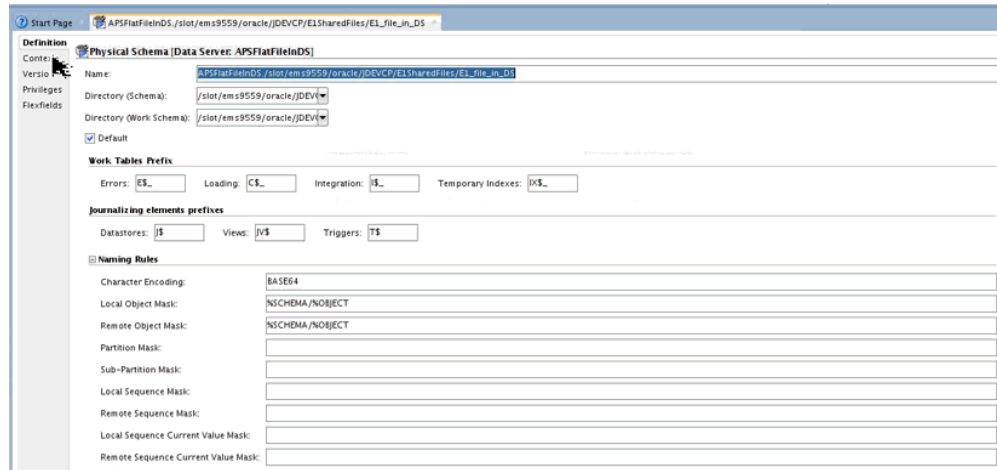


2. Expand each datastore to check and modify the E1SharedFile folder path details, if required.



3. Double click on the Child DS with the Connection details.

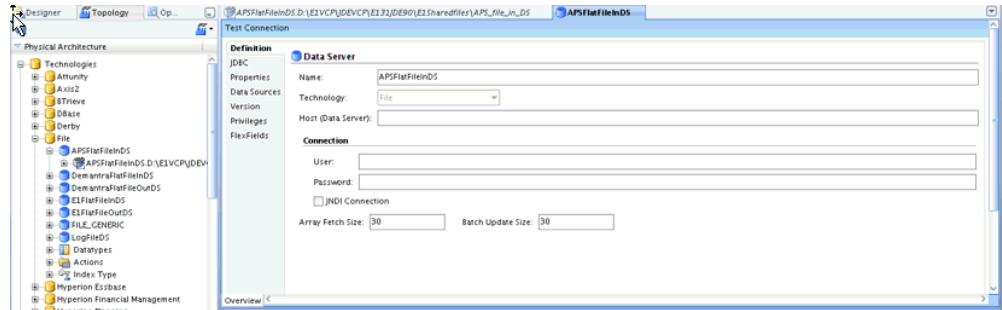
The Directory location for both Schema and Work Schema will show details from the source setup of the Import repository. (See example window)



4. Change both schema details for your local setup directory structure.

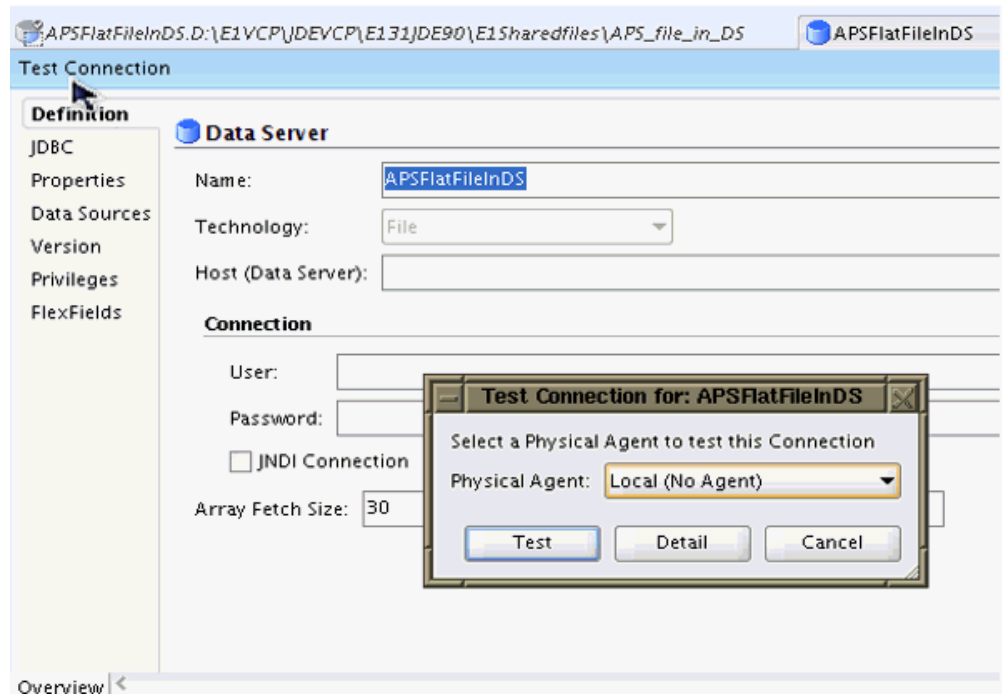
Note: Change only the path to the DS and not the DS folder name:
For example: APS_file_in_DS. Keep the remaining as the default.
Save your changes.

Double click on the Parent DS on the Left under Technologies > File. For example: APSFlatFileInDS.

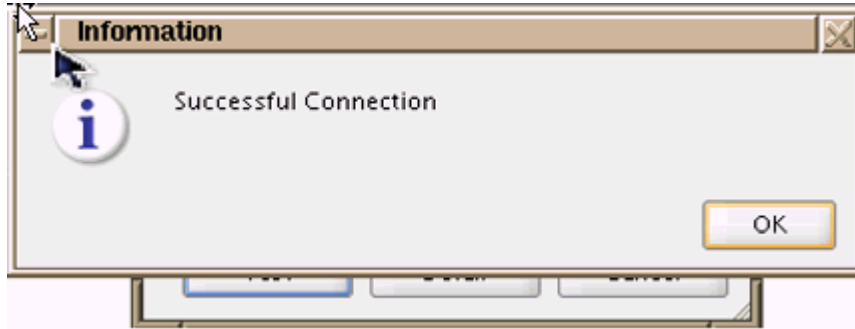


5. Test the connection to ensure changes are valid.

Use the Local Agent to test all connections from within the ODI Studio (see example page).



6. Select Test to check for a successful connection.



7. Repeat the process to modify and test the connections for the following:
 - DemantraFlatFileInDS
 - DemantraFlatFileOutDS
 - E1FlatFileInDS
 - E1FlatFileOutDS
 - LogFileDS

Testing Database Connections:

1. Expand Technologies > Oracle Check

ASCPDS and WorkRepoDS for connection success. Both are used by ODI for establishing DB connectivity.

ASCPDS:

Connection details w.r.t EBS env

Double Click on ASCPDS to modify the JDBC details to point to the correct EBS Env

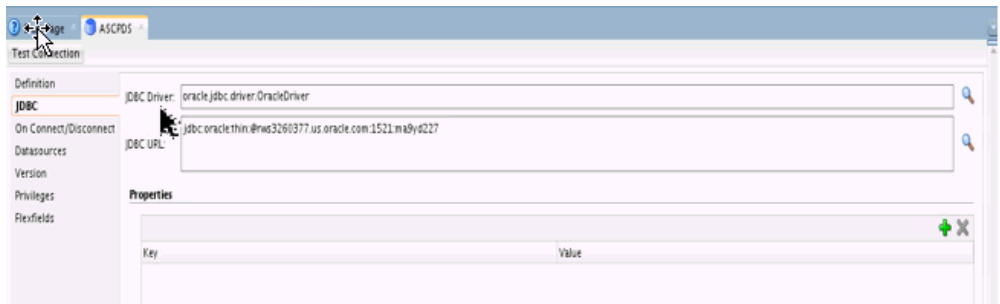
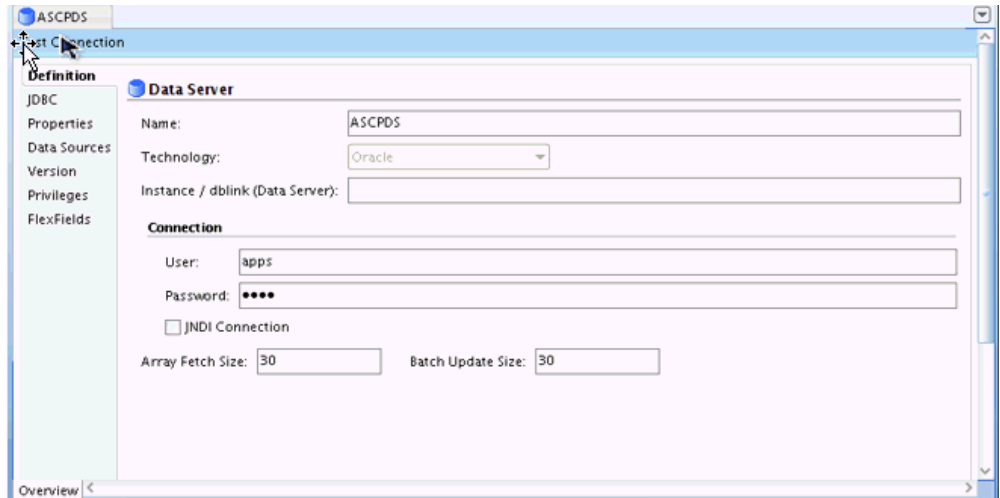
Password can be changed under Definition

Host details can be changed under JDBC

In Instance/Db link (Server) provide the DB link created with the name VCPENV

Save and test the connection.

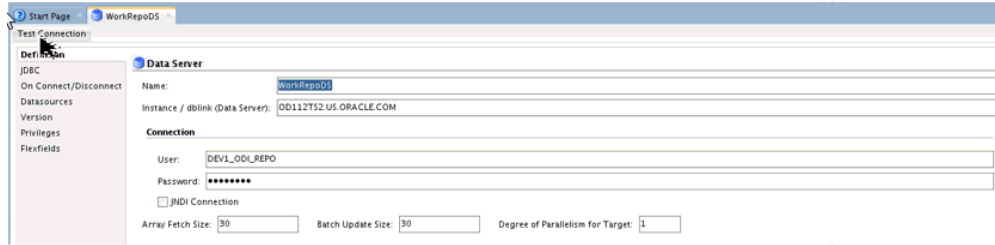
(See example page below)



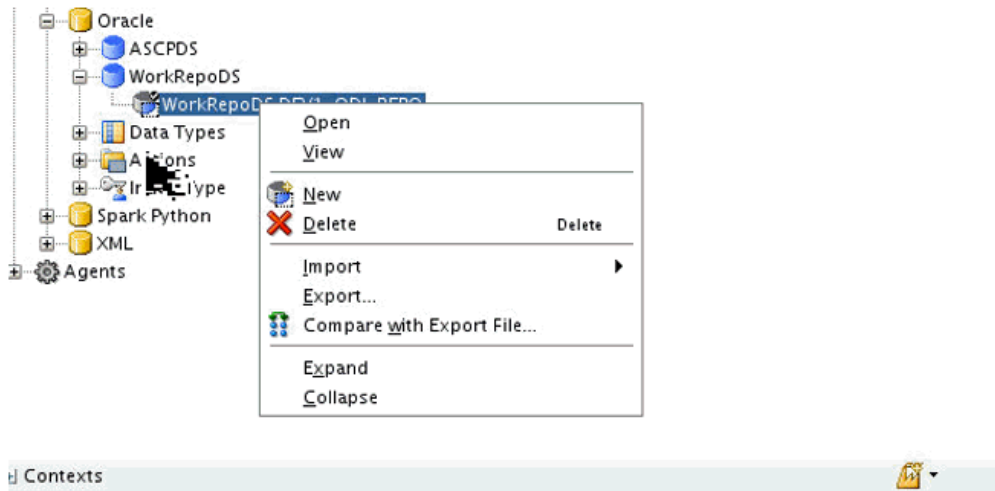
WorkRepoDS:

- Work Repository Connection Details.
- If Master and Work Repositories point to the same schema, then enter Master Repository Schema login details.
- If Master and Work Repositories point to different schemas, then enter Work Repository schema Login details.
- Double Click on WorkRepoDS to modify the JDBC details to point to the correct Repository Schema.
- Password can be changed under definition.
- Host details can be changed under JDBC.
- In Instance/Db link (Server), provide the DB link created with the name ODIUSER.

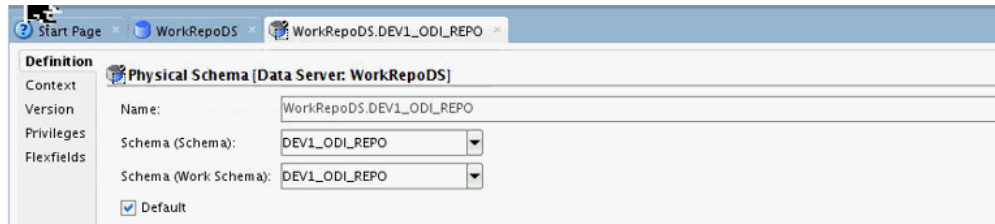
Save and test the connection. (See example pages below)



2. Expand WorkRepoDS and open the DS under it.

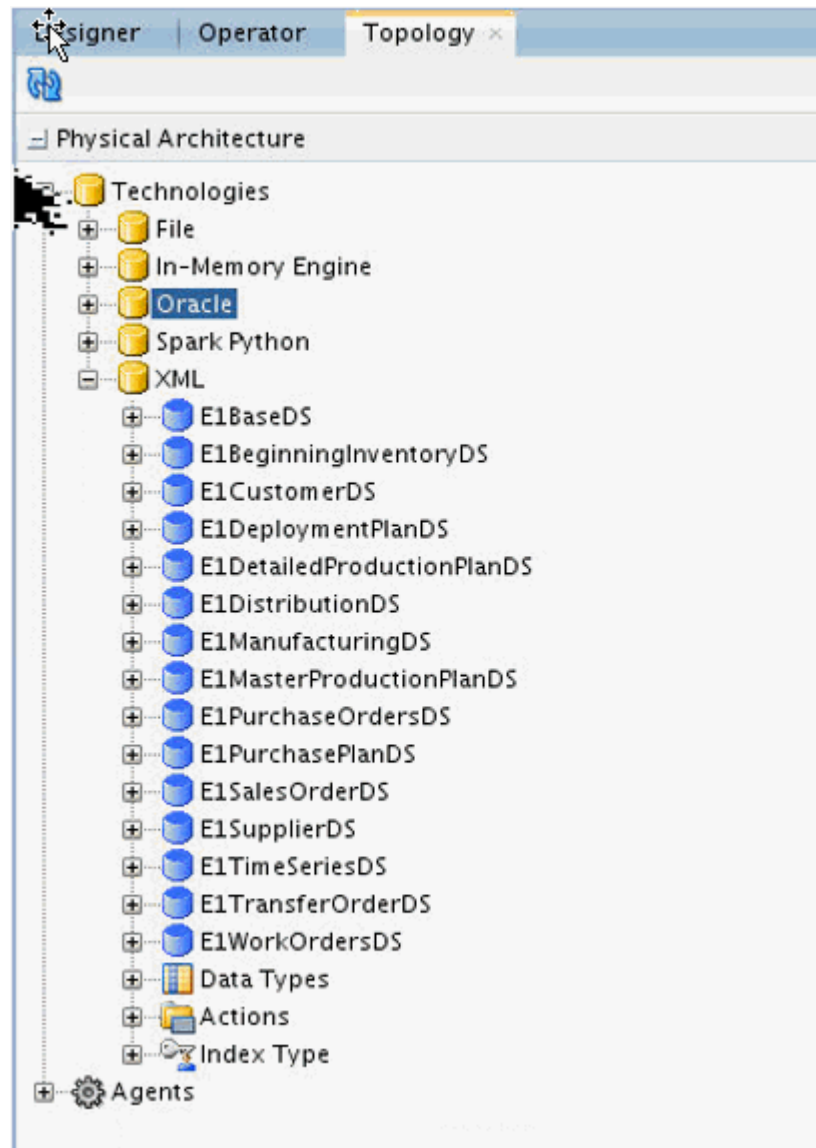


3. Modify the Schema and Work Schema names for the DS (see example page below). Select from the LOV schema DEV_ODI_REPO for both Schema and Work Schema and leave the remaining unchanged. Save and test the connection.



Testing XML Connections:

1. Expand Technologies > XML.



Connections fail if the xml file is not present under E1SharedFile/E1_file_DS folder or the JDBC is not pointing to the correct E1SharedFile path.

Check External Database Schema for tables created after testing E1BaseDS, E1ManufacturingDS and E1WorkOrdersDS XML Datastore connections. Before testing the 3 connections there should be no tables under External DB schema.

For the other XML's no tables will be created in the External DB schema.

Successful connection creates tables for:

- Base with BASE_<table-name>
- Manufacturing with MANUF_<table-name>
- WorkOrders with WORKO_<table-name>

Double click on each Datastore. Select JDBC to ensure the E1SharedFile path is correct. If not, then modify the path for both File and DTD wherever applicable, similar to changes to File under Technologies earlier.

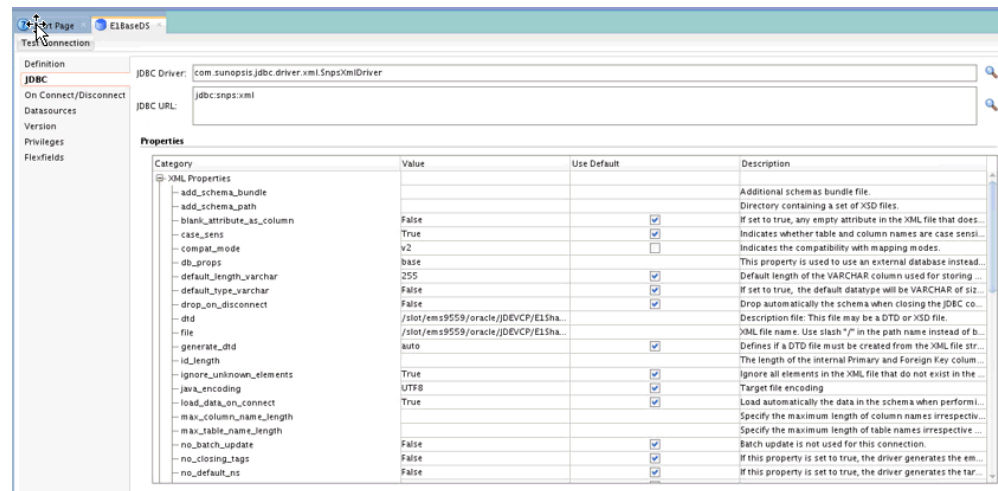
For Base, Manufacturing, and WorkOrders DS, the JDBC must be set to db_props=base at the end which points to the base.properties for DB details.

dtd = <Complete Path to the dtd file location>

file = <Complete path to the xml file location>

For Base, Manufacturing, and WorkOrders DS, the JDBC properties must be set to the following: db_props=base

After changes have been entered, save and test the connection to check for success.



2. Check using the following query after connecting to External DB Schema using SQLDeveloper or any other tool. SQL > select * from tabs;

SQL > select * from tabs;

TABLE_NAME	TABLESPACE_NAME	CLUSTER_NAME	PCT_FREE	PCT_USED	INI_TRANS	MAX_TRANS	INITIAL_EXTENT	NEXT_EXTENT	MIN_EXTENTS	MAX_EXTENTS	PCT_INCREASE	FREELISTS	PI
1 BASE_MODELCONFJOURNALITEMS	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
2 MANUF_INVFORMANCE	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
3 MANUF_BOM_LIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
4 MANUF_BOM	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
5 MANUF_BOMCOMPONENTHISTLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
6 MANUF_BOMCOMPONENTHIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
7 MANUF_COMPONENTLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
8 MANUF_COMPONENT	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
9 MANUF_TIMEVARIABLEEVENTLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
10 MANUF_TIMEVARIABLEEVENT	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
11 MANUF_OPERATIONLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
12 MANUF_OPERATION	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
13 MANUF_RESOURCESETLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
14 BASE_BRANCHLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
15 BASE_BRANCH	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
16 BASE_STORAGELIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
17 BASE_STORAGE	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
18 BASE_TIMEVARIABLEEVENTLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
19 BASE_TIMEVARIABLEEVENT	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
20 BASE_ITEMTOBRANCHLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
21 BASE_ITEMTOBRANCH	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
22 BASE_BRANCHGROUPLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
23 BASE_BRANCHGROUP	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
24 BASE_ITEMBRANCHLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
25 BASE_ITEMBRANCH	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
26 BASE_INVENTORYPOLICYLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
27 BASE_INVENTORYPOLICY	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
28 BASE_ATTRULELIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
29 BASE_ATTRULE	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
30 BASE_MODELCONFJOURNALITEM	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
31 BASE_CONFJOURNALITEMLIST	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	
32 BASE_CONFJOURNALITEM	USERS	(null)	10	(null)	1	255	65536	1048576	1	2147483645	(null)	(null)	

Tables will be created in the external DB schema after successful testing with the following names for the 3 datastores:

- E1BaseDS: BASE_<tablename>
- E1ManufacturingDS: <MANUF_<tablename>
- E1WorkOrdersDS: <WORKO_<tablename>

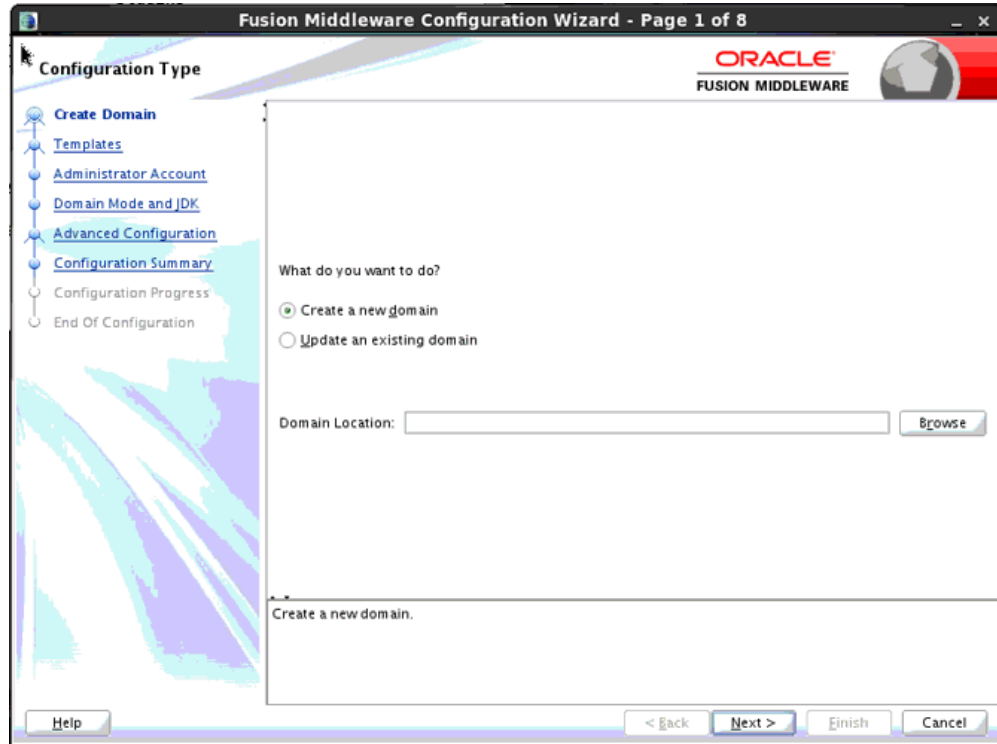
Setting up the ODI Domain/Agent

Creating the ODI Domain/Deploy Agent:

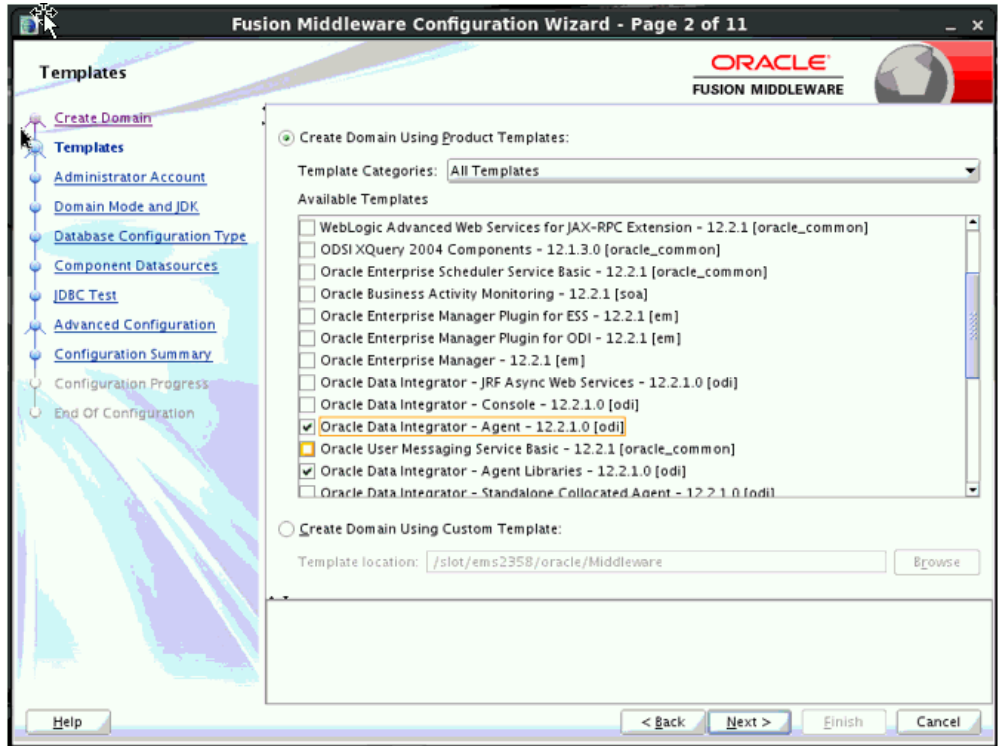
1. Configure the Weblogic Domain for the Java EE Agent.

Go to <ORACLE_HOME>/oracle_common/common/bin folder and start config.sh file

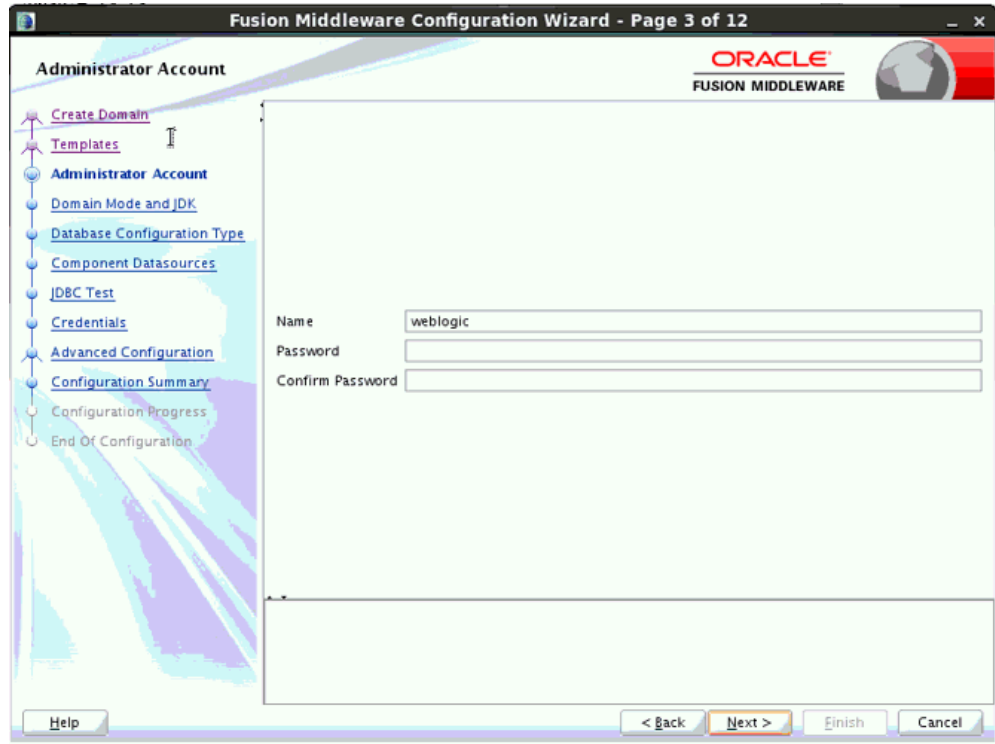
```
cd <ORACLE_HOME>/oracle_common/common/bin./config.sh
```



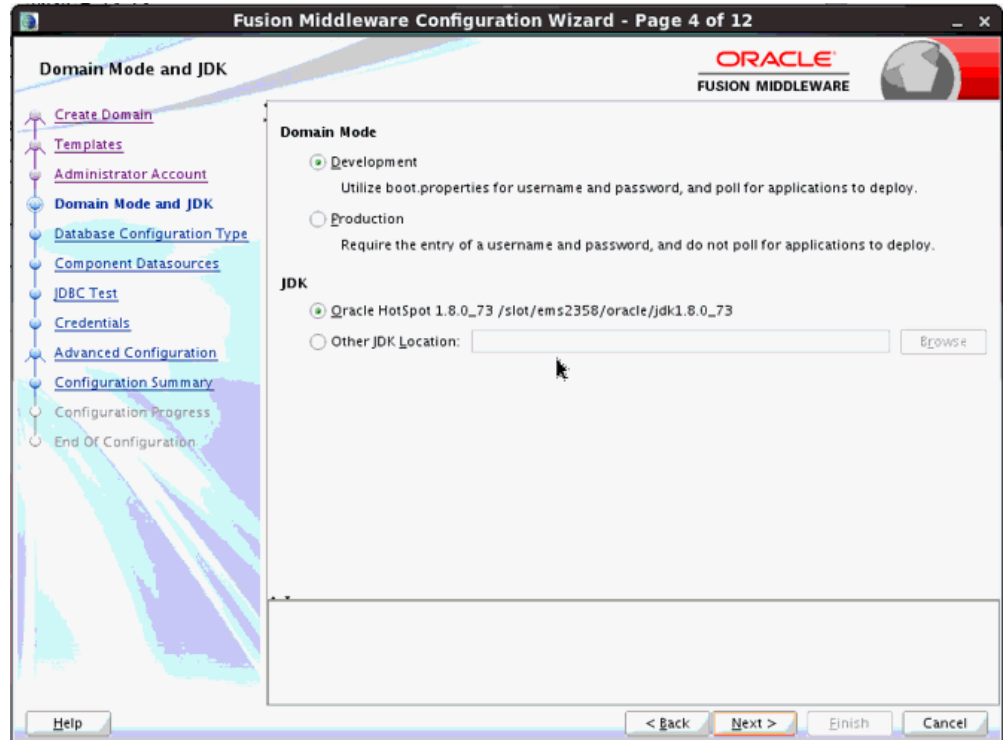
2. Select Update an existing domain if you already have a DOMAIN created, or select Create a new domain and enter the path to the `$ORACLE_HOME/user_projects/domains/<new_domain_folder>` for the domain location.
Select Next.
3. Select 'Oracle Data Integrator Agent' from the available templates and select Next.



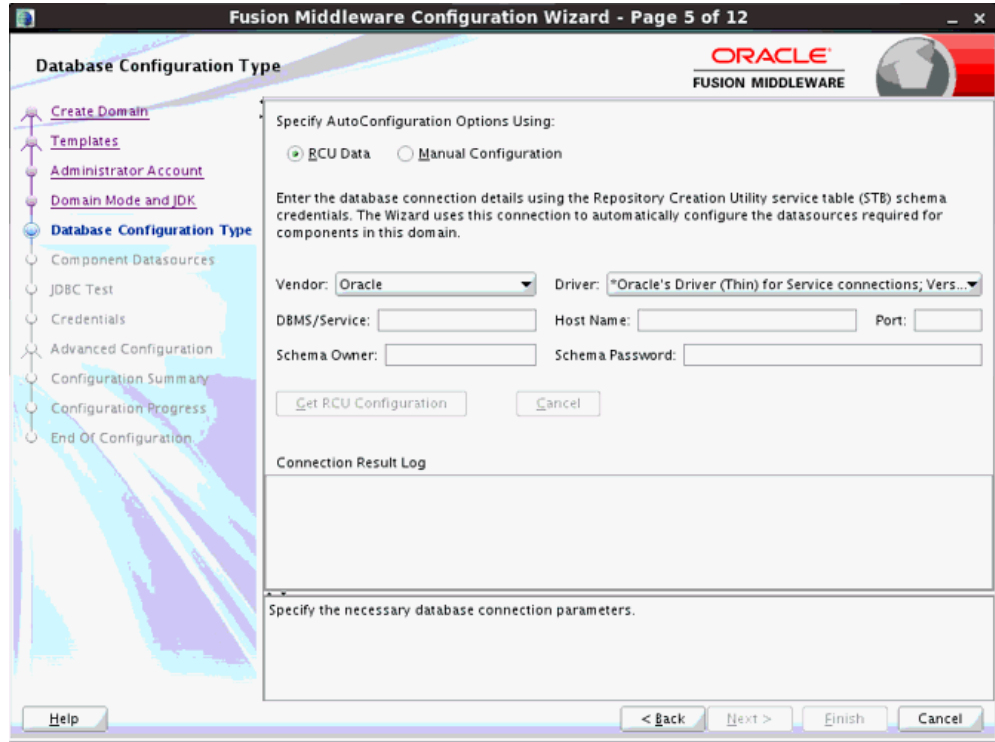
4. Enter the Administrative account (weblogic) login details and select Next.



5. Select the Domain Mode and JDK Home details and select Next.



6. Enter the configuration details and select Next.



Vendor: Oracle

Driver: <Select the Oracle Driver>

DBMS/Service: <Database SID/Service Name of the Master Repository>

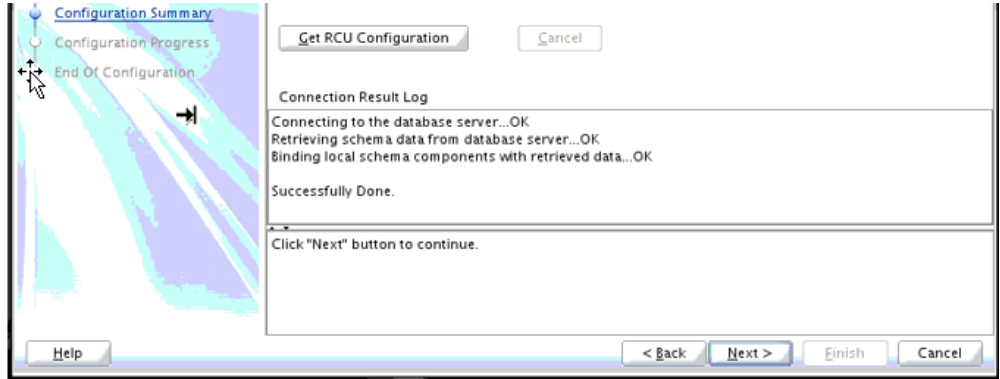
Host Name: <ODI Host name>

Port: <Oracle Database Port>

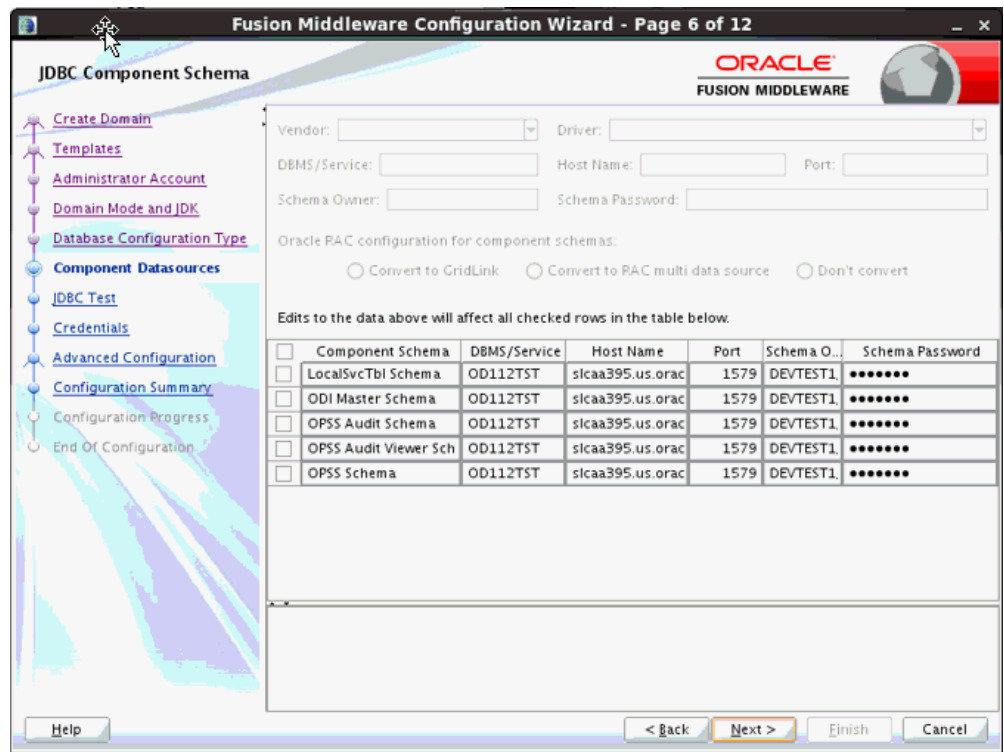
Schema Name: <Enter the Master repository Schema name>

Schema Password: <Enter Master Repository Schema Password>

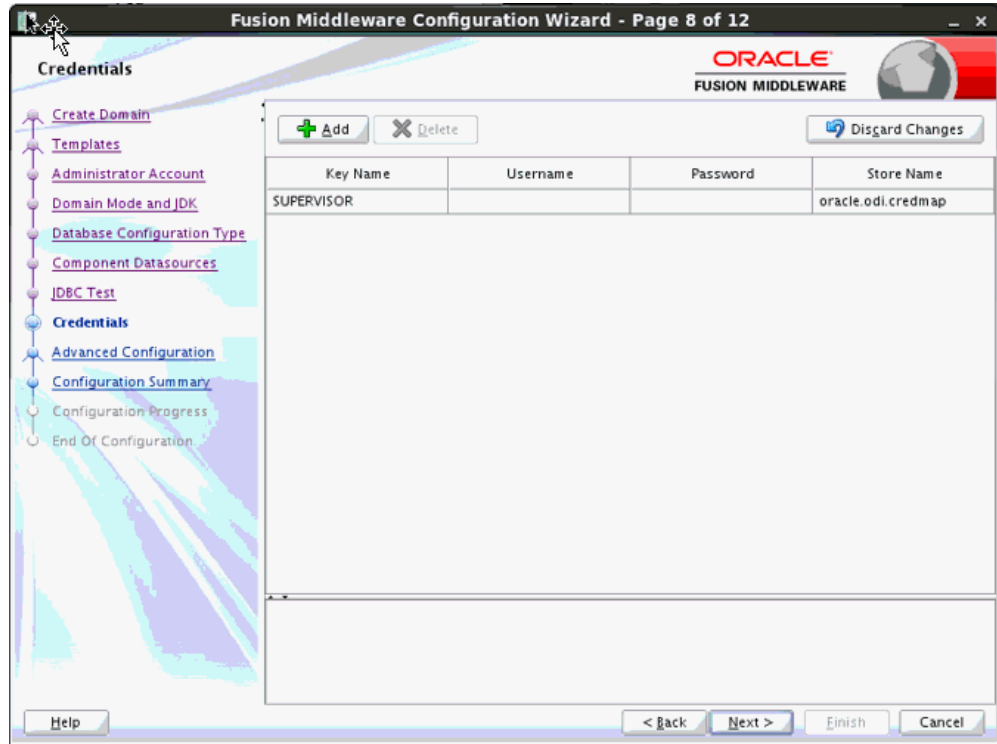
7. Select 'Get RCU Configuration' to test the connection and then select Next.



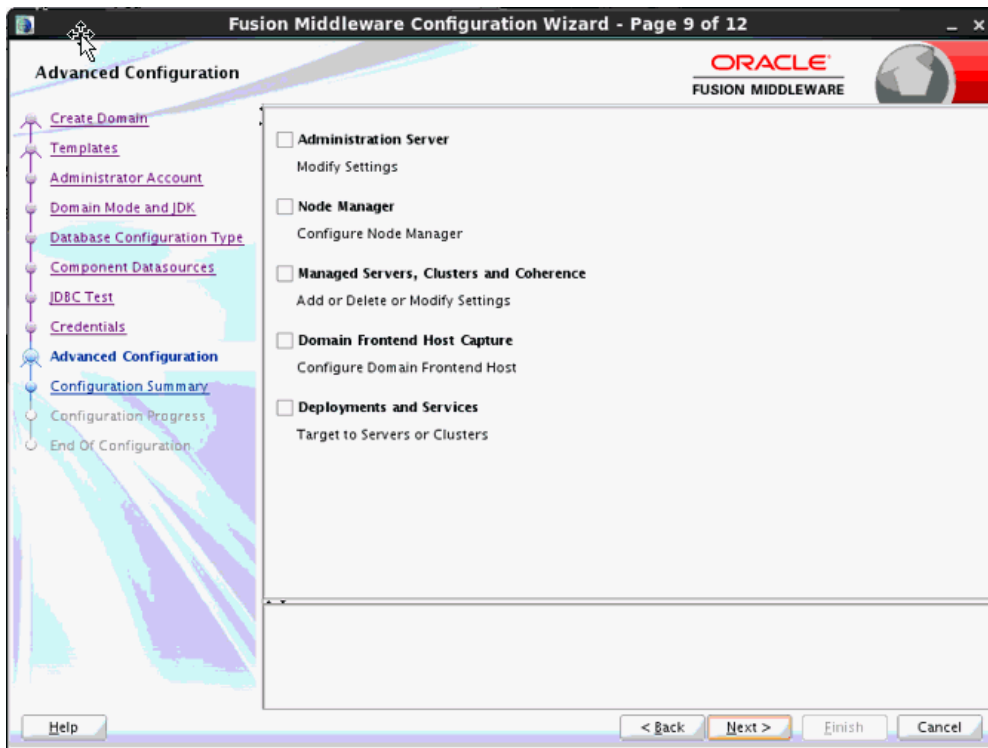
8. Ensure all component schemas are listed and select Next.

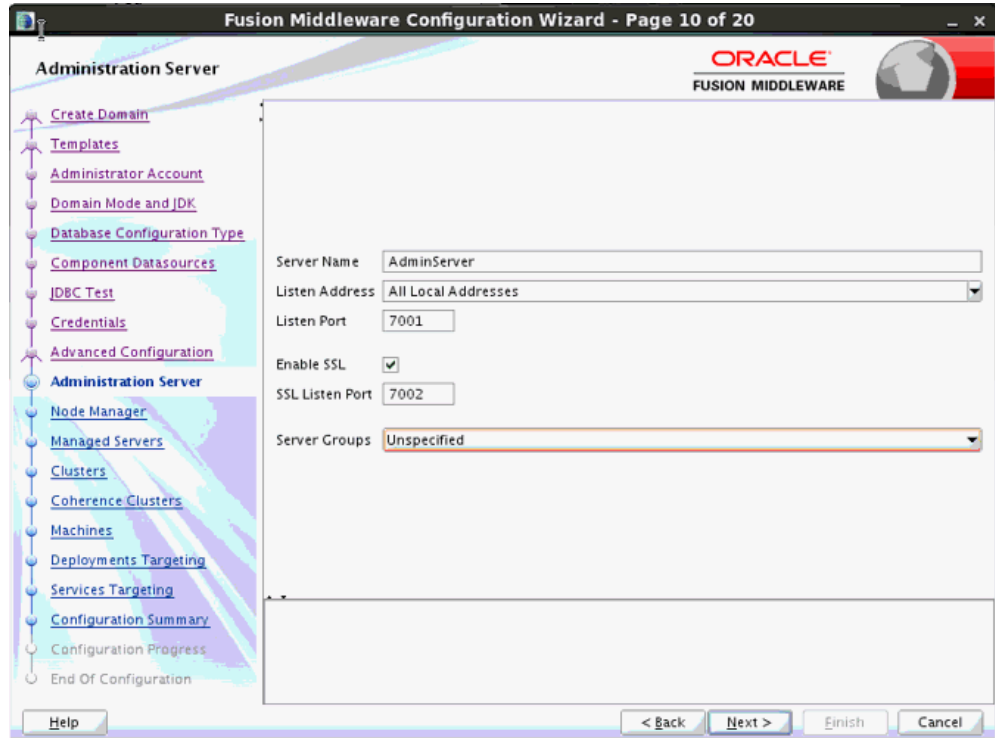


9. Test all connections if not automatically tested
Enter credentials for SUPERVISOR and select Next when finished.



10. Select all check boxes in the Advanced Configuration page and select Next.





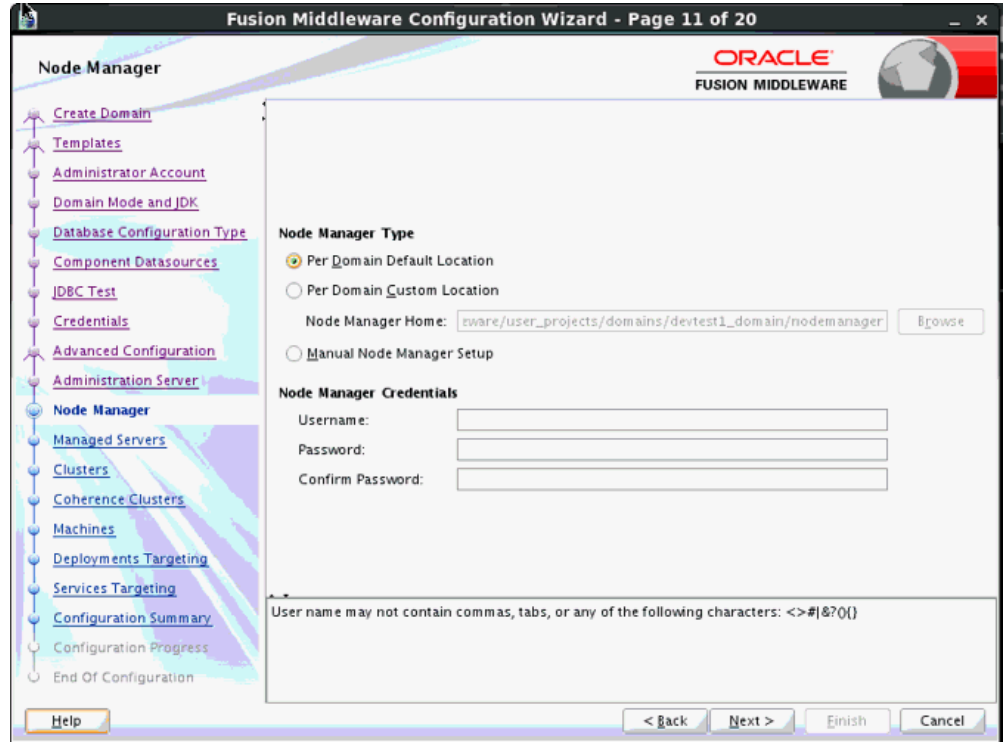
11. Enable SSL and make a note of the Listener Ports that display for AdminServer and SSL Port. Select Next and choose the Node Manager type based on the following notes.

Node Manager

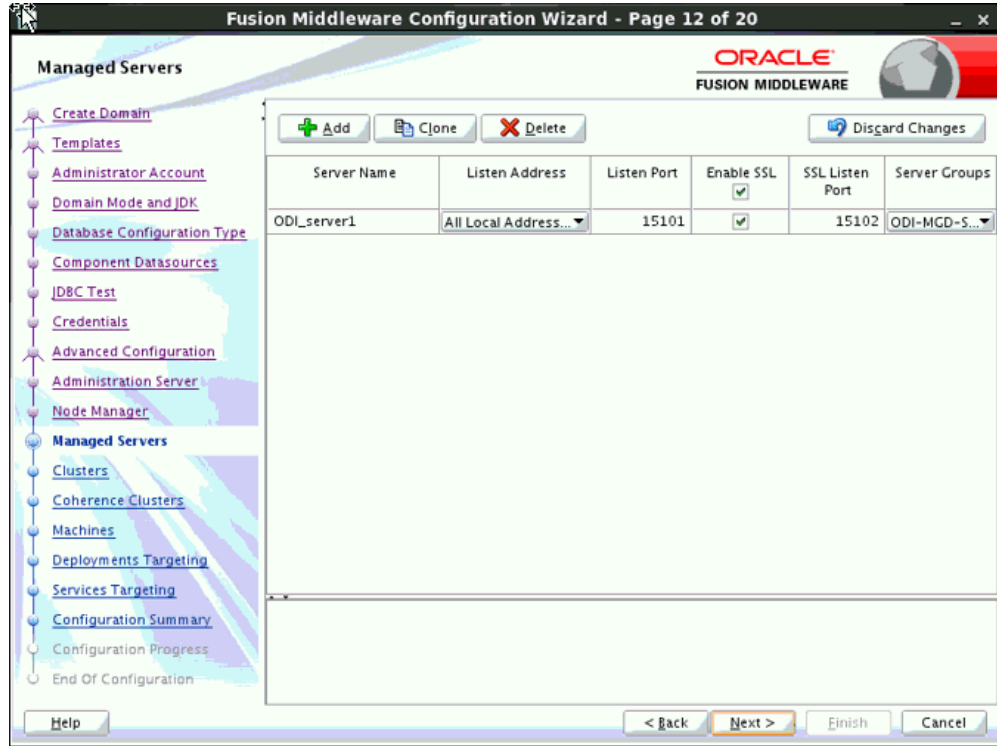
Use this screen to select the Node Manager configuration to use for this domain. Whenever you start the Node Manager for a domain it looks for the `nodemanager.properties` file in the Node Manager home directory.

Option/Field	Description
Node Manager Type	Select one of the following Node Manager types.
Per Domain Default Location	If you select this option, the Node Manager home is predefined within the domain as <code><domain_name>/nodemanager</code> and you cannot edit the Node Manager home. The Node Manager for each domain can have a different configuration, as determined by the files in this directory.
Per Domain Custom Location	Select this option if you want the Node Manager configuration files to be created in a specific location for this domain. Specify the directory in the Node Manager Home field, or click Browse to navigate to the location. The specified directory must be empty. The <code>nodemanager.properties</code> and <code>nodemanager.downdns</code> files will be created in this directory.
Manual Node Manager Setup	If you select this option, creation of the Node Manager configuration for the domain is skipped, and you must manually create and update the Node Manager configuration for the domain. More You should also select this option if you do not want to use Node Manager in the domain. More Note: When creating standalone domains for OHS and ODI, do not select this option. A per domain Node Manager configuration is required for system component standalone domains. More
Username Password Confirm Password	The username and password that is used to start the specified Node Manager.
Node Manager Home	If you selected the Per Domain Custom Location option, click Browse and navigate to the directory location of the Node Manager that you want to use.

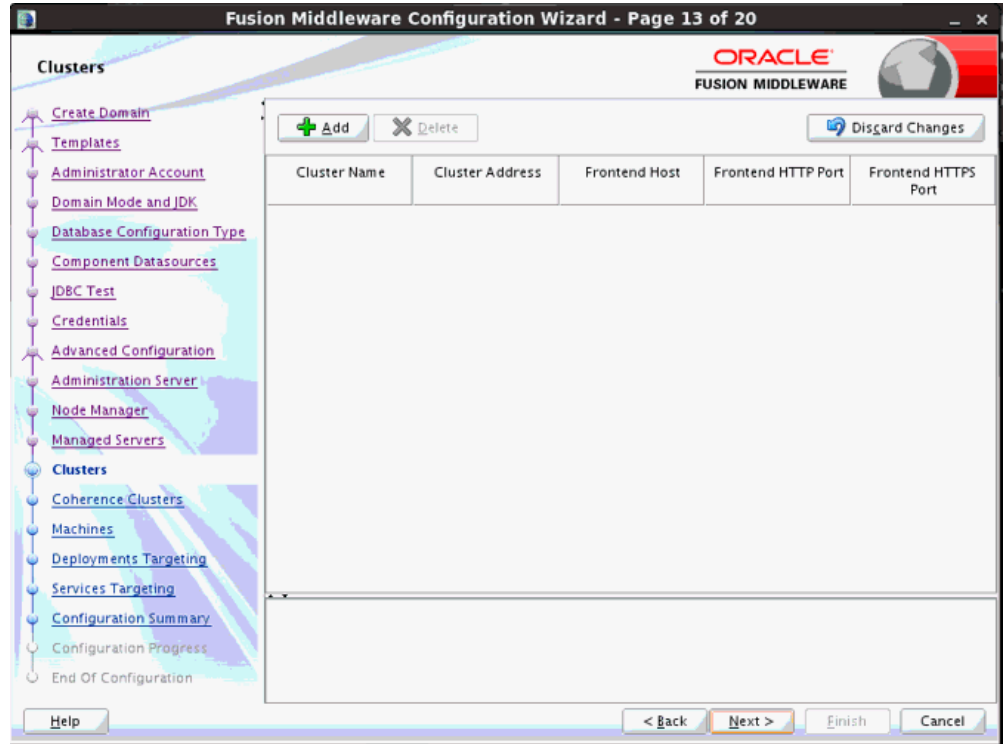
12. Enter the Node Manager Credentials to be used. Select Next.



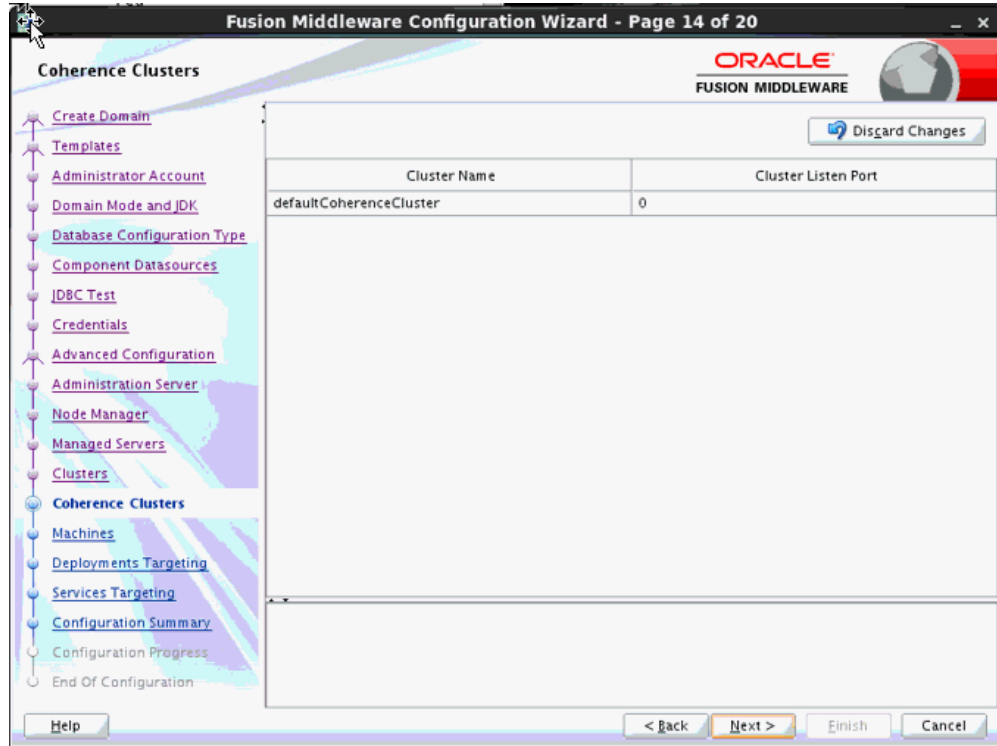
13. For the ODI managed server screen, enable SSL and retain the remaining default details. You can add additional managed servers here. Select Next.



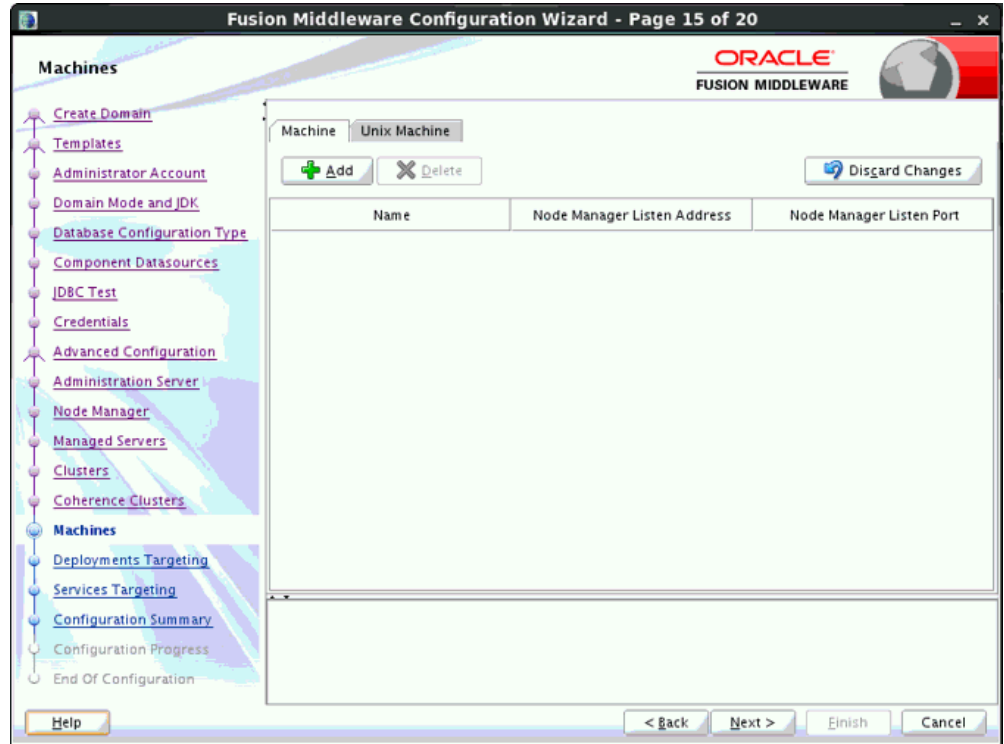
14. Add any clusters if your managed servers are to be placed under a cluster. Select next.



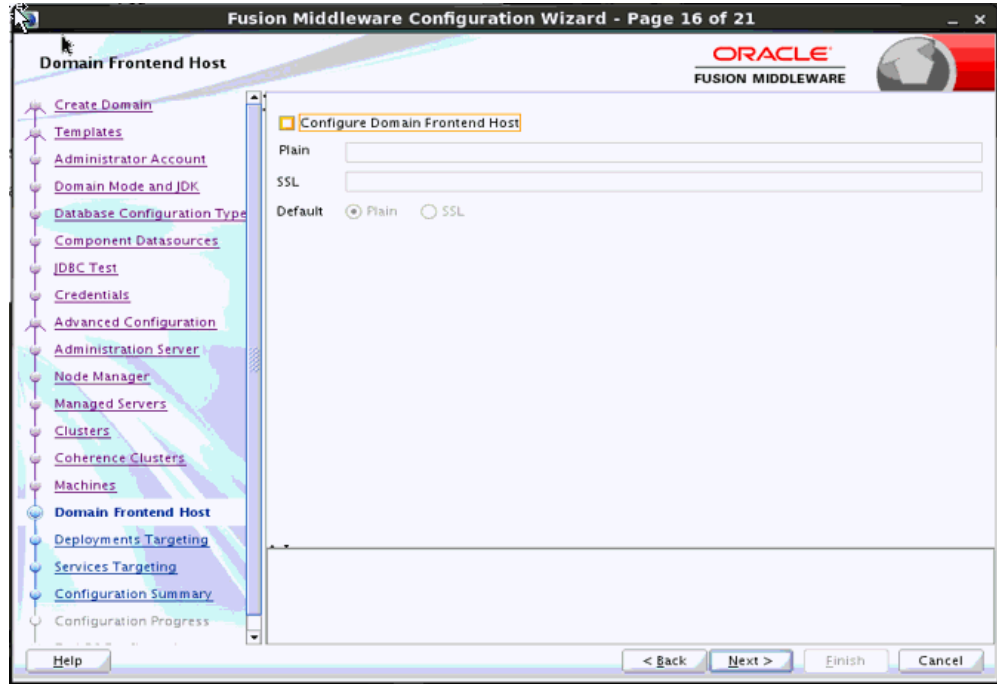
15. If no clusters are added, then it displays the default cluster. Select Next.



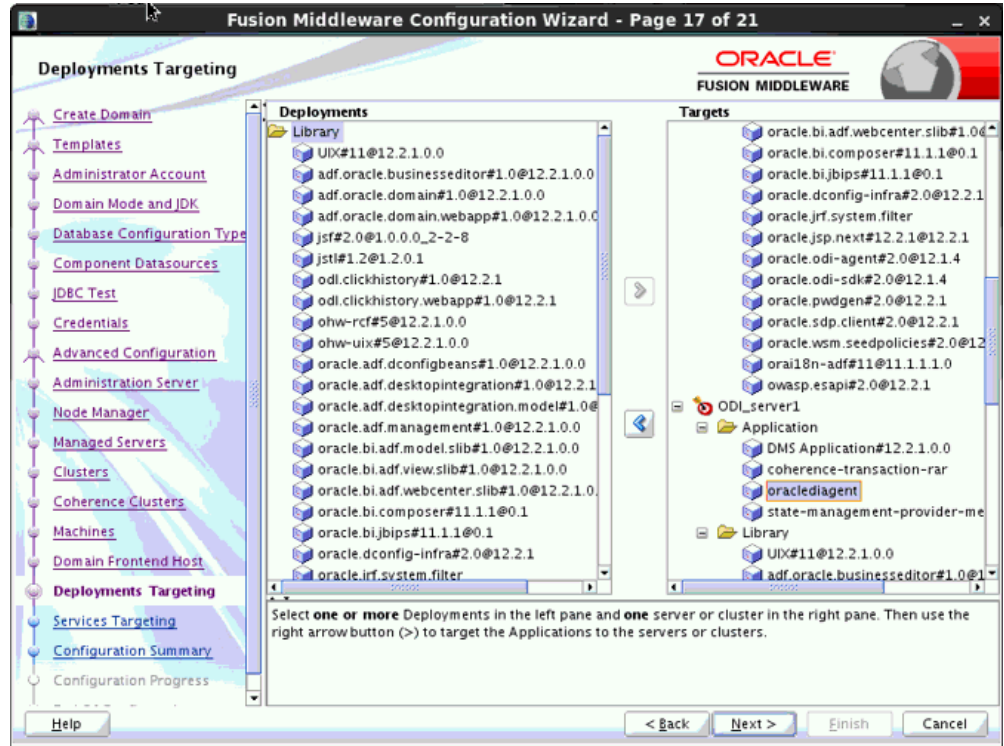
16. Select Next to move out of the Machines page. Check documentation Help if you need to configure any machines to the weblogic domain.



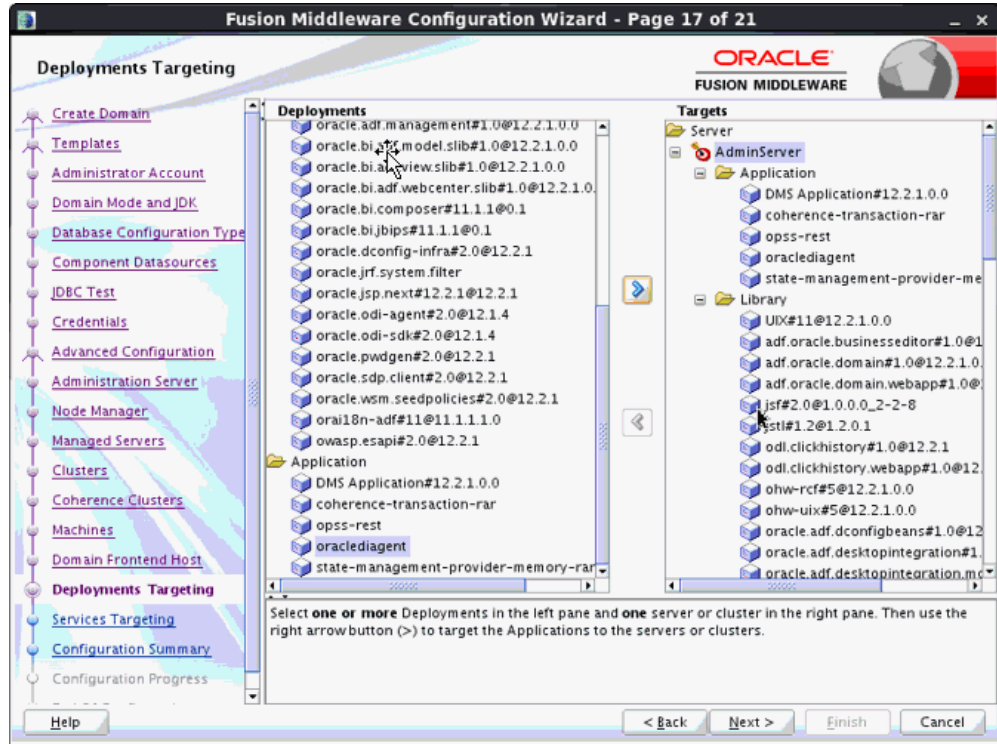
17. Uncheck the Configure Domain Frontend Host checkbox and select Next.



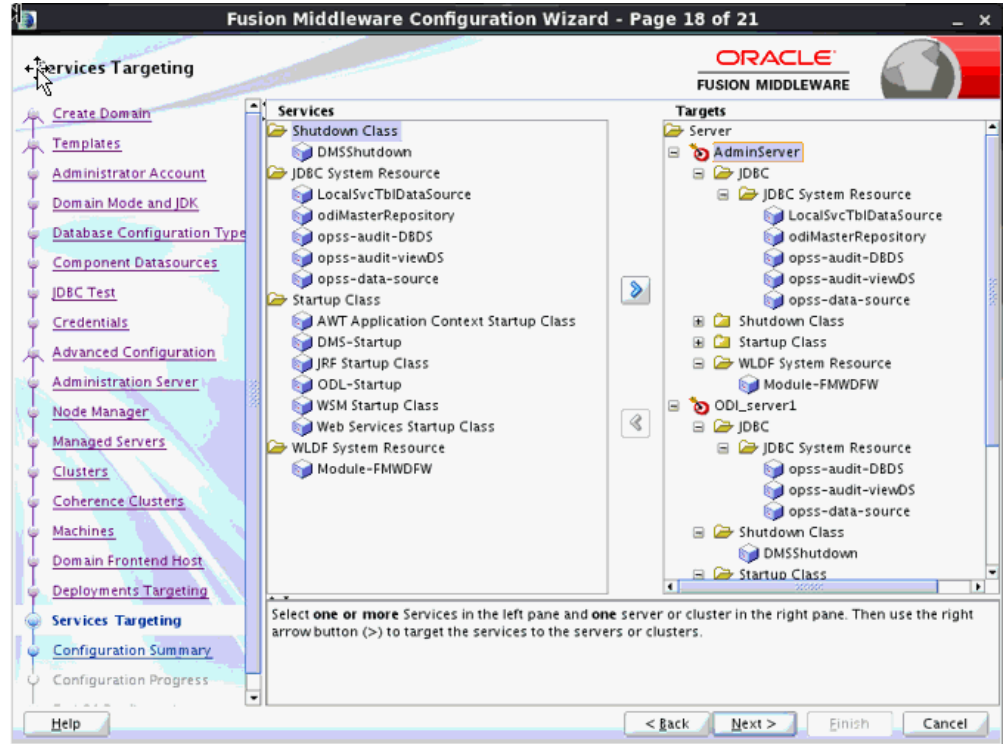
18. Ensure that oraclediagent is available in the right pane under ODI server. If present, then select Next. If not present, then move it from the left pane under ODI Server. Select Next.



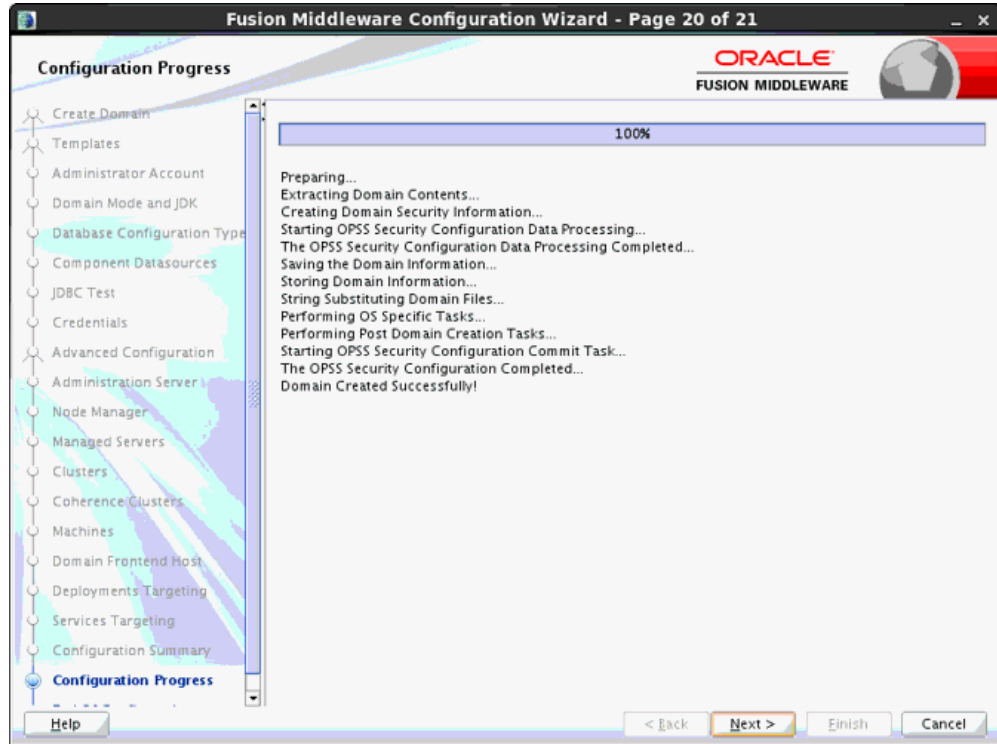
19. Under Services in the left pane, select `odiMasterRepository` and move it under the `ODI_Server`.



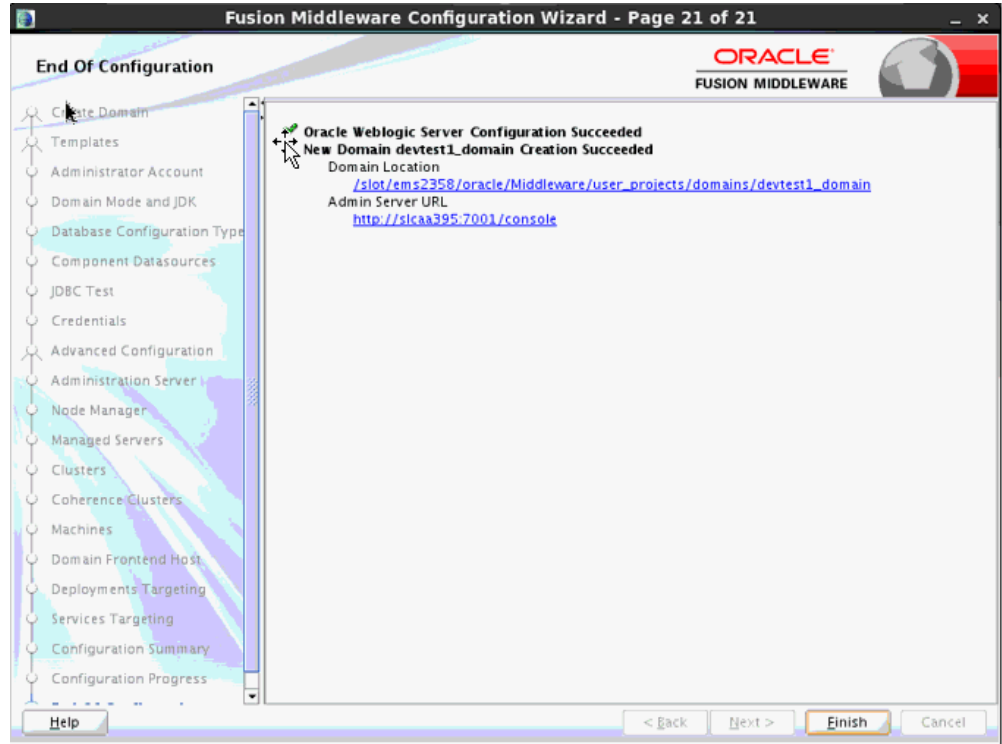
20. In the Deployments targeting page, ensure 'odiMasterRepository' is available.



21. Select Next and then select Create to create the domain. Check for Domain creation Success.



22. Select Next and note the configuration details. Note the Admin Server URL. The Port number in the Admin server URL will be the Agent Port number.



23. Select Finish to complete.

Check Domain and Agent folders

- In the Middleware folder should be a domain created, and should have configured with agent.

Example:

<ORACLE_HOME>/Middleware/user_projects/domains/<ODI_Domain>/bin

Here the domain is ODI_Domain

- The domain should have agent configured in it's sub directories. The agent name should be same as the agent deployed in wls in point #2.2.

Example:

<ORACLE_HOME>/Middleware/user_projects/domains/ODI_Domain/config/fmwconfig/components/ODI/OracleDIAGENT

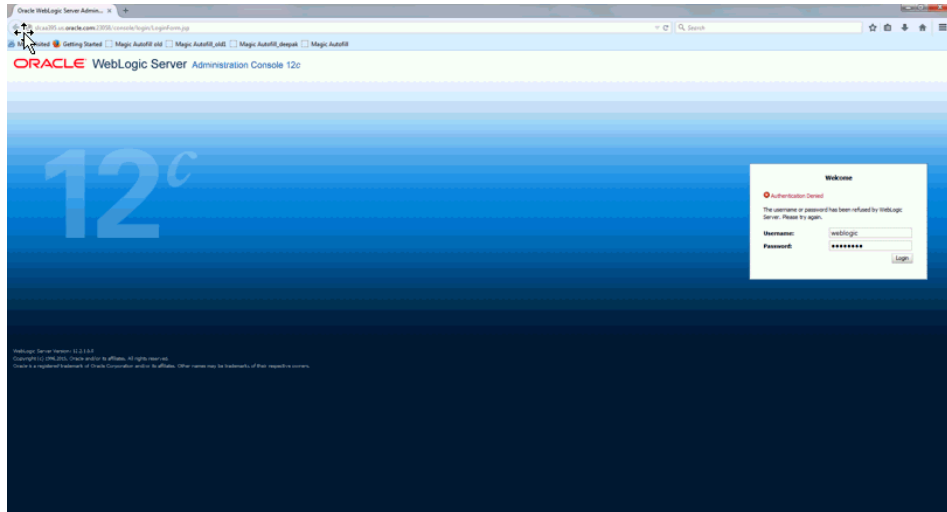
- Ensure that the OracleDIAGENT folder/directory has an instance.properties file available.

Example:

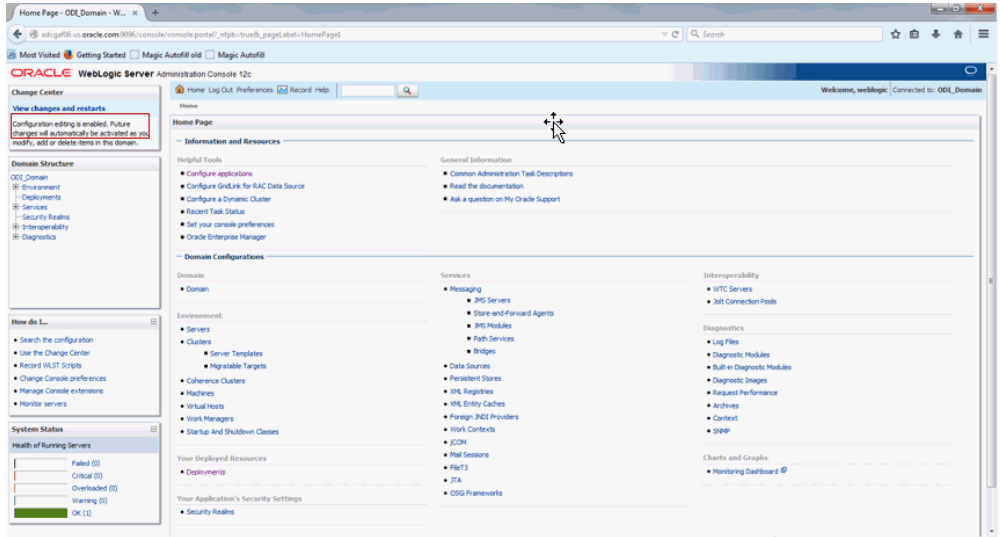
<ORACLE_HOME>/Middleware/user_projects/domains/ODI_Domain/config/fmwconfig/components/ODI/OracleDIAGENT/instance.properties

Checking Weblogic Console for Agent Deployment:

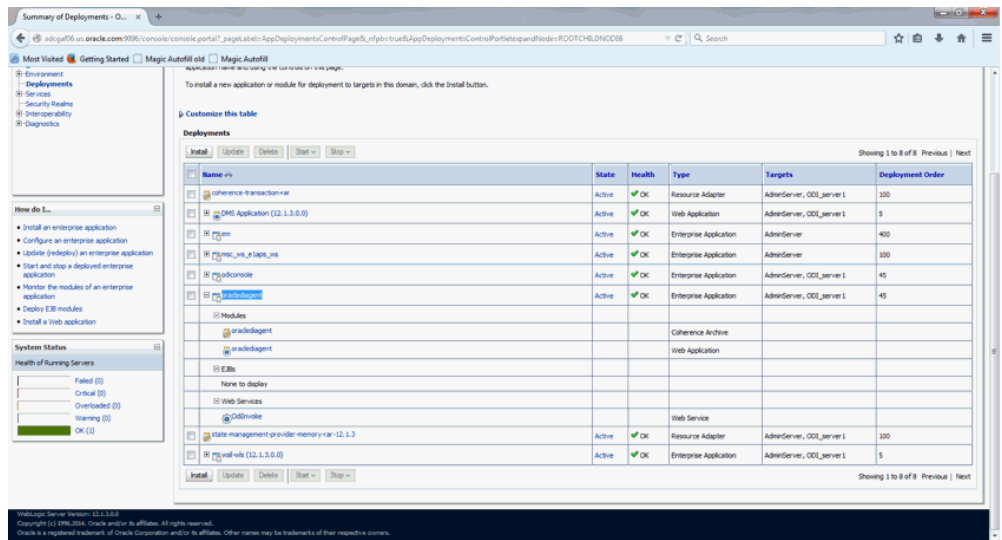
1. Ensure ODI Agent oracleDIAgent is installed/deployed in WLS.
 - The ODI Agent should be deployed WLS and should be up and running.
 - Logon to the WLS URL given in section Weblogic 12.1.3 in the environment page.



2. Select Deployments.

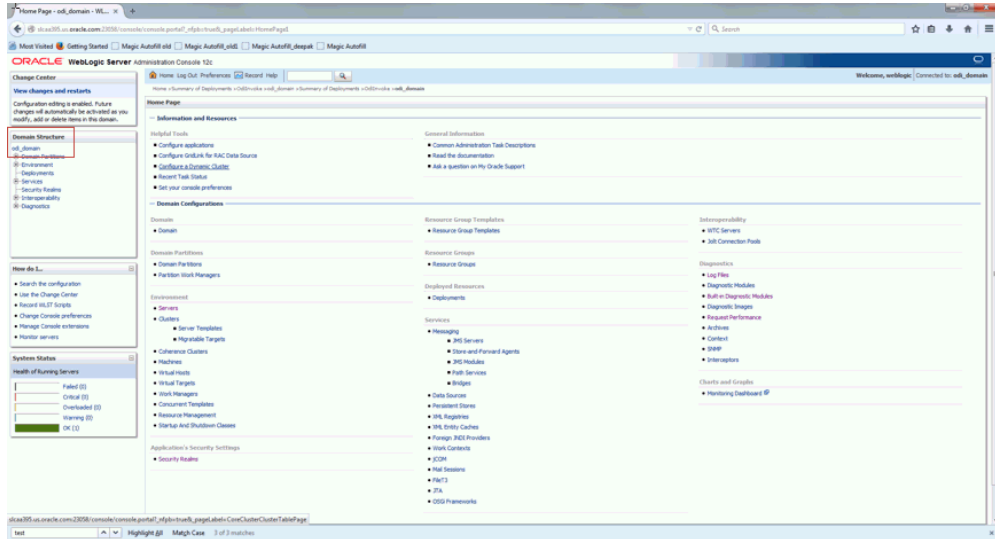


- Expand OracleDIAGent displayed in Name section.
The health should be OK and the state should be Active.

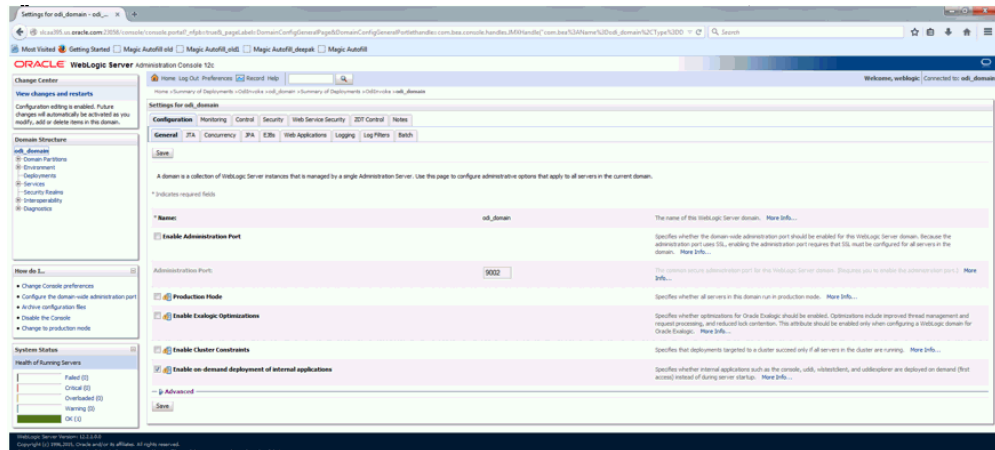


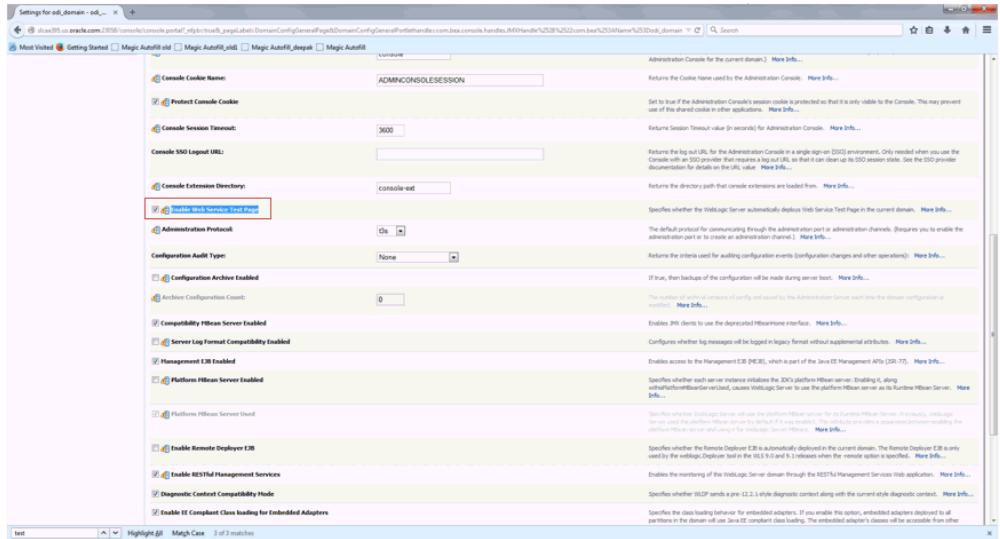
Enabling Webservice Test Page to Get Test Client Option:

- Login to WLS and select the odi_domain.



- Expand the Advanced Options and select the 'Enable Web Service Test Page' checkbox.





3. Select the save button available at the bottom of the page.

Updating SetDomain.env file:

Edit file setDomainEnv.sh in directory

<ORACLE_HOME>/Middleware/user_projects/domains/<ODI_Domain>/bin

Go to end of file and add the following commands according to your ODI environment directories created. Save the file.

```
CLASSPATH=${CLASSPATH}${CLASSPATHSEP}
/slot/ems15395/oracle/Middleware/odi/agent/lib export CLASSPATH
```

Updating msc_e1aps_odi-config.properties file:

Update the e1aps_odi-config.properties file with the Port number obtained from the domain creation. The Port number is the number in the Admin server URL.

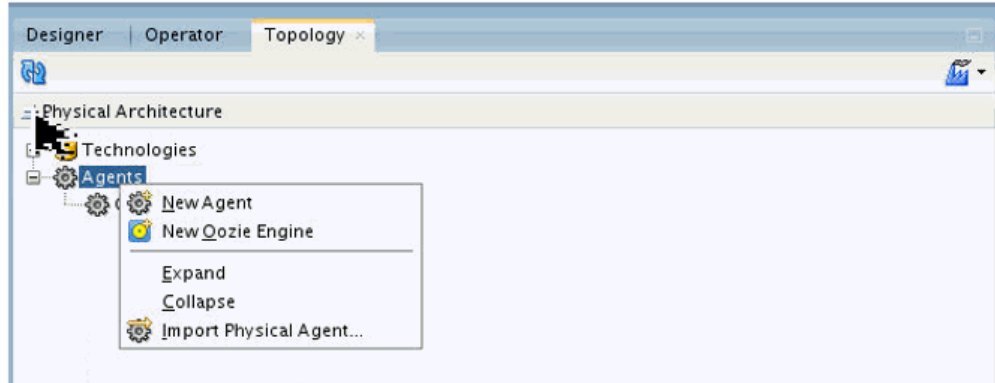
Update the encrypted Supervisor password using the steps in the above section.

Creating and Testing Agents in ODI:

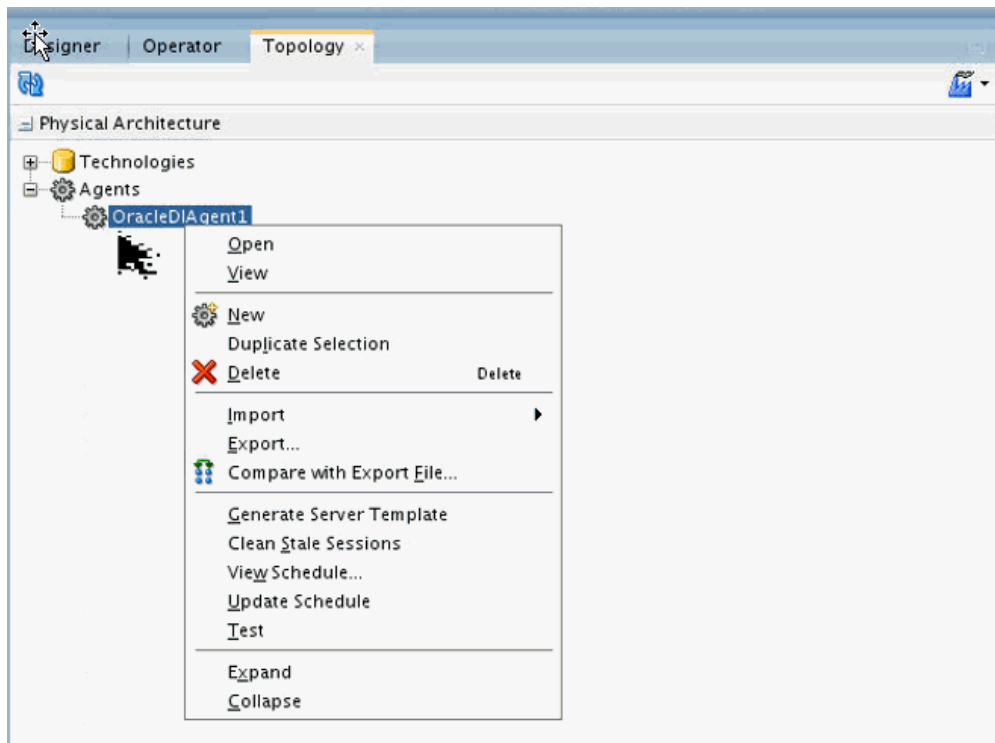
Define Agent in ODI Topology. Navigate to the Topology tab > Agent.

Right click to create a New Agent or Open an existing agent if it exists.

1. Create a new Agent.



2. You can also update an existing Agent.



Enter details for the agent and Save.

Name: <Agent Name from the Domain folder>

Host: <WLS host>

Port: <Port number from the Admin Server URL>

Save your changes and bounce the WLS Middle Tier.

Updating ODI Variables

Open the ODI Designer and select Variables.

Select a variable and enter the appropriate information in the Default Value field.

FTP Activation Variables:

To enable an FTP connection and use a remote server for staging, set the following variables:

Variable	Description
PVV_APS_FTP_FLAG	In the Default Value field, enter Y.
PVV_DEM_FTP_FLAG	In the Default Value field, enter Y.

VCP FTP Variables:

To enable an FTP connection and use a remote server for staging, set the following variables:

Variable	Description
PVV_APS_HOST_NAME	In the Default Value field, enter the VCP server host' name.
PVV_APS_HOST_USER	In the Default Value field, enter the VCP server user name.
PVV_APS_HOST_PWD	In the Default Value field, enter the VCP server password.
PVV_APS_TARGET_DIR	In the Default, enter the target directory on the VCP server.

Demantra FTP Variables:

To enable an FTP connection and use a remote server for staging, set the following variables:

Variable	Description
PVV_DEM_HOST_NAME	In the Default Value field, enter the Demantra server host' name.
PVV_DEM_HOST_USER	In the Default Value field, enter the Demantra server user name.
PVV_DEM_HOST_PWD	In the Default Value field, enter the Demantra server password.
PVV_DEM_TARGET_DIR	In the Default, enter the target directory on the Demantra server.
PVV_DEM_SOURCE_DIR	In the Default, enter the source directory on the Demantra server.

Execution Log Variables:

To have the execution log files sent to an email address, set the following variables:

Variable	Description
PVV_MAIL_CC	In the Default Value field, enter the email CC address.
PVV_MAIL_TO	In the Default Value field, enter the email notification address.
PVV_MAIL_SERVER	In the Default Value field, enter the name of the email server.
PVV_MAIL_SENDER	In the Default, email address of the sender.

Deploying the VCP Web Service

To run ODI scenarios, the ODI Web Service is invoked from within the collections concurrent programs. This Web Service must be deployed in the weblogic server (WLS).

To deploy the VCP web service:

1. Copy the `msc_ws_e1aps_ws.ear` file to a local directory in the host where WLS is running.

This EAR file is available in the VCP 12.2 patch.

2. Log in to the WLS Admin Server console for the domain where you will deploy the web service.
3. Go to the Summary of Deployments window.
4. Select the Install button.
5. Specify the path to the location of `msc_ws_e1aps_ws.ear`.
6. Select the Next button.
7. Select the Finish button to deploy the Web service.
8. Retain all default values. These default values should be deployed on the Admin Server.

When the VCP web service is deployed, `msc_ws_e1aps_ws` is displayed in the list of deployed applications. Its state should be Active and its Health should be OK.

Configuring the VCP Web Service

To configure the VCP web service:

1. Select the `msc_ws_e1aps_ws` link.
2. Select the Configuration tab.
3. In the Session Timeout field, enter 36000.

This value is in seconds.

4. Select Save.
5. Select OK.

The deployment plan is saved.

Testing the VCP Web Service

To test the VCP JDE web service:

1. In the Deployments window select msc_ws_e1aps_ws link.
2. Select the Testing tab.
3. Select the TestClient link of MSC_E1APS_ODIService
4. Enter the following values:
arg0: LOADPARAMETERSDATATOWORKREPPKG
arg1: 001
5. Select the ExecuteScenario button.
6. A valid ODI session number is displayed in the Service Response section, indicating that the web service has run successfully.

For example: <return>209811#</return>

This session number should match the session number displayed in the Operator window of the ODI client.

Updating VCP Profiles

To update VCP profiles:

1. Copy the VCP JDE web service URL from the Weblogic Test client window.
Ensure that you copy up to and including the ? character
2. In the VCP system, update the following profile values with the copied web service URL:
 - MSC: E1 APS FC URL
 - MSC: E1 APS ODI URL

Setting Up the VCP Timeout Value in ODI

The Oracle Data Integrator Timeout parameter should be updated to the maximum value. In the ODI client, select the ODI menu and set up the timeout value in the User Parameters tab.

Configuring GOP

This chapter covers the following topics:

- Configuring the GOP Web Service Data Source
- Deploying the GOP Web Service
- Setting Up GOP in EnterpriseOne

Configuring the GOP Web Service Data Source

The GOP web service is deployed in the web logic server (WLS) which is part of AIA Fusion Middleware (FMW).

The WLS should have a valid data source named ApplicationDB. The data source's Java Sourcing and Directory Interface (JNDI) name should be JDBC/ApplicationDBDS and it should have valid database connection details.

To verify that a valid data source exists:

1. In the WLS Administration Console, navigate to Services, Data Sources, ApplicationDB.
2. Click the Configuration tab.
3. Click the Connection Pool tab.
4. Click the Targets tab.

This page allows you to view the servers or clusters on which the data source is deployed.

5. Click the Monitoring tab.
6. Click the Testing tab.

7. Select a data source and click Test Data Source.

To create a new data source:

If ApplicationDB does not exist in the web logic service, you must create a new data source.

1. In the WLS Administration Console, navigate to Services, Data Sources.
2. Click the New button and select Generic Data Source.
3. In the Name field, enter ApplicationDB.
4. In the JNDI Name field, enter jdbc/ApplicationDBDS.
5. Click Next.
6. Select an entry in the Database Driver drop-down list and click Next.
7. Select the following options:
 - Supports Global Transactions
 - One-Phase Commit
8. Click Next.
9. Provide the database connection details and click Next.
10. Verify the driver class name and other database parameters.
11. Click Next.
12. Select one or more targets on which to deploy the new JDBC data source.
13. Click Finish.

Deploying the GOP Web Service

The GOP web service is deployed in the WLS, which is part of AIA Fusion Middleware (FMW).

To deploy the GOP web service:

1. Copy the msc_ws_atp_ws.ear file to a local directory in the host where WLS is running.

2. In the WLS Administration Console, navigate to Deployments.
3. Click Install.
4. Click the 'upload your file(s)' link.
5. Click Browse.
6. Locate the msc_ws_atp_ws.ear file and click Next.
7. Click Next.
8. Leave the 'Install this deployment as an application' option checked, and click Next.
9. Select one or more targets on which to deploy the application and click Next.

Note: Targets for the data source and the deployed application should be the same.

1. Select optional settings and click Next.
2. Click Finish.
3. Click Save.

Profile Values:

After deploying the GOP web service, set the following profiles:

Profile	Description
MSC: Memory build during deployment for GOP WS (MSC_GOP_WS_MEMORY_BUILD_DEPLOY)	<p>Indicates whether or not to load data at deployment time or not. Values are:</p> <ul style="list-style-type: none"> • Yes – load • No – do not load <p>The recommended initial value is Yes.</p>

Profile	Description
MSC: Memory refresh mode for GOP WS (MSC_GOP_WS_MEMORY_REF_MODE)	<p>Indicates whether or not to perform a complete refresh or a net change when an element is not found in the value map. Values are:</p> <ul style="list-style-type: none"> <li>• Complete Refresh <li>• Net Change Refresh <p>The recommended initial value is Complete Refresh. If system performance issues are encountered, set to Net Change Refresh.</p>
MSC_ATP_DEBUG (MSC: ATP Debug Mode)	<p>Indicates whether not to log debug messages to a file. Values are:</p> <ul style="list-style-type: none"> <li>• Debug Only <li>• Debug and Database Trace <li>• Database Trace Only <li>• None <p>The recommended initial value is Debug and Database Trace. If system performance issues are encountered, set to None.</p>
MSC: Memory cleanup window (Days) for GOP WS (MSC_GOP_WS_CLEANUP_WINDOW)	<p>Indicates a number of days. Once this number of days is reached, elements which have not been accessed are removed. It should be a numeric value. This profile option is used for LRU approach.</p> <p>The recommended initial value is 30.</p>
MSC: Organization Translation WSDL URL (MSC_GOP_WS_ORG_TRANS_URL)	<p>Gives the WSDL URL for the Organization Translation Web service.</p> <p>The format is as follows: http://{hostName}:{port}/ODIWebservice-ODIInvoke-context-root/MSC_E1APS_DVMDATAService?wsdl</p> <p>This profile option is mandatory. There is no default value.</p>

Setting Up GOP in EnterpriseOne

To set up GOP in EnterpriseOne:

1. In JDE E1, navigate to Fast Path P99410.
2. On the EnterpriseOne System Control – Revisions page, turn the GOP system constants on by clicking the Yes option.
3. Navigate to Fast Path P34A10.
4. On the Integration Constants page, complete the following fields:
 - Inclusion Version
 - GOP Arrival or Ship Flag
5. Navigate to Fast Path P95400.
6. On the Update Web Service Soft Coding Record page, the Soft Coding Key field should be set to JC34A010.
7. In the Soft Coding Value field, enter a URL to point to the GOP web service's endpoint, for example:

```
<endpoint>http://sdc60027sems.us.oracle.com:7014/OrderPromising-OrderPromisingProject-context-root/OrderPromisingServicePort?WSDL</endpoint>
```
8. Navigate to Fast Path P4210.
9. On the Processing Options page, set up a version of GOP with Global Order Promising Mode by entering 2 in the following field:
Order Promising Blank = No Order Promising 1 = Auto Promising Mode 2 = Global Order Promising Mode

Configuring ODI for GOP

This chapter discusses setting up the ODI web service for Global Order Promising.

This chapter covers the following topics:

- Setting Up ODI Web Service for GOP

Setting Up ODI Web Service for GOP

To set up the ODI web service:

1. In ODI Studio, navigate to E1APSPProject, Common, Packages.
2. Run the CREATEWORKREPTABLES and SYNCHRONIZE XML scenarios and verify their completion.
3. Navigate to E1APSPProject, Variables and set the Default value for the #PVV_OP_WSURL variable.

The default value should be the full URL for the deployed GOP web service. For example:

```
http://slc60036sems.us.oracle.com:7038/OrderPromising-OrderPromisingProject-  
context-root/OrderPromisingServicePort?WSDL
```

4. Navigate to E1APSPProject, Common, Packages, and regenerate the LOADPARAMETERSDATATOWORKREPPKG scenario.
5. In the Master Repository Database Schema, enter a value for Work Repository Schema Name and run the following query:

```
CREATE OR REPLACE SYNONYM WR_DVM for <Work Repository Schema Name>.  
WR_DVM;  
ddATE
```

6. In the External Database Schema, run the following query:

```

CREATE OR REPLACE VIEW E1BASE_NONPLANUOM_V AS
select "ITEM_CODE","UOM" from (SELECT BASE_ITEMCODE.ITEMCODE_DATA as
item_code,BASE_ITEM.SHIPPINGUOM as UOM from BASE_ITEM ,BASE_ITEMCODE
where BASE_ITEM.ITEMPK=BASE_ITEMCODE.ITEMFK
UNION
SELECT BASE_ITEMCODE.ITEMCODE_DATA as item_code,BASE_ITEM.
VOLUMEUOM as UOM from BASE_ITEM ,BASE_ITEMCODE where BASE_ITEM.
ITEMPK=BASE_ITEMCODE.ITEMFK
UNION
SELECT BASE_ITEMCODE.ITEMCODE_DATA as item_code,BASE_ITEM.
WEIGHTUOM as UOM from BASE_ITEM ,BASE_ITEMCODE where BASE_ITEM.
ITEMPK=BASE_ITEMCODE.ITEMFK
UNION
SELECT BASE_ITEMCODE.ITEMCODE_DATA as item_code,BASE_ITEMUOM.TOUOM
as UOM from BASE_ITEMUOM ,BASE_ITEMCODE where BASE_ITEMUOM.
ITEMUOMPK=BASE_ITEMCODE.ITEMUOMFK);

```

7. In the Work Repository Schema, enter a value for External Database Schema Name and run the following query:

```

CREATE OR REPLACE SYNONYM WR_E1BASE_NONPLANUOM FOR <External
Database Schema>.E1BASE_NONPLANUOM_V;

```

In steps 6 and 7, the External Database Schema Name should be the same name as the external database schema you previously created.

Additional Information: For additional information, see *Configuring External Databases*.

Defining User Maintained Data

User-maintained data is data that is needed for planning purposes but is not available in the ERP extracts. In releases prior to 12.2.5.1, user-maintained data was managed using a spreadsheet. Starting with the 12.2.5.1 release this data is maintained using the Manage Integration Parameters user interface.

This chapter covers the following topics:

- User-Maintained Data
- Publishing User-Maintained Data
- Manage Integration Parameters User Interface

User-Maintained Data

You can maintain data in the Manage Integration Parameters UI which can be used to publish the data to a flat file. User-maintained data can be useful for:

Data which is needed in Oracle VCP, but not present in the ERP extracts.

Data which you prefer to represent at the entity level rather than the global level.

Data published from the Manage Integration Parameters UI must be uploaded to the same directory as the ERP extracted data.

To access the Manage Integration Parameters user interface, navigate to Advanced Supply Chain Planning, Collections, JD Edwards EnterpriseOne, Manage Integration Parameters.

Note: Data published from the Manage Integration Parameters UI must be uploaded to the same directory as the ERP extracted data.

Publishing User-Maintained Data

The data that is entered into the Manage Integration Parameters UI must be published

and then uploaded to the same directory as the ERP extracted data. The Publish button in the Manage Integration Parameters UI exports the data entered into the Manage Integration Parameters UI into a zip file. The zip file contains a flat file for each entity's data.

To Publish data:

1. Save any unsaved data.
2. Select the Publish button
3. If you want to collect all the files contained within the zip file you can save the zip file directly to the same directory as the extracted ERP data.
4. If you want to collect a subset of the files contained within the zip file:
 - Download the zip file to a temporary directory and extract the zip file
 - Select the desired files and compress them into a zip file.
 - Upload the zip file to the same directory as the extracted ERP data.

Manage Integration Parameters User Interface

Enter integration parameters, cross reference information and supplemental data using the Manage Integration Parameters user interface. You only need to populate the entities that are applicable to your integration. For example, if you are only installing Demand Management, you don't need to set up Resource Groups. When using the Manage Integration Parameters user interface, you must select the applicable JDE E1 instance.

Parameters Tab

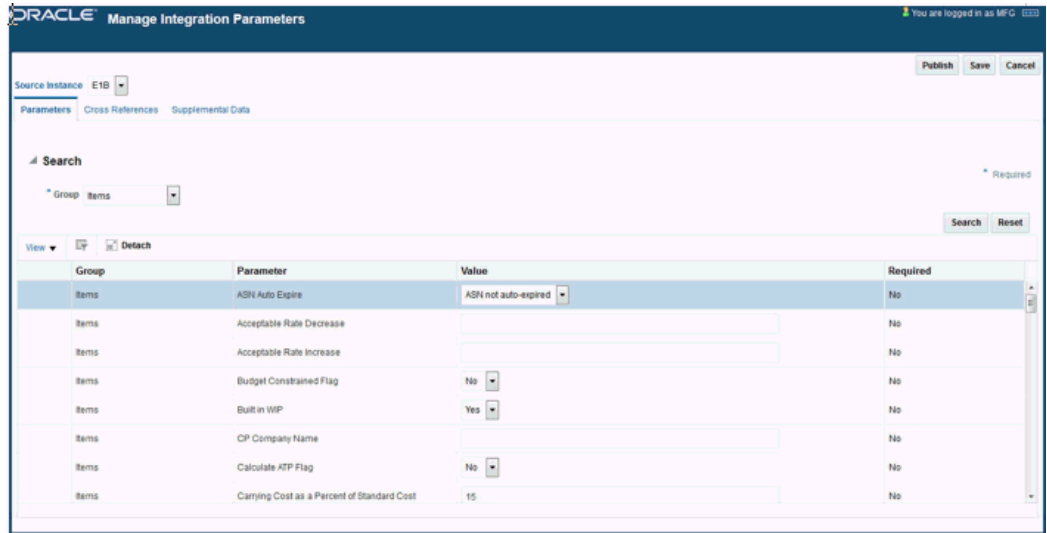
Parameters define the valid and default values used in the integration. Some parameters define how the integration should operate, such as delimiters used for concatenation or transportation costs.

Other parameters are placeholders for data that is absent from a JDE E1 entity. In this case the parameter defines a global value that is applied for all such missing entities.

For example, JDE E1 does not have a Cost percentage for an over-utilized resource. However, this field is available in VCP. The Resource Overutilization Cost parameter defines a value that can be used for all resources.

The JDE E1 integration parameters have been arranged into groups. For example, all the Item related parameters have been grouped under "Items". This allows you to easily search for parameters related to a specific area within planning.

When you enter a value other than the default value, an asterisk appears in the row header to indicate the value has been changed.



Additional Information: For additional information on the available parameters, see Appendix A: User Maintained Data - Parameters.

Cross References Tab

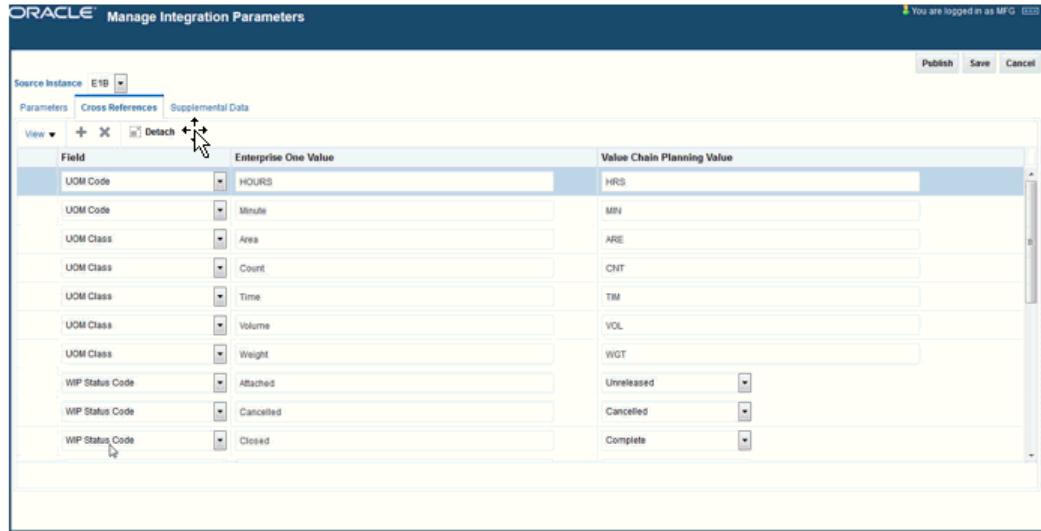
The Translation Table specifies key field translations.

Some VCP fields do not accommodate the full length of the field as it exists in the source system, such as JD E1. The Cross References table defines a mapping between the value in the source system and VCP.

For instance, the organization code in VCP has a maximum length of seven characters, but in JDE E1, the branch code can be longer. An entry in the Cross References table for branches with a code longer than seven characters is required. The branch code CRANSTON is longer than seven characters, so a translation is required. The row in the Cross References UI table would be as follows:

- Field: Organization Code
- Enterprise One Value: CRANSTON
- Value Chain Planning Value: CRAN1

The Translation Table is also used when a user-defined value in JDE E1 needs to be translated to the appropriate value for VCP, for example, Work Order Status.



Translation Table usage includes:

Field	VCP Length	JDE E1 Length	
Calendar Code	14	16	
Category Set Name	30	50	
Forecast Designator	10	11+	
Organization Code	7	11	
Resource Code	10	12	
UOM Class	ARE	Not a length issue, just translating from E1 literals to VCP literals	
	CNT		
	TIM		Area
	VOL		Count
	WGT		Time
		Volume	
		Weight	

Field	VCP Length	JDE E1 Length
UOM Code	3	E1 length 2 Needed for Hours/Minute used in Manufacturing.xml
WIP STATUS CODE		Convert user defined E1 Work Order Status codes to VCP status codes.

Supplemental Data Tab

The supplemental data tab allows you to enter additional data that is not included in the current JDE E1 extracts. You can enter data for the following entities:

- Shift Information
- Shift Information Details
- Resource Groups
- Resource Group Details
- Forecast Designators
- Setup Definitions
- Setup Allocations
- Setup Transitions
- Standard Operation Resources
- Shipping Methods
- Standard UOM Conversions

When you select the desired entity and press the Search button, the table is refreshed to display the column headings applicable to the selected entity.

The Hash symbol (#) indicates the columns whose value combination must be unique; otherwise, you will receive a duplicate row message. For example, for the Forecast Designator entity, the Designator and Organization Code value combination must be unique for each row. Meaning, you couldn't have two rows that had a Forecast Designator of "FD1" and an Organization of "M1".

An Asterisk (*) in the column heading indicates the field is required.
 Information on each of the available entities is described below.

Shift Information

In JD Edwards EnterpriseOne, you can associate shifts with resources, but you might want to provide more information about the shift for planning purposes. It is recommended that you should populate the following table for all shifts.

The screenshot shows the Oracle Manage Integration Parameters web interface. The 'Supplemental Data' tab is active, and the 'Shift Information' entity is selected in the search dropdown. The table below is displayed with the following data:

#Branch	*Calendar Code	*Shift Number	*Shift Name	*Shift Description
TORONTO	M-TORONTO	3	3	Third Shift
TORONTO	M-TORONTO	2	2	Second Shift
TORONTO	M-TORONTO	1	1	First Shift
CRANSTON	M-CRANSTON	3	3	Third Shift
CRANSTON	M-CRANSTON	2	2	Second Shift
CRANSTON	M-CRANSTON	1	1	First Shift

PeopleSoft users should create a <null> record for each calendar. This information can be maintained in either PeopleSoft or via the Shift Information entity.

The following table displays Shift Information data fields:

Field	Key	Type	Description	Where Used
Calendar	Y	Text		WorkPatterns.dat
Calendar Code	Y	Text		WorkPatterns.dat

Field	Key	Type	Description	Where Used
Shift Number	Y	Integer	The identification of a shift. This value can be null. There should be one null shift for each calendar.	WorkPatterns.dat
Shift Name		Numeric	Shift number	WorkPatterns.dat
Shift Description		Text	Description	WorkPatterns.dat

Shift Information Details

Use the Shift Information Details entity to define the start and end times for shifts.

The screenshot shows the Oracle Manage Integration Parameters interface. The top navigation bar includes 'ORACLE Manage Integration Parameters' and a user login indicator 'You are logged in as MFG 033'. Below the navigation bar, there are tabs for 'Parameters', 'Cross References', and 'Supplemental Data'. A search bar is present with a dropdown menu set to 'Entity: Shift Information Details'. Below the search bar, there is a table with the following data:

#Branch	*Calendar	*Shift Number	*From Time	*To Time
TORONTO	M-TORONTO	3	23:00:00	07:00:00
TORONTO	M-TORONTO	2	15:00:00	23:00:00
TORONTO	M-TORONTO	1	07:00:00	15:00:00
CRANSTON	M-CRANSTON	3	23:00:00	07:00:00
CRANSTON	M-CRANSTON	2	15:00:00	23:00:00
CRANSTON	M-CRANSTON	1	07:00:00	15:00:00

PeopleSoft users should create a <null> record for each calendar. This information can be maintained in either PeopleSoft or via the Shift Information Details entity.

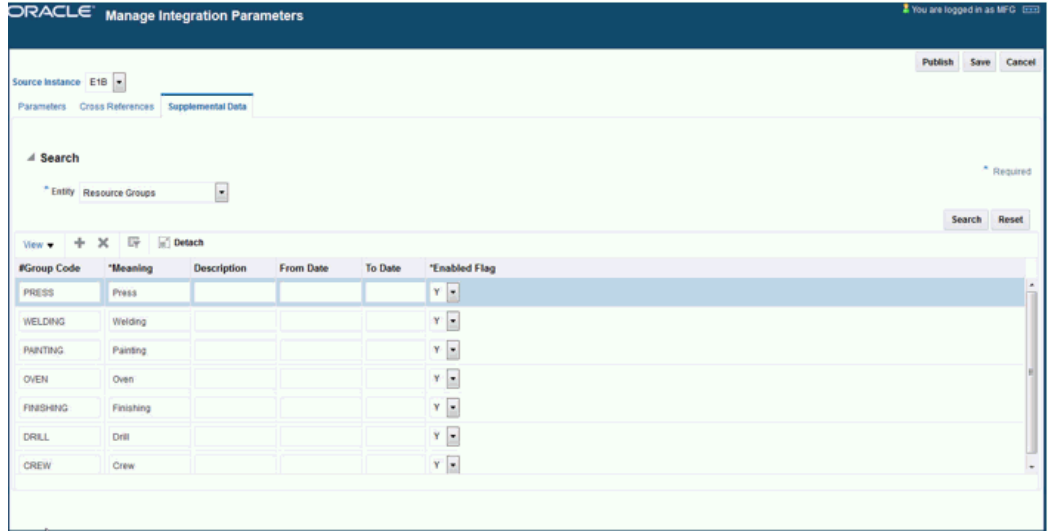
The following table displays Shift Information Details data:

Field	Key	Type	Description	Where Used
Branch	Y	Text		ShiftTime.dat
Calendar	Y	Text		ShiftTime.dat
Shift Number	Y	Integer	The identification of a shift. This value can be null. There should be one null shift for each calendar.	ShiftTime.dat
From Time		Time	The start time for this shift	ShiftTime.dat
To Time		Time	The end time for this shift	ShiftTime.dat

Resource Groups

This entity is not applicable to PeopleSoft-Demantra users or to JDE users who are only implementing Demantra.

Use the Resource Groups entity to define resource groups for VCP planning.



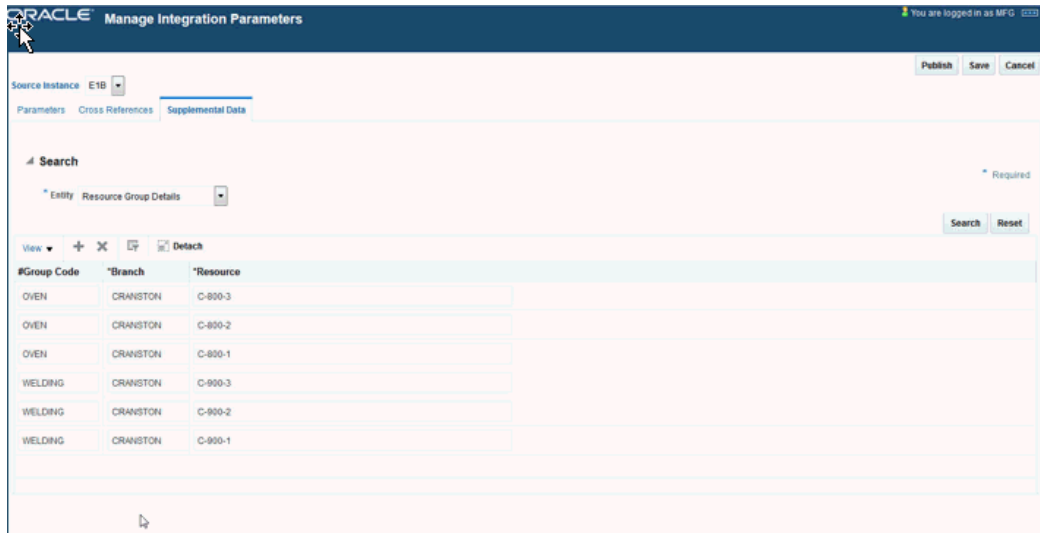
The following table displays Resource Groups data:

Field	Key	Type	Description	Where Used
Group Code	Y	Text	The Resource Group Code	DepartmentResources.dat ResourceGroups.dat
Meaning		Text	Resource Group Meaning	
Description		Text	Resource Group Description	
From Date		Date	From Date <default null>	
To Date		Date	To Date <default null>	
Enabled Flag		Text	Values are: Y = Yes N=No	

Resource Group Details

This section is not applicable to PeopleSoft-Demantra users or to JDE users who are only implementing Demantra.

Use the Resource Group Details entity to associate resources with resource groups.



The following table displays Resource Group Details data:

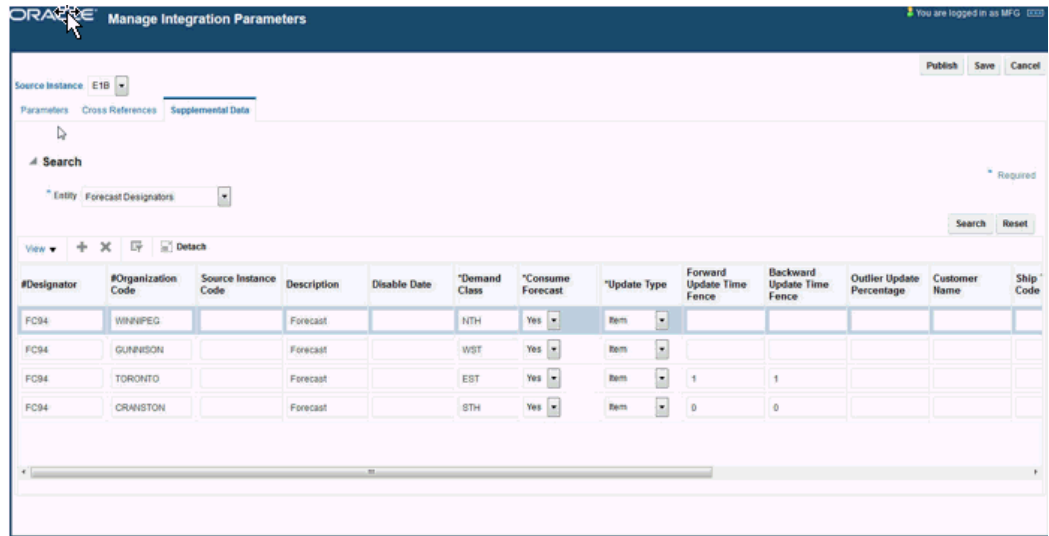
Field	Key	Type	Related Entities	Description	Where Used
Group Code	Y	Text		The Resource Group Code	DepartmentResources.dat ResourceGroups.dat
Branch	Y	Text			
Resource	Y	Text	MachineCode, CrewCode, ToolCode in Manufacturing.xml	The machine associated with this resource group.	

Forecast Designators

This section is not applicable to PeopleSoft-Demantra users or to JDE users who are

only implementing Demantra.

Use the Forecast Designators entity to provide information about importing forecasts from JDE E1.



If VCP gets forecasts from Demantra, and this data is not imported into VCP from JDE E1, the Forecast Designators table does not need to be populated.

The following table displays Forecast Designators data:

Field	Description
Designator	Forecast name
Organization Code	Organization
Source Instance Code	Instance code defined on the planning server
Description	Description
Disable Date	Disables the date for the forecast designator
Demand Class	Name or identifier of a demand class

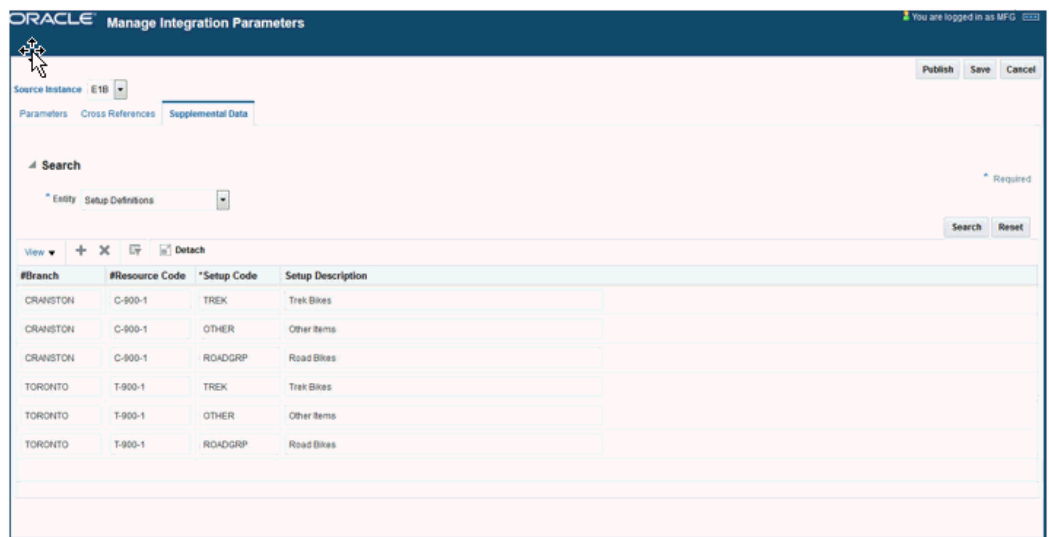
Field	Description
Consume Forecast	This field specifies whether or not forecast consumption is required. Values are: Yes No
Update Type	Forecast update type code. Values are: Ship To Bill To Customer Item
Forward Update Time Fence	Forward consumption days
Backward Update Time Fence	Backward consumption days
Outlier Update Percentage	Forecast outlier update percentage. The value of this field should be less than 100.
Customer Name	Customer Name
Ship To Site Code	Forecast ship code
Bill To Site Code	Forecast bill code
Bucket Type	Values are: Days Weeks Periods
Forecast Set	Forecast set name. The value of this field is determined by the forecast versioning architecture.

Field	Description
Probability	Forecast probability

Setup Definitions

This section is not applicable to PeopleSoft-Demantra users or to JDE users who are only implementing Demantra.

This table defines a resource's setups and populates the MSC_ST_RESOURCE_SETUPS table.



The following table displays Setup Definitions data:

Field	Key	Type	Description	Where Used
Branch	Y	String	Branch Code	MSC_ST_RESOURCE_SETUPS
Resource Code	Y	String	Resource Code	MSC_ST_RESOURCE_SETUPS

Field	Key	Type	Description	Where Used
Setup Code	Y	String	The Setup Code. An attribute significant to changeovers. For example, 100mm.	MSC_ST_RESO URCE_SETUPS
Set Up Description		String	The set up description	MSC_ST_RESO URCE_SETUPS

Setup Allocations

This section is not applicable to PeopleSoft-Demantra users or to JDE users who are only implementing Demantra.

Use the following table to define the Setup Code for Routing Operations. Changeovers can be defined at the item or category level.

The system checks to see if a setup allocation has been defined for an item. If a setup allocation has not been defined at the system level, the system looks for a record with an item category that is the same as the Set Up Category parameter.

Using an item category enables you to maintain one record for a group of common products, which reduces maintenance requirements.

The screenshot shows the Oracle Manage Integration Parameters web interface. The 'Supplemental Data' tab is active, displaying a table of Setup Allocations. The table has columns for #Branch, Change Over Category, *Item, *Operation Sequence, *Resource, and *Setup Code. Three rows of data are visible, all for the CRANSTON branch and ROADGRP setup code.

#Branch	Change Over Category	*Item	*Operation Sequence	*Resource	*Setup Code
CRANSTON		9797000	30	C-900-1	ROADGRP
CRANSTON		9797701	30	C-900-1	ROADGRP
CRANSTON		9797702	30	C-900-1	ROADGRP

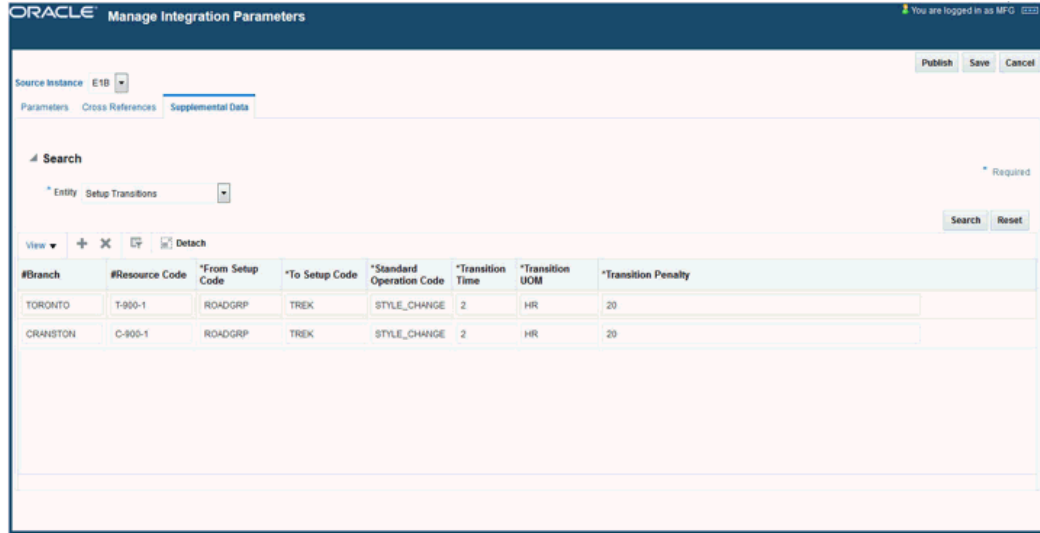
The following table displays Setup Allocations data:

Field	Key	Type	Description	Where Used
Branch	Y	String	Branch Code	
Change Over Category	Y	String	The category codes for this setup.	Specify Change Over Category or Item
Item	Y	String	The item code for this setup.	Specify Change Over Category or Item
Operation Sequence	Y	Number	The sequence code that identifies the routing operation.	
Setup Code	Y	String	The Setup Code associated with records that fit the appropriate criteria.	RoutingOperation.n.dat

Setup Transitions

This section is not applicable to PeopleSoft-Demantra users or to JDE users who are only implementing Demantra.

This table defines a resource's setups and populates the MSC_ST_SETUP_TRANSITIONS table.



The following table displays Setup Transitions data fields:

Field	Key	Type	Description	Where Used
Branch	Y	String	Branch Code	MSC_ST_SETUP_TRANSI TIONS
Resource Code	Y	String	Resource Code	MSC_ST_SETUP_TRANSI TIONS
From Setup Code	Y	String	The From Setup Code	MSC_ST_SETUP_TRANSI TIONS
To Set Up Code	Y	String	The To Setup Code	MSC_ST_SETUP_TRANSI TIONS
Standard Operation Code		String	An operation associated with this transition	MSC_ST_SETUP_TRANSI TIONS
Transition Time		Real	The time for the setup	MSC_ST_SETUP_TRANSI TIONS
Transition UOM		String	The unit of measure for the transition	MSC_ST_SETUP_TRANSI TIONS

Field	Key	Type	Description	Where Used
Transition Penalty		Real	Penalty	MSC_ST_SETUP _TRANSI TIONS

Standard Operation Resources

This section is not applicable to PeopleSoft-Demantra users or to JDE users who are only implementing Demantra.

The screenshot shows the Oracle Manage Integration Parameters interface. The 'Supplemental Data' tab is active, displaying a table with the following data:

#Branch	#Resource	*Standard Operation Code	*Resource Usage	*Resource Units	*UOM Code	*Schedule Flag
ORANSTON	MECHANIC	OTHER_CHANGE	1	1	HR	Y
ORANSTON	MECHANIC	STYLE_CHANGE	2	2	HR	Y
TORONTO	MECHANIC	OTHER_CHANGE	1	1	HR	Y
TORONTO	MECHANIC	STYLE_CHANGE	2	2	HR	Y

The following table displays Standard Operation Resources data fields:

Field	Key	Type	Description	Where Used
Branch	Y	String	Branch Code	MSC_ST_STD_O P_RESOURCES
Resource_code	Y	String	Resource code	MSC_ST_STD_O P_RESOU RCES
Standard_operat ion_code	Y	String	Standard operations code	MSC_ST_STD_O P_RESOU RCES
Resource_usage		Real	Resource usage rate	MSC_ST_STD_O P_RESOU RCES

Field	Key	Type	Description	Where Used
resource_units		Integer	Number of resource units assigned	MSC_ST_STD_O P_RESOU RCES
uom_code			Unit of measure for resources	MSC_ST_STD_O P_RESOU RCES
schedule_flag			Resource is required for scheduling	MSC_ST_STD_O P_RESOU RCES

Shipping Methods

This section is not applicable to PeopleSoft-Demantra users or to JDE users who are only implementing Demantra.

This entity defines additional information for transportation between branches and from branches to customers.

This table augments the inter-branch information stored in Distribution.xml and the branch to customer information stored in Customers.xml. This entity does not replace the data in these files. A lane must exist in the source xml files to form a valid lane. The data in this entity alone will not form a valid lane.

The screenshot shows the Oracle Manage Integration Parameters interface. The 'Supplemental Data' tab is active, and the 'Entity' is set to 'Shipping Methods'. The table below displays the data fields and their values for four shipping methods.

#From Branch	To Branch	*To Customer	*Transport Mode	Transit Time	Time UOM Code	Weight Capacity	Weight UOM Code	Volume Capacity	Volume UOM	Cost Per Weight Unit	Cost Per Volume Unit	Transp. Capacity Over-ut cost
CRANSTON		1117	3	2	Days							
CRANSTON		1117	2	4	Days							
TORONTO		1118	3	3	Days	8000	LB	20000	FC	5		
TORONTO		1118	2	5	Days	8000	LB	20000	FC	5		

The following table displays Shipping Methods data fields:

Field	Key	Type	Related Entities	Description	Where Used
From Branch	Y	Text	Base.xml: branch: branchCode	The source branch, part of the join with the XML files	ShipmentMethod.dat (Sales and Distrib'n)
To Branch	Y	Text	Base.xml: branch: branchCode	The destination branch, part of the join with the Distribution.xml file	ShipmentMethod.dat (Distribution)
To Customer	Y	Text	Customer.xml: customer: customerCode	The customer, part of the join with the Customer.xml file	ShipmentMethod.dat (Sales)
Transport Mode	Y	Text	Distribution.xml:lane: transport Mode: transportModeCode	The transport mode, part of the join with the XML files.	ShipmentMethod.dat (Sales and Distrib'n)
Transit Time		Real		The time taken on this lane for this transport mode	ShipmentMethod.dat (Sales and Distrib'n)
Time UOM Code		Text		The time unit of measure for the transit time	ShipmentMethod.dat (Sales and Distrib'n)

Field	Key	Type	Related Entities	Description	Where Used
Weight Capacity		Real		The daily weight capacity for this lane/transport mode combination.	ShipmentMethod.dat (Sales and Distrib'n)
Weight UOM Code		Text		The UOM association with Weight Capacity	ShipmentMethod.dat (Sales and Distrib'n)
Volume Capacity		Real		The daily volume capacity for this lane/transport mode combination.	ShipmentMethod.dat (Sales and Distrib'n)
Volume UOM Code		Text		The UOM association with Volume Capacity	ShipmentMethod.dat (Sales and Distrib'n)
Cost per Weight Unit		Real		The cost for each weight UOM	ShipmentMethod.dat (Sales and Distrib'n)
Cost per Volume Unit		Real		The cost for each volume UOM	ShipmentMethod.dat (Sales and Distrib'n)
Transport Capacity Over utilization cost		Real		The cost associated with exceeding the capacity constraint	ShipmentMethod.dat (Sales and Distrib'n)

Standard UOM Conversions

Use the Standard UOM Conversions table to specify non-item based UOM conversions.

This information can be maintained in either PeopleSoft or via the Standard UOM Conversions entity.

The screenshot shows the Oracle Manage Integration Parameters interface. At the top, there is a header with the Oracle logo and the text "Manage Integration Parameters". Below the header, there is a navigation bar with tabs for "Parameters", "Cross References", and "Supplemental Data". The "Supplemental Data" tab is selected. A search bar is visible with the text "Search" and a dropdown menu showing "Entity Standard UOM Conversions". Below the search bar, there is a table with the following data:

#UOM Code	#UOM Class	*Conversion
Dozen	Unit	12
Each	Unit	1
EA	Unit	1

The following table displays Standard UOM Conversions data fields:

Field	Key	Type	Description
UOM Code	Y	String	To UOM
UOM Class	Y	String	The class of UOM conversion
Conversion Factor		Real	The number of "from UOM" to "To UOM". For instance, from EA to Dozen, the conversion factor would be 12.

Running JDE or PeopleSoft VCP Integration

This chapter provides information about accessing and running JD Edwards EnterpriseOne or PeopleSoft collections. PeopleSoft users are restricted to those relating to Demantra Demand Management and have their own menu containing this restricted set of options.

This chapter assumes that the JDE or PeopleSoft extracts have been performed or are part of a pre-process script. The import processes is run separately or as part of a post-process.

This chapter covers the following topics:

- Collections and Publish Options
- Accessing the Collections Menu
- Optional User-Defined Customizations

Collections and Publish Options

The collections and publish options include:

Menu Item	Required Responsibility
Collect Planning Data	Advanced Supply Chain Planner
Publish Planning Results	Advanced Supply Chain Planner
Collect Sales History	Demand Management System Administrator
Collect Price List and UOM	Demand Management System Administrator
Publish Forecast to Source System	Demand Management System Administrator

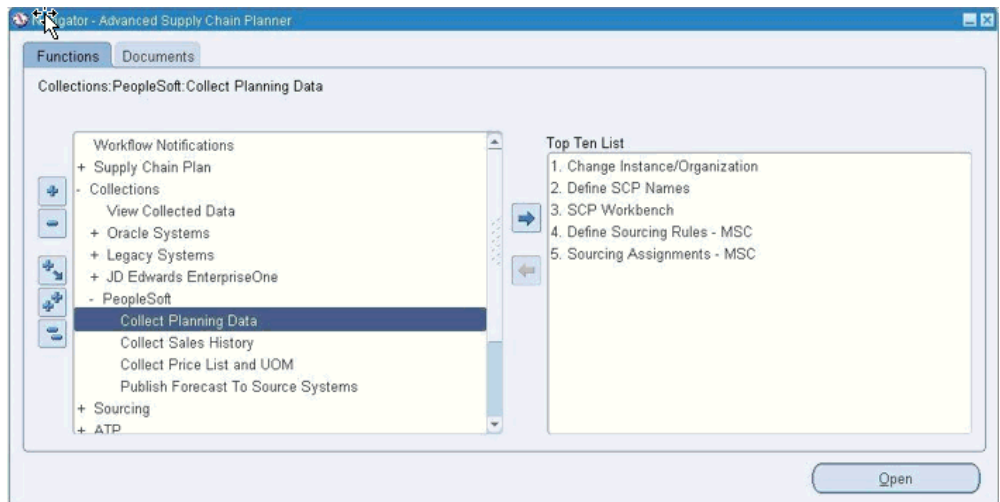
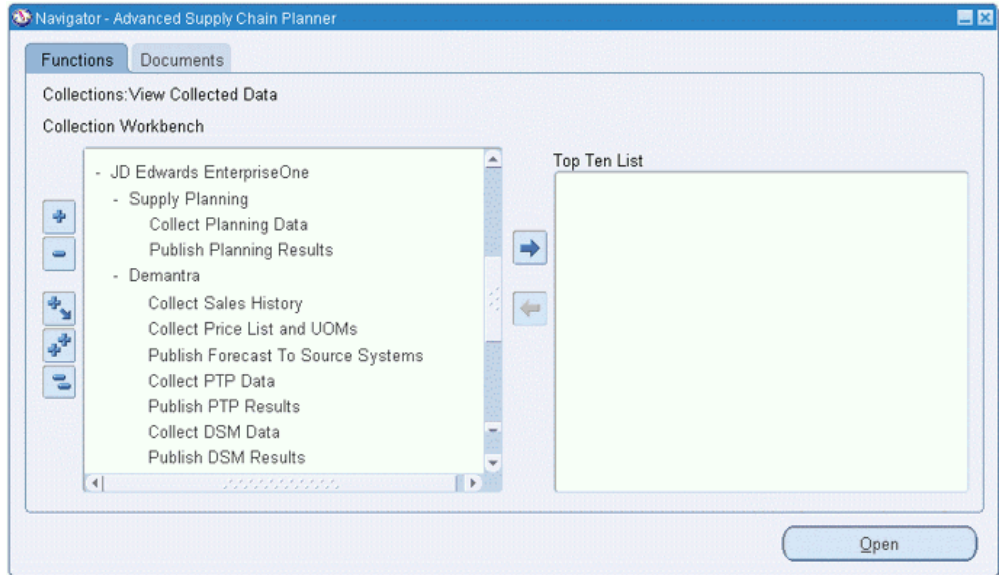
Menu Item	Required Responsibility
Collect PTP Data	Demand Management System Administrator
Publish Predictive Trade Planning Results	Demand Management System Administrator
Collect DSM Data	Demand Management System Administrator
Publish Deduction and Settlement Management Results	Demand Management System Administrator

Accessing the Collections Menu

To access the collections menu:

1. Log in to Oracle EBS using the Advanced Supply Chain Manager responsibility.
2. In the Navigator, click Collections.
3. Click JD Edwards EnterpriseOne or PeopleSoft.

The collections menu appears, as seen here below:



The following table details the collection menu items:

Menu Item	Description
Collect Planning Data	This collection launches the Base Pack Data Collection process.
Publish Planning Results	This collection publishes the results of the planning process to the Oracle ERP system.

Menu Item	Description
Collect Sales History	This collection launches the Sales History data collection process and subsequent loads the data into Demantra.
Collect Price List and UOM	This collection launches the data collection process for Price List and UOM into Demantra.
Publish Forecast to Source System	Publishes the results of the forecast generation process to the ERP system
Collect PTP Data	This collection gathers data used for Predictive Trade Planning.
Publish PTP Results	This collection publishes Predictive Trade Planning results to the ERP system.
Collect DSM Data	This collection gathers and loads data used for Deduction and Settlement Management Data.
Publish DSM Results	This collection publishes the Deduction and Settlement Management results to the ERP system.

The following table provides further information about the collection menu items that pertain to Demantra:

Menu Item	Demantra Workflow
Collect Sales History	EBS Full Download Note: Demantra workflow is launched if Auto download is set to Yes.
Publish Forecast to Source System	AIA-Forecast_Export

Menu Item	Demantra Workflow
Collect Predictive Trade Planning Data Parameters used in this concurrent program are: <ul style="list-style-type: none"> • List Price • Item Cost • Price History 	Demantra workflow is launched when each parameter is set to Yes. List Price: AIA-E1ToPTP_PromoPrice_Download Item Cost: AIA-E1ToPTP_PromoCost_Download Price History: AIA-E1ToPTP_PriceHistory_Download
Publish Predictive Trade Planning Results	AIA-PTPTtoE1_UploadPromotionPrices
Collect Deduction and Settlement Management Data Parameters used in this concurrent program are: <ul style="list-style-type: none"> • Load Payment Confirmation • Load Deductions 	Demantra workflow launched when each respective parameter is set to Yes. Load Payment Confirmation: AIA-E1toPTP_APConfirm_Import Load Deductions: AIA-E1ToDSM_NewDeduction_Download
Publish Deduction and Settlement Management Results Parameters used in this concurrent program: <ul style="list-style-type: none"> • Publish Claims • Publish Deduction Dispositions 	Demantra Workflow launched when each respective parameter is set to Yes. Publish Claims: AIA-DSMtoE1_Claim_Export Publish Deduction Dispositions: AIA-DSMtoE1_Deduction_Export

Demantra Workflow Details:

The following is additional information relating to the Demantra Work Flows:

List Price: AIA-E1ToPTP_PromoPrice_Download

This workflow loads list price information into the List Price series. ERP provides this information with an Effective Date and an Expiration Date. During load processing, the date range is converted into individual time periods.

For example, a weekly model with a date range of January 1, 2009 through December 31, 2009 is converted into 52 individual week entries. If the Customer Number field is null, the List Price applies to all customers. The workflow first loads all global prices where the customer number is null and then overlays any customer-specific prices on

top of the global prices.

Item Cost: AIA-E1ToPTP_PromoCost_Download

This workflow loads the item cost information (COGS) into the COGS series. COGS information from JD Edwards EnterpriseOne does not include Effective or Expiration Dates. When received, it is assumed to take effect immediately and stays in effect through the last future date for which data is stored in the application.

JD Edwards EnterpriseOne does not have the capability to define customer- specific COGS values. The COGS value applies to all customers.

Price History: AIA-E1ToPTP_PriceHistory_Download

This workflow loads the actual amount spent for off-invoice promotions or accrued for bill-back promotions. The workflow loads the price history data into the OI Amt series for Off-invoice promotions and into the BB Amt series for Bill-back promotions.

AIA-PTPToE1_UploadPromotionPrices

This workflow sends the promotional pricing information to JD Edwards EnterpriseOne. Promotions with an Off-Invoice or Bill-Back payment type are sent to EnterpriseOne. Promotions with fixed cost or scan-down allowance are not sent. Promotion with the following statuses are sent to JD Edwards EnterpriseOne:

- Approved
- Committed
- Partial Paid
- Paid
- Closed

Promotions in Unplanned or Planned statuses are not sent to JD Edwards EnterpriseOne.

Load Payment Confirmation: AIA-E1toPTP_APConfirm_Import

This workflow loads processed payments from JD Edwards EnterpriseOne and updates the corresponding Check Request in DSM to indicate that the payment has been issued.

Load Deductions: AIA-E1ToDSM_NewDeduction_Download

This workflow loads new Deductions from JD Edwards EnterpriseOne into DSM as Deduction type settlements.

Publish Claims: AIA-DSMToE1_Claim_Export

This workflow extracts check requests for approved claims from Demantra, to be loaded into JD Edwards EnterpriseOne.

Publish Deduction Dispositions: AIA-DSMToE1_Deduction_Export

This workflow extracts approved and denied deductions from DSM, to be loaded into JD Edwards EnterpriseOne.

Optional User-Defined Customizations

In certain circumstances, you might require further customization. For example, you might want to:

- Incorporate information that is not present in the ERP systems.
- Customize operations and routings to meet planning requirements.
- Adjust costing information to meet planning requirements.

To accommodate the need for further customization, VCP Base Pack Integration supports user-defined extensions by two methods:

- ODI Packages

Both pre and post ODI packages are supported

- PLSQL procedures

These procedures can be called before or after ODI transformations.

These user-defined extension options are available on all menu functions of this integration. The ODI package and PLSQL procedures run at the beginning and end of each integration flow as described in the following table:

Collection Process	Publish Process
PLSQL pre-process procedure	PLSQL pre-process procedure
Pre-process ODI hook	Pre-Process ODI hook
Main ODI processing	Associated VCP processing
Associated VCP processing	Main ODI processing
Post-process ODI hook	Post-process ODI hook
PLSQL post-process procedure	Named PL/SQL post-process procedure

These extensions options run on the ODI server. For JDE E1 users, UBE processing options on the JDE E1 server can be used to define pre-process and post-process scripts for additional extensions.

PLSQL Procedures

The following table lists the PLSQL procedures that are called in the integration processes and can be customized:

Menu Entry	Pre Process Package	Post Process Package
Collect Planning Data	COL_PLAN_DATA_PRE_PROCESS	COL_PLAN_DATA_POST_PROCESS
Publish Planning Results	PUB_PLAN_RES_PRE_PROCESS	PUB_PLAN_RES_POST_PROCESS
Collect Sales History	COL_SALES_HST_PRE_PROCESS	COL_SALES_HST_POST_PROCESS
Collect Price List & UOM	COL_PRC_UOM_PRE_PROCESS	COL_PRC_UOM_POST_PROCESS
Publish Forecast	PUB_FCST_PRE_PROCESS	PUB_FCST_POST_PROCESS
Collect PTP Data	COL_PTP_DATA_PRE_PROCESS	COL_PTP_DATA_POST_PROCESS
Publish PTP Results	PUB_PTP_RES_PRE_PROCESS	PUB_PTP_RES_POST_PROCESS
Collect DSM Data	COL_DSM_PRE_PROCESS	COL_DSM_POST_PROCESS
Publish DSM Results	PUB_DSM_PRE_PROCESS	PUB_DSM_POST_PROCESS

ODI packages can return SUCCESS or ERROR codes. For example:

```
:RETCODE := MSC_UTIL.G_ERROR  
:RETCODE := MSC_UTIL.G_SUCCESS
```

Error messages should be passed back through the ERRBUF variable.

For example: :ERRBUF := 'Error in Launching the request'

ODI Packages

You can customize the following ODI packages:

- PREPROCESSHOOKPKG

- POSTPROCESSHOOKPKG

The same ODI package is run regardless of the business function that is called. In order to allow the ODI packages to know which JD Edwards EnterpriseOne instance is transformed and which business process has run, the ODI packages the following parameter is used:

<E1 Instance Code>:<concurrent process ID>

where the concurrent process ID can be obtained from the following table which uses E1B as the JDE E1 instance:

Concurrent Program	Process ID	Example
Collect Planning Data	1	E1B:1
Publish Planning Results	2	E1B:2
Collect Sales History	3	E1B:3
Collect Price List & UOM	4	E1B:4
Publish Forecast	5	E1B:5
Collect PTP Data	6	E1B:6
Publish PTP Results	7	E1B:7
Collect DSM Data	8	E1B:8
Publish DSM Data	9	E1B:9

ODI packages support Jython which enables you to customize the following:

- Operating system commands
- File access
- Internet
- Database connections
- Mail

User Maintained Data Parameters

Integration Parameters

The following table provides information about integration parameters. The first table is required for both Demantra and Planning implementations; the second table only applies to Planning implementations (values are ignored for Demantra integration).

The following table of parameters is applicable to both Demantra and Planning:

Parameter ID	Description	Default Value	Format	Where Used
Source_Instance	The value of the source instance. Refer to Legacy collections in ASCP User Guide		Text	All legacy files
ATO_Forecast	Values are: 1: Consume 2: Consume and derive 3: None Refer to ASCP User Guide	2	Integer	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Base_Effective_Date	The date to be used for any effective dates required by VCP but not effective dated in E1/PSFT THIS MUST BE A MONDAY	YYYY-MM-DD		System Wide
Base_UOM_Count	The unit of measure used as the base for counts.		Valid UOM	UOM.dat
Base_UOM_Volume	The unit of measure used as the base for Volumes.		Valid UOM	UOM.dat
Base_UOM_Weight	The unit of measure used as the base for Weights.		Valid UOM	UOM.dat
Branch_Business_Group_Category	The category code used to determine a branch's business group.		String	TradingPartner (Organization)
Branch_Legal_Entity_Category	The category code used to determine a branch's legal entity.		String	TradingPartner (Organization)
Branch_Operating_Unit_Category	The category code used to determine a branch's operating unit.		String	TradingPartner (Organization)

Parameter ID	Description	Default Value	Format	Where Used
Calendar_End_Offset	The end date of calendars. The value should be longer than the longest plan in Oracle VCP.	+750	Integer: >0	Calendar.dat: Calendar End Date
Calendar_Override_Flag	Whenever a calendar has changed or added in E1, user has to set this value to Y, otherwise N	N	Y/N	Calendars
Customer_Class_Code_Category	The Customer Category to be used for Customer Class		Valid category	TradingPartner.dat- Customers
Days_Off	The non working days in week.	2	Integer: <7	WorkDayPatterns.dat
Days_On	The working days in a week.	5	Integer: <7	WorkDayPatterns.dat
Default_UOM_Type			Valid UOM type	
Demand_Class_Category	The customer category used for Demand Class.		Valid category	TradingPartner.dat Demandclasses.dat DemHistory.dat
Demantra_Field_Delimiter	The delimiter used to combining multiple fields to form a single value for Demantra.		Char	Demantra flat files

Parameter ID	Description	Default Value	Format	Where Used
Demantra_Target_Date_Format	The format of the dates in the transformed Sales order history file expected by Demantra (DemHistory.dat). This has to be set to DD-MON-YYYY	YYYY-MM-DD	String	Demantra flat files
E1_Extract_Delimiter	<p>The delimiter used in the JD Edwards EnterpriseOne extracts to form category groups, operations codes, and other concatenated strings.</p> <p>This parameter should not be one of the following:</p> <ul style="list-style-type: none"> : (Demantra concatenation) ~ (flat file delimiter) ' " * used by sql & > < 		Char	Wherever JD Edwards EnterpriseOne extracts concatenated strings.

Parameter ID	Description	Default Value	Format	Where Used
Field_Delimiter	Delimiter used when combining multiple fields together to form a single value.	+	Char The value cannot be : or a Demantra restricted character	Whenever multiple fields are combined to form single field.
Flat_File_Quote_Delimiter	The quote character used in flat files. This parameter must correspond with JD Edwards EnterpriseOne/PeopleSoft integration constants.	""""	String	
Item_Default_Category	The item category group used to determine the category_name for items.		Valid category	Item.dat CategorySet.dat

Parameter ID	Description	Default Value	Format	Where Used
Item_Format	<p>To load the data into VCP using different Item formats.</p> <p>The following are the valid Item formats.</p> <p>1 ItemCode</p> <p>2 ItemName</p> <p>3 AlternateItemId</p> <p>The default value is ItemCode.</p> <p>Reserved for Future enhancement</p>		<p>ItemCode</p> <p>ItemName</p> <p>AlternateItemId</p>	<p>All tables referencing Item</p> <p>Reserved for Future enhancement</p>
Master_Branch	<p>This parameter is used when a branch code is needed. For example, \; calendar codes for suppliers and customers which have a branch code in JD Edwards EnterpriseOne but not in Oracle EBS.</p> <p>All items used by forecasting or planning must be set up in this branch, with category codes associated to items.</p>		<p>A JD Edwards Enterprise One branch code</p>	<p>CalendarAssignment-SupplierShip, item, Trading Partners - Customers, Trading Partners - Organization, Trading Partners - Suppliers</p>

Parameter ID	Description	Default Value	Format	Where Used
Operating_Unit_Category	The customer category that contains the Operating Unit.		Valid category	Demand History, List Price, Price History, Trading Partner Site - Customer
Price_List_Name	The name associated with the price list generated from Customer.xml.	STANDARD_PRICE	String	Price List
Quarterly_Calendar_Type	The quarterly calendar type.	3	Values are: 1: 445 2: 544 3: Month 4: 13 Periods	Calendar.dat: Quarterly Calendar Type
Sales_Channel_Category	The customer category that contains the Sales Channel.		Valid Category	Sales Channel.dat DemHistory.dat
Use_Branch_based_Categories	This parameter specifies whether or not branch categories are associated with items in the branch.	No	Yes/No	Category.dat
Work_Start_Day	This parameter specifies the calendar's work start day.		Values are: 1 Monday 2 Calendar Start	Calendar.dat: Week

The following table describes planning parameters:

Parameter ID	Description	Default Value	Format	Where Used
ABC_field_name	This parameter determines which JD Edwards EnterpriseOne ABC fields to use as ABC codes in Oracle EBS.	ABCS	ABCS, ABCI, ABCM	Item.dat
Acceptable_Early_Delivery	This parameter specifies the Acceptable Early Delivery in days.		Integer	Item.dat
Acceptable_Rate_Decrease	This parameter specifies the Acceptable Rate Decrease.		Real	Item.dat
Acceptable_Rate_Increase	This parameter specifies the Acceptable Rate Increase.		Real	Item.dat
ASN_Autoexpire_Flag	The ASN (Advanced Shipment Notice) Auto expire Flag. Values are: 1: ASN auto-expired 2: ASN not auto-expired	2		Item.dat
Average_Discount	Average Discount		Average Discount	Item.dat
Base_Time_Unit	The Base Time Unit of Measure	HR		

Parameter ID	Description	Default Value	Format	Where Used
Budget_Constrained		2	1, 2	Item.dat
Built_In_WIP	Values are: 1: Yes 2: No	1	1,2	Item.dat
Carrying_Cost_% _of_standard_cost	The carrying cost as a percentage of cost.		Real	Item.dat
Change_Over_Category	The category code used to determine an item's set up code.		String	OperationResource
Component_Rounding_Direction				BOMComponent.dat
Consigned_Flag		2	1, 2	Item.dat
Continuous_Transfer	Continuous inter-organizational transfers. Values are: 1: Yes 2: No 3: Use Global Value		1, 2, 3	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Convergence	Convergent Supply Consumption Pattern Values are: 1: Series 2: Parallel 3: Use Global Value			Item.dat
Cost_to_determine_default_transport_cost	The parameter specifies which transporting method cost fields are used to determine the default transport type.	costPerWeightUnit	CostPerWeightUnit, CostPerVolumeUnit, or flatRatePerTrip	ShipmentMethod.dat
CP_Company_Name	The default value for Collaboration Company Name (reserved for future use)			Reserved for future use
Create_Supply_Flag		1		Item.dat
Critical_Component_Flag				Item.dat
Days_Max_Inv_Supply				Item.dat
Days_Max_Inv_Window				Item.dat
Days_TGT_Inv_Supply				Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Days_TGT_Inv_Window				Item.dat
Default_Assignment_Set	The sourcing assignment set.		String	ItemSourcing
Default_Forecast_Designator	Where there is no forecast designator associated with a customer/group then this is the forecast designator to be used		Text	Demand Forecast
Default_Planner_Numb	Assigned when a planner number for an item is unidentified. This planner number must be set up in JD Edwards EnterpriseOne with at least one item loaded into planning.		Number	Items.dat
Default_TimeUOM				
Default_UOM_Type	The default unit of measure used when the unit of measure type is null or missing.	Count		UOM.dat
Demand_Lateness_Cost_of_standard_cost	The penalty associated with late demands as a percentage of cost.		Real	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Demand_Satisfied_Date_Field	This parameter points to the field used for the Demand Satisfied Date field.		<null> startDate endDate	Demand Forecast.dat
Divergence	Divergent Supply Feeding Pattern Values are: 1: Series 2: Series with MTQ 3: Use Global Value		1, 2, 3	Item.dat
Effective_From_Date_Offset	This parameter determines effective dates and other fields that need to be set prior to the current date and time.			
Effective_To_Date_Offset	This parameter determines effective dates and other fields that need to be set to a future date.			Resource Group
Effectivity_Control		1		Item.dat

Parameter ID	Description	Default Value	Format	Where Used
End_Assembly_Pegging	Values are: A - Full pegging B - End assembly/full pegging I - Net by project/ ignore excess N - None X - Net by project/net excess Y - End assembly pegging.			Item.dat
End_Assembly_Pegging_Flag	Values are: A: Full pegging B: End assembly or full pegging I: Net by project or ignore excess N: None X: Net by project or net excess Y: End assembly pegging	B	A, B, I, N, X, Y	Item.dat
Exception_Excess_Days	The period of time to calculate excess inventory.		Integer	Item.dat
Exception_Over-promised_Days			Integer	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Exception_Shortage_Days	The period of time to calculate material shortages.		Integer	Item.dat
Expense_Account			Text	Item.dat
Forecast_Confidence_Percentage	The confidence percentage. The value of this parameter must be less than or equal to 100.			
Forecast_Demand_Lateness_Cost_%	The percentage of cost incurred when a demand is not filled on time.	<null>	Real	DemandForecast.dat
Forecast_Demand_Satisfied_Date_Field	Date to be used for satisfy date	EndDate	StartDate or EndDate	DemandForecast.dat
Forecast_Horizon		<null>		Item.dat
Forecast_MAD	Mean absolute deviation of the forecast compared to actual values.			DemandForecast.dat
Forecast_Probability	A value between 0 and 1, which weights the probability of this forecast.	1	0 to 1	DemandForecast.dat
Full_Pegging		1	1, 2	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Inherit_phantom _op- sequence_flag	Values are: 1, 2, used in Trading Partners - Organization		1, 2	Trading Partners - Organization, Trading Partners - Customers, Trading Partners - Suppliers
Internal_Source_ Ranking_off set	This parameter is added to is added to inter- organizational records so that inter- organizational and supplier rankings do not overlap.	0	Numeric	SourcingRule. dat
Internal_Transfe rs_Customer	The customer associated with internal transfers. The value can be <null>, but if populated it must be a valid JD Edwards EnterpriseOne customer and it must be extracted.		String	SalesOrder.dat
Inventory_Asset _Flag		N	Integer	Item.dat
Inventory_Item_ Flag		1	Integer	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Inventory_Planning_Code	<p>Values are:</p> <p>3 - MRP planning</p> <p>4 - MPS planning</p> <p>6 - Not planned</p> <p>7 - MRP and DRP planning</p> <p>8 - MPS and DRP planning</p> <p>9 - DRP planning</p> <p>Refer to ASCP User Guide</p>	6		Item.dat
Item_Substitution_Substitution_Set	Substitutions name to be applied to substitutions imported from E1.	ITEMSUBST_1	Text	Item Substitutions
Item_Substitution_Partial_Fulfillment_Flag		2	Integer	Item Substitutions
Manufactured_Cummulative_Total_Lead_Time	The manufactured pre- processing lead-time.		Integer	Item.dat
Manufactured_Postprocessing_Lead_Time	The manufactured ppst-processing lead- time.		Integer	Item.dat
Manufactured_Preprocessing_Lead_Time	The manufactured pre- processing lead-time.		Integer	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Model_Department_Level	At what level are departments to be modeled at? The options a Branch or WorkCenter	Branch	Branch or WorkCenter	Dept Resource
MRP_Calculate_ATP_Flag	Values are: 1: Yes 2: No	2	1, 2	Item.dat
MRP_Safety_Stock_Percent				Item.dat
Order_Cost_%_of_standard_cost	The order cost as a percentage of cost.		Real	Item.dat
Pick_Components_Flag		N	Y, N	Item.dat
PIP_Flag				Item.dat
Phantom_Routings_Flag		2	Text	Items, Dept_Resource
Planning_Exception_Set		CATCHALL	Text	DepartmentResource.dat
Publish_Plan_Name	The name used to publish plans to JDE EnterpriseOne.	ORCL-APS	String	Purchase Plan Detailed Production Plan Deployment Plan
Purchased_Cummulative_Total_Lead_Time	The purchased lead- time.		Integer	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Purchased_Postprocessing_Lead_Time	The purchased postprocessing lead-time.		Integer	Item.dat
Purchased_Preprocessing_Lead_Time	The purchased pre-processing lead-time.		Integer	Item.dat
Reduce_MPS	Automatically deletes entries in a time period. Values are 1: None 2: Past due 3: Within demand time fence 4: Within planning time fence.		1, 2, 3, 4, <null>	Item.dat
Release_Time_Fence_Code	The release time fence code	1		Item.dat
Release_Time_Fence_Days	Release time fence time			Item.dat
Repetitive_Type	A flag that indicates whether or not the item is repetitive. Values are: 1: Yes 2: No	1	1, 2	Item.dat
Repetitive_Variance_Days			Integer	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Replenish_To_Order_Flag	A flag that specifies that an item is planned as replenish to order. Values are: Y N	N	Y, N	Item.dat
Resource_Balance_Flag	A flag that indicates whether or not a resource is load is balanced.	2	1, 2	DepartmentResource.dat
Resource_Costing_Basis	Indicates if resource costs are based on Machine or Labor costs.	Machine	Machine or Labor	DepartmentResource.dat
Resource_Excess_Type	The period of time to calculate resources over-utilization.	180		DepartmentResource.dat
Resource_Over_Util_Cost_%	A percentage of resource costs as a penalty for over- utilization.			DepartmentResource.dat
Resource_Over_Utilization_%	Over Utilization Percent	101	Real	DepartmentResource.dat
Resource_Shortage_Type	The period of time to calculate resource over-utilization.	180		DepartmentResource.dat
Resource_Under_Utilization_%	Under Utilization Percent	0	Real	DepartmentResource.dat

Parameter ID	Description	Default Value	Format	Where Used
Resource_UOM	A resource's unit of measure in a model.			DepartmentResource.dat
Resource_UOM_Class_Type				DepartmentResource.dat
Resource_User_Time_Fence	The number of days that planning generates an exception message.			DepartmentResource.dat
Revision	Item revision code			Item.dat
Revision_Quantity_Control_Code	Values are: 1: Not under revision quantity control 2: Under revision quantity control	1	1, 2	Item.dat
Routing_CTP_Flag	A flag that indicates that this routing is used in an ATP calculation.	2	1, 2	Routing.dat
Safety_Stock_Bucket_Days				Item.dat
Safety_Stock_Code	Values are: 1: User-defined quantity 2: User-defined percentage, or mean absolute deviation	1	1, 2	Item.dat

Parameter ID	Description	Default Value	Format	Where Used
Serial_Number_ Control_Code		2		Item.dat
Service_Level				Item.dat
Setting_To_Use_ On_Round_Up	The value to be used when roundToWholeNumbers is set to "U"	1	1 or 2	Item.dat
Set Up Category			String	RoutingOperation
Shrinkage_Rate	Percentage of shrinkage for this item	0	0 to 100	Item.dat
SO_Authorization_Flag				Item.dat
SO_CTO_Flag	This flag indicates that configure to order is available. Values are: 1: Yes 2: No	2	1, 2	SalesOrder.dat
SO_Demand_Visible		Y	Y, N	SalesOrder.dat
SO_Forecast_Visible		Y	Y, N	SalesOrder.dat

Parameter ID	Description	Default Value	Format	Where Used
SO_Reservation_Type	Values for this parameter are: 1 Soft reservation 2 Hard reservation 3 Supply order reservation	1	1, 2, 3	SalesOrder.dat
SS_Penalty_Cost_% _of_standard_cost	The penalty associated with breaching safety stock as a percentage of cost.		Real	Item.dat
Substitution_Window	The Substitution Window for the Item			Item.dat
Supplier_Cap_Over_Utilization_Cost_% _of_standard_cost	The cost as a percentage of cost for over capacity on a supplier.		Real	Item.dat
Supplier_Source_Ranking_offset	This parameter is added to supplier records so that inter-organizational and supplier rankings do not overlap.			
Supply_Onhand_VMI_Flag			<null>,1, 2	SupplyOnhand.dat

Parameter ID	Description	Default Value	Format	Where Used
Valid_QOH_Stat us_Codes	The status codes used to calculate Quantity on Hand.	Available, Pegged	String	SupplyOnhand. dat
WO_Lateness_C ost_%	Work order lateness cost percent as a percentage of itemPrice. This parameter is required to minimize cost.		Real	WorkOrderSupply. dat
Work_Order_Re source_Supply_ Type		1		Work Order Resource Requirements

Error Handling and Troubleshooting

This section details possible VCP Base Pack Integration failure points.

This appendix covers the following topics:

- JD Edwards EnterpriseOne UBE Extracts
- The Concurrent Program
- File Transfers Between ODI and VCP or Demantra Directories
- Downstream Concurrent Programs
- Demantra Workflows
- Web Service for GOP Deployment

JD Edwards EnterpriseOne UBE Extracts

After the UBE extracts are complete, use Submitted Jobs to check the .pdf log for errors. UBE extracts must be rerun after the reported error has been resolved.

The Concurrent Program

Collection and publish concurrent programs stop running when an error occurs. An error message indicating the failed component is logged to the concurrent program log file. The concurrent program must be relaunched after the reported error has been resolved.

File Transfers Between ODI and VCP or Demantra Directories

Collection and publish concurrent programs stop running when an error occurs. An ODI error log file is generated. This file contains the session number of the failed ODI session and the cause of the error.

Important: Ensure that all directories to which files are being written into are not write protected.

Downstream Concurrent Programs

The following downstream concurrent programs may cause errors:

- Legacy ASCP collection programs (pre-processor and ODS load)
- Legacy Demantra collections program for Sales History
- Demantra collection programs for Calendar, Price List and UOM

Collection and publish concurrent programs stop running when an error occurs. An error message indicating the request ID is logged to the concurrent program log file. Search for the failed request in the View Requests form.

Demantra Workflows

Errors could be caused by any of the Demantra workflows. Collection and publish concurrent programs stop running when an error occurs. An error message indicating the workflow execution ID is logged to the concurrent program log file. Search for the failed workflow in the View Requests form.

Web Service for GOP Deployment

After deploying ODI web service for GOP, the GOP_WS_DEPLOYMENT.txt log file is created inside the /tmp folder.

Debug File

If the MSC: ATP Debug Mode profile is set to Yes, GOP session files (debug files) are located at \$DOMAIN_HOME/servers/AdminServer/logs/ with the name session-{sessionId}. If DOMAIN_HOME is not defined, the session files are created in the /tmp folder.

For example, if the following has been set:

```
DOMAIN_HOME= /slot/ems4413/oracle/Middleware/user_projects/  
domains/soa_domain/
```

the session files are placed under DOMAIN_HOME/servers/AdminServer/logs

or

```
/slot/ems4413/oracle/Middleware/user_projects/domains/soa_domain/servers/AdminSe  
rver/logs
```

Testing the GOP Web Service

To ensure that the application is working correctly, you can test it by sending a sample payload.

To test the GOP web service:

In the WLS Administration Console, navigate to Deployments.

1. Click `msc_ws_atp_ws`.
2. Click the Testing tab.
3. Click the `OrderPromisingService` tree item.
4. Click Test Client.
5. Copy and paste the following sample payload in the Test Client URL

```
<target:promiseSalesOrders xmlns:target="http://oracle.apps.msc.atp.
service/">
  <username>mfg</username>
  <respname>Advanced Supply Chain Planner</respname>
  <respapplname>MSC</respapplname>
  <securitygroupname>STANDARD</securitygroupname>
  <language>AMERICAN</language>
  <atpInputs xmlns:orac="http://oracle.apps.msc.atp.service/"
xmlns:soap11-enc=http://schemas.xmlsoap.org/soap/encoding/ xmlns:
xsi=http://www.w3.org/2001/XMLSchema-instance soap11- enc:arrayType="
orac:ATPInput[]" xsi:type="orac:ArrayOfATPInput">
  <item xsi:type="orac:ATPInput">
    <action>100</action>
    <customerCode> </customerCode>
    <identifier></identifier>
    <inventoryitemname></inventoryitemname>
    <quantityordered></quantityordered>
    <quantityuom> </quantityuom>
    <requestedshipdate>2011-10-30T05:30:00</requestedshipdate>
    <sourceorganizationcode> /sourceorganizationcode>
  </item>
</atpInputs>
</target:promiseSalesOrders>
```

