

**Oracle Utilities Work and Asset
Management Connector for Enterprise
Resource Planning**

Implementation Guide

Release 2.1.1

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Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Implementation Guide for Release 2.1.1

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Preface

Audience

This document is intended for anyone implementing the Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning product.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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or

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Integration Documentation and Resources

The following additional documentation resources are available for this release:

Product Documentation

Resource	Location
Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Installation Guide	The same folder as this document, with the distribution for this product.
Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Implementation Guide	The most up to date versions of these documents are available on the Oracle Utilities Global Business Unit Portal at: http://docs.oracle.com/cd/E72219_01/documentation.html
Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Release Notes	
Oracle Utilities Work and Asset Management Documentation: <ul style="list-style-type: none"> • Installation Guide • Admin Guide • Business User Guide 	Refer to Oracle Utilities Work and Asset Management documentation located on the Oracle Technology Network. http://docs.oracle.com/cd/E72219_01/documentation.html
Please also refer to Bug #2451006 which will accumulate all WAM patches required for the integration.	

Additional Documentation

Resource	Location
SOA Suite 12c documentation	Refer to the SOA documentation at: http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html
Oracle Support	Visit My Oracle Support at https://support.oracle.com regularly to stay informed about updates and patches. Access the support site for the Edge Application Certification Matrix for Oracle Utilities Products (Doc ID 1454143.1) or refer to the Oracle Utilities Integrations page at http://my.oracle.com/site/tugbu/productsindustry/productinfo/utilities/integration/index.htm
Oracle Technology Network (OTN) Latest versions of documents	http://www.oracle.com/technetwork/index.html
Oracle University for training opportunities	http://education.oracle.com/
Web Services Security	For more information about Web services security using Oracle Fusion Middleware 12c refer to https://docs.oracle.com/middleware/12211/cross/webservicetasks.htm .

Oracle Fusion Middleware 12c documentation	Refer to the Oracle applications documentation page: http://docs.oracle.com/en/middleware/
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Oracle Fusion Middleware “What's New In Oracle WebLogic Server”	
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Section: Standards Support, Supported Configurations and WebLogic Server Compatibility, Database Interoperability	
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http://docs.oracle.com/middleware/1221/wls/NOTES/toc.htm

For additional information on the type of database to use.	
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Instructions on installing this integration on non-Windows/ Linux platforms	
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Refer to Oracle Support Knowledge Article ID 1349320.1.

Common Terms Used in this Guide

This documentation includes the following terms:

Term	Definition
ABCS	Application Business Connector Services A requestor ABCS accepts the request from the client application through a client-specific Application Business Message (ABM) and returns the response to the client application through a client-specific ABM. The client side ABM is the payload that is passed by the requestor application to the requestor ABCS.
AIA	Oracle Application Integration Architecture
AP	Accounts Payable
API	Application Programming Interface
AST	Application Specific Technology
BPEL	Business Process Execution Language
DVM	Domain Value Map
EBM	Enterprise Business Messages - Packets of data which the Mediator or JCA adapter accepts from requesters and routes to providers. They carry the pieces of data needed for the requests to be understood and serviced.
EBO/EBF	Enterprise Business Object
EBS	Enterprise Business Service
Edge application	The applications that are involved in the two-way integration processes - Oracle Utilities Work and Asset Management and other Enterprise Resource Planning applications.
ERP	Enterprise Resource Planning
ESC	Enterprise Resource Planning system Supply Chain business model
ESS	Oracle Enterprise Scheduler Service
GL	General Ledger
JMS	Java Message Service - The JMS producers are responsible for posting the message to the Consumer JMS Queue for the corresponding target application.

Term	Definition
JMS Adapter Consumer	JMS adapter used in the SOA composite to read message from a queue is referred to as a Consumer. The adapter has Consumer as a part of the name. For example, SyncWorkerOUWAMUtilitiesJMSConsumer.
JMS Adapter Producer	The JMS adapter used in the SOA composite to write a message to a queue is referred to as a Producer. The adapter has Producer as a part of the name. For example, SyncWorkerERPJMSProducer.
MDS	Metadata Store
Participating Application	One of the two applications involved in the two-way integration processes- Oracle Utilities Work and Asset Management, Enterprise Resource Planning system.
PIP	Process Integration Pack
Provider Processes	All the integration processes, which are invoked by the reading message from the queue are referred to as Provider Processes. These processes transform the request message from the queue to the edge application format and execute the inbound service on the edge application with a message. These processes have ProvABCImpl as a part of the name. For example, SyncWorkerOUWAMUtilitiesProvABCImpl.
Requestor Processes	All the integration processes, which are invoked by the edge application initiating the request are referred to as Requestor Processes. These processes put the request message with or without transformation in the queue. These processes have ReqABCImpl as a part of the name. For example, SyncWorkerERPReqABCImpl.
SOA	Service-Oriented Architecture – Software modules that are provided as services can be integrated or used by several applications using SOA, even if their respective architectures are substantially different. Rather than defining an API, SOA defines the interface in terms of protocols and functionality.
SOAP	Simple Object Access Protocol. It is a protocol specification for exchanging structured information in the implementation of Web Services in computer networks.
WAM or OUWAM	Oracle Utilities Work and Asset Management
WSC	Oracle Utilities Work and Asset Management Supply Chain business model
XAI	XML Application Integration. An Oracle Utilities Framework utility used to configure the system transfer information between Oracle Utilities Work and Asset Management and external applications using XML. XAI exposes system business objects as a set of XML based web services. The service can be invoked using different methods, for example, Hypertext Transfer Protocol (HTTP) or Java Message Service (JMS). Consequently, any application or tool that can send and receive XML documents can access the rich set of system business objects.
XSD	A schema definition file.
XSL	Extensible Style Language

Part 1

About the Integration

This section provides an overview of the participating applications and information regarding the business processes addressed by this integration.

This section contains the following chapters:

- [Chapter 1: Integration Overview](#)
- [Chapter 2: Technical Overview](#)
- [Chapter 3: Integration Processes](#)

Chapter 1

Integration Overview

This document provides configuration and administration information for the Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning, including:

- [About the Integration Product](#)
- [Supported Business Processes](#)

Note: All participating applications must be installed, set up, and working properly. Please refer to the installation guide for more information.

About the Integration Product

The Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning enables integration of Oracle Utilities Work and Asset Management with a generic set of business processes and data exchanges for implementations with Enterprise Resource Planning systems such as Oracle E-Business Suite, PeopleSoft, JD Edwards EnterpriseOne, Fusion Applications or Enterprise Resource Planning Cloud.

This integration product enables Oracle Utilities Work and Asset Management to work with typical functions for purchasing, financials, inventory, human resources and other work. This enables organizations to perform work in the preferred application, but have the ability for different types of users to access the relevant information in either system.

The following process integration points are included with this integration pack:

- The master data processes that synchronize data that has been created or updated in the system of record.
- The business transaction processes that are triggered based on the appropriate status transitions (such as approved, complete or frozen) to send and process in the other system.
- For both the master data and transaction processes:
 - The common EBO definitions are used to share information in a generic format that is independent of specific enterprise applications.
 - The connector provides transformations to and from the Oracle Utilities Work and Asset Management application business messages.
 - The connector allows for extension points to include additional data elements or enrich the messages as needed for custom requirements.

- An error handling process logs any errors that occur during data integration.
- Email notification process that notifies identified users, by email, of any errors and the details associated with those errors
- The integration's common error handling process handles all errors, however if your implementation also wants to use the SOA Suite 12c error hospital feature, you can implement it using the guidelines provided in the installation guide.

For more information about error hospital and error notifications, see the section “Recovering From Faults in the Error Hospital” in Oracle® Fusion Middleware Administering Oracle SOA Suite and Oracle Business Process Management Suite documentation.

About the Participating Products

The following products are involved in the integration:

- [Oracle Utilities Work and Asset Management \(WAM\)](#)
- [Enterprise Resource Planning System \(ERP\)](#)
- [Oracle SOA Suite](#)

Refer to the installation guide for current application version details.

Oracle Utilities Work and Asset Management (WAM)

Oracle Utilities Work and Asset Management efficiently manages asset lifecycles, streamlines maintenance operations, maximizes supply chain performance, enhances safety, and improves regulatory compliance.

Oracle Utilities Work and Asset Management is an industry-specific solution that allows organizations to improve work efficiency and infrastructure reliability, while reducing maintenance cost and capital requirements. Oracle Utilities Work and Asset Management captures the maintenance and the failure history of the assets in the enterprise and allows users to plan project work and estimate effort, resources, and materials.

Enterprise Resource Planning System (ERP)

The Enterprise Resource Planning system is a resource-planning software, which enforces industry best-practice controls on data input and processes as tasks are completed within the system. The processes are typically separated into modules, and each module consists of a collection of user interfaces where data is entered at each stage of the business process.

Oracle SOA Suite

The Oracle Fusion Middleware product, Oracle SOA Suite, coordinates the data processing and data mapping of the integration connections. Used as an Oracle standard across most pre-built integrated solutions, Oracle SOA Suite provides a comprehensive solution for creating, deploying, and managing cross-application business processes with both automated and manual workflow steps. It supports open technology standards such as BPEL, XML, XSLT, XPATH, JMS, JCA, and Web Services.

Supported Business Processes

This integration of systems enables key functionality in the areas of purchasing, financials, inventory, human resources, and work to facilitate the transfer of information between related applications. Data is sent from Oracle Utilities Work and Asset Management to Enterprise Resource Planning systems and vice versa to support the data synchronization, transactions and actions.

There are two primary business models supported by this Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning product:

- [Model 1 - Oracle Utilities Work and Asset Management Supply Chain Business Model](#)
- [Model 2 - Enterprise Resource Planning System Supply Chain Business Model \(ESC\)](#)

In either business model, the Enterprise Resource Planning system is a system of record for general ledger and accounts payable information as well as human resources and project financial information; and Oracle Utilities Work and Asset Management is the system of record for asset-related and work-related information and functions such as cost accounting associated with assets and work. What often changes, between the business models chosen, is which system owns the information and processes related to inventory and purchasing (the supply chain functions).

The configuration of the systems and their integration points can be different for each business model. This section of the document is intended to help you decide, which business model you implement, and therefore which technical configuration you should utilize for your organization.

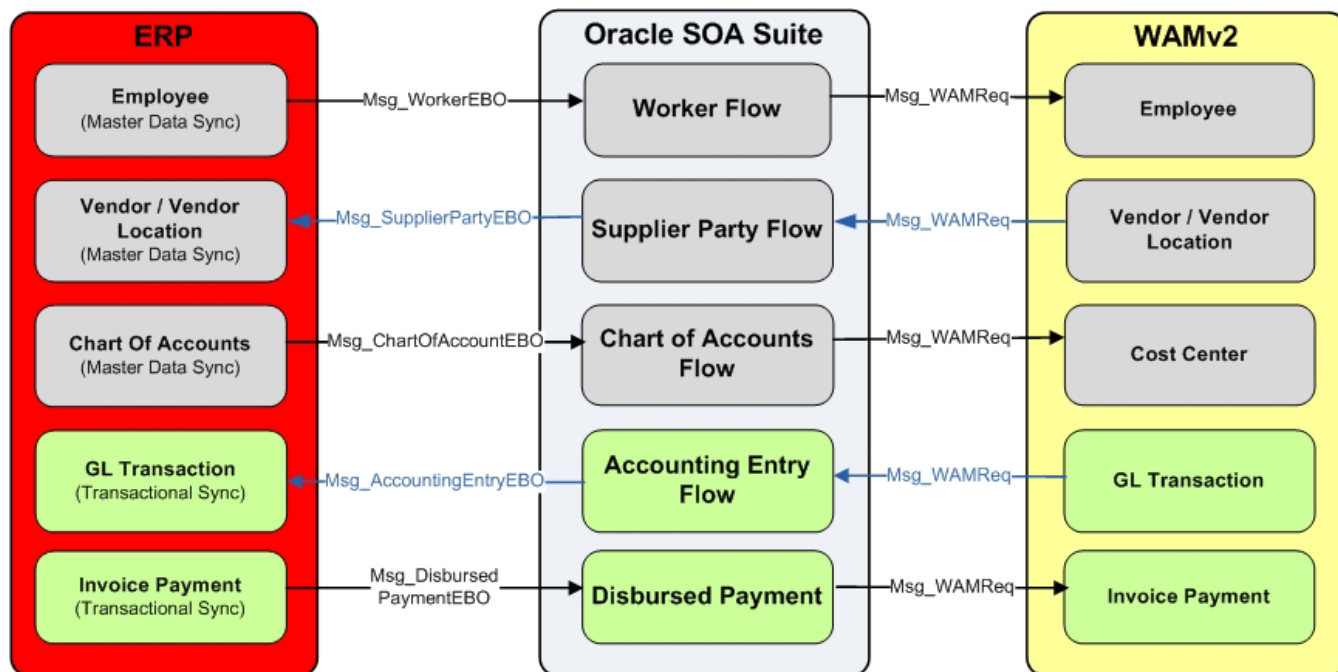
Model 1 - Oracle Utilities Work and Asset Management Supply Chain Business Model

Use Oracle Utilities Work and Asset Management to manage most supply chain functions and Enterprise Resource Planning system to manage accounts payable invoice and payment functions.

Application Product	Managed Functions	Business Model to Configure
Enterprise Resource Planning system	All corporate functions including General Ledger, Accounts Payable invoice and payment functions plus Human Resources employee and employee craft wages.	
Oracle Utilities Work and Asset Management	All supply chain functions in addition to work management, cost accounting, and asset management functions.	Work and Asset Management Supply Chain Model

Note: Invoice sync from WAM to ERP is performed through a batch process.

The following diagram provides a visual representation of this processing:



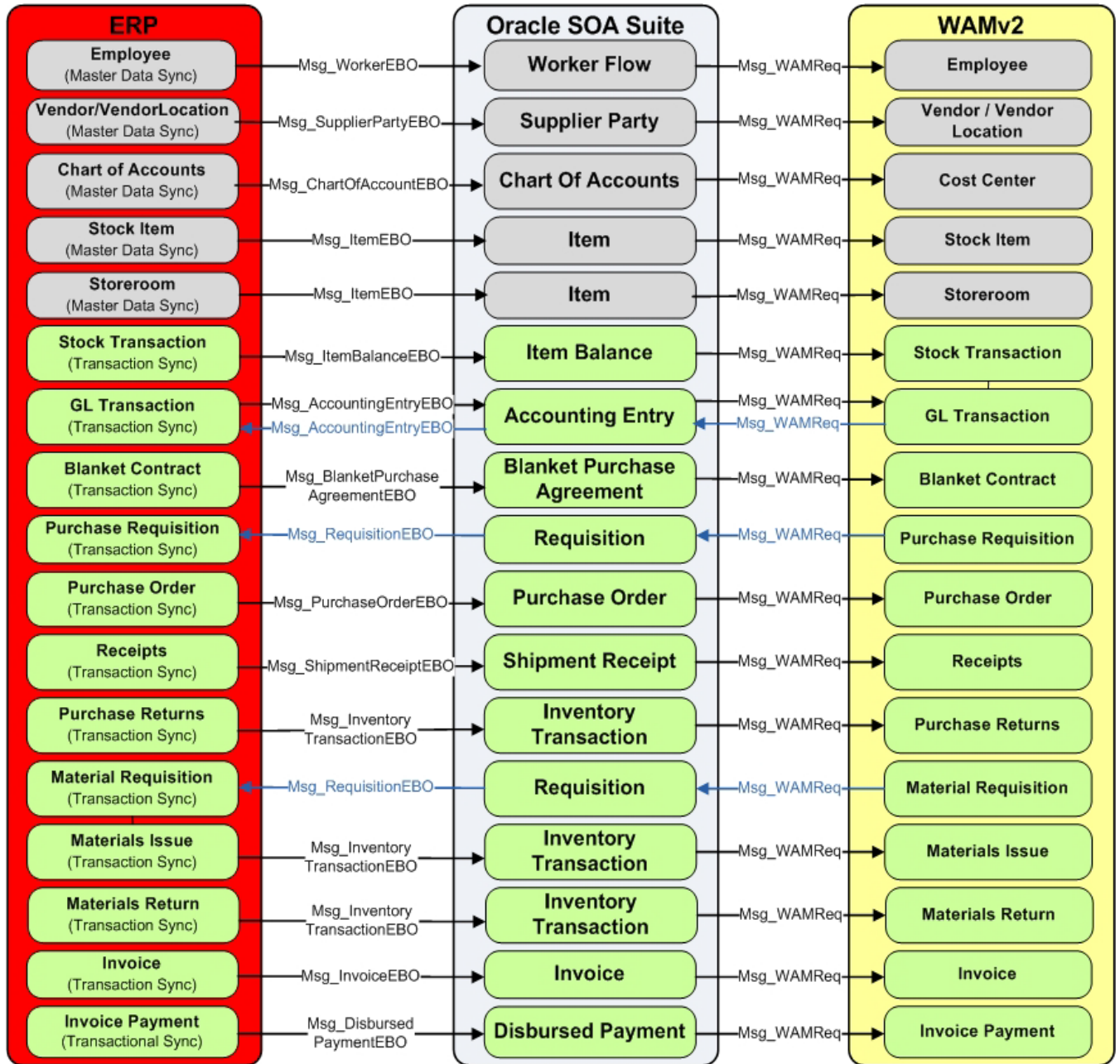
Integration Processes for WSC Business Model

Model 2 - Enterprise Resource Planning System Supply Chain Business Model (ESC)

Use Enterprise Resource Planning system to manage all the supply chain functions and Oracle Utilities Work and Asset Management for cost accounting, work and asset management functions.

Application Product	Managed Functions	Business Model to Configure
Enterprise Resource Planning system	All the supply chain functions including General Ledger, inventory, purchasing, vendor management, employee, employee craft wages, accounts payable, and paying AP invoices.	Enterprise Resource Planning system Supply Chain model
Oracle Utilities Work and Asset Management	All work management, asset management and cost accounting functions.	

The following diagram provides a visual representation of this processing:



Integration Processes for ESC Business Model

Chapter 2

Technical Overview

This section provides a technical overview of the integration, including:

- [Introduction](#)
- [Enterprise Resource Planning System Initiated Messages](#)
- [Oracle Utilities Work and Asset Management Initiated Messages](#)

Introduction

This connector is an Integration Accelerator Pack which provides integration of Oracle Utilities Work and Asset Management interfaces with a generic Enterprise Resource Planning system.

XML messages are exchanged between Oracle Utilities Work and Asset Management and Enterprise Resource Planning system and the message can either be initiated from Oracle Utilities Work and Asset Management or from the Enterprise Resource Planning system.

The existing AIA foundation Pack's common Enterprise Business Objects (EBOs) message format is used to exchange XML messages between the Integration Accelerator Pack and the Enterprise Resource Planning system. The EBOs used in this integration are part of installation.

Oracle SOA Suite installed on WebLogic server is used to host SOA composites, which are used for the integration between the two systems.

Oracle SOA Suite uses the standard data mapping to extract, transform and load the data taken from the source system and insert into the target system.

If the source system is the Oracle Utilities Work and Asset Management system:

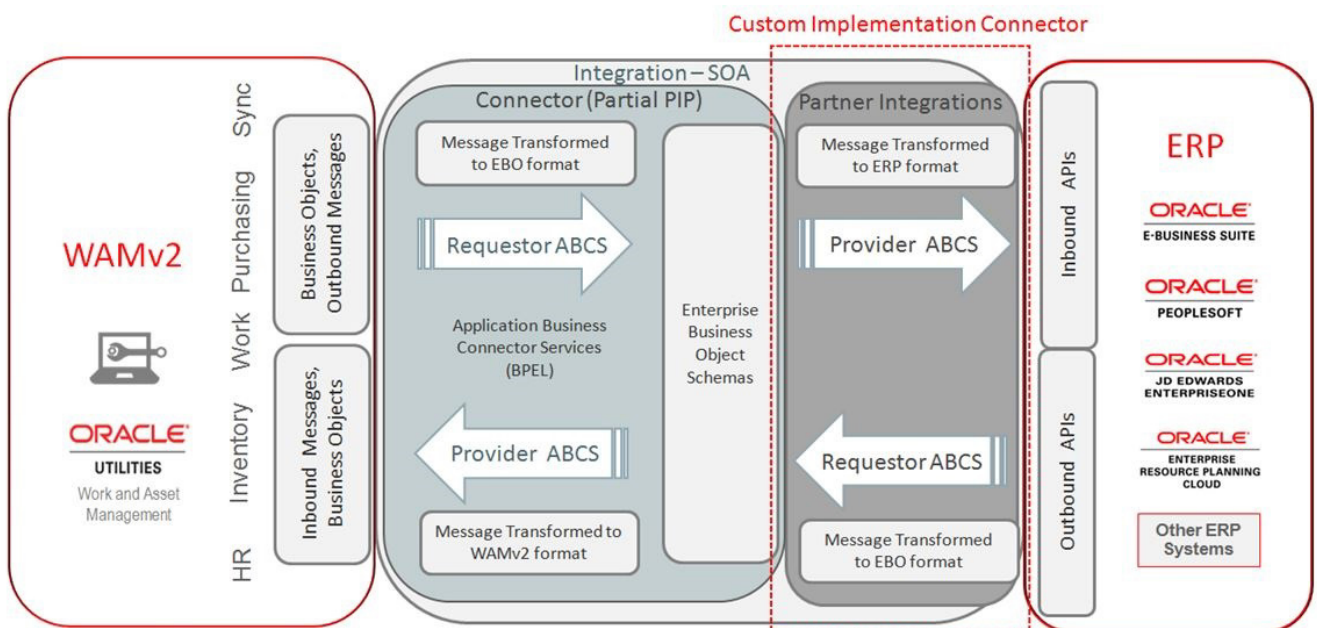
- Oracle Utilities Work and Asset Management generates the request data and calls the integration web service.
- The SOA composite accepts the XML data in the Oracle Utilities Work and Asset Management system format.
- BPEL transforms the data into the appropriate EBO format.
- The XML message is inserted in the JMS queue in EBO format. The JMS queues are used to store messages and provide guaranteed delivery.
- A custom connector process transforms the data from EBO format into an appropriate ERP format.

If the source system is the Enterprise Resource Planning system:

- The Enterprise Resource Planning system generates the request data and calls the integration web service.
- The SOA composite accepts the XML data in the ERP format.
- A custom connector process transforms the data in ERP format into EBO format.
- The XML message is inserted in the JMS queue in EBO format. The JMS queues are used to store messages and provide guaranteed delivery.
- BPEL transforms the data into the appropriate Oracle Utilities Work and Asset Management format.
- The integration invokes the appropriate Oracle Utilities Work and Asset Management web service.

Process Diagram

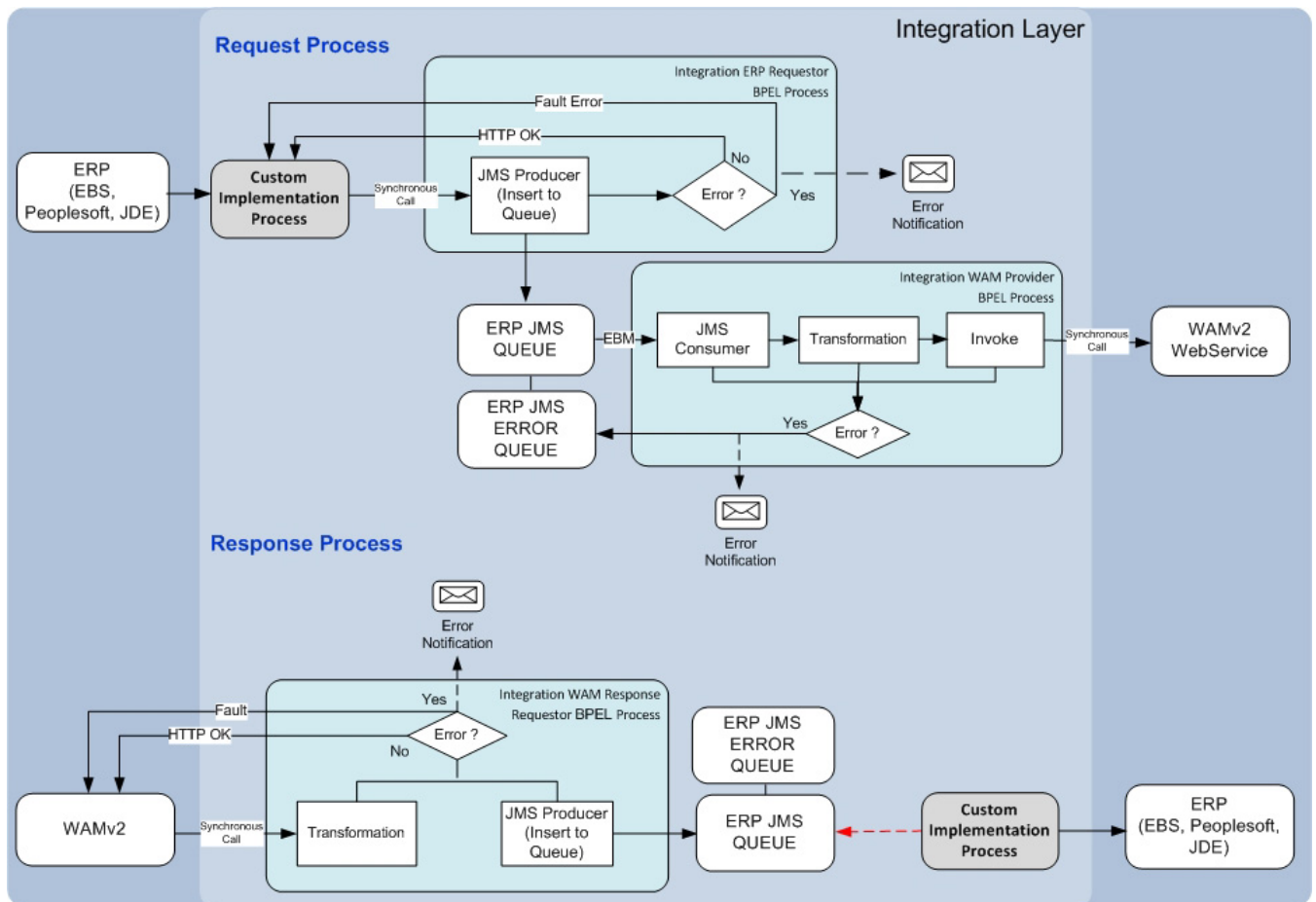
The following diagram provides a high level representation of the complete integration.



High Level Diagram

Enterprise Resource Planning System Initiated Messages

This section describes technical processing when the Enterprise Resource Planning system generates the request data and calls the integration web service. The following diagram provides a visual representation of this processing:



Enterprise Resource Planning Initiated Message Request/Response Process

Enterprise Resource Planning System Initiated Request Process

The request process includes:

- Custom implementation process
- Integration ERP requestor process
- Integration WAM provider process

Request processing is completed as described below:

- The Custom Implementation process should perform the following:
 - Receives the message sent by the Enterprise Resource Planning system in the object's ERP schema format.
 - Creates the request message in the EBO format; transforms the data from ERP format to EBO format.

- Invokes the Integration ERP Requestor BPEL Web Service to send the message
- The Integration ERP Requestor BPEL process performs the following:
 - Receive the message in EBO format sent by the custom implementation process.
 - Store the EBO message in a request queue.
- The Integration WAM Provider BPEL process performs the following:
 - Consumes the EBO message.
 - Transforms the message to Oracle Utilities Work and Asset Management format and applies the DVMs if needed.
 - Invokes Oracle Utilities Work and Asset Management inbound service.

Enterprise Resource Planning System Initiated Response Process

The response process includes:

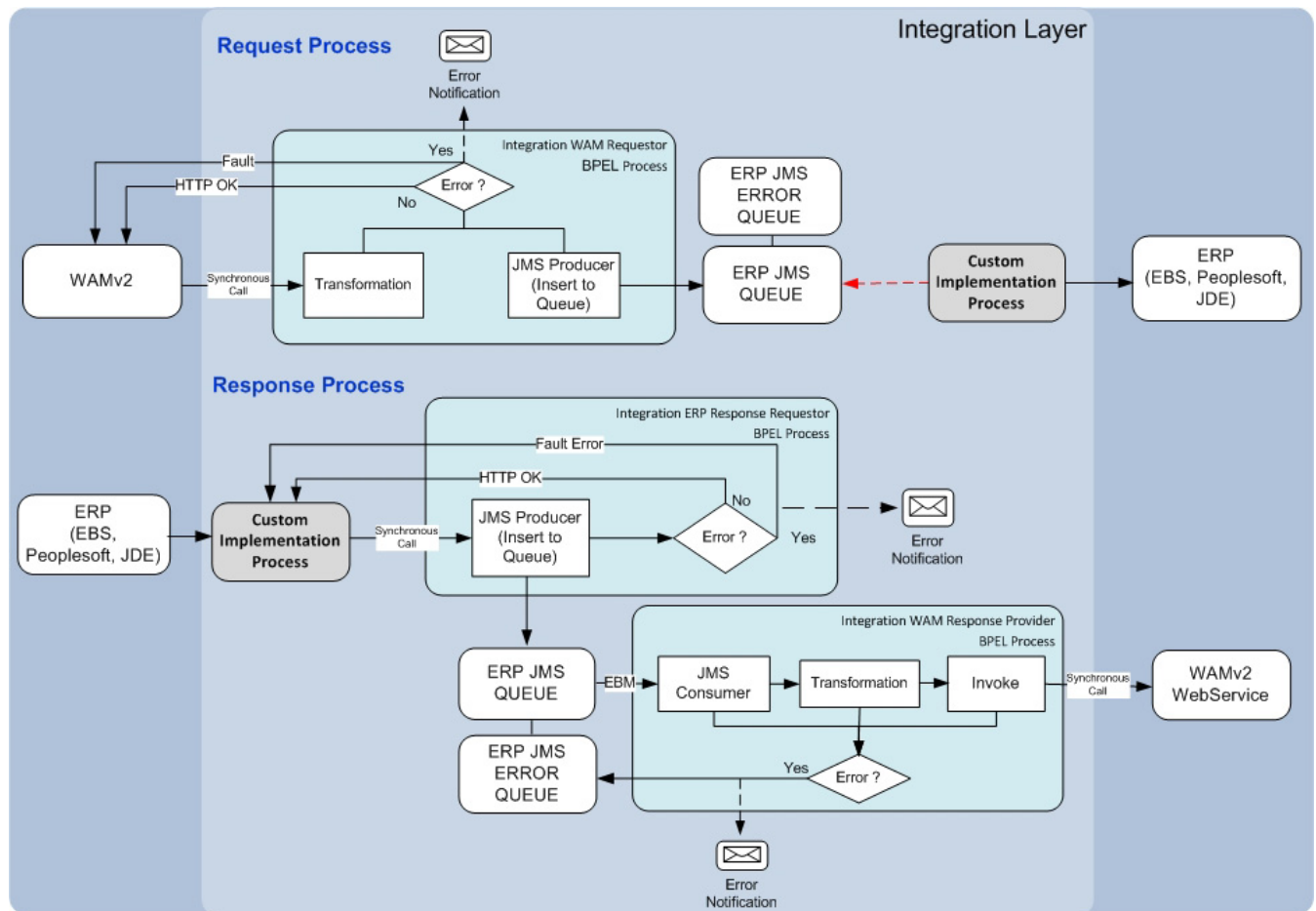
- Integration WAM response requestor process
- Custom implementation process

Response processing is completed as described below:

- Oracle Utilities Work and Asset Management system invokes the Integration WAM Response Requestor BPEL Web Service to send the response message. Message received by the service is in Oracle Utilities Work and Asset Management schema format.
- The Integration WAM Response Requestor BPEL process can perform the following:
 - Transforms the message to EBO format and applies the DVMs if needed.
 - Posts the EBO message to a queue.
- The Custom Implementation process should perform the following (Optional):
 - Consume the message in EBO format from the response queue.
 - Transforms the data from EBO format to ERP format.
 - Pass the message to the ERP system for processing.

Oracle Utilities Work and Asset Management Initiated Messages

This section describes technical processing when Oracle Utilities Work and Asset Management generates the request data and calls the integration web service. The following diagram provides a visual representation of this processing:



Oracle Utilities Work and Asset Management Initiated Message Process

Oracle Utilities Work and Asset Management Initiated Request Process

The request process includes:

- Integration WAM requestor process
- Custom implementation process

Response processing is completed as described below:

- The Oracle Utilities Work and Asset Management system invokes an Integration WAM Requestor BPEL Web Service to send the message.
- The message sent to the service is in Oracle Utilities Work and Asset Management schema format.
- The Integration WAM Requestor BPEL process performs the following:
 - Transforms the message to EBO format and applies DVM's if needed.
 - Posts the EBO message in a queue.

- The Custom Implementation process should perform the following:
 - Consume the message in EBO format from the request queue.
 - Transforms the data from EBO format to ERP format.
 - Pass the message to the ERP system for processing.

Oracle Utilities Work and Asset Management Initiated Response Process

The response process has:

- Custom implementation process
- Integration ERP Response Requestor process
- Integration WAM Response Provider process

Response processing is completed as described below.

- The Custom Implementation process should perform the following:
 - Receives the message sent by the Enterprise Resource Planning system in the object's ERP schema format.
 - Creates the response message in the EBO format; transforms the data from ERP format to EBO format.
 - Invokes the Integration ERP Response Requestor BPEL Web Service to send the message. The BPEL process will insert the message into a JMS queue to allow for guaranteed delivery. Alternatively, implementations can insert directly to this JMS queue.
- The Integration ERP Response Requestor BPEL process performs the following:
 - Receive the message in EBO format sent by the custom implementation process.
 - Insert the EBO message in a response queue.
- The Integration WAM Response Provider BPEL process performs the following:
 - Consumes the EBO message.
 - Transforms the message to Oracle Utilities Work and Asset Management format and applies the DVMS if needed.
 - Invokes Oracle Utilities Work and Asset Management inbound service.

Chapter 3

Integration Processes

This section provides overviews of the business processes facilitated by this integration. The integration supports the following business models:

- [Model 1 - Oracle Utilities Work and Asset Management Supply Chain Business Model](#)
- [Model 2 - Enterprise Resource Planning System Supply Chain Business Model \(ESC\)](#)

The integration points used for both business models can be either Enterprise Resource Planning Initiated or Oracle Utilities Work and Asset Management Initiated.

- [Enterprise Resource Planning Initiated Processes](#)
- [Oracle Utilities Work and Asset Management Initiated Processes](#)

Please refer to [Appendix A: Data Mapping](#) for detailed integration mapping information.

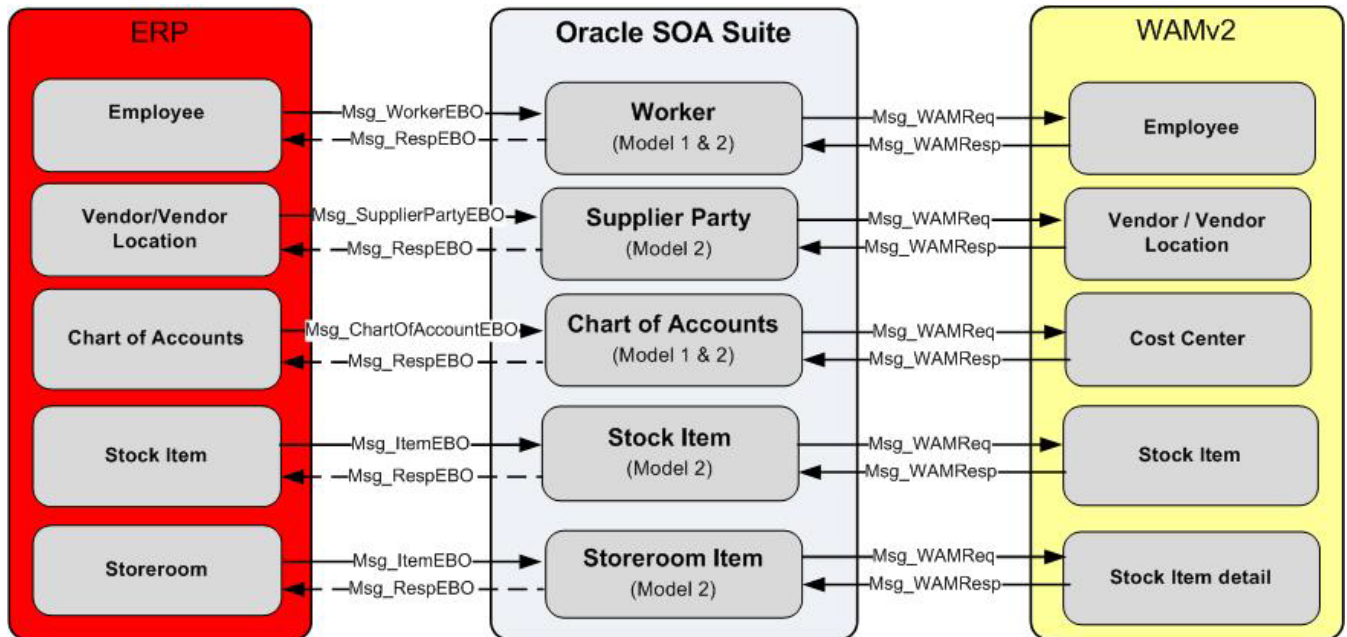
Enterprise Resource Planning Initiated Processes

This section provides information on processing when processing is initiated from Enterprise Resource Planning, including:

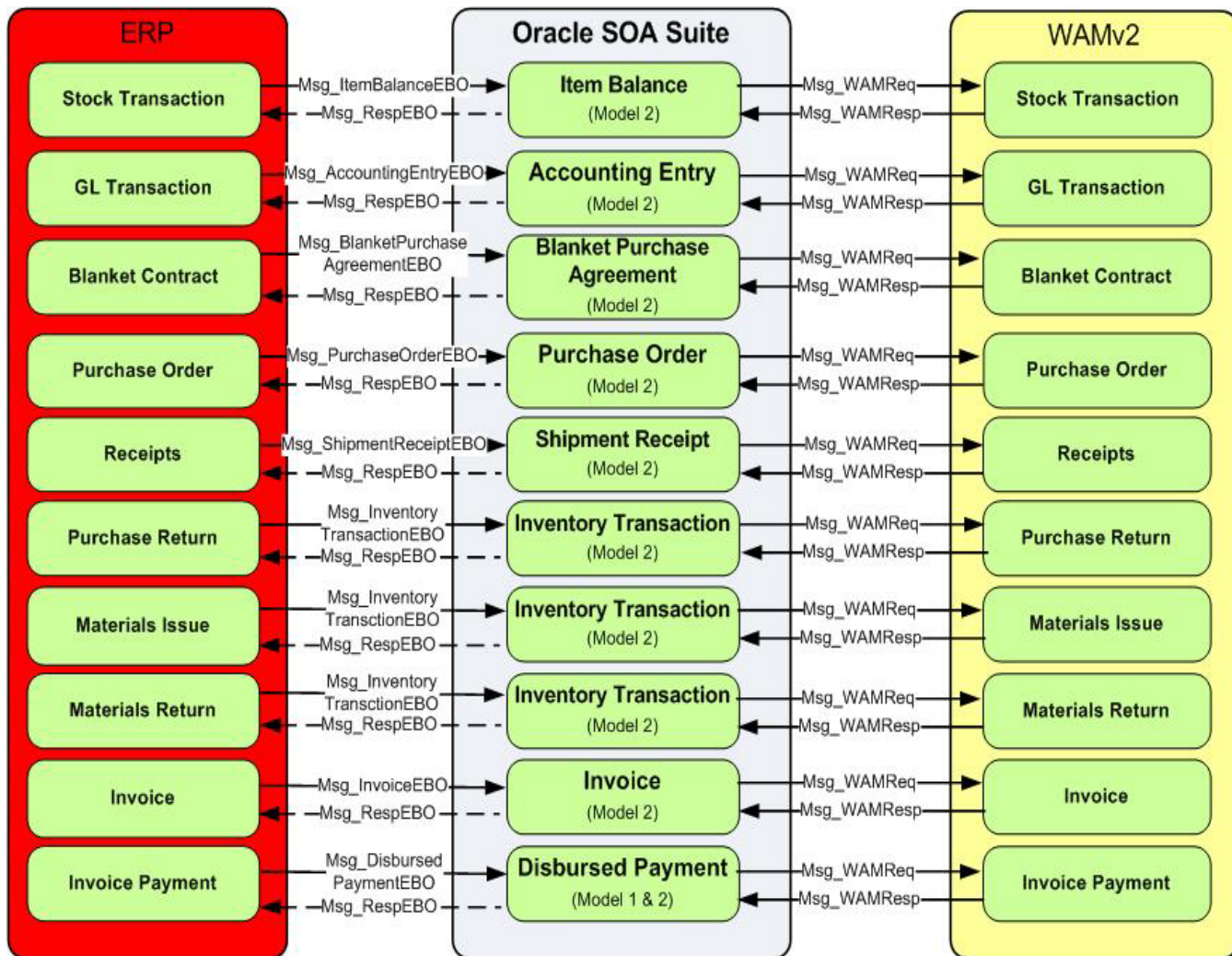
- [High Level Processing Overview](#)
- [Integration Points](#)

High Level Processing Overview

The following diagrams show the integration processes from Enterprise Resource Planning to Oracle Utilities Work and Asset Management.



Enterprise Resource Planning to Oracle Utilities Work and Asset Management Master Data Synchronization Processes



Enterprise Resource Planning to Oracle Utilities Work and Asset Management Transactional Processes

Integration Points

The following integration points are Enterprise Resource Planning initiated:

#	Integration Point	Process Type	Comments
1	Worker (Employee) Synchronization Process	Master Data Sync	<ul style="list-style-type: none"> Employee information sync Worker EBO used for transformation.
2	Supplier Party (Vendor/ Vendor Location) Synchronization Process (ERP to WAM)	Master Data Sync	<ul style="list-style-type: none"> Vendor and Vendor location information sync Supplier Party EBO used for transformation.
3	Chart of Accounts (Cost Center) Synchronization Process	Master Data Sync	<ul style="list-style-type: none"> Chart of Accounts sent from the ERP system Chart of Accounts EBO used for transformation. Oracle Utilities Work and Asset Management stores cost center information.
4	Stock Item Synchronization Process	Master Data Sync	<ul style="list-style-type: none"> Stock Item information sync Item EBO used for transformation.
5	Storeroom Item (Stock Item Detail) Synchronization Process	Master Data Sync	<ul style="list-style-type: none"> Stock Item details/Storeroom sync Item EBO used for transformation.
6	Item Balance (Stock Transaction) Synchronization Process	Transactional	<ul style="list-style-type: none"> Stock Transaction sent from the ERP system Item Balance EBO used for transformation.
7	Blanket Contract (Purchase Agreement) Synchronization Process	Transactional	<ul style="list-style-type: none"> Blanket contracts information from the ERP system. Blanket Purchase Agreement EBO used for transformation.
8	Purchase Order Synchronization Process	Transactional	<ul style="list-style-type: none"> Purchase Order and Change Order sent from the ERP system Purchase Order EBO used for transformation Oracle Utilities Work and Asset Management stores Purchase Order information.
9	Shipment Receipt (Purchase Receipt) Synchronization Process	Transactional	<ul style="list-style-type: none"> Purchase Receipt Information from the ERP system. Shipment Receipt EBO used for transformation.
10	Purchase Return – Inventory Transaction Synchronization Process	Transactional	<ul style="list-style-type: none"> Purchase Return Information from the ERP system. Inventory Transaction EBO used for transformation.
11	Material Issue - Inventory Transaction Synchronization Process	Transactional	<ul style="list-style-type: none"> Material Issue or Checkout Information from the ERP system. Inventory Transaction EBO used for transformation.
12	Material Return – Inventory Transaction Synchronization Process	Transactional	<ul style="list-style-type: none"> Material Return Information from the ERP system. Inventory Transaction EBO used for transformation.

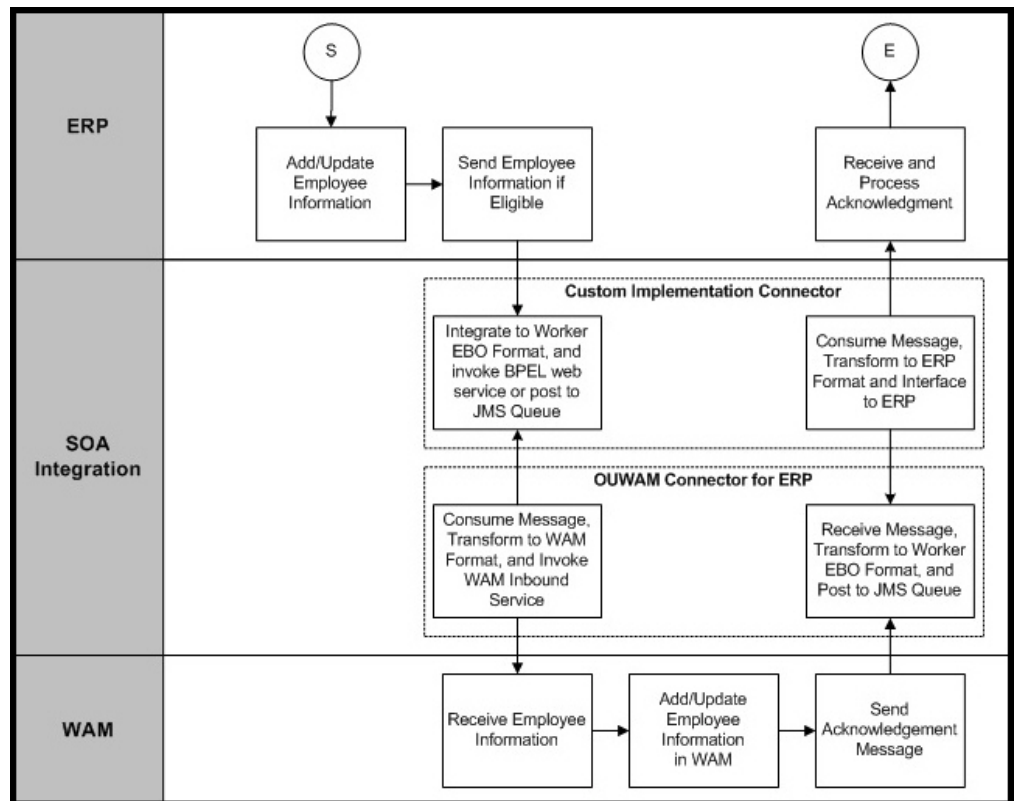
#	Integration Point	Process Type	Comments
13	Invoice Synchronization Process	Transactional	<ul style="list-style-type: none"> • Invoice information from the ERP system. • Invoice EBO used for transformation.
14	Invoice Payment (Disbursement) Synchronization Process	Transactional	<ul style="list-style-type: none"> • Invoice Payment information sent from the ERP system. • Disbursed Payment EBO used for transformation.
15	GL Transaction (Accounting Entry) Synchronization Process	Transactional	<ul style="list-style-type: none"> • GL Transaction information sync from the ERP system to WAM Accounting Entry EBO used for transformation.

Worker (Employee) Synchronization Process

The Worker process is a master data sync process triggered from the Enterprise Resource Planning system.

Refer to the [Worker \(Employee\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Worker (Employee) Business Process Diagram

Worker (Employee) Processing Details

This process is triggered on create/update of Employee information in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends employee information to the integration in ERP format.

- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Worker EBO format and invoke the requestor process to publish to the Worker request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes the inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Worker EBO format and adds it to the Worker response queue.
- A custom implementation connector transforms the response and integrates with the ERP system.

Worker (Employee) Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Services	
SyncWorkerERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncWorkerRespOUWAMUtilitiesReqABCImpl	SyncWorkerOUWAMUtilitiesProvABCImpl

Worker (Employee) Process Adapter Services

Name	Description
SyncWorkerERPJMSProducer	This adapter is used by SyncWorkerERPReqABCImpl to write the EBO message coming from the Enterprise Resource Planning system to the Worker queue.
SyncWorkerOUWAMUtilitiesJMSConsumer	This adapter is used by the SyncWorkerOUWAMUtilitiesProvABCImpl process to consume EBO message from the Worker queue.
SyncWorkerRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncWorkerRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from Oracle Utilities Work and Asset Management to the Worker response queue.

Worker (Employee) Process EBO and EBM Details

EBO	EBM
Worker EBO	SyncWorkerListEBM SyncWorkerListResponseEBM

Worker (Employee) Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERP WorkerRequest	jms/OUWAMERP WorkerRequest	Used to store Enterprise Resource Planning system Worker sync request.
OUWAMERP WorkerResponse	jms/OUWAMERP WorkerResponse	Used to store Oracle Utilities Work and Asset Management Worker sync response.
OUWAMERP WorkerRequestError	jms/OUWAMERP WorkerRequestError	Corresponding Error Queue For Enterprise Resource Planning system Worker sync request queue.
OUWAMERP WorkerResponseError	jms/OUWAMERP WorkerResponse Error	Corresponding Error Queue Oracle Utilities Work and Asset Management Worker response queue.

Worker (Employee) Process External Web Service Call

Application	Inbound Web Service	Description
WAM	W1-SyncRequestInbound	The Sync Request inbound service used for Master Data Sync in WAM.

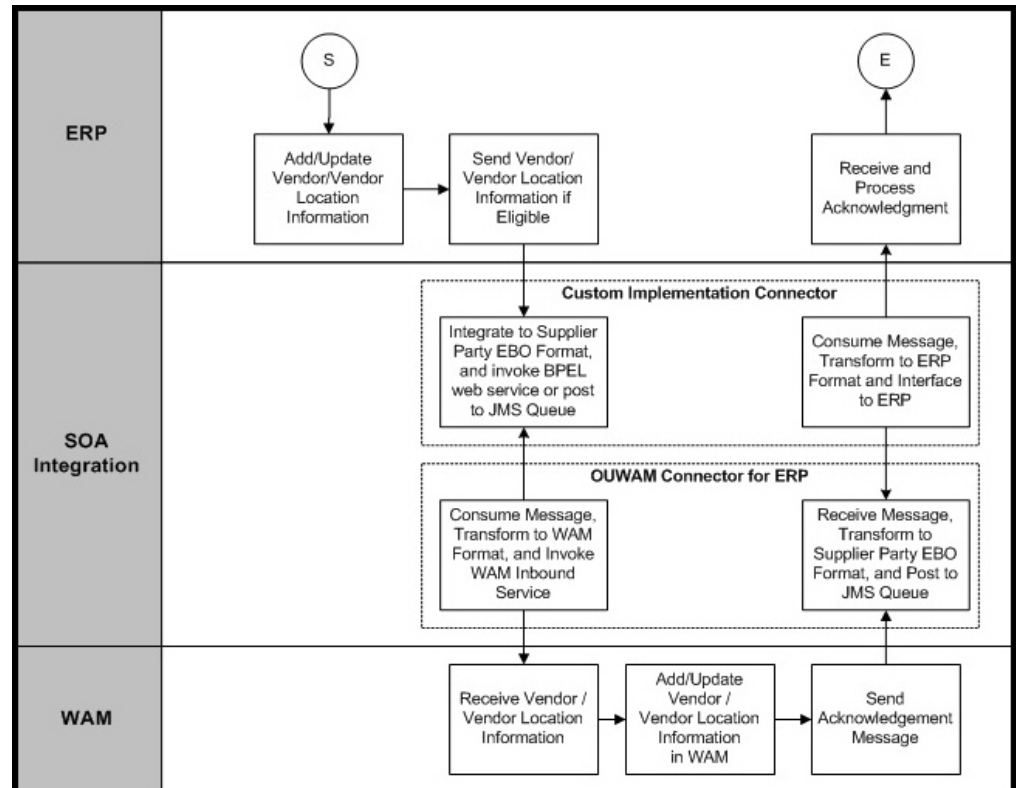
Supplier Party (Vendor/Vendor Location) Synchronization Process (ERP to WAM)

The Supplier Party process is a master data sync process triggered from the Enterprise Resource Planning system. This process is only used with Model 2 - ESC.

Note: There is another Supplier Party process triggered from Oracle Utilities Work and Asset Management which is only used with Model 1 – WSC.

Refer to the [Supplier Party \(Vendor/Vendor Location\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Supplier Party Business Process Diagram

Supplier Party (Vendor/Vendor Location) Processing Details

This process is triggered on create/update of Vendor and/or Vendor Location information in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends vendor location information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Supplier Party EBO format and invoke the requestor process to publish to the Supplier Party request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format, and invokes the inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.

- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Supplier Party EBO format and adds it to the Supplier Party response queue.
- A custom implementation connector transforms the response and integrates with the ERP system.

Supplier Party (Vendor/Vendor Location) Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncSupplierPartyERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncSupplierPartyRespOUWAMUtilitiesReqABCImpl	SyncSupplierPartyOUWAMUtilitiesProvABCImpl

Supplier Party (Vendor/Vendor Location) Process Adapter Services

Name	Description
SyncSupplierPartyERPJMSProducer	This adapter is used by SyncSupplierPartyERPReqABCImpl to write the EBO message coming from the Enterprise Resource Planning system to the Supplier Party queue.
SyncSupplierPartyOUWAMUtilitiesJMSConsumer	This adapter is used by the SyncSupplierPartyOUWAMUtilitiesProvABCImpl process to consume EBO message from Supplier Party queue.
SyncSupplierPartyespOUWAMUtilitiesJMSProducer	This adapter is used by SyncSupplierPartyRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from Oracle Utilities Work and Asset Management to the Supplier Party response queue.

Supplier Party (Vendor/Vendor Location) Process EBO and EBM Details

EBO	EBM
Supplier Party EBO	SyncSupplierPartyListEBM SyncSupplierPartyListResponseEBM

Supplier Party (Vendor/Vendor Location) Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPSupplierParty Request	jms/OUWAMERPSupplierParty Request	Used to store Enterprise Resource Planning system Supplier party sync.
OUWAMERPSupplierParty Response	jms/OUWAMERPSupplierParty Response	Used to store Oracle Utilities Work and Asset Management Supplier Party sync response.
OUWAMERPSupplierParty RequestError	jms/OUWAMERPSupplierParty RequestError	Corresponding Error Queue For Enterprise For Resource Planning system Supplier party request queue.
OUWAMERPSupplierParty ResponseError	jms/OUWAMERPSupplierParty ResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Supplier Party response queue.

Supplier Party (Vendor/Vendor Location) Process External Web Service Call

Application	Inbound Web Service	Description
WAM	W1-SyncRequestInbound	The Sync Request inbound service used for Master Data Sync in WAM.

Chart of Accounts (Cost Center) Synchronization Process

The Chart of Accounts process is a master data sync process triggered from the Enterprise Resource Planning system.

Refer to the [Chart of Accounts \(Cost Center\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:

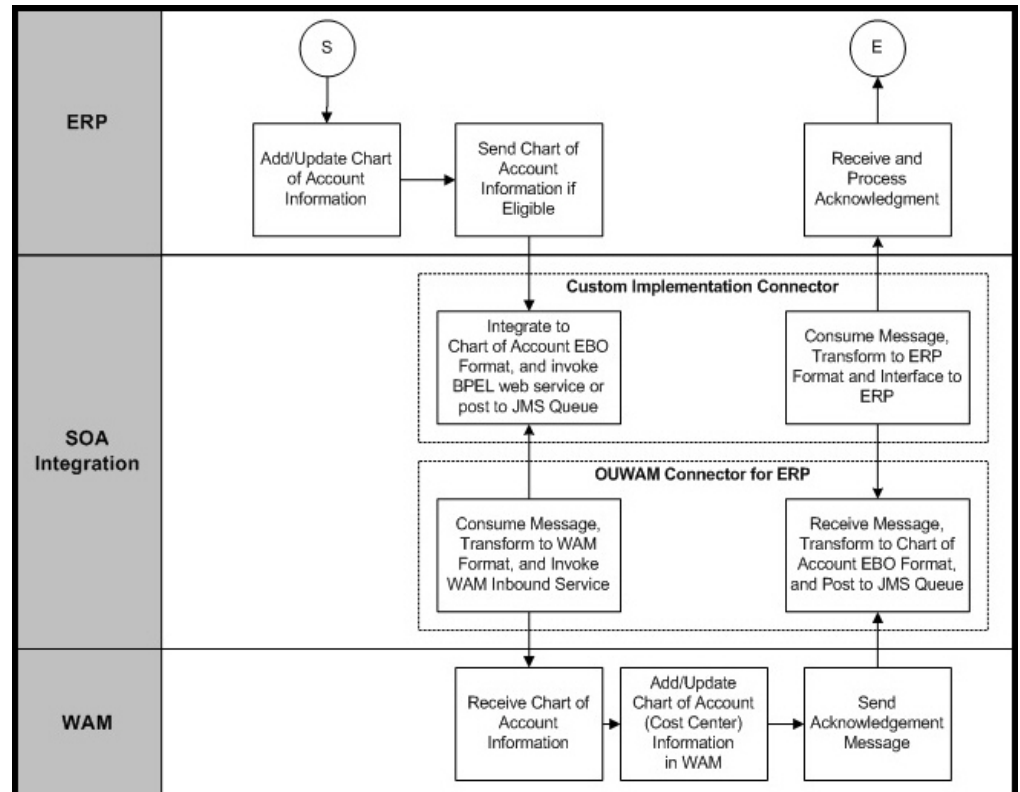


Chart of Accounts (Cost Center) Business Process Diagram

Chart of Accounts (Cost Center) Processing Details

This process is triggered on create/update of Chart of Accounts information in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Chart of Accounts information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Chart of Accounts EBO format and invoke the requestor process to publish to the Chart of Accounts request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes the inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to the Chart of Accounts EBO format and adds it to the Chart of Accounts response queue.

- A custom implementation connector transforms the response and integrates with the ERP system.

Chart of Accounts (Cost Center) Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncChartOfAccountsERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncChartOfAccountsRespOUWAMUtilitiesReqABCSImpl	SyncChartofAccountsOUWAMUtilitiesProvABCImpl

Chart of Accounts (Cost Center) Process Adapter Services

Name	Description
SyncChartOfAccountsERPJMSProducer	This adapter is used by SyncChartOfAccountsERPReqABCImpl to write the EBO message coming from the Enterprise Resource Planning system to the Chart of Accounts queue.
SyncChartOfAccountsOUWAMUtilitiesJMConsumer	This adapter is used by the SyncChartOfAccountsOUWAMUtilitiesProvABCImpl process to consume EBO message from Chart of Accounts.
SyncChartOfAccountsRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncChartOfAccountsRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from Oracle Utilities Work and Asset Management to the Chart of Accounts response queue.

Chart of Accounts (Cost Center) Process EBO and EBM Details

EBO	EBM
Chart of Accounts EBO	SyncChartOfAccountsListEBM SyncChartOfAccountsListResponseEBM

Chart of Accounts (Cost Center) Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPChartOfAccountsRequest	jms/OUWAMERPChartOfAccountsRequest	Used to store Enterprise Resource Planning system Chart of accounts sync request.
OUWAMERPChartOfAccountsResponse	jms/OUWAMERPChartOfAccountsResponse	Used to store Oracle Utilities Work and Asset Management Chart of Accounts sync response.
OUWAMERPChartOfAccountsRequestError	jms/OUWAMERPChartOfAccountsRequestError	Corresponding Error Queue For Enterprise Resource Planning system Chart of accounts request queue.
OUWAMERPChartOfAccountsResponseError	jms/OUWAMERPChartOfAccountsResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Chart of Accounts response queue.

Chart of Accounts (Cost Center) Process External Web Service Call

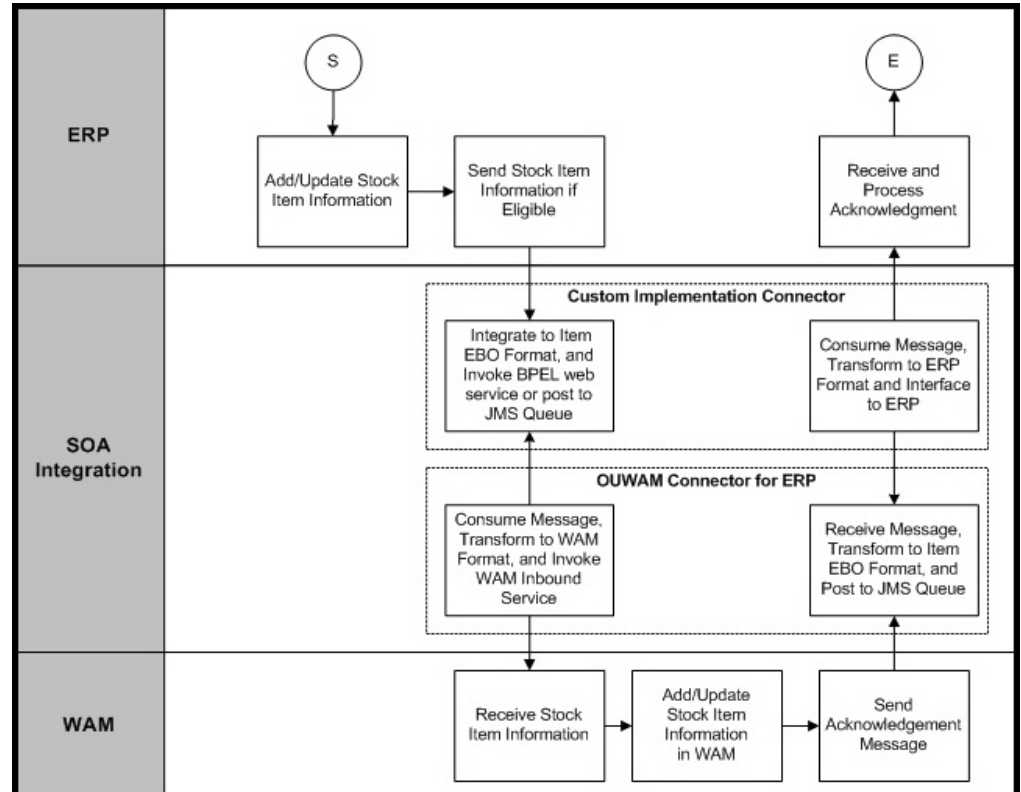
Application	Inbound Web Service	Description
WAM	W1-SyncRequestInbound	The sync request inbound service used for Master Data Sync in WAM.

Stock Item Synchronization Process

The Stock Item process is a master data sync process triggered from the Enterprise Resource Planning system.

Refer to the [Stock Item Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Stock Item Business Process Diagram

Stock Item Processing Details

This process is triggered on create/update of Stock Item information in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Master Item information to the integration ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Stock Item EBO format and invoke the requestor process to publish to the Stock Item request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Stock Item EBO format and adds it to the Stock Item response queue.

- A custom implementation connector transforms this response and integrates with the ERP system.

Stock Item Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncStockItemERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncStockItemRespOUWAMUtilitiesReqABCImpl	SyncStockItemOUWAMUtilitiesProvABCImpl

Stock Item Process Adapter Services

Name	Description
SyncStockItemERPJMSProducer	This adapter is used by SyncStockItemERPReqABCImpl to write the EBO message coming from the ERP system to the Item queue.
SyncStockItemOUWAMUtilitiesJMSConsumer	This adapter is used by the SyncStockItemOUWAMUtilitiesProvABCImpl process to consume EBO message from the Stock Item queue.
SyncStockItemRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncStockItemRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Stock Item response queue.

Stock Item Process EBO and EBM Details

EBO	EBM
Item EBO	SyncItemListEBM SyncItemListResponseEBM

Stock Item Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPStockItemRequest	jms/OUWAMERPStockItemRequest	Used to store Enterprise Resource Planning system Stock Item sync request.
OUWAMERPStockItemResponse	jms/OUWAMERPStockItemResponse	Used to store Oracle Utilities Work and Asset Management Stock Item sync response.
OUWAMERPStockItemRequestError	jms/OUWAMERPStockItemRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Stock Item request queue.
OUWAMERPStockItemResponseError	jms/OUWAMERPStockItemResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Stock Item response queue.

Stock Item Process External Web Service Call

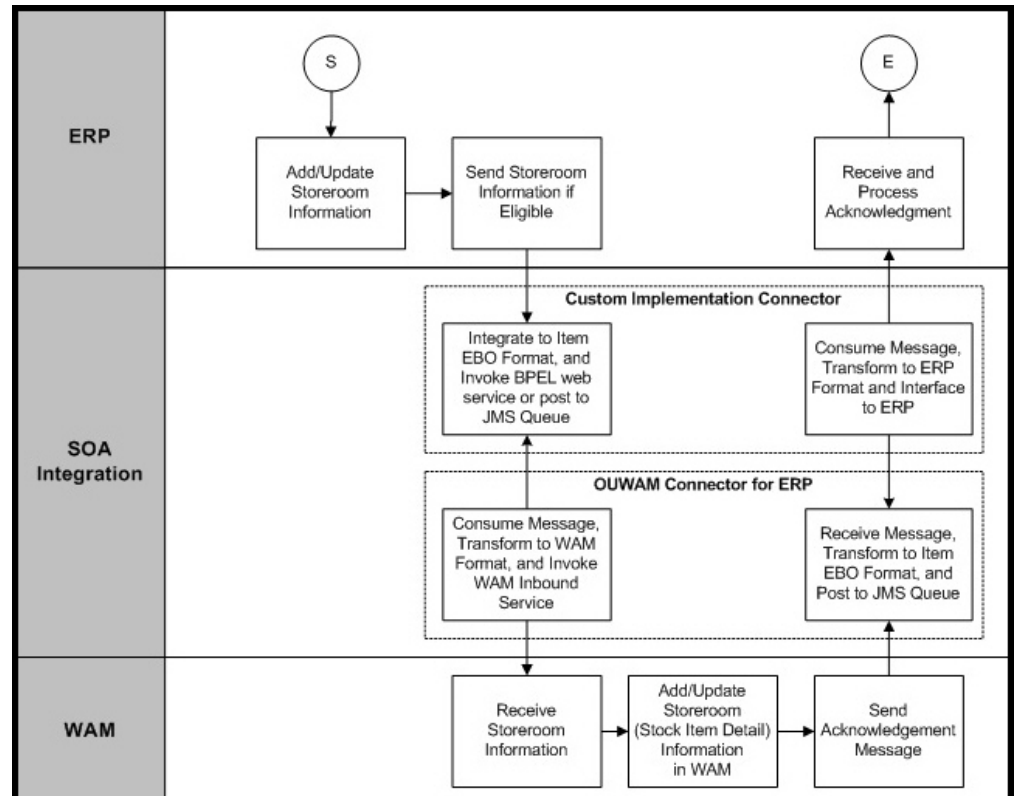
Application	Inbound Web Service	Description
WAM	W1-SyncRequestInbound	The sync request inbound service used for Master Data Sync in WAM.

Storeroom Item (Stock Item Detail) Synchronization Process

The Storeroom Item process is a master data sync process triggered from the Enterprise Resource Planning system.

Refer to the [Storeroom Item \(Stock Item Detail\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Storeroom Item (Stock Item Detail) Business Process Diagram

Storeroom Item (Stock Item Detail) Processing Details

This process is triggered on create/update of Storeroom Item information in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Storeroom information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Storeroom Item EBO format and invoke the requestor process to publish to the Storeroom Item request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to the Storeroom Item EBO format and adds it to the Storeroom Item response queue.

- A custom implementation connector transforms this response and integrates with the ERP system.

Storeroom Item (Stock Item Detail) Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncStoreroomItemERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncStoreroomItemRespOUWAMUtilitiesReqABCImpl	SyncStoreroomItemOUWAMUtilitiesProvABCImpl

Storeroom Item (Stock Item Detail) Process Adapter Services

Name	Description
SyncStoreroomItemERPJMSProducer	This adapter is used by SyncStoreroomItemERPReqABCImpl to write the EBO message coming from the ERP system to the Storeroom Item queue.
SyncStoreroomItemOUWAMUtilitiesJMSConsumer	This adapter is used by the SyncStoreroomItemOUWAMUtilitiesProvABCImpl process to consume EBO message from StoreroomItem queue.
SyncStoreroomItemRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncStoreroomItemRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Storeroom Item response queue.

Storeroom Item (Stock Item Detail) Process EBO and EBM Details

EBO	EBM
Storeroom Item EBO	SyncItemListEBM SyncItemListResponseEBM

Storeroom Item (Stock Item Detail) Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPStoreroom ItemRequest	jms/OUWAMERPStoreroom ItemRequest	Used to store Enterprise Resource Planning system Storeroom Item sync request.
OUWAMERPStoreroom ItemResponse	jms/OUWAMERPStoreroom ItemResponse	Used to store Oracle Utilities Work and Asset Management Storeroom Item sync response.
OUWAMERPStoreroom ItemRequestError	jms/OUWAMERPStoreroom ItemRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Storeroom Item request queue.
OUWAMERPStoreroom ItemResponseError	jms/OUWAMERPStoreroom ItemResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Storeroom Item response queue.

Storeroom Item (Stock Item Detail) Process External Web Service Call

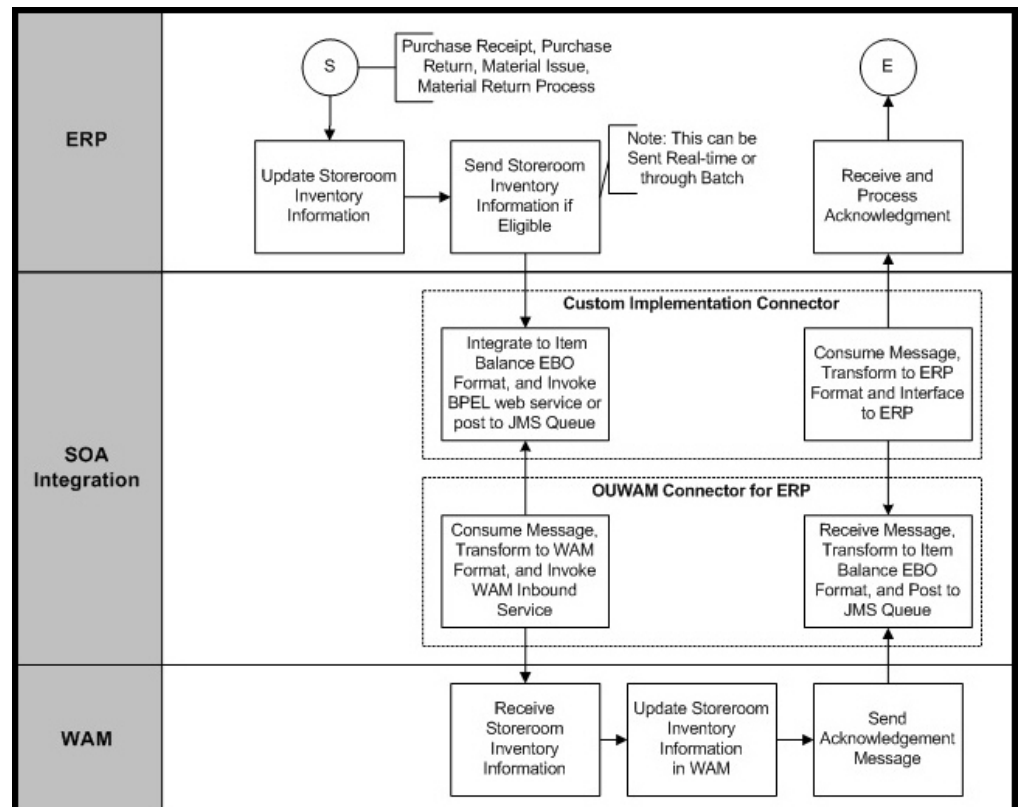
Application	Inbound Web Service	Description
WAM	W1-SyncRequestInbound	The sync request inbound service used for Master Data Sync in WAM.

Item Balance (Stock Transaction) Synchronization Process

The Item Balance process is a transactional sync process triggered from the Enterprise Resource Planning system.

Refer to the [Item Balance \(Stock Transaction\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Item Balance Business Process Diagram

Item Balance Processing Details

This process is triggered whenever the storeroom inventory is updated in the Enterprise Resource Planning system. Storeroom inventory is updated during purchase receipt, purchase return, material issue and material return.

- The Enterprise Resource Planning system sends Item Balance information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Item Balance EBO format and invoke the requestor process to publish to the Item Balance request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.

- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Item Balance EBO format and adds it to the Item Balance response queue.
- A custom implementation connector transforms this response and integrates with the ERP system.

Item Balance Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncItemBalanceERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncItemBalanceRespOUWAMUtilitiesReqABCImpl	SyncItemBalanceOUWAMUtilitiesProvABCImpl

Item Balance Process Adapter Services

Name	Description
SyncItemBalanceERPJMSProducer	This adapter is used by SyncItemBalanceERPReqABCImpl to write the EBO message coming from the ERP system to the Item Balance request queue.
SyncItemBalanceItemOUWAMUtilitiesJMSProducer	This adapter is used by the SyncItemBalanceOUWAMUtilitiesProvABCImpl process to consume EBO message from Item Balance request queue.
SyncItemBalanceItemRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncItemBalanceRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Item Balance response queue.

Item Balance Process EBO and EBM Details

EBO	EBM
Item Balance EBO	SyncItemBalanceListEBM SyncItemBalanceListResponseEBM

Item Balance Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPIItem BalanceRequest	jms/OUWAMERPIItem BalanceRequest	Used to store Enterprise Resource Planning system Item Balance sync request.
OUWAMERPIItem BalanceResponse	jms/OUWAMERPIItem BalanceResponse	Used to store Oracle Utilities Work and Asset Management Item Balance sync response
OUWAMERPIItem BalanceRequestError	jms/ OUWAMERPIItem BalanceRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Item Balance request queue.
OUWAMERPIItem BalanceResponseError	jms/OUWAMERPIItem BalanceResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Item Balance response queue.

Item Balance Process External Web Service Call

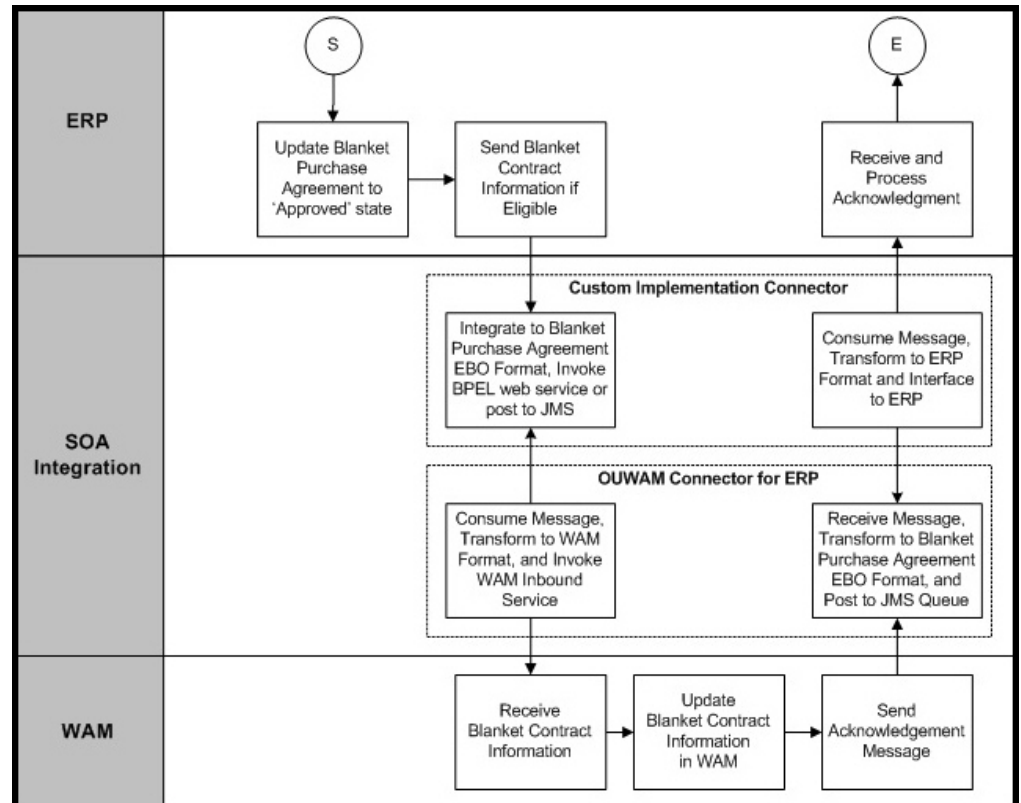
Application	Inbound Web Service	Description
WAM	W1-StockTransIntegInbound	The Stock Transaction inbound integration web service in WAM.

Blanket Contract (Purchase Agreement) Synchronization Process

The Blanket Contract (Purchase Agreement) process is a transactional sync process triggered from the Enterprise Resource Planning system.

Refer to the [Blanket Contract \(Purchase Agreement\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Blanket Contract (Purchase Agreement) Business Process Diagram

Blanket Contract (Purchase Agreement) Processing Details

This process is triggered when the Blanket Purchase Agreement is approved in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Blanket Purchase Agreement information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Blanket Purchase Agreement EBO format and invoke the requestor process to publish to the Blanket Purchase Agreement request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Blanket Purchase Agreement EBO format and adds it to the Blanket Purchase Agreement response queue.

- A custom implementation connector transforms the response and integrates with the ERP system.

Blanket Contract (Purchase Agreement) Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncBlanketPurchaseAgreementERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncBlanketPurchaseAgreementRespOUWAMUtilitiesReqABCImpl	SyncBlanketPurchaseAgreementOUWAMUtilitiesProvABCImpl

Blanket Contract (Purchase Agreement) Process Adapter Services

Name	Description
SyncBlanketPurchaseAgreementERPJMSProducer	This adapter is used by SyncBlanketPurchaseAgreementERPReqABCImpl to write the EBO message coming from the ERP system to the Blanket Purchase Agreement queue.
SyncBlanketPurchaseAgreementOUWAMUtilitiesJMSConsumer	This adapter is used by the SyncBlanketPurchaseAgreementOUWAMUtilitiesProvABCImpl process to consume EBO message from Blanket Purchase Agreement queue.
SyncBlanketPurchaseAgreementRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncBlanketPurchaseAgreementRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Receipt Inventory Transaction response queue.

Blanket Contract (Purchase Agreement) Process EBO and EBM Details

EBO	EBM
Blanket Purchase Agreement EBO	SyncBlanketPurchaseAgreementListEBM SyncBlanketPurchaseAgreementListResponseEBM

Blanket Contract (Purchase Agreement) Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPBlanketPurchaseAgreementRequest	jms/OUWAMERPBlanketPurchaseAgreementRequest	Used to store Enterprise Resource Planning system Blanket Purchase Agreement sync request.
OUWAMERPBlanketPurchaseAgreementResponse	jms/OUWAMERPBlanketPurchaseAgreementResponse	Used to store Oracle Utilities Work and Asset Management Blanket Purchase Agreement sync response.

Queue Name	JNDI Name	Description
OUWAMERPBlanket PurchaseAgreementRequestError	jms/OUWAMERPBlanket PurchaseAgreementRequestError	Corresponding Error Queue For Enterprise For Resource Planning Blanket Purchase Agreement request queue.
OUWAMERPBlanket PurchaseAgreementResponseError	jms/OUWAMERPBlanket PurchaseAgreementResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Blanket Purchase Agreement response queue.

Blanket Contract (Purchase Agreement) Process External Web Service Call

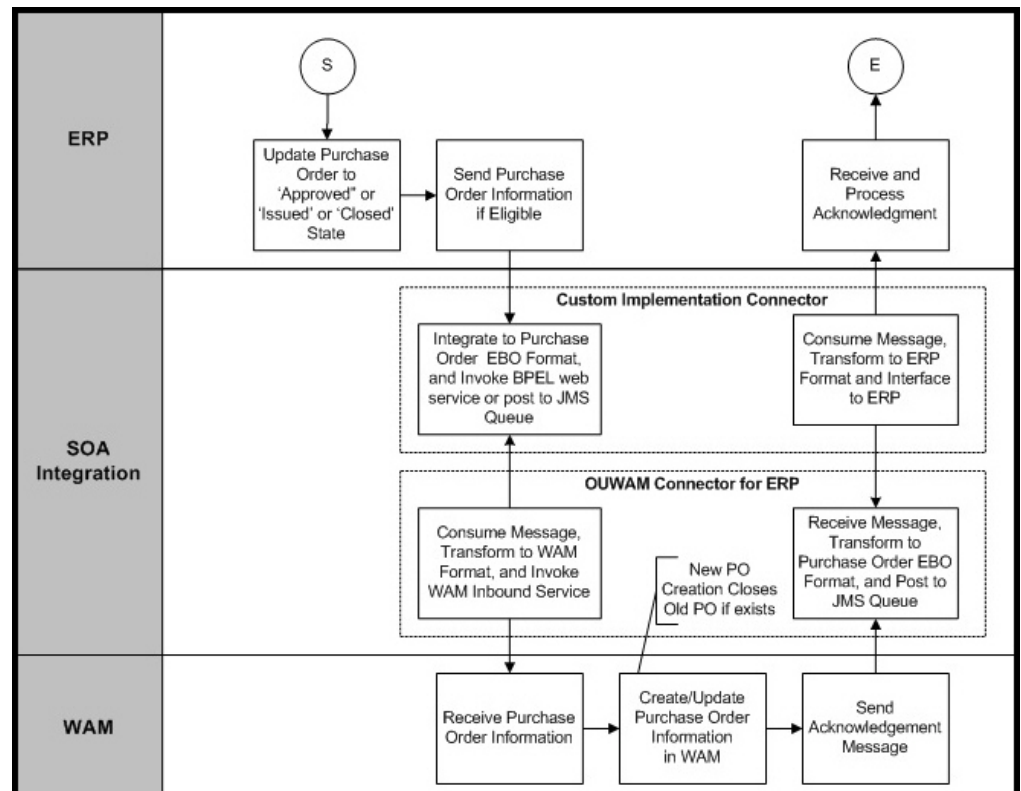
Application	Inbound Web Service	Description
WAM	W1-BlanketContractIntegInbound	The Blanket Contract inbound integration web service in WAM.

Purchase Order Synchronization Process

The Purchase Order process is a transactional sync process triggered from the Enterprise Resource Planning system.

Refer to the [Purchase Order Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Purchase Order Business Process Diagram

Purchase Order Processing Details

This process is triggered when the Purchase Order (PO) is in the 'Approved' or 'Issued' status or when the PO is in 'Closed' status in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Purchase Order information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system and transform information into a message using the Purchase Order EBO format and invoke the requestor process to publish to the Purchase Order request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to the Purchase Order EBO format and adds it to the Purchase Order response queue.

- A custom implementation connector transforms this response and integrates with the ERP system.

When the Enterprise Resource Planning system updates a PO, most of the time, it creates a new PO record with the same PO Number with a new revision number. This new updated PO record will be in *Pending Approval* status. Once this updated PO record is *Approved*, it will be sent to Oracle Utilities Work and Asset Management.

Some minor updates, like description changes, in the Enterprise Resource Planning system do not create a new PO record. These changes are sent to Oracle Utilities Work and Asset Management using the same PO record's PO Number and revision number.

When Oracle Utilities Work and Asset Management processes the PO record coming from the Enterprise Resource Planning system, it has to first validate if that PO Number exists in Oracle Utilities Work and Asset Management. Based on validation the Oracle Utilities Work and Asset Management system completes the following:

- If the PO Number does not exist, it will create that PO in Oracle Utilities Work and Asset Management.
- If the PO Number exists in Oracle Utilities Work and Asset Management, the system validates the revision number.
 - If the Revision number in Oracle Utilities Work and Asset Management and in the PO request message are the same, updates the PO record in Oracle Utilities Work and Asset Management.
 - If the Revision number in Oracle Utilities Work and Asset Management is different from the revision number of the PO request message, creates a new PO record using the data in the PO request message and changes the status of the old PO in Oracle Utilities Work and Asset Management to 'Closed'.

Note: Different Enterprise Resource Planning systems may vary in processing their PO.

Purchase Order Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncPurchaseOrderERPreqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncPurchaseOrderRespOUWAMUtilitiesReqABCImpl	SyncPurchaseOrderOUWAMUtilitiesProvABCImpl

Purchase Order Process Adapter Services

Name	Description
SyncPurchaseOrderERP JMSProducer	This adapter is used by SyncPurchaseOrderERPReqABCImpl to write the EBO message coming from the ERP system to the Purchase Order request queue.
SyncPurchaseOrderOUWAMUtilities JMSConsumer	This adapter is used by the SyncPurchaseOrderOUWAMUtilitiesProvABCImpl process to consume EBO message from Purchase Order request queue.
SyncPurchaseOrderRespOUWAMUtilities JMSProducer	This adapter is used by SyncPurchaseOrderRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Purchase Order response queue.

Purchase Order Process EBO and EBM Details

EBO	EBM
Purchase Order EBO	SyncPurchaseOrderListEBM SyncPurchaseOrderListResponseEBM

Purchase Order Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPPurchaseOrderRequest	jms/OUWAMERPPurchaseOrderRequest	Used to store Enterprise Resource Planning system Purchase Order sync request
OUWAMERPPurchaseOrderResponse	jms/OUWAMERPPurchaseOrderResponse	Used to store Oracle Utilities Work and Asset Management Purchase Order sync response
OUWAMERPPurchaseOrderRequestError	jms/OUWAMERPPurchaseOrderRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Purchase Order request queue.
OUWAMERPPurchaseOrderResponseError	jms/OUWAMERPPurchaseOrderResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Purchase Order response queue.

Purchase Order Process External Web Service Call

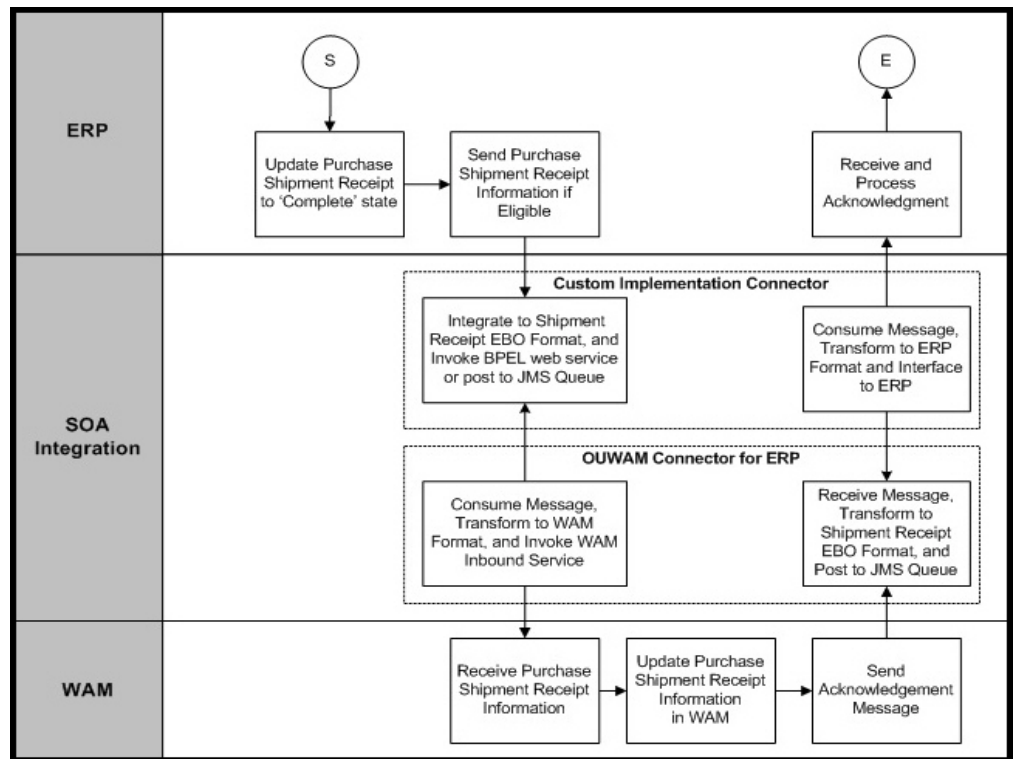
Application	Inbound Web Service	Description
WAM	W1-PurchaseOrderIntegInbound	The Purchase Order inbound integration web service in WAM.

Shipment Receipt (Purchase Receipt) Synchronization Process

The Shipment Receipt process is a transactional sync process triggered from the Enterprise Resource Planning system.

Refer to the [Shipment Receipt \(Purchase Receipt\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Shipment Receipt Business Process Diagram

Shipment Receipt Processing Details

This process is triggered when the Receipt of a Purchase Order (PO) is in the 'Completed' status in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Purchase Receipt information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Shipment Receipt EBO format and invoke the requestor process to publish to the Shipment Receipt request queue.

- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Shipment Receipt EBO format and adds it to the Shipment Receipt response queue.
- A custom implementation connector transforms the response and integrates with the ERP system.

Shipment Receipt Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncShipmentReceiptERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncShipmentReceiptRespOUWAMUtilitiesReqABCImpl	SyncShipmentReceiptOUWAMUtilitiesProvABCImpl

Shipment Receipt Process Adapter Services

Name	Description
SyncShipmentReceiptERPJMSProducer	This adapter is used by SyncShipmentReceiptERPReqABCImpl to write the EBO message coming from the ERP system to the Shipment Receipt request queue.
SyncShipmentReceiptOUWAMUtilitiesJMSConsumer	This adapter is used by the SyncReceiptInvTransOUWAMUtilitiesProvABCImpl process to consume EBO message from Shipment Receipt request queue.
SyncShipmentReceiptRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncReceiptInvTransRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Shipment Receipt response queue.

Shipment Receipt Process EBO and EBM Details

EBO	EBM
Shipment Receipt EBO	SyncShipmentReceiptListEBM SyncShipmentReceiptListResponseEBM

Shipment Receipt Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERP ShipmenReceiptRequest	jms/OUWAMERP ShipmenReceiptRequest	Used to store Enterprise Resource Planning system Shipment Receipt sync request
OUWAMERP ShipmenReceiptResponse	jms/OUWAMERP ShipmenReceiptResponse	Used to store Oracle Utilities Work and Asset Shipment Receipt sync response
OUWAMERP ShipmenReceiptRequestError	jms/ OUWAMERP ShipmenReceiptRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Shipment Receipt request queue.
OUWAMERP ShipmenReceiptResponseError	jms/OUWAMERP ShipmenReceiptResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Shipment Receipt response queue.

Shipment Receipt Process External Web Service Call

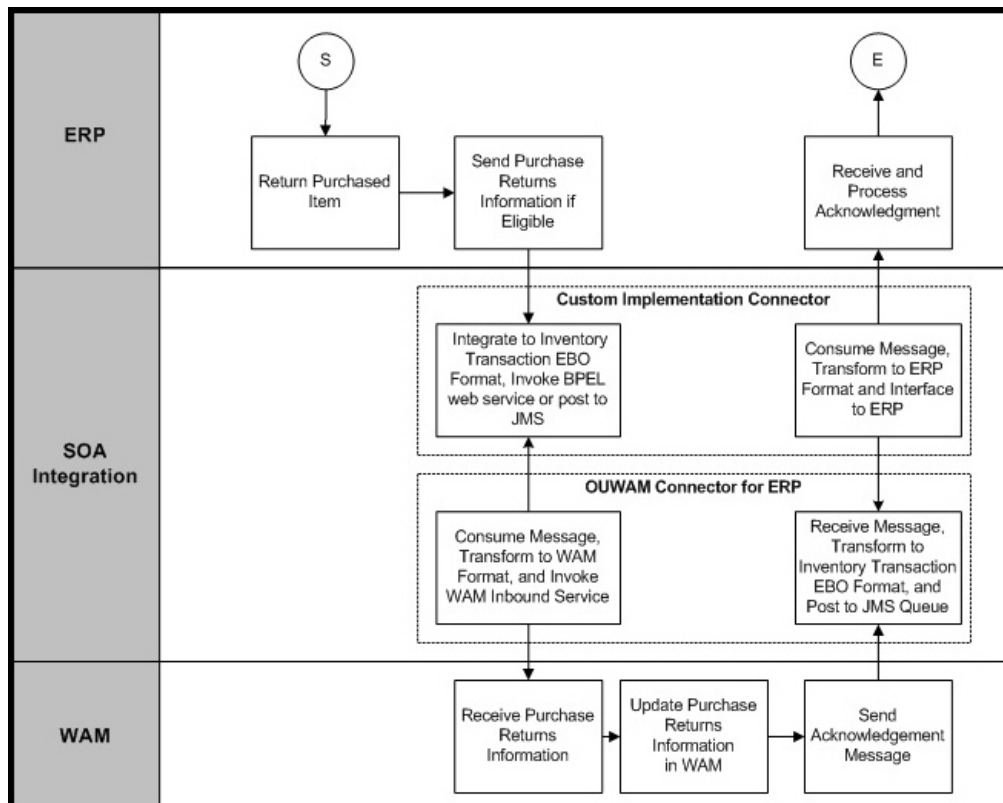
Application	Inbound Web Service	Description
WAM	W1-ReceiptIntegInbound	The Receipt inbound integration web service in WAM.

Purchase Return – Inventory Transaction Synchronization Process

The Purchase Return Inventory transaction process is a transactional sync process triggered from the Enterprise Resource Planning system.

Refer to the [Purchase Return Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Purchase Return Business Process Diagram

Purchase Return – Inventory Transaction Processing Details

This process is triggered when a purchased item is returned in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Purchase Return Inventory Transaction information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Inventory transaction EBO format and invoke the requestor process to publish to the Purchase Return Inventory Transaction request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Inventory transaction EBO format and adds it to the Purchase Return Inventory Transaction response queue.

- A custom implementation connector transforms the response and integrates with the ERP system.

Purchase Return – Inventory Transaction Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncPurReturnInventoryTxnERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncPurReturnInventoryTxnRespOUWAMUtilitiesReqABCImpl	SyncPurReturnInventoryTxnOUWAMUtilitiesProvABCImpl

Purchase Return – Inventory Transaction Process Adapter Services

Name	Description
SyncPurReturnInventoryTxnERPJMSProducer	This adapter is used by SyncPurReturnInventoryTxnERPReqABCImpl to write the EBO message coming from the ERP system to the PurReturnInventoryTxn queue
SyncPurReturnInventoryTxnOUWAMUtilities]MSConsumer	This adapter is used by the SyncPurReturnInventoryTxnOUWAMUtilitiesProvABCImpl process to consume EBO message from PurReturnInventoryTxn queue
SyncPurReturnInventoryTxnRespOUWAMUtilities]MSProducer	This adapter is used by SyncPurReturnInventoryTxnRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the PurReturnInventoryTxn response queue.

Purchase Return – Inventory Transaction Process EBO and EBM Details

EBO	EBM
Inventory Transaction EBO	SyncInventoryTransactionListEBM SyncInventoryTransactionListResponseEBM

Purchase Return – Inventory Transaction Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPPurReturn InventoryTxnRequest	jms/OUWAMERPPurReturn InventoryTxnRequest	Used to store Enterprise Resource Planning system Purchase Return sync request.
OUWAMERPPurReturn InventoryTxnResponse	jms/OUWAMERPPurReturn InventoryTxnResponse	Used to store Oracle Utilities Work and Asset Management Purchase Return sync response.
OUWAMERPPurReturn InventoryTxnRequestError	jms/OUWAMERPPurReturn InventoryTxnRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Purchase Return request queue.
OUWAMERPPurReturn InventoryTxnResponseError	jms/OUWAMERPPurReturn InventoryTxnResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Purchase Return response queue.

Purchase Return – Inventory Transaction Process External Web Service Call

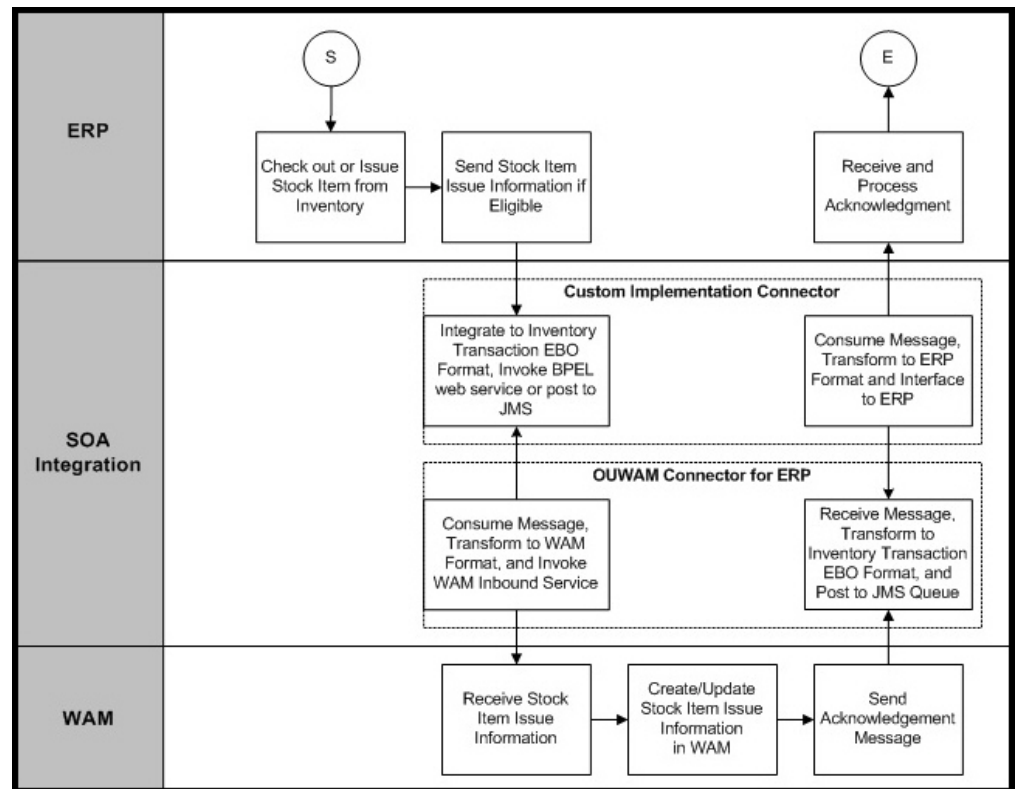
Application	Inbound Web Service	Description
WAM	W1-PurchaseReturnIntegInbound	The Purchase Return inbound integration web service in WAM.

Material Issue - Inventory Transaction Synchronization Process

The Material Issue Inventory Transaction process is a transactional sync process triggered from the Enterprise Resource Planning system.

Refer to the [Material Issue Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Material Issue Business Process Diagram

Material Issue - Inventory Transaction Processing Details

This process is triggered when a stock item is checked out or issued from inventory in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Material Issue information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Inventory Transaction EBO format and invoke the requestor process to publish to the Material Issue Inventory Transaction request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Inventory Transaction EBO format and adds it to the Material Issue Inventory Transaction response queue.

- A custom implementation connector transforms the response and integrates with the ERP system.

Material Issue - Inventory Transaction Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncMatIssueInventoryTxnERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncMatIssueInventoryTxnRespOUWAMUtilitiesReqABCImpl	SyncMatIssueInventoryTxnOUWAMUtilitiesProvABCImpl

Material Issue - Inventory Transaction Process Adapter Services

Name	Description
SyncMatIssueInventoryTxnERPJMSProducer	This adapter is used by SyncMatIssueInventoryTxnERPReqABCImpl to write the EBO message coming from the ERP system to the MatIssueInventoryTxn queue
SyncMatIssueInventoryTxnOUWAMUtilitiesJMConsumer	This adapter is used by the SyncMatIssueInventoryTxnOUWAMUtilitiesProvABCImpl process to consume EBO message from MatIssueInventoryTxn queue
SyncMatIssueInventoryTxnRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncMatIssueInventoryTxnRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the MatIssueInventoryTxn response queue.

Material Issue - Inventory Transaction Process EBO and EBM Details

EBO	EBM
Inventory Transaction EBO	SyncInventoryTransactionListEBM SyncInventoryTransactionListResponseEBM

Material Issue - Inventory Transaction Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPMatIssue InventoryTxnRequest	jms/OUWAMERPMatIssue InventoryTxnRequest	Used to store Enterprise Resource Planning system Material Issue sync request
OUWAMERPMatIssue InventoryTxnResponse	jms/OUWAMERPMatIssue InventoryTxnResponse	Used to store Oracle Utilities Work and Asset Management Material Issue sync response
OUWAMERPMatIssue InventoryTxnRequestError	jms/OUWAMERPMatIssue InventoryTxnRequesError	Corresponding Error Queue For Enterprise For Resource Planning system Material Issue request queue.
OUWAMERPMatIssue InventoryTxnResponseError	jms/OUWAMERPMatIssue InventoryTxnResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Material Issue response queue.

Material Issue - Inventory Transaction Process External Web Service Call

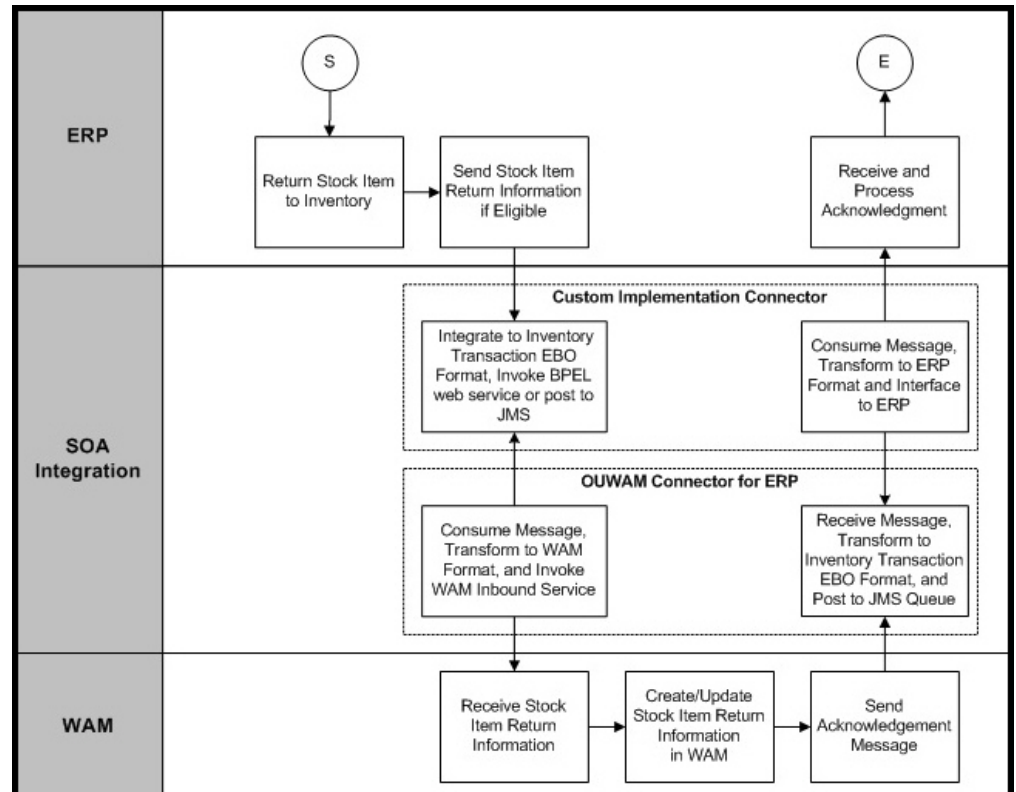
Application	Inbound Web Service	Description
WAM	W1-MaterialIssueIntegInbound	The Material Issue inbound integration web service in WAM.

Material Return – Inventory Transaction Synchronization Process

The Material Return Inventory transaction process is a transactional sync process triggered from the Enterprise Resource Planning system.

Refer to the [Material Return Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Material Return Business Process Diagram

Material Return – Inventory Transaction Processing Details

The Material Return Inventory transaction process is triggered from the ERP system when a stock item is returned to inventory.

- The ERP system sends Material Return information to the integration requestor process in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Inventory Transaction EBO format and invoke the requestor process to publish to the Material Return Inventory Transaction request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to WAM, formats it, and calls the WAM inbound service for Material Return.
- WAM processes this message and sends a response.
- The integration response requestor transforms this message from WAM format to the Inventory Transaction EBO format and adds it to the Material Return Inventory Transaction response queue.
- A custom implementation connector transforms the response and integrates with the ERP system.

Material Return – Inventory Transaction Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncMatReturnInventoryTxnERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncMatReturnInventoryTxnRespOUWAM UtilitiesReqABCImpl	SyncMatReturnInventoryTxnOUWAM UtilitiesProvABCImpl

Material Return – Inventory Transaction Process Adapter Services

Name	Description
SyncMatReturnInventoryTxnERPJMSProducer	This adapter is used by SyncMatReturnInventoryTxnERPReqABCImpl to write the EBO message coming from the ERP system to the MatReturnInventoryTxn queue
SyncMatReturnInventoryTxnOUWAMUtilitiesJMConsumer	This adapter is used by the SyncMatReturnInventoryTxnOUWAMUtilitiesProvABCImpl process to consume EBO message from MatReturnInventoryTxn queue
SyncMatReturnInventoryTxnRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncMatReturnInventoryTxnRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the MatReturnInventoryTxn response queue.

Material Return – Inventory Transaction Process EBO and EBM Details

EBO	EBM
Inventory Transaction EBO	SyncInventoryTransactionListEBM SyncInventoryTransactionListResponseEBM

Material Return – Inventory Transaction Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPMatReturn InventoryTxnRequest	jms/OUWAMERPMatReturn InventoryTxnRequest	Used to store Enterprise Resource Planning system Material Return sync request
OUWAMERPMatReturn InventoryTxnResponse	jms/OUWAMERPMatReturn InventoryTxnResponse	Used to store Oracle Utilities Work and Asset Management Material Return sync response
OUWAMERPMatReturn InventoryTxnRequestError	jms/OUWAMERPMatReturn InventoryTxnRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Material Return request queue.
OUWAMERPMatReturn InventoryTxnResponse	jms/OUWAMERPMatReturn InventoryTxnResponseErrpr	Corresponding Error Queue For Oracle Utilities Work and Asset Management Material Return response queue.

Material Return – Inventory Transaction Process External Web Service Call

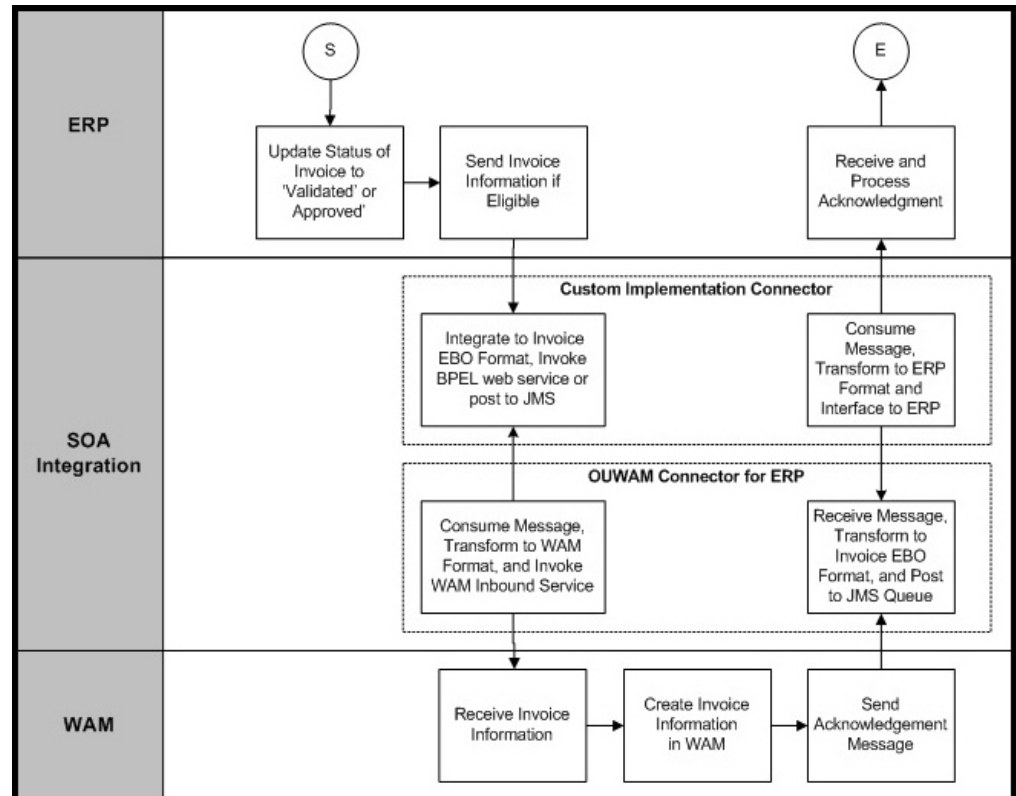
Application	Inbound Web Service	Description
WAM	W1-MaterialReturnIntegInbound	The Material Return Line inbound integration web service in WAM.

Invoice Synchronization Process

The Invoice process is a transactional sync process triggered from the Enterprise Resource Planning system. This process is only used with Model 2 - ESC.

Refer to the [Invoice Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Invoice Business Process Diagram

Invoice Processing Details

This process is triggered when the invoice is validated or approved in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Invoice information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Invoice EBO format and invoke the requestor process to publish to the Invoice request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Invoice EBO format and adds it to the Invoice response queue.

- A custom implementation connector transforms the response and integrates with the ERP system.

Invoice Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncInvoiceERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncInvoiceRespOUWAMUtilitiesReqABCImpl	SyncInvoiceOUWAMUtilitiesProvABCImpl

Invoice Process Adapter Services

Name	Description
SyncInvoiceERPJMSProducer	This adapter is used by SyncInvoiceERPReqABCImpl to write the EBO message coming from the ERP system to the Invoice queue
SyncInvoiceOUWAMUtilitiesJMSConsumer	This adapter is used by the SyncInvoiceOUWAMUtilitiesProvABCImpl process to consume EBO message from Invoice queue
SyncInvoiceRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncInvoiceRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Invoice response queue.

Invoice Process EBO and EBM Details

EBO	EBM
Invoice EBO	SyncInvoiceListEBM SyncInvoiceListResponseEBM

Invoice Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPInvoiceFromERP Request	jms/ OUWAMERPInvoiceFromERP Request	Used to store Enterprise Resource Planning system Invoice sync request
OUWAMERPInvoiceFromERP Response	jms/ OUWAMERPInvoiceFromERP Response	Used to store Oracle Utilities Work and Asset Management Invoice sync response
OUWAMERPInvoiceFromERP RequestError	jms/ OUWAMERPInvoiceFromERP RequestError	Corresponding Error Queue For Enterprise For Resource Planning system Invoice request queue.
OUWAMERPInvoiceFromERP Response	jms/ OUWAMERPInvoiceFromERP ResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Invoice response queue.

Invoice Process External Web Service Call

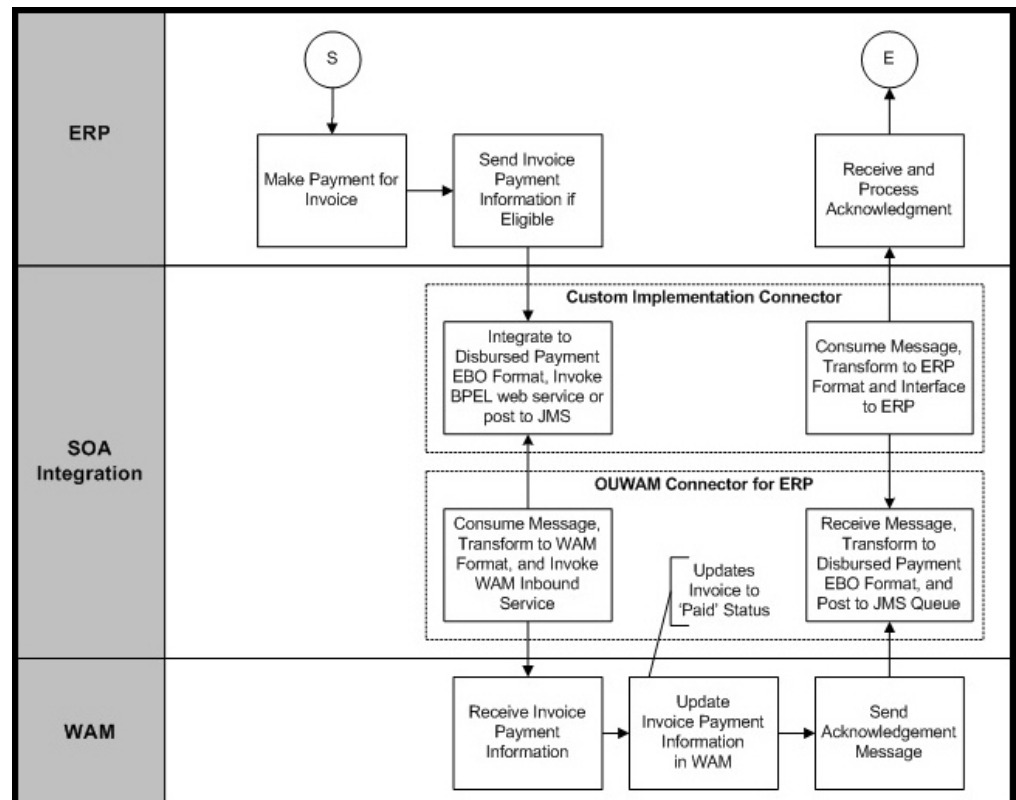
Application	Inbound Web Service	Description
WAM	W1-InvoiceIntegInbound	The Invoice inbound integration web service in WAM.

Invoice Payment (Disbursement) Synchronization Process

The Invoice Payment (Disbursement) process is a transactional sync process triggered from the Enterprise Resource Planning system. This Invoice Payment (Disbursement) process is used in both business models. Whether invoice is coming from the Enterprise Resource Planning or Oracle Utilities Work and Asset Management, Invoice payment is always coming from the Enterprise Resource Planning system.

Refer to the [Invoice Payment \(Disbursement\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Invoice Payment Business Process Diagram

Invoice Payment (Disbursement) Processing Details

This process is triggered when a check is cut or payment for the invoice is made by the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends Invoice Payment information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Disbursed Payment EBO format and invoke the requestor process to publish to the Disbursed Payment request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.
- Oracle Utilities Work and Asset Management processes this message and sends a response.

- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Disbursed Payment EBO format and adds it to the Disbursed Payment response queue.
- A custom implementation connector transforms the response and integrates with the ERP system.

Invoice Payment (Disbursement) Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncDisbursementPaymentERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncDisbursementPaymentRespOUWAMUtilitiesReqABCImpl	SyncDisbursementPaymentOUWAMUtilitiesProvABCImpl

Invoice Payment (Disbursement) Process Adapter Services

Name	Description
SyncDisbursementPaymentERPJMSProducer	This adapter is used by SyncDisbursementPaymentERPReqABCImpl to write the EBO message coming from the ERP system to the DisbursementPayment queue
SyncDisbursementPaymentOUWAMUtilitiesJMSConsumer	This adapter is used by the SyncDisbursementPaymentOUWAMUtilitiesProvABCImpl process to consume EBO message from DisbursementPayment queue
SyncDisbursementPaymentRespOUWAMUtilitiesJMSProducer	This adapter is used by SyncDisbursementPaymentRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the DisbursementPayment response queue.

Invoice Payment (Disbursement) Process EBO and EBM Details

EBO	EBM
DisbursementPayment EBO	SyncDisbursementPaymentListEBM SyncDisbursementPaymentListResponseEBM

Invoice Payment (Disbursement) Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPDIsbursementPaymentRequest	jms/OUWAMERPDIsbursementPaymentRequest	Used to store Enterprise Resource Planning system Disbursed Payment sync request
OUWAMERPDIsbursementPaymentResponse	jms/OUWAMERPDIsbursementPaymentResponse	Used to store Oracle Utilities Work and Asset Management Disbursed Payment sync response
OUWAMERPDIsbursementPaymentRequestError	jms/OUWAMERPDIsbursementPaymentRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Disbursed Payment request queue.
OUWAMERPDIsbursementPaymentResponseError	jms/OUWAMERPDIsbursementPaymentResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Disbursed Payment response queue.

Invoice Payment (Disbursement) Process External Web Service Call

Application	Inbound Web Service	Description
WAM	W1-InvoicePaymentIntegInbound	The Invoice Payment inbound integration web service in WAM.

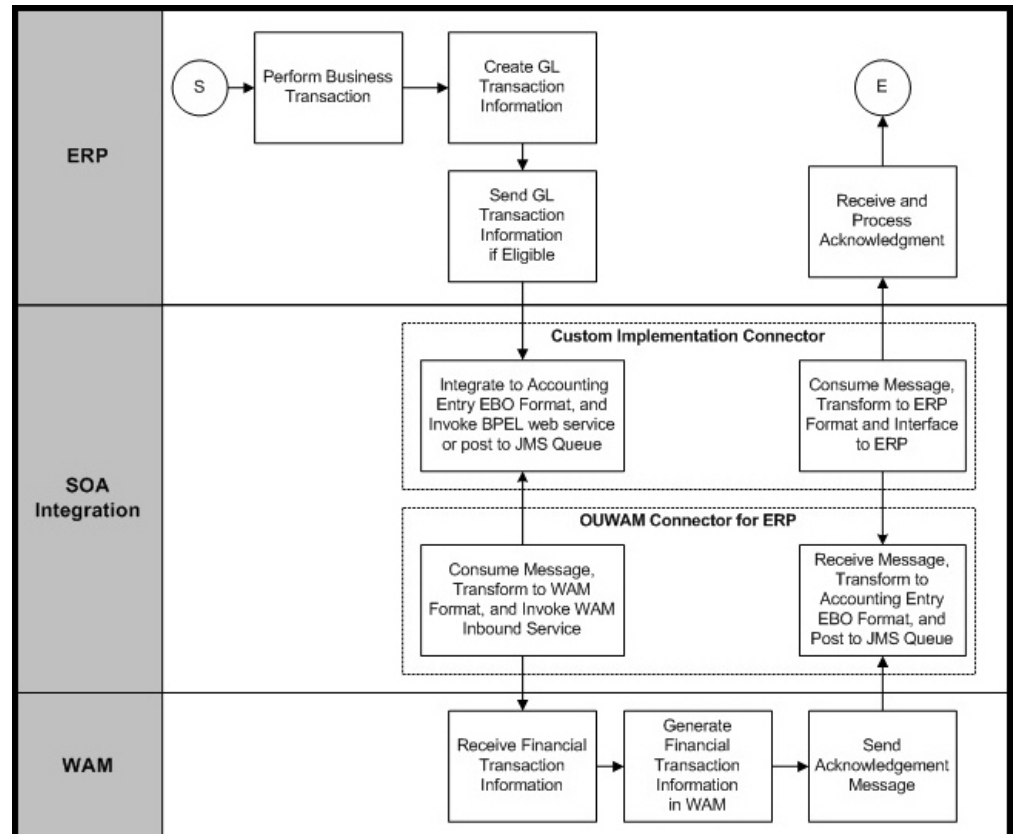
GL Transaction (Accounting Entry) Synchronization Process

The GL Transaction (Accounting Entry) process is a master data sync process triggered from the Enterprise Resource Planning system. This process is only used when the your implementation uses Model 2 - ESC.

Note: There is another Accounting Entry synchronization process triggered from Oracle Utilities Work and Asset Management which is only used with Model 1 – WSC.

Refer to the [GL Transaction \(Accounting Entry\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



GL Transaction (Accounting Entry) Business Process Diagram

GL Transaction (Accounting Entry) Processing Details

This process is triggered on create/update of the general ledger (GL) Transaction information in the Enterprise Resource Planning system.

- The Enterprise Resource Planning system sends GL transaction information to the integration in ERP format.
- A custom implementation connector can be developed to integrate with the ERP system to transform information into a message using the Accounting Entry EBO format and invoke the requestor process to publish to the Accounting Entry request queue.
- The WAM-ERP connector consumes this message, transforms it from EBO to Oracle Utilities Work and Asset Management format and invokes inbound web service in Oracle Utilities Work and Asset Management.

- Oracle Utilities Work and Asset Management processes this message and sends a response.
- The integration response requestor transforms this message from Oracle Utilities Work and Asset Management format to Accounting Entry EBO format and adds it to the Accounting Entry From Enterprise Resource Planning response queue.
- A custom implementation connector transforms the response and integrates with the ERP system.

GL Transaction (Accounting Entry) Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncAccountingEntryERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncAccountingEntryRespOUWAMUtilitiesReqABCImpl	SyncAccountingEntryOUWAMUtilitiesProvABCImpl

GL Transaction (Accounting Entry) Process Adapter Services

Name	Description
SyncAccountingEntryERP JMSProducer	This adapter is used by SyncAccountingEntryERPReqABCImpl to write the EBO message coming from the ERP system to the Accounting Entry request queue.
SyncAccountingEntryOUWAMUtilities JMSConsumer	This adapter is used by the SyncAccountingEntryOUWAMUtilitiesProvABCImpl process to consume EBO message from Accounting Entry request queue.
SyncAccountingEntryRespOUWAMUtilities JMSProducer	This adapter is used by SyncAccountingEntryRespOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Accounting Entry response queue.

GL Transaction (Accounting Entry) Process EBO and EBM Details

EBO	EBM
Accounting Entry EBO	SyncAccountingEntryListEBM SyncAccountingEntryListResponseEBM

GL Transaction (Accounting Entry) Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPAccountingEntryFromERPRequest	jms/OUWAMERPAccountingEntryFromERPRequest	Used to store Enterprise Resource Planning system Accounting Entry sync request
OUWAMERPAccountingEntryFromERPResponse	jms/OUWAMERPAccountingEntryFromERPResponse	Used to store Oracle Utilities Work and Asset Management Accounting Entry sync response
OUWAMERPAccountingEntryFromERPRequestError	jms/OUWAMERPAccountingEntryFromERPRequestError	Corresponding Error Queue For Enterprise For Resource Planning system Accounting Entry request queue.
OUWAMERPAccountingEntryFromERPResponseError	jms/OUWAMERPAccountingEntryFromERPResponseError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Accounting Entry response queue.

GL Transaction (Accounting Entry) Process External Web Service Call

Application	Inbound Web Service	Description
WAM	W1-FinancialTransIntegInbound	The Financial Transaction inbound integration web service in WAM.

Oracle Utilities Work and Asset Management Initiated Processes

This section provides information on processing when processing is initiated from Oracle Utilities Work and Asset Management, including:

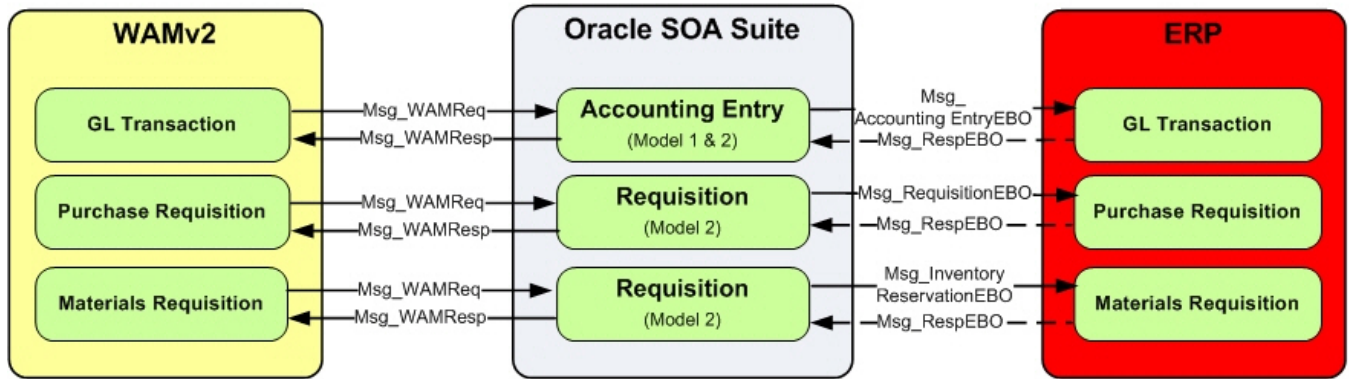
- [High Level Processing Overview](#)
- [Integration Points](#)

High Level Processing Overview

The following diagrams show the integration processes from Oracle Utilities Work and Asset Management to Enterprise Resource Planning.



WAM to the ERP System Master Data Synchronization Processes



Oracle Utilities Work and Asset Management to the ERP System Transactional Processes

Integration Points

The following integration points are Oracle Utilities Work and Asset Management initiated:

#	Integration Point	Process Type	Comments
1	Supplier Party (Vendor/Vendor Location) Synchronization Process (WAM to ERP)	Master Data Sync	Vendor and Vendor location information sync Supplier Party EBO used for transformation
2	GL Transaction (Accounting Entry) Synchronization Process (WAM to ERP)	Transactional	GL Transaction information sync from WAM to the ERP system Accounting Entry EBO used for transformation
3	Purchase Requisition Synchronization Process	Transactional	Purchase Requisition information sync Requisition EBO used for transformation
4	Material Requisition Synchronization Process	Transactional	Materials Request information from WAM to the ERP system. Inventory Reservation EBO used for transformation

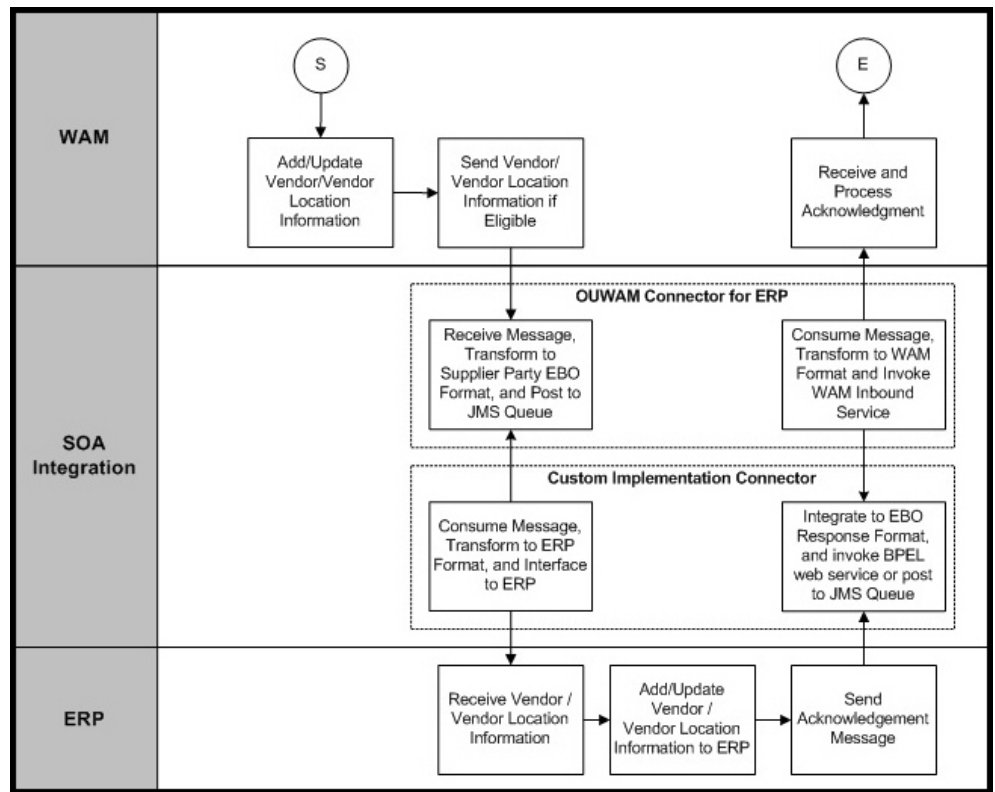
Supplier Party (Vendor/Vendor Location) Synchronization Process (WAM to ERP)

The Supplier Party process is a master data sync process triggered from the Oracle Utilities Work and Asset Management system. This process is only used with Model 2 - WSC.

Note: There is another Supplier Party process triggered from Enterprise Resource Planning which is only used with ESC.

Refer to the [Supplier Party \(Vendor/Vendor Location\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Supplier Party Business Process Diagram

Supplier Party (Vendor/Vendor Location) Processing Details

This process is triggered when the vendor location is activated in the Oracle Utilities Work and Asset Management system.

- The Oracle Utilities Work and Asset Management system sends vendor and vendor location information to the integration requestor process. Oracle Utilities Work and Asset Management sends only one vendor location information per message.
- The WAM-ERP connector transforms this message to the Supplier Party EBO format and saves this message to the Supplier Party queue.
- A custom implementation connector can be developed to consume and transform the information in EBO format to ERP format and integrate with the ERP system
- The Enterprise Resource Planning system sends a response back to the Integration Response Requestor process in the ERP format to indicate whether the record was successfully created in the Enterprise Resource Planning system.
- A custom implementation connector transforms this message into Supplier Party EBO format.
- The WAM-ERP connector transforms response from EBO to WAM format and invokes WAM inbound service.
- **Note:** Implementers must provide the code to consuming or retrieving the message from the queue and processing the message in the Enterprise Resource Planning system

- Integration Response Requestor adds the Supplier Party EBO format message to the Supplier Party from the Oracle Utilities Work and Asset Management response queue.
- The Integration Response Provider will consume the message from the response queue; transform the message from Supplier Party EBO format to Oracle Utilities Work and Asset Management format and call the Oracle Utilities Work and Asset Management system inbound service to process the response.

Supplier Party (Vendor/Vendor Location) Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncSupplierPartyRespERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncSupplierPartyOUWAMUtilitiesReqABCImpl	SyncSupplierpartyRespOUWAMUtilitiesProvABCImpl

Supplier Party Process Adapter Services

Name	Description
SyncSupplierPartyOUWAMUtilitiesJMSProducer	This adapter is used by SyncSupplierPartyOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Supplier Party request queue.
SyncSupplierPartyRespERPJMSProducer	This adapter is used by the SyncSupplierPartyRespERPReqABCImpl process to write the EBO message from the ERP system to the Supplier Party response queue.
SyncSupplierPartyRespOUWAMUtilitiesJMSConsumer	This adapter is used by SyncSupplierPartyRespOUWAMUtilitiesProvABCImpl to consume EBO message coming from the ERP system from the Supplier Party response queue.

Supplier Party Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPSupplierPartyFromWAMRequest	jms/OUWAMERPSupplierPartyFromWAMRequest	Used to store Oracle Utilities Work and Asset Management Supplier Party sync request
OUWAMERPSupplierPartyFromWAMResponse	jms/OUWAMERPSupplierPartyFromWAMResponse	Used to store Enterprise Resource Planning system Supplier Party sync response
OUWAMERPSupplierPartyFromWAMRequest Error	jms/OUWAMERPSupplierPartyFromWAMRequestError	Corresponding Error Queue For Oracle Utilities Work and Asset Management Supplier Party request queue.
OUWAMERPSupplierPartyFromWAMResponseError	jms/OUWAMERPSupplierPartyFromWAMResponseError	Corresponding Error Queue For Enterprise Resource Planning System Supplier Party response queue.

Supplier Party Process EBO and EBM Details

EBO	EBM
Supplier Party EBO	SyncSupplierPartyListEBM SyncSupplierPartyListResponseEBM

Supplier Party Process External Web Service Call

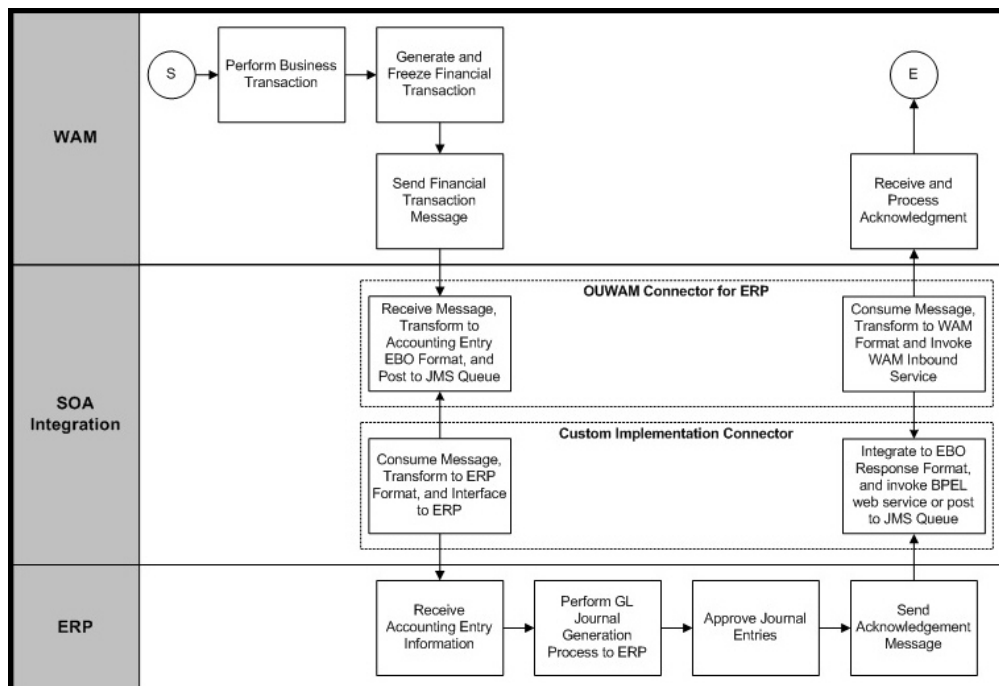
Application	Inbound Web Service	Description
WAM	F1-UpdateAndTransitionSyncRequest	This inbound web service updates and transitions sync requests in WAM.

GL Transaction (Accounting Entry) Synchronization Process (WAM to ERP)

The Accounting Entry process is a transactional process triggered from the Oracle Utilities Work and Asset Management system.

Refer to the [GL Transaction \(Accounting Entry\) Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Accounting Entry Business Process Diagram

Accounting Entry Processing Details

This process is triggered on create/update of GL Transaction information in the Oracle Utilities Work and Asset Management system.

- Oracle Utilities Work and Asset Management system sends Accounting Entry information to the integration requestor process.
- The WAM-ERP connector transforms this message to the Accounting Entry EBO format and saves this message to the Accounting Entry queue.
- A custom implementation connector can be developed to consume and transform the information in EBO format to ERP format and integrate with the ERP system.
- The Enterprise Resource Planning system processes the message and sends a response back to the Integration Response Requestor process in the ERP format to indicate whether the record was successfully created in the Enterprise Resource Planning system.

Note: Implementers must provide the code to consuming or retrieving the message from the queue and processing the message in the Enterprise Resource Planning system.

- A custom implementation connector transforms this message into the Accounting Entry EBO format.
- The WAM-ERP connector transforms response from EBO to WAM format and invokes WAM inbound service.

Accounting Entry Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncAccountingEntryRespERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncAccountingEntryOUWAMUtilitiesReqABCImpl	SyncAccountingEntryRespOUWAMUtilitiesProvABCImpl

Accounting Entry Process Adapter Services

Name	Description
SyncAccountingEntryOUWAMUtilities]MSProducer	This adapter is used by SyncAccountingEntryOUWAMUtilitiesReqABCImpl to write the EBO message coming from Oracle Utilities Work and Asset Management to the Accounting Entry queue.

Accounting Entry Process EBO and EBM Details

EBO	EBM
Accounting Entry EBO	SyncAccountingEntryListEBM SyncAccountingEntryListResponseEBM

Accounting Entry Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPAccountingEntryRequest	jms/OUWAMERPAccountingEntryRequest	Used to store Oracle Utilities Work and Asset Management GL Transaction request.
OUWAMERPAccountingEntryResponse	jms/OUWAMERPAccountingEntryResponse	Used to store Enterprise Resource Planning system Accounting Entry response.
OUWAMERPAccountingEntryRequestError	jms/OUWAMERPAccountingEntryRequestError	Corresponding Oracle Utilities Work and Asset Management GL Transaction request queue.
OUWAMERPAccountingEntryResponseError	jms/OUWAMERPAccountingEntryResponseError	Corresponding Enterprise Resource Planning system Accounting Entry response queue.

Accounting Entry Processing External Web Service Call

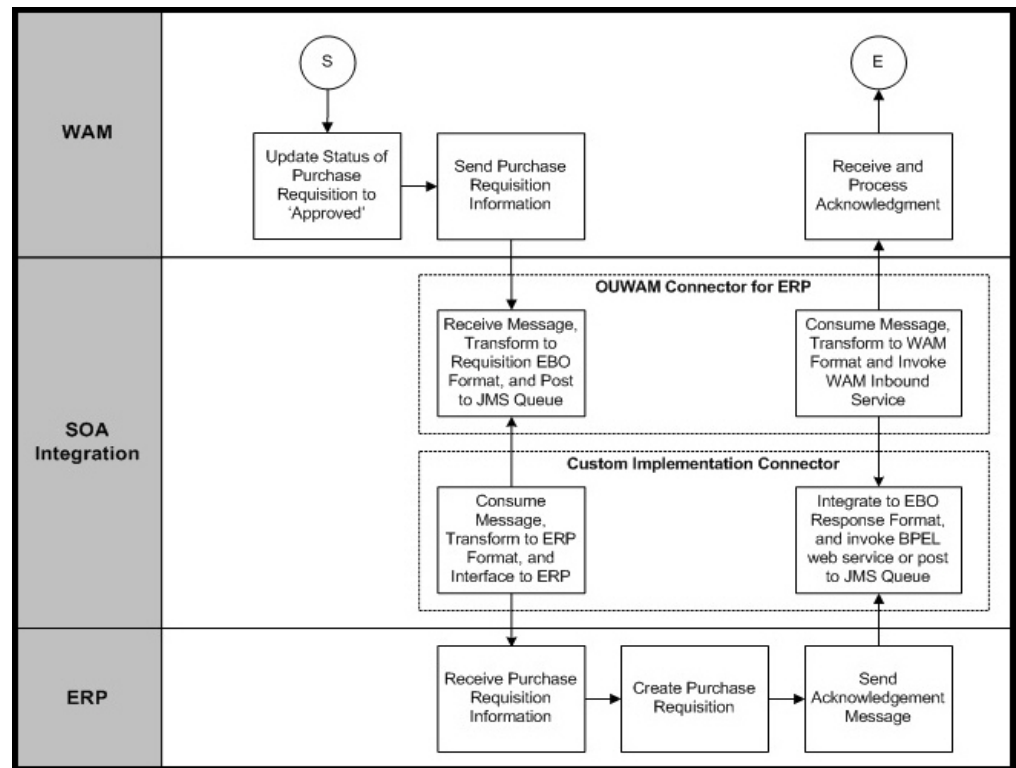
Application	Inbound Web Service	Description
WAM	F1-UpdateAndTransitionSyncRequest	This inbound web service updates and transitions sync requests in WAM.

Purchase Requisition Synchronization Process

The Purchase Requisition process is a transactional sync process triggered from the Oracle Utilities Work and Asset Management system.

Refer to the [Purchase Requisition Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Purchase Requisition Business Process Diagram

Purchase Requisition Processing Details

This process is triggered when purchase requisition is '*Approved*' in the Oracle Utilities Work and Asset Management system.

- Oracle Utilities Work and Asset Management system sends purchase requisition information to the integration requestor process.
- The WAM-ERP connector transforms this message to the Requisition EBO format and save this message to the Requisition request queue.
- A custom implementation connector can be developed to consume and transform the information in EBO format to ERP format and integrate with the ERP system
- The Enterprise Resource Planning system sends a response back to the Integration Response Requestor process in the ERP format to indicate whether the record was successfully created in the Enterprise Resource Planning system.

Note: Implementers must provide the code to consuming or retrieving the message from the queue and processing the message in the Enterprise Resource Planning system.

- A custom implementation connector transforms this message into Requisition EBO format.
- The WAM-ERP connector transforms response from EBO to WAM format and invokes WAM inbound service.

When Oracle Utilities Work and Asset Management sends the Requisition to the Enterprise Resource Planning system, the requisition line will either contain the Enterprise Resource Planning stock item system generated ID (resourceTypeExternalId) or the item description when the item or resource is not in the Enterprise Resource Planning system. It passes either the item ID or the item description.

Purchase Requisition cancellation and updates are completed in the Enterprise Resource Planning system and not in Oracle Utilities Work and Asset Management. Additionally, the Enterprise Resource Planning system does not send any Purchase Requisition updates back to Oracle Utilities Work and Asset Management. Only acknowledgements on whether or not the Requisition was received.

If Requisition status updates need to be synchronized with Oracle Utilities Work and Asset Management, your implementation will need to write an extension.

Note: Enterprise Resource Planning needs to store the Oracle Utilities Work and Asset Management system Requisition Header and Line Ids to send back in the PO.

Purchase Requisition Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncRequisitionRespERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncRequisitionOUWAMUtilitiesReqABCImpl	SyncRequisitionRespOUWAMUtilitiesProvABCImpl

Purchase Requisition Process Adapter Services

Name	Description
SyncRequisitionOUWAMUtilitiesJMSProducer	This adapter is used by SyncRequisitionOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Requisition request queue.
SyncRequisitionRespERPJMSProducer	This adapter is used by the SyncRequisitionRespERPReqABCImpl process to write the EBO message from the ERP system to the Requisition response queue.
SyncRequisitionRespOUWAMUtilitiesJMSConsumer	This adapter is used by SyncRequisitionRespOUWAMUtilitiesProvABCImpl to consume EBO message coming from the ERP system from the Requisition response queue.

Purchase Requisition Process EBO and EBM Details

EBO	EBM
Requisition EBO	SyncRequisitionListEBM SyncRequisitionListResponseEBM

Purchase Requisition Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERP RequisitionRequest	jms/OUWAMERP RequisitionRequest	Used to store Oracle Utilities Work and Asset Management Purchase Requisition sync request.
OUWAMERP RequisitionResponse	jms/OUWAMERP RequisitionResponse	Used to store Enterprise Resource Planning system Purchase Requisition sync response.
OUWAMERP RequisitionRequestError	jms/OUWAMERP RequisitionRequestError	Corresponding Oracle Utilities Work and Asset Management Purchase Requisition request queue.
OUWAMERP RequisitionResponseError	jms/OUWAMERP RequisitionResponseError	Corresponding Enterprise Resource Planning system Purchase Requisition response queue.

Purchase Requisition Process External Web Service Call

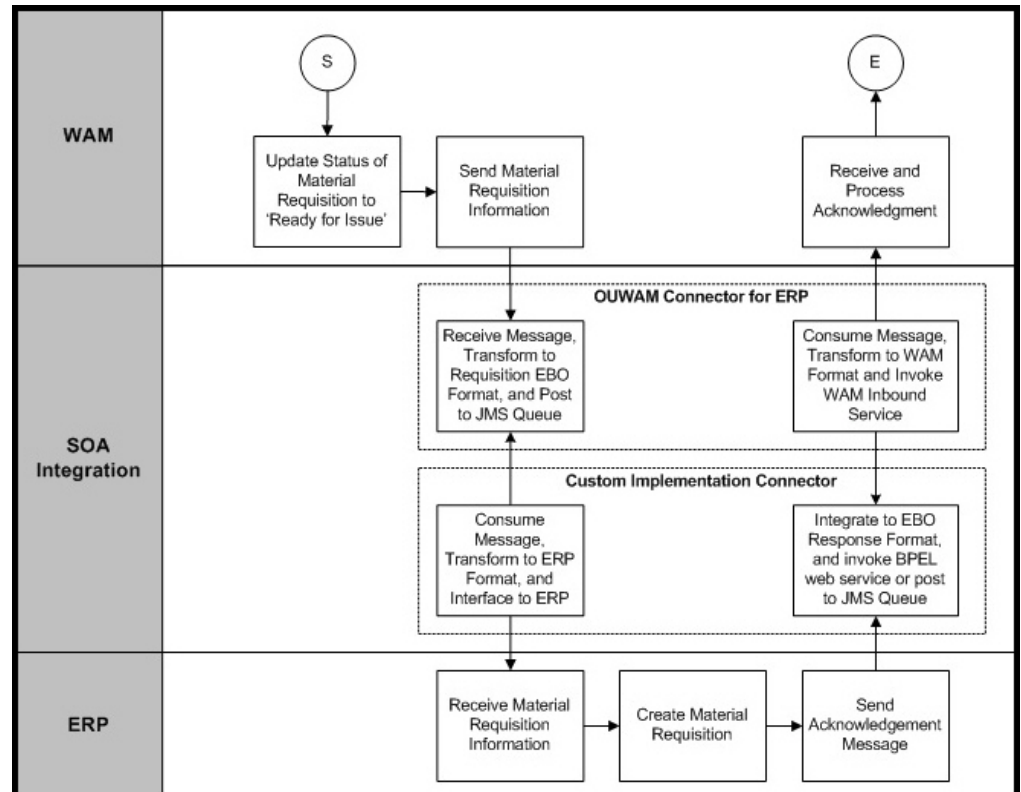
Application	Inbound Web Service	Description
WAM	F1-UpdateAndTransitionSyncRequest	This inbound web service updates and transitions sync requests in WAM.

Material Requisition Synchronization Process

The Material Requisition process is a transactional process triggered from the Oracle Utilities Work and Asset Management system.

Refer to the [Materials Requisition Synchronization Process Mapping Details](#) section for data mapping information for this integration point.

The following diagram provides a graphical representation of this processing:



Material Requisition Business Process Diagram

Material Requisition Processing Details

This process is triggered when the Material Request is in 'Ready for Issue' in the Oracle Utilities Work and Asset Management system.

- Oracle Utilities Work and Asset Management system sends material requisition information to the integration requestor process.
- The WAM-ERP connector transforms this message to the Requisition EBO format and saves this message to the Material Requisition request queue.
- A custom implementation connector can be developed to consume and transform the information in EBO format to ERP format and integrate with the ERP system
- The Enterprise Resource Planning system sends a response back to the Integration Response Requestor process in the ERP format to indicate whether the record was successfully created in the Enterprise Resource Planning system.

Note: Implementers must provide the code to consuming or retrieving the message from the queue and processing the message in the Enterprise Resource Planning system.

- A custom implementation connector transforms this message into Requisition EBO format.
- The WAM-ERP connector transforms response from EBO to WAM format and invokes WAM inbound service.

When Oracle Utilities Work and Asset Management sends the Materials Request to the Enterprise Resource Planning system, the material request line will contain the Enterprise Resource Planning stock item system generated ID (resourceTypeExternalId).

All updates to the materials request are completed in the Enterprise Resource Planning system, not in Oracle Utilities Work and Asset Management. Additionally, the ERP system does not send Material Request updates back to Oracle Utilities Work and Asset Management. Only acknowledgments on whether or not the Materials Request was received.

If Materials Request status updates need to be synchronized with Oracle Utilities Work and Asset Management, your implementation will need to write an extension.

Note: Enterprise Resource Planning needs to store the Oracle Utilities Work and Asset Management system Material Request Header and Line Ids to send back in the Material Issue Inventory Transaction sync.

Material Requisition Process WAM and ERP System Services

Requestor ABCS	Provider ABCS
Enterprise Resource Planning Specific Integration Service	
SyncMaterialRequisitionRespERPReqABCImpl	n/a
Oracle Utilities Work and Asset Management Specific Integration Services	
SyncMaterialRequisitionOUWAMUtilitiesReqABCImpl	SyncMaterialRequisitionRespOUWAMUtilitiesProvABCImpl

Material Requisition Process Adapter Services

Name	Description
SyncMaterialRequisitionOUWAMUtilitiesJMSProducer	This adapter is used by SyncMaterialRequisitionOUWAMUtilitiesReqABCImpl to write the EBO message coming from WAM to the Material Requisition queue
SyncMaterialRequisitionRespERPJMSProducer	This adapter is used by the SyncMaterialRequisitionRespERPReqABCImpl process to write the EBO message from the ERP system to the Material Requisition response queue.
SyncMaterialRequisitionRespOUWAMUtilitiesJMSConsumer	This adapter is used by SyncMaterialRequisitionRespOUWAMUtilitiesProvABCImpl to consume EBO message coming from the ERP system from the Material Requisition response queue.

Material Requisition Process EBO and EBM Details

EBO	EBM
Requisition EBO	SyncRequisitionListEBM SyncRequisitionListResponseEBM

Material Requisition Process JMS Queue Details

Queue Name	JNDI Name	Description
OUWAMERPMaterialRequisitionRequest	jms/OUWAMERPMaterialRequisitionRequest	Used to store Oracle Utilities Work and Asset Management Material Requisition sync request
OUWAMERPMaterialRequisitionResponse	jms/OUWAMERPMaterialRequisitionResponse	Used to store Enterprise Resource Planning system Material Requisition sync response
OUWAMERPMaterialRequisitionRequestError	jms/OUWAMERPMaterialRequisitionRequestError	Corresponding Oracle Utilities Work and Asset Management Material Requisition request queue.
OUWAMERPMaterialRequisitionResponseError	jms/OUWAMERPMaterialRequisitionResponseError	Corresponding Enterprise Resource Planning system Purchase Material response queue.

Material Requisition Process External Web Service Call

Application	Inbound Web Service	Description
WAM	F1-UpdateAndTransitionSyncRequest	This inbound web service updates and transitions sync requests in WAM.

Part 2

Implementation Guidelines

This section provides details on how to configure the participating applications and middleware layer for this integration. It also includes information on error handling, monitoring, security and customization options.

The section contains the following chapters:

- [Chapter 4: Configuration Guidelines](#)
- [Chapter 5: Monitoring and Troubleshooting](#)
- [Chapter 6: Extensibility Options](#)
- [Chapter 7: Application Security](#)

Chapter 4

Configuration Guidelines

This chapter provides details on the required configuration settings for the integration, and provides post-install configuration instructions. It discusses the following:

- [Setting Up Oracle Utilities Work and Asset Management](#)
- [Setting Up Enterprise Resource Planning System](#)
- [Setting up the Integration](#)

Setting Up Oracle Utilities Work and Asset Management

This section describes the required configurations in Oracle Utilities Work and Asset Management, including:

- [Admin Data Tables](#)
- [Master Configuration](#)
- [ERP Integration Master Configuration](#)
- [System Data Tables](#)
- [Web Services](#)

For more information on configuring Oracle Utilities Work and Asset Management, refer to *Oracle Utilities Work and Asset Management Administration Guide*.

Note: Some configurations described may be required for general functionality and do not necessarily relate directly to the integration; however these are called out as particularly significant configuration items. The inclusion of such items does not mean that other general items that are not mentioned do not need to be configured.

Admin Data Tables

This section describes the unique setup issues specifically related to configuring your system for the integration.

This section provides information on the following admin data configurations:

- [Bin Type](#)
- [Buyer](#)
- [Characteristic Type/Value](#)
- [Commodity Name](#)
- [Commodity Category](#)
- [Commodity Composition](#)
- [Commodity Type](#)
- [Country](#)
- [Currency](#)
- [Expense Usage Code](#)
- [Free On Board \(FOB\)](#)
- [Hazardous Code](#)
- [Location](#)
- [Organization Unit](#)
- [Payment Term](#)
- [Phone Type](#)
- [State](#)
- [Stock Type](#)
- [UOM Code](#)

- [Vendor Location Priority](#)
- [Worker Type](#)

Bin Type

Bin Type Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Lookup (BIN_TYPE_FLG)	Modify or add values to the lookup.	OUWAMERP_BinType

Buyer

Buyer Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Buyer	Create/Modify the Buyer.	OUWAMERP_Buyer

Characteristic Type/Value

Tax Type and Value for Oracle Utilities Work and Asset Management

1. Create a characteristic type with description and Type of Char Value as Predefined Value in Oracle Utilities Work and Asset Management.
2. Add one or more Characteristic Value to the Characteristic Type.

Navigation	Guideline	Corresponding DVM
Admin Menu > Characteristic Type	Create/Modify the Characteristic Type.	OUWAMERP_TaxType OUWAMERP_TaxTypeValue
	Add Characteristic Value to the Characteristic Type.	

Commodity Name

Commodity Name Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Commodity Codes	Create/Modify the Commodity Codes.	OUWAMERP_CommodityName

Commodity Category

Commodity Category Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
(see Commodity Name)	(see Commodity Name)	OUWAMERP_CommodityCategory

Commodity Composition

Commodity Composition Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
(see Commodity Name)	(see Commodity Name)	OUWAMERP_CommodityComposition

Commodity Type

Commodity Type Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
(see Commodity Name)	(see Commodity Name)	OUWAMERP_CommodityType

Country

Country Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Country	Create the Country codes.	OUWAMERP_Country

Country Code

Create a country code in Oracle Utilities Work and Asset Management.

The Main page is used to customize the fields and field descriptions that are displayed where addresses are used in the system. This ensures that all addresses conform to the customary address format and conventions of the particular country you have defined. The codes defined here must exactly match values in the DVM indicated.

Country Code Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Country	Create the Country codes.	OUWAMERP_Country

Currency

Currency Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Currency	Create/Modify the Currency Code and Description.	OUWAMERP_Currency

Expense Usage Code

Expense UsageCode Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Expense Code	Create the Expense Code and Description or modify the Expense Code after searching.	OUWAMERP_UsageExpenseCode (EXPENSE_CD)

Free On Board (FOB)

FOB Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > FOB	Create the FOB code.	OUWAMERP_FOB (FOB_CD)

Hazardous Code

Hazardous Code Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Lookup (HAZARD_TYPE_FLG)	Modify or add values to the lookup.	OUWAMERP_HazardousType

Location

Location Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Main Menu > Location > Contact	Create/Modify a location.	OUWAMERP_LocationId

Organization Unit

Organization Unit Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Business Unit	Create a Business Unit	OUWAMERP_OrganizationUnitID

Payment Term

Payment Term Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Payment Terms	Create the Payment Terms.	OUWAMERP_PaymentTerm (PAYMENT_TERM_CD)

Phone Type

Phone Type Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Phone Type	Create the Phone Type	OUWAMERP_PhoneType

State

State Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Country (State tab)	Create the codes for the states	OUWAMERP_State

Stock Type

Stock Type Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Lookup (STOCK_TYPE_FLG)	Modify or add values to the lookup.	OUWAMERP_StockType

UOM Code

UOM Code Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin > Unit of Measure – Resource	Create the UOM Code	OUWAMERP_UOMCode

Vendor Location Priority

Vendor Location Priority Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin Menu > Lookup (VENDOR_PRI_FLG)	Modify or add values to the lookup.	OUWAMERP_VendoryLocPriority

Worker Type

Worker Type Details for Oracle Utilities Work and Asset Management

Navigation	Guideline	Corresponding DVM
Admin > Employee Type	Create the Employee Type.	OUWAMERP_WorkerType (EMPLOYEE_TYPE_CD)

Master Configuration

Only the **Seeder Sync Request Master Configuration** needs to be configured:

This Master Configuration data determines the Sync BO that will process the master data sync request. This Master Configuration also provides the reference view to determine if the record exists or not. The Sync BO reference is based on the MO.

To help populate this data, we provide the sample script W1-ERPPreSdr (ERP Integration Pre-Populate Seeder Sync Master Config). This adds ERP Integration values to the Seeder Sync Master Configuration.

Master Data Synchronization

This Master Data Configuration provides external reference information based on the Foreign Key Reference (FK Ref) keys. This allows external IDs to be converted to existing Oracle Utilities Work and Asset Management IDs.

To help populate this data, we provide the sample script W1-ERPPreMCf (ERP Integration Pre-Populate Master Configuration). This adds ERP Integration values to the Master Data Synchronization Master Configuration.

ERP Integration Master Configuration

The Enterprise Resource Planning URL, the Timeout Threshold for retries, the default Contact Type for inbound Vendor Location syncs, and the default Resource Type for Blanket Contracts are defined here.

The Financial Configuration section of the ERP Integration Master Configuration defines the mapping between Enterprise Resource Planning Account Segments and Oracle Utilities Work and Asset Management cost centers. The cost center in Oracle Utilities Work and Asset Management may equate to multiple account segments in Enterprise Resource Planning. The Enterprise Resource Planning integration includes information about all the segments that make up a GL account distribution. Each of these segments (except expense code) is stored on the Oracle Utilities Work and Asset Management cost center. Not all of these segments may be used for the cost center account string in Oracle Utilities Work and Asset Management. If some segments are excluded from the Oracle Utilities Work and Asset Management account string, they need to be put back into the GL account string when cost information needs to be sent from Oracle Utilities Work and Asset Management to the Enterprise Resource Planning system. The master configuration above controls how these segments are used in Oracle Utilities Work and Asset Management.

In order for the segments to be stored properly on the cost center, however, the implementation needs to perform the following:

1. To allow the code to reference these new elements using the existing Cost Center BO, create a data area, DA, and in your DA, map each account segment to a data location on the cost center maintenance object W1-COSTCTR.

For example: To map a segment to a characteristic, it should be mapped to the characteristic child table of cost center W1_COST_CENTER_CHAR. On the DA, make sure to specify the W1-CostCenterAccountSegments value in the Extended Data Area field. This allows the system to automatically include those account segments in the base Cost Center business object, which includes the W1-CostCenterAccountSegments DA.

Follow the standard naming conventions to name those elements in the DA. For

example: No space or special characters. Also, prefix the DA and its elements with "cm". This reduces the chance of an upgrade conflict when new element(s) are added by base product with the same name.

Finally, for each account segment element in the DA, there must be a corresponding description element using the naming convention by suffixing "Description". For example: To add the cmDepartment element to a department account segment, add the cmDepartmentDescription element also.

- The element names in the DA, only the account segment elements, not those for descriptions, are then cross referenced with the sequential account segments within the ERP Master Configuration Financial section. Note that the system expects the sequence number to start with 1 and incremental by 1. For example: 1, 2, 3, so on up to 10.

Each Element Name in the Financial section must be the xpath to the corresponding elements. For example: cmDepartment, cmCompany.

The easiest way to get the xpath is to click "View Schema" on the page/portal of your DA, click the element and copy the xpath at the top.

When the account segments are received from the Enterprise Resource Planning system, each segment is written to the corresponding business object elements. When a GL Account string needs to be send to the Enterprise Resource Planning system, each business object element is read and concatenated in the order of the Account Segments defined in the ERP Master Config. The delimiter defined in the ERP Master Config separates each Account Segment in the GL Account string.

- The ERP Integration Master Configuration includes a Key Reference Mapping section to define the mapping between Key Reference Views and Identifier Types for each integration maintenance object.

This is used to find the External IDs for Integration objects not sent via the Seeder Syncs. This is similar to the Seeder Sync and Master Data Sync Master Configurations.

The following Views have been created for these references.

View	Description
W1_ON_BLANKET_CONTRACT_LINE_VW	Integration Key Blanket Contract View
W1_ON_BLANKET_CONTRACT_VW	Integration Key Blanket Contract View
W1_ON_COST_CENTER_VW	Ongoing Sync Key Cost Center View
W1_ON_FINANCIAL_TRANS_VW	Integration Key Financial Transaction View
W1_ON_INVOICE_LINE_VW	Integration Key Invoice Line View
W1_ON_INVOICE_VW	Integration Key Invoice View
W1_ON_MATERIAL_ISSUE_VW	Integration Key Material Issue View
W1_ON_MATERIAL_RETURN_LINE_VW	Integration Key Material Return Line View
W1_ON_MATERIAL_RETURN_VW	Integration Key Material Return View
W1_ON_PURCHASE_ORDER_LINE_VW	Integration Key Purchase Order Line
W1_ON_PURCHASE_ORDER_VW	Integration Key Purchase Order View

View	Description
W1_ON_RECEIPT_LINE_VW	Integration Key Receipt Line View
W1_ON_RECEIPT_VW	Integration Key Receipt View
W1_ON_RETURN_LINE_VW	Integration Key Material Return Line View
W1_ON_STOCK_TRANS_VW	Integration Key Stock Transaction View

Enterprise Resource Planning Administrative Records

The Enterprise Resource Planning Admin business object was created to define ownership between of the different maintenance objects available for the integration.

Each maintenance object that can be integrated contains the integration maintenance object option to signify that the maintenance object is available for the integration. An Enterprise Resource Planning Admin object can be created for each of these maintenance objects. The Enterprise Resource Planning Admin object not only defines ownership (Oracle Utilities Work and Asset Management or Enterprise Resource Planning), but also defines the applicable integration business object or Oracle Utilities Work or Asset Management business object to use. The Integration business object is used to send out an integration request to the Enterprise Resource Planning system. The Oracle Utilities Work and Asset Management business object is used to create the Oracle Utilities Work and Asset Management objects.

The Outbound Message Types used to send outbound integration requests are also defined in these admin records. Outbound Message Types for acknowledgments are defined in the BO options of the Integration BO.

It is assumed that if Enterprise Resource Planning owns Purchasing maintenance objects (such as; Accept Line, Blanket Contract, Invoice, Purchase Order, Receipts, Purchase Returns, Vendor Location), then they will own all the Inventory related maintenance objects (Material Issue, Material Return). It's also assumed that if the Enterprise Resource Planning system owns one Purchasing maintenance object, then they own all the associated Purchasing maintenance objects. Or if the Enterprise Resource Planning system owns one Inventory maintenance object, they own all the associated Inventory maintenance objects. The exceptions are Material Request (W1-MATREQHDR, W1-MATREQLIN), Purchase Requisition (W1-PRHDR, W1-PRLINE), and Material Return Header (W1-MATRTNHDR). These exceptions must originate from Oracle Utilities Work and Asset Management in order to initiate the relationship between the requests and a Work Order or Activity. Also, if the Enterprise Resource Planning system owns the Header maintenance object, they should also own the Line maintenance object. They are separate Enterprise Resource Planning Admin objects so that the business object information can be configured.

This table provides a list of integration business objects and Oracle Utilities Work and Asset Management business objects delivered for this integration.

Maintenance Object	Outbound Integration Business Object	WAM Business Object
W1-ACPTLINE		W1-AcceptLineIntegration
W1-BCHEADER		W1-BCHeaderIntegration
W1-BCLINE		W1-BCLineIntegration
*W1-FT	W1-FinancialTransIntegOutbound	W1-FinancialTransaction

Maintenance Object	Outbound Integration Business Object	WAM Business Object
W1-INVCHDR		W1-InvoiceHeaderIntegration
W1-INVCLINE		W1-InvoiceLineIntegration
W1-MATISSLIN		W1-MaterialIssueLineInteg
W1-MATREQHDR	W1-MaterialReqIntegOutbound	
W1-MATRTHDR		W1-MaterialReturnHeaderInteg
W1-MATRNLIN		W1-MaterialReturnLineInteg
W1-POHDR		W1-POHeaderIntegration
W1-POLINE		W1-POLineIntegration
W1-PRHDR	W1-PurchaseReqIntegOutbound	
W1-RCPTHDR		W1-ReceiptHeaderIntegration
W1-RCPTLINE		W1-ReceiptLineIntegration
W1-RTNLIN		W1-PurchaseReturnLineInteg
W1-VENDORLOC	W1-VendorLocIntegOutbound	

In the context of this ERP integration, there is no ownership for the FT maintenance object, or to be more specific, the system ignores the owning system on a record here for FT. An FT inherits the owning system from the object that creates it. For example: Material Issue Line

A record here for FT is simply to define the Outbound Integration business object, Outbound Message Type and Oracle Utilities Work and Asset Management business object. Since FT could go either direction, the record for FT should have all three defined: Outbound Integration business object, Outbound Message Type, and Oracle Utilities Work and Asset Management business object. The system checks the owning system of the object that directly creates the FT. If ownership is Oracle Utilities Work and Asset Management, then the FTs are sent via integration. If the owning system is ERP, the assumption is that ERP sends that object and its FT to Oracle Utilities Work and Asset Management, thus Oracle Utilities Work and Asset Management does no further processing on the FT. No Enterprise Resource Planning Admin record for an object indicates that FT records created by that object are sent as batch as defined in the Financial Master Configuration information. For implementations that do not use this integration or use Oracle Utilities Work and Asset Management for both Inventory and Purchasing, they can always use the batch option.

This table provides a list of maintenance objects that create FTs. Some of them are discussed in the table above. For objects that are not directly involved in ERP integration, (Timesheet Detail) implementations should still configure a record for applicable one(s) so their FTs will be sent to ERP through integration as well. There is no reason for some FTs to go through integration while others go through batch flat file.

Maintenance Object	Description	Comments
W1-ACPTLINE	Accept Line	
W1-MATISSLIN	Material Issue Line	
W1-MATRNLIN	Material Return Line	

Maintenance Object	Description	Comments
W1-TIMSHTDTL	Timesheet Detail	
W1-ODCDETAIL	Other Direct Charge Detail	
W1-PILINE	Physical Inventory Count Line	
W1-INVADJ	Inventory Adjustmentt	
W1-RTNLINE	Return Line	Also referred to as Purchase Return
W1-INVCHDR	Invoice Header	Invoice header creates FTs for Freight Charge, Extra Cost, and Discount only when they are not allocated/prorated to invoice lines.
W1-INVCLINE	Invoice Line	
W1-ACTRECON	Activity Reconciliation	Reconciliation process for Construction Work Management

Please note the following:

1. The table is a complete list. You may not need to set up an ERP Admin record for some. For example: If ERP owns inventory, WAM doesn't perform Physical Inventoty and Inventory Adjustment (thus no FT to send out) and there is no need to interface them from ERP to WAM, then there is no need for ERP Admin records for them.
2. If only the FT needs to be sent to ERP, not the object that creates the FT, on the ERP Admin record, you just need to specify WAM as the owing system, no need to specify Outbound Integration business object and Outbound Message Type. For example: If WAM owns inventory, you only need to send the FTs from Inventory Adjustment to ERP, not the Inventory Adjustment itself.

System Data Tables

To configure the System Data tables, you need the following:

- [Business Objects](#)
- [Batch Scheduling](#)

Business Objects

This section describes unique setup issues specifically related to configuring your system for the integration.

Business Object	Description
W1-OngoingSyncRequestCostCtr	These business objects define the behavior of inbound sync requests. The schema elements define information required to maintain the master data in Oracle Utilities Work and Asset Management.
W1-OngoingSyncRequestEmployee	These are ongoing sync requests and rely on the W1-SyncRequestInbound web service and IWS service to receive the sync request into WAM. Use the Seeder Sync Master Configurations to define which Ongoing Sync BO to use based on the incoming target MO.
W1-OngoingSyncRequestVendorLoc	As a part of sync request processing, an acknowledgement message is sent to the external system (either positive or negative). The “Outbound Message Type” business object option contains a
W1-OngoingSyncRequestStockItem	reference to the outbound message business object to use for this purpose. The base package includes business object W1- OutboundAcknowledgeMessage to be used on the outbound message
W1-SIDIntegInbound	type configuration. Refer to Outbound Configuration in this section for more information.
	The Vendor Location ongoing synchronization requires a default Contact Type in order to create the Main Contact for the Vendor Location. This is defined within the ERP Master Configuration.
	The Stock Item Detail ongoing synchronizations require storeroom locations. These locations need to be defined within WAM and attached to the Stock Item Detail before the synchronization can be started. The storeroom location definition will also need the external identifier from the Enterprise Resource Planning system. The external identifier can then be referenced on the sync request. The format of the external identifier is the concatenated string of Inventory Organization Number and Subinventory Name, separated by a “-” character.
	The Stock Item Detail ongoing synchronization specifies the target business object using the business object algorithm parameters defined for the Data Transformed state. The target business object depends on the Stock Item Detail Class submitted. W1-SIDExpensedAtReceipt for W1ER, W1-SIDInventory for W1IN, and W1-SIDInventory for W1IL.
	The error states in the ongoing sync requests contain automatic To Do creation and automatic retry. The parameters relevant to these processes (To Do Retry Frequency and To Do Maximum Retries) are captured as business object status options. If your implementation needs to introduce your own values, simply add a higher sequenced row for the option you intend to modify. The algorithms automatically use these values.
	The Create To Do algorithm (W1-CRE-SRTD) is present to use the base package supplied To Do Type W1-SYRQI for this process. If your implementation needs to use a different To Do Type, you will need to configure your own algorithm and supply the value in its parameters.
	The monitor process on the initial states of these business objects may be removed by the implementation if immediate processing of the sync requests as they are received is desired.
W1-FinancialTransIntegOutbound	This business object defines the property of an outbound sync request. The schema elements define the information needed by Enterprise Resource Planning system to consolidate the financial data.
	The Create To Do algorithm (W1-FTDTCRE) is present to use the base package supplied To Do Type W1-FTERR for this process. If your implementation needs to use a different To Do Type, you will need to configure your own algorithm and supply the value in its parameters.
Purchase Requisition Outbound Integration	This business object defines the property of an outbound sync request. The schema elements define the information needed by Enterprise Resource Planning system Purchase Requisitions.
Material Requisition Outbound Integration	This business object defines the property of an outbound sync request. The schema elements define the information needed by Enterprise Resource Planning system for Material Requisitions.
Vendor Location Outbound Integration	This business object defines the property of an outbound sync request. The schema elements define the information needed by Enterprise Resource Planning system to receive Vendor Locations for Invoice Payments.

Business Object	Description
W1-ReceiptIntegInbound W1-BlanketContractIntegInbound W1-PurchaseOrderIntegInbound W1-InvoiceIntegInbound W1-MaterialIssueIntegInbound W1-MaterialReturnIntegInbound W1-PurchaseReturnIntegInbound W1-FinancialTransIntegInbound W1-StockTransIntegInbound W1-InvoicePaymentIntegInbound	<p>These business objects define the behavior of inbound sync requests. The schema elements define information required to maintain the master data in Oracle Utilities Work and Asset Management. As a part of sync request processing, an acknowledgement message is sent to the external system (either positive or negative). The “Outbound Message Type” business object option contains a reference to the outbound message business object to use for this purpose. The base package includes business object W1-OutboundAcknowledgeMessage to be used on the outbound message type configuration. Refer to Outbound Configuration in this section for more information.</p> <p>The error states in the ongoing sync requests contain automatic To Do creation and automatic retry. The parameters relevant to these processes (To Do Retry Frequency and To Do Maximum Retries) are captured as business object status options. If your implementation needs to introduce your own values, simply add a higher sequenced row for the option you intend to modify. The algorithms automatically use these values.</p> <p>The Create To Do algorithm (W1-CRE-SRITD) is present to use the base package supplied To Do Type W1-SYRQI for this process. If your implementation needs to use a different To Do Type, you will need to configure your own algorithm and supply the value in its parameters.</p>
W1-FinancialTransaction	<p>The POPGLDTL state of this business object will create an outbound integration request object if the relevant maintenance object for the FT is owned by ERP (e.g., W1-MATREQHDR for Material Request). The base includes W1- FinancialTransIntegOutbound for this purpose.</p>
W1-PRHeader	<p>Algorithm W1-INTCREPR has been included to create an outbound integration request based on the Purchase Requisition business object when the Purchase Request is Approved. Base code includes W1-PurchaseReqIntegOutbound to capture the information and send to the external system. The outbound request is only created if ownership is set to the Enterprise Resource Planning system for this maintenance object.</p>
W1-MaterialRequestHeader	<p>Algorithms W1- INTSNDMR and W1-INTCREMR have been included to create an outbound integration request based on the Material Request business object when the Material Request is Ready for Issue. Base code includes W1- MaterialReqIntegOutbound to capture the information and send to the external system. The outbound request is only created if ownership is set to the Enterprise Resource Planning system for this maintenance object.</p>
W1-VendorLoc	<p>Algorithm W1- INTCREVLO has been included to create an outbound integration request based on the Vendor Location business object when the Vendor Location is Active. Base code includes W1-VendorLocIntegOutbound to capture the information and send to the external system. The outbound request is only created if ownership is set to the Enterprise Resource Planning system for this maintenance object. An additional algorithm has been added for the Inactive state to capture the status change and send the integration request to the Enterprise Resource Planning system. If a change is required for an Active Vendor Location, then the Vendor Location should be inactivated, updated, then re-activated again.</p>

Batch Scheduling

This is the batch process to run the sync request. It is a generic batch process that is used for different sync processes. It has a couple of parameters that can be used to control which sync request business objects to process.

Batch Processes for Ongoing Sync Requests

Batch Code	Description
W1-SIOPE	The batch process to transition ongoing sync request out of the PENDING state. It is a generic batch process that is used for different sync processes. It has a couple of parameters that can be used to control which sync request business objects to process.
W1-SIOER	The batch process to transition ongoing sync request out of the ERROR state.

Batch Processes for Outbound Sync Requests

Batch Code	Description
F1-SYNRQ	Sync Request Monitor Process: The batch process to run the sync request. It is a generic batch process that is used for different sync processes. It has a couple of parameters that can be used to control which sync request business objects to process.

For more information about the sync request process, the business objects, maintenance objects, and other components used for this process, refer to the section “Data Synchronization” in *Oracle Utilities Framework User Guide*.

Web Services

This configuration includes the following:

- [Message Senders](#)
- [Outbound Message Types](#)
- [External System](#)

Message Senders

Create a new real-time Message Sender for each Oracle Utilities Work and Asset Management Outbound Message.

To Create a Message Sender:

1. In the **Admin** menu, navigate to **Message Sender**.
2. Enter a unique Message Sender and its description.
3. Populate the following values:
 - **Message Sender** - Sender name in Oracle Utilities Work and Asset Management.
 - **Description** - Sender’s description.
 - **Invocation Type** - Real-time
 - **XAI Class** - RTHTTPSNDR (Sender routes messages via HTTP real-time).

- **Active** - Select the check box
 - **MSG Encoding** - UTF-8 message encoding
4. Select the **Context** tab and set values for the following context types:
- **HTTP Header** - SOAPAction: “process”
 - **HTTP Login User** - User ID to access Integration BPEL process
 - **HTTP Login Password** - Password to access Integration BPEL process
 - **HTTP Method (POST/GET)** - POST
 - **HTTP Timeout** - 60
 - **HTTP Transport Method** - SendReceive
 - **HTTP URL 1** - Set the URL to be accessed. If the URL value does not fit, use the additional HTTP URL types to set the complete URL.

The following tables provide examples of the Message Senders that need to be configured. Please note, the message sender names provided are examples only, and are not delivered as part of the integration:

Blanket Contract – Blanket Purchase Agreement Process

Message Sender	Description	HTTP URL
BCBlntkPurAgrSndr	Blanket Contract – Blanket Purchase Agreement Msg Sender to send the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncBlanketPurchaseAgreementRespOUWAMUtilitiesReqABCImpl/WAMSyncBlanketPurchaseAgreementResponse_ep

Cost Center - Chart of Accounts Process

Message Sender	Description	HTTP URL
CCChAcctSndr	Cost Center - Chart of Acct message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncChartOfAccountsRespOUWAMUtilitiesReqABCImpl/WAMSyncChartOfAccountsResponseService_ep

Employee - Worker Process

Message Sender	Description	HTTP URL
EmpWrkMSndr	Employee - Worker Msg Sender to send the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncWorkerRespOUWAMUtilitiesReqABCImpl/WAMSyncWorkerResponseService_ep

Financial Transaction – Accounting Entry Process

Message Sender	Description	HTTP URL
FTActEnSndr	Financial Transaction – Account Entry Msg Sender to send the request to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncAccountingEntryOUWAMUtilitiesReqABCSImplWAMSyncAccountingEntryRequestService_ep

Financial Transaction - Accounting Entry Response Process

Message Sender	Description	HTTP URL
FTActRspEnSndr	Financial Transaction - Account Entry message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncAccountingEntryRespOUWAMUtilitiesReqABCSImpl/WAMSyncAccountingEntry

Invoice Payment – Disbursement Payment Process

Message Sender	Description	HTTP URL
InvPmtDisbPmtSndr	Invoice Payment – Disbursement Payment Msg Sender to send the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncDisbursementPaymentRespOUWAMUtilitiesReqABCImpl/WAMSyncDisbursementPaymentResponse_ep

Invoicing – Invoice Process

Message Sender	Description	HTTP URL
InvoiceSndr	Invoice – Invoice Msg Sender to send the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncInvoiceRespOUWAMUtilitiesReqABCImpl/WAMSyncInvoiceFromERPResponse_ep

Material Issue – Material Issue Process

Message Sender	Description	HTTP URL
MatIssSndr	Material Issue message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncMatIssueInventoryTxnRespOUWAMUtilitiesReqABCImpl/WAMSyncMaterialIssue

Material Return

Message Sender	Description	HTTP URL
MatlReturnSndr	Material Return message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/OUWAMERP/SyncMatIssueInventoryTxnRespOUWAMUtilitiesReqABCImpl/WAMSyncMaterialIssue

Material Request – Material Requisition Process

Message Sender	Description	HTTP URL
MatlReqSndr	Material Request – Material Requisition message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncMaterialRequisitionOUWAMUtilitiesReqABCImpl/WAMSyncMaterialRequisitionRequestService_ep

Purchase Order Process

Message Sender	Description	HTTP URL
PurOrdrSndr	Purchase Order message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncPurchaseOrderRespOUWAMUtilitiesReqABCImpl/WAMSyncPurchaseOrderResponse_ep

Purchase Request Process

Message Sender	Description	HTTP URL
PurReqSndr	Purchase Request – Requisition message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncRequisitionOUWAMUtilitiesReqABCImpl/WAMSyncRequisitionRequestService_ep

Purchase Return Process

Message Sender	Description	HTTP URL
PurRtnSndr	Purchase Return message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncPurReturnInventoryTxnRespOUWAMUtilitiesReqABCImpl/WAMSyncPurReturnInvTxnResponse

Receipt – Shipment Receipt Process

Message Sender	Description	HTTP URL
RcptShpRcptSndr	Receipt – Shipment Receipt message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncShipmentReceiptRespOUWAMUtilitiesReqABCImpl/WAMSyncShipmentReceiptResponse_ep

Stock Item Process

Message Sender	Description	HTTP URL
StockItemSndr	Stock Item message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncStockItemRespOUWAMUtilitiesReqABCImpl/WAMSyncStockItemResponseService_ep

Stock Item Detail – Storeroom Item Process

Message Sender	Description	HTTP URL
StkItmDtlStrmItmSndr	Stock Item Detail – Storeroom Item message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncStoreroomItemRespOUWAMUtilitiesReqABCImpl/WAMSyncStoreroomResponse_ep

Stock Transaction – Item Balance Process

Message Sender	Description	HTTP URL
STItemBalSndr	Stock Transaction – Item Balance message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncItemBalanceRespOUWAMUtilitiesReqABCImpl/WAMSyncItemBalanceResponse_ep

Vendor Location - Supplier Party Process

Message Sender	Description	HTTP URL
VndrLcSPSndr	Vendor Location - Supplier Party message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncSupplierPartyRespOUWAMUtilitiesReqABCImpl/WAMSyncSupplierPartyResponseService_ep

Vendor Location – Supplier Party Request Process

Message Sender	Description	HTTP URL
VndrLocSupPrtySndr	Vendor Location – Supplier Party message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra/services/OUWAMERP/SyncSupplierPartyOUWAMUtilitiesReqABCImpl/WAMSyncSupplierPartyRequestService_ep

Outbound Message Types

Create a new outbound message type for each Oracle Utilities Work and Asset Management outbound message.

To create new outbound message types:

1. In the **Admin** menu, navigate to **Outbound Message Type**.
2. Enter an outbound message type, description, and detailed description.
3. Select the outbound message business object created for a specific outbound message.

The following tables provide examples of the Outbound Message Types that need to be configured. Please note, the outbound message type names provided are examples only, and are not delivered as part of the integration:

Blanket Contract Process Acknowledgment Outbound Message

Outbound Message Type	Description	HTTP URL
BCOuMsg	Blanket Contract – message sender that sends the response to the ERP system.	http://soaserver:soaport/soa-infra//services/OUWAMERP/SyncBlanketPurchaseAgreementRespOUWAMUtilitiesReqABCImpl/WAMSyncBlanketPurchaseAgreementResponse_ep

Cost Center - Chart of Accounts Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
CCChActOuMsg	Cost Center - Charter of Accounts Out Msg	W1- OutboundAcknowledgeMessage

Employee - Worker Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
EmpWrkOutMsg	Employee - Worker Out Msg	W1-OutboundAcknowledgeMessage

Financial Transaction - Accounting Entry Process Outbound Message

Outbound Message Type	Description	Business Object
FTActEnOumsg	FT - Accounting Entry Out Msg	W1-FinancialTransIntegOutMsg

Financial Transaction - Accounting Entry Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
FTActEnAckOumsg	FT - Accounting Entry Acknowledgement Out Msg	W1-OutboundAcknowledgeMessage

Invoice – Invoice Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
InvoiceOumsg	Invoice Acknowledgement Out Msg	W1-OutboundAcknowledgeMessage

Invoice Payment – Invoice Payment Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
InvoicePmtOumsg	Invoice Payment Out Msg	W1-OutboundAcknowledgeMessage

Material Issue Line – Inventory Issue Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
MtlIssInvIssOuMsg	Material Issue Line – Inventory Issue Out Msg	W1-OutboundAcknowledgeMessage

Material Request – Material Requisition Process Outbound Message

Outbound Message Type	Description	Business Object
MtlReqOuMsg	MR – Material Requisition Out Msg	W1-MatReqIntegOutMsg

Material Return – Inventory Return Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
MtlRtnInvRtnOuMsg	Material Return – Inventory Return Out Msg	W1-OutboundAcknowledgeMessage

Purchase Order – Purchase Order Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
PurchaseOrderOuMsg	PO - Purchase Order Out Msg	W1-OutboundAcknowledgeMessage

Purchase Request – Requisition Process Outbound Message

Outbound Message Type	Description	Business Object
PurReqReqOuMsg	PR – Requisition Out Msg	W1-PurReqIntegOutMsg

Purchase Return – Purchase Return Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
PurRtnOuMsg	Purchase Return Out Msg	W1-OutboundAcknowledgeMessage

Receipt – Receipt Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
ReceiptOuMsg	Receipt Out Msg	W1-OutboundAcknowledgeMessage

Stock Item – Stock Item Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
StockItemOuMsg	Stock Item Out Msg	W1-OutboundAcknowledgeMessage

Stock Item Detail – Storeroom Item Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
SIDStrmItmOuMsg	SID – Storeroom Item Out Msg	W1-OutboundAcknowledgeMessage

Stock Transaction – Item Balance Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
StkTrnItemBalOuMsg	ST – Item Balance Out Msg	W1-OutboundAcknowledgeMessage

Vendor Location – Supplier Party Process Outbound Message

Outbound Message Type	Description	Business Object
VndrLocSupplierOuMsg	VL – Supplier Party Out Msg	W1-VendorLocIntegOutMsg

Vendor Location - Supplier Party Process Acknowledgment Outbound Message

Outbound Message Type	Description	Business Object
VdrLcSPOuMsg	Vendor Location - Supplier Party Out Msg	W1- OutboundAcknowledgeMessage

External System

Create a new external system to support the integration.

To create the external system:

1. In the **Admin** menu, navigate to **External System**.
2. Search for Enterprise Resource Planning system.
3. Associate the outbound message types created to the external system. For each outbound message type, set the following:
 - **Outbound Message Type** – Set the outbound message type created for Oracle Utilities Work and Asset Management outbound message.
 - **Processing Method** – Real-time.
 - **Message Sender** - Set the Message Sender created for the integration web service to be invoked by Oracle Utilities Work and Asset Management.
 - **Message XSL** - W1-AddSOAPEnvMessage.xsl
For example: **External System – ERP**

External System Details

Outbound Message Type	Processing Method	Message Sender	Message XSL
EmpWrkOutMsg	Real-time	EmpWrkMSndr	W1-AddSOAPEnvMessage.xsl
VdrLcSPOuMsg	Real-time	VndrLcSPSndr	W1-AddSOAPEnvMessage.xsl
CCChActOuMsg	Real-time	CCChAcctSndr	W1-AddSOAPEnvMessage.xsl
FTActEnOuMsg	Real-time	FTActEnOuMsg	W1-AddSOAPEnvMessage.xsl

For more information regarding configuration guidelines, refer to the Oracle Utilities Work and Asset Management documentation.

Setting Up Enterprise Resource Planning System

The Enterprise Resource Planning system is setup by the implementation team. The configuration depends on the Enterprise Resource Planning system being used for the integration.

Setting up the Integration

The following areas need to be configured for the Oracle Utilities Work and Asset Management and Enterprise Resource Planning system integration:

- [Configuration Properties](#)
- [Domain Value Maps](#)
- [Error Handling](#)

Configuration Properties

Various configurations that apply to the entire integration system and specific process integration services are stored in the ConfigurationProperties.xml file located in <PRODUCT.HOME>/MDS-Artifacts/OUWAMERP/config/ and the ConfigurationProperties.xml is stored in Metadata Service (MDS).

These configurations hold several configurable values that are picked up by the integration at runtime.

Please refer to [Appendix B](#) for more information on the [Configuration Properties File](#) setup.

Domain Value Maps

The Domain Value Maps (DVMs) are a standard feature of the Oracle Service-Oriented Architecture (SOA) Suite which maps codes and other static values across applications. The DVMs are stored in Metadata Service (MDS). For example, FOOT and FT or US and USA.

DVMs are static in nature, though administrators can add additional maps as needed. Transactional business processes never update DVMs—they only read from them. They are stored in XML files and cached in memory at runtime.

Please refer to [Appendix C - Domain Value Maps \(DVMs\)](#) for a listing of the DVMs included for the integration.

To add DVM maps:

1. Open a browser and access the **SOA Composer** (<http://soa-server:soa-port/soa/composer>) for your installation.
2. On the SOA Composer application, switch to **Types View**.
3. Under Domain Value Maps, select the relevant DVM. Search option is also available to find a DVM.
4. To set up the required values for each integrated application, click the **Edit Session** button. Add or modify the values in the relevant DVMs, save the changes and click the **Publish** button.

The new DVM values are available to the deployed composites.

For more information about DVMs, see the section “Working with Domain Value Maps” in Oracle® Fusion Middleware Developing SOA Applications with Oracle SOA Suite documentation.

Updating MDS with AIA Meta Data

If the new artifacts are created, if extensions or customizations are made on the artifacts, or if changes are made to the DVM /or the ConfigurationProperties.xml, you must upload the artifacts to the Oracle Metadata Services (MDS).

Oracle Metadata Services (MDS) repository contains all the metadata. The contents under <PRODUCT_HOME>/MDS-Artifacts are uploaded to <SOA-MDS > apps/OUWAMERP. This includes specific schemas, WSDLs, DVMs and ConfigurationProperties.xml.

For more information about updating MDS, see the section “Deployment of MDS Artifacts” in *Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Installation Guide*.

Error Handling

This section provides information on the following:

- [Integration Error Handling Setup](#)
- [Error Notifications Setup](#)
- [Error Hospital Setup](#)

Integration Error Handling Setup

INTEGRATION_ERROR_STORE

The INTEGRATION_ERROR_STORE table is used to store all the error details for each message failure. The table is populated for each integration point based on the BusinessError.NotificationFlag and TechnicalError.NotificationFlag properties for each service in the ConfigurationProperties.xml file.

INTEGRATION_ERR_LOOKUP

The error handling module configuration is governed by the Integration_err_lookup table. This table contains processing instructions for each composite. The Error_Processing_Parent composite picks data for one composite and calls error_Processing_Detail for processing. The configuration in this table is used to process the error records stored in the INTEGRATION_ERROR_STORE table.

S. No.	Column Name	Description	Default/ Suggested Values
1	LookUp_ID	Sequence ID of entry in this table. Auto generated.	Auto generated.
2	IP_Name	Name of the composite processed. Example: SyncWorkerOUWAMUtilitiesProvABCImpl	Do not modify. This column is pre-populated with the individual enterprise business process name. Modifying this value will cause critical errors.
3	Processing_Status	Current status of processing. It has to be one of the following: <ul style="list-style-type: none"> • HALTED (waiting for manual intervention), • NOT REQUIRED • ALIVE 	Default: NOT REQUIRED In order to process the error records, this value must be set to ALIVE.
4	Run_Flag	Processing flag status, Y or N. Unread value = N, read value =Y	N
5	Next_Runtime	Next runtime when the error record should be processed for this composite needs to be set for the current day when they turn the @ environment on (or in the past).	Default: SYSDATE+200 This value needs to be set to the current date or past date to process the error records.

S. No.	Column Name	Description	Default/ Suggested Values
6	Halt_For_Error	<p>Allowed values are Y or N.</p> <p>When set to Y, manual intervention is required after one successful error record processing and any future errors for that composite will not be processed until some action is taken on that task. When set to N, processing continues without halting.</p> <p>Actions that can be performed include:</p> <ul style="list-style-type: none"> ALIVE - This will resume the error processing for all unprocessed records in the INTEGRATION_ERROR_STORE table. ALIVE_FOR_FUTURE_PROCESSING- This will resume the error processing ,only for future error records for the composite. 	N
7	RunTime_Interval	<p>Runtime interval after which the next error processing should be done.</p> <p>This value must be updated based on the business requirement. Setting fewer intervals may have impact on performance.</p> <p>Example: P0Y0M0DT0H5M0S Next processing is done after 5 minutes.</p>	Default : P10Y0M0DT0H0M0S
8	Email_ID	<p>This value needs to be set to the EMAIL ID of the person who should get the emails & who should be notified about the error.</p> <p>To add multiple Email Ids provide comma separated values.</p> <p>This value can be different or same for all the Composites.</p>	Default : email@email.com
9	Email_Content_Type	<ul style="list-style-type: none"> GENERIC – One Email is sent for all errors. No detail information is included. SINGLE – One Email is sent for all errors with details included in the attachment. MULTIPLE – Multiple Emails are sent and each email has information equal to the value specified in Error_Count_Per_Notification column. <p>Values are case sensitive and must always be given in upper case.</p>	Default : GENERIC
10	Email_XSL	<p>XSL to be applied for creating Email Content which includes subject/body and attachment. Look and feel can be modified here.</p>	<p>Default file is provided for all the composites and present under the xsl folder of composite.</p> <p>Example: xsl/ Transformation_Create_Email.xsl</p> <p>Copy this to the mds folder and enter the mds path in this column for additional configuration.</p>

S. No.	Column Name	Description	Default/ Suggested Values
11	Error_Count_Per_Processing	A notification is sent after the number of records set here is processed. Example: If this is set to 50, then an email notification containing 50 records is sent after 50 records are created in the error store. For every 50 records an email notification is sent.	Default : 100
12	Email_Sent_For_First_Error	On initial install this is set to N. this value gets updated to Y or N while processing. This field does not need to be updated by the user.	Default : N
13	Email_Attachment_Location	Location where the Email attachment is created on the server. This value should point to the location/ folder where the attachment should be stored. This is used to create the attachment file in the following format. INTEGRATION_ERR_LOOKUP.Email_Attachment_Location + IP_Name + Date (in YYYYMMDDHH24MMSS)	
14	Email_Attachment_Flag	Y – Send Email with attachment. In this case, it is not mandatory to have Email_Attachment_Location specified. N – Send Email without attachment, but send the attachment location. In this case, Email_Attachment_Location has to be specified. ServerName +INTEGRATION_ERR_LOOKUP.Email_Attachment_Location + IntegrationPoint_Name + Date in YYYYMMDDHH24MMSS	N
15	Publish_Human_Task_Flag	Y – Publish human task N – Don't publish human task If Halt_For_Error value is set to Y and Publish_Human_Task_Flag is also Y, then human task is published and the user can take action from worklist application.	N
16	ID_Human_Task	User/ Group ID to which human task should be published in case Halt_For_Error is set to Y. This ID must be present in the WebLogic realm pointed by fusion middleware.	Weblogic
17	Last_Updated_Date	Last updated date time	SYSDATE
18	Purge_Error_Store_Flag	Y – Purge data N – No purge require The process PurgeIntegrationErrorStore is deployed when the flag, purge.process.deploy=true (in the deploy.properties file) is set to true during installation. If flag.purge.process = false, then value of this column Purge_Error_Store_Flag will always be N.	Default : N

S. No.	Column Name	Description	Default/ Suggested Values
19	Purge_Processing_Status_Flag	Y – Purge Processing in process N – Purge processing not happening The process PurgeIntegrationErrorStore is only deployed when the flag, purge.process.deploy=true (in the deploy.properties file) is set to true during installation. If flag.purge.process = false then value of this column Purge_Error_Store_Flag will always be N.	Default : N
21	Next_Purge_Date	Next purge date. Format: Next_Purge_date + Purge_Frequency Applicable only when flag.purge.process = true in deploy.properties file during installation and the process PurgeIntegrationErrorStore ID deployed.	SYSDATE+100
22	Purge_File_Name	Directory name where the purge file should be stored. Applicable only when flag.purge.process = true in deploy.properties file during installation and the process PurgeIntegrationErrorStore ID deployed.	'location on server where purge record should be persisted'

To Customize Error Email Notifications for Individual Integration Points

The values can be directly updated in the INTEGRATION_ERR_LOOKUP table. Alternatively, the composite can be used as follows:

1. Use the composite: UpdateIntegrationErrorLookupTable.
2. Open the following URL in a browser to get the screen that provides options to update the contents of table.
http://<hostname>:<soa server port>/soa-infra/services/OUWAMERP/UpdateIntegrationErrorLookupTable/updateintegrationerrorlookuptablebpel_client_ep?
 - Expand WS-Security and provide authentication information.
This username and password are going to be same as that used to log in to WebLogic Enterprise Manager console.
 - Expand the payload section.
This displays several editable text fields. Only the ipName field is mandatory and should be entered as one of the values from INTEGRATION_ERR_LOOKUP.IP_NAME field.

By default all the checkboxes appearing next to the text fields are checked.
 - Provide values in the text field.
If you do not want to have a particular value updated, then uncheck the box.

Error Notifications Setup

This integration uses the SOA 12c Error Hospital to manage the errors. For getting error notifications, the following setups are required:

- [Email Configuration](#)
- [ESS \(Oracle Enterprise Scheduler Service\) Schedule](#)
- [Error Notification Rules](#)

Email Configuration

The email configuration needs to be done for emails to be sent as error notification.

For more information about the email configuration settings, refer to the *Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Installation Guide*.

ESS (Oracle Enterprise Scheduler Service) Schedule

The *ESS Schedule* defines the frequency for executing the error notification rules. The ESS schedule is created during the installation process. If required, you can also create an ESS schedule manually and use this for the Error Notification setup. You must define the schedule names in the **Create Schedule** page of Oracle Enterprise Manager Fusion Middleware Control.

To define the schedule, perform the following steps:

1. In the **Navigator**, expand **Scheduling Services > ESSAPP**, or right-click **soa-infra (server_name)** and select **Define Schedules**.
2. From the **Scheduling Service** menu, select **Job Requests > Define Schedules**. The schedules available for selection in the **Schedule Names** list are displayed.
3. Click **Create** to create additional schedules and their execution frequency.

Note: While defining a schedule name, ensure that you specify the schedule package name of /oracle/apps/ess/custom/soa. Otherwise, created schedule will not be accessible on the **Create** or **Edit Error Notification Rule** page.

Error Notification Rules

Error notification rule(s) can be created on the *OUWAMERP* partition. The error notification rule uses the ESS schedule to get the frequency of the error notification rule execution.

For more information about the setup, see the section “Configuration of Error Notification Rules”, refer to *Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Installation Guide*.

For more information about error hospital and error notifications, see the section “Recovering From Faults in the Error Hospital.” in Oracle® Fusion Middleware Administering Oracle SOA Suite and Oracle Business Process Management Suite documentation.

Error Hospital Setup

This Integration uses the SOA 12c Error Hospital to manage the errors. You can manage all the faults occurring within Oracle SOA Suite and view aggregated statistics associated with the faults data on the **Error Hospital** page.

Recoverable instances such as if Oracle Utilities Work and Asset Management is down when the inbound web service is invoked, can be re-tried from the **Error Hospital** page.

If the error notification rule criteria are satisfied, error notification email can be sent to the administrator. The administrator can then go to the **Error Hospital** page and start a bulk recovery of the error instances from the **Error Hospital** page after correcting the error conditions.

For bulk recovery of recoverable instance, perform the following steps:

1. Login into the **Enterprise Manager**.
2. Navigate to **SOA > soa-infra > OUWAMERP partition**.
3. Click the **Error Hospital** tab and search for the faulted instances.
4. In the **Search Results** table, identify instances with faults labeled as “Recovery” in the **Flow State** column.
The faults in this state await for recovery.
5. Select the record of recoverable faulted instances and click on the **Bulk Recovery** button and retry the instances again.

For more information about error hospital and error notifications, see the section “Recovering From Faults in the Error Hospital” in Oracle® Fusion Middleware Administering Oracle SOA Suite and Oracle Business Process Management Suite documentation.

Chapter 5

Monitoring and Troubleshooting

This chapter provides detail on monitoring, error handling, and troubleshooting and discusses how to perform:

- [Monitoring from Oracle Utilities Work and Asset Management](#)
- [Monitoring from the Enterprise Resource Planning System](#)
- [Monitoring from the Integration](#)
- [Troubleshooting](#)

Monitoring from Oracle Utilities Work and Asset Management

This section discusses:

- [Notifications in Oracle Utilities Work and Asset Management](#)
- [Oracle Utilities Work and Asset Management Error Logs](#)

Notifications in Oracle Utilities Work and Asset Management

When the products are published from Oracle Utilities Work and Asset Management, the Sync Requests are transitioned immediately. If the integration layer is down and the message cannot be published to the queue, then the Sync Request is moved to a 'Pending' state. The 'Sync Request Monitor Process' batch program 'F1-SYNRQ' is configured to run periodically to transition the pending Sync Requests for Product Offer.

Once the message is published to the queue, the Sync Requests is in 'Awaiting Acknowledgment' state.

If a positive response is received from the Enterprise Resource Planning system, then the Sync Request is moved to 'Synchronized' state.

If a negative response is received from the Enterprise Resource Planning system or if a time out occurs, then the Sync Request is moved to 'Error' state.

Implementation can plug an algorithm on 'Error' state to create a To Do.

Note: The inbound web service is invoked to process the response message. Regardless of whether To Do was set up or not, the errors are logged in spl-service.log file.

Oracle Utilities Work and Asset Management Error Logs

The Oracle Utilities Work and Asset Management error logs consist of:

- Errors related to the online sync request transition are stored in the WAM_ENVIRONMENT_NAME/logs/system folder.
For example: V231_WAM_PERF_BLD10_LIN_ORA_WLS/logs/system
- Errors related to the batch sync request transition are stored in the \$SPLOUTPUT/ WAM_ENVIRONMENT_NAME folder.
For example: /spl/sploutput/V231_WAM_PERF_BLD10_LIN_ORA_WLS

For more information about errors and notifications, see the Oracle Utilities Work and Asset Management documentation.

Monitoring from the Enterprise Resource Planning System

The implementation team has to monitor the messages coming from the Enterprise Resource Planning system.

Monitoring from the Integration

To monitor the integration process using the Integration, use any of the following:

- [Monitoring using SOA Enterprise Manager](#)
- [Monitoring using WebLogic Logs](#)
- [Monitoring the Queues using WebLogic Console](#)

Monitoring using SOA Enterprise Manager

To monitor through the SOA Enterprise Manager Console, following actions are performed:

1. The Administrator receives a notification email for any failure in integration processes. The notification email includes an error text and description and a link to the failed instance of the composite on Oracle Enterprise Manager (EM) console.
2. After logging into the Enterprise Manager console, the user can see additional details about the instance.
3. The status of the Application Business Connector Services (ABCS) instance, payload and child processes can be monitored from the Oracle Enterprise Manager console.
4. The recoverable error instances can be re-tried one by one or in bulk from the **Error Hospital** page.

For more information about error hospital and error notifications; see the section “Recovering From Faults in the Error Hospital” in Oracle® Fusion Middleware Administering Oracle SOA Suite and Oracle Business Process Management Suite documentation.

Monitoring using WebLogic Logs

Login to the machine where the SOA server is installed. The SOA logs are stored in:
<WebLogic installation folder>/user_projects/domains/<SOA Domain name>/servers/<SOA Server name>/logs

Monitoring the Queues using WebLogic Console

To monitor the queues using the WebLogic console, perform the following steps:

1. Log into the WebLogic console, and then go to the **Services > Messaging > JMS Modules**.
2. All queues used for the integration are available in the “OUWAMERPJMSModule” JMS Module.
3. Select the appropriate queue on the list and go to the **Monitor** tab. In the **Monitor** tab, you can check if the message still exists in the queue. This can happen if there are no consumers listening to the queue in which case, the Consumers Current column is 0.
4. In the **Monitor** tab, you can view the message details.

Troubleshooting

This section explains the actions that can be taken to fix transactions failing in the edge applications. This section explains how the failed messages can be resubmitted, in case if there are any error messages.

The following table provides common error scenarios and their resolutions:

S. No.	Message Coming From	Error in SOA Composite	Error Resolution
1	Enterprise Resource Planning System	ERP Requestor process	The Synchronous fault is sent back to Enterprise Resource Planning system. Message can be re-tried from the Enterprise Resource Planning system.
2	Request Queue	WAM Provider process	Recoverable error instance created in Error Hospital page. Message can be re-tried from the SOA Error Hospital page.
3	Oracle Utilities Work and Asset Management	WAM Requestor process	This can be Oracle Utilities Work and Asset Management originated request or response to a previous message from the Enterprise Resource Planning system. Synchronous fault is sent back to Oracle Utilities Work and Asset Management. Message can be re-tried from the Oracle Utilities Work and Asset Management application.

Note: To retry recoverable error instances, follow steps provide in section [Error Hospital Setup](#).

Error Handling Scenarios - More Information

The following sections provide more information on common errors and their resolutions, including:

- [ERP Initiated Message \(Integration ERP Requestor or Response Requestor BPEL Process\)](#)
- [Integration Reading from the Queue \(Integration WAM Provider or Response Provider BPEL Process\)](#)

- [WAM Initiated Message \(Integration WAM Requestor or Response Requestor BPEL Process\)](#)

ERP Initiated Message (Integration ERP Requestor or Response Requestor BPEL Process)

Enterprise Resource Planning calls the integration requestor web service to send a request or response message to Oracle Utilities Work and Asset Management.

1. Integration is down
 - Return fault to Enterprise Resource Planning
 - Enterprise Resource Planning has to resend the message when integration is available.
2. Queue is down
 - Return fault to Enterprise Resource Planning.
 - Enterprise Resource Planning has to resend the message when queue is available.

Integration Reading from the Queue (Integration WAM Provider or Response Provider BPEL Process)

The integration consumes the message from the queue and calls the Oracle Utilities Work and Asset Management web service.

1. WAM is down
 - BPEL process issues a rollback and move the message to the ERP JMS Error Queue.
 - Invoke Common Error Handling Process to log the error in the integration error table and send email notification if configured.
 - Once Oracle Utilities Work and Asset Management is up, move the message(s) back to the request or response queue to retry the message(s).
2. Error in integration process
 - BPEL process moves the message to the ERP JMS Error Queue.
 - Invoke Common Error Handling Process to log the error in the integration error table and send email notification if configured.
 - If the integration configuration issue is fixed, move message back to the queue. Examples, missing entry in configuration properties file or mapping a required field and the field is missing.
3. Oracle Utilities Work and Asset Management sends fault back to integration
 - BPEL process moves the message to the ERP JMS Error Queue.
 - Invoke Common Error Handling Process to log the error in the integration error table and send email notification if configured.
 - If DVM issue or Oracle Utilities Work and Asset Management configuration issue is fixed, move message back to the queue.

WAM Initiated Message (Integration WAM Requestor or Response Requestor BPEL Process)

Oracle Utilities Work and Asset Management calls the integration requestor or response requestor web service to send a message to Enterprise Resource Planning.

1. Integration is down
 - Return fault to Oracle Utilities Work and Asset Management
 - Oracle Utilities Work and Asset Management has to resend the message when integration is available.
2. Queue is down
 - Return fault to Oracle Utilities Work and Asset Management.
 - Oracle Utilities Work and Asset Management has to resend the message when queue is available.
3. Error in integration process
 - BPEL process moves the message to the ERP JMS Error Queue.
 - Invoke Common Error Handling Process to log the error in the integration error table and send email notification if configured.
 - If Integration configuration issue is fixed, move message back to the queue. Examples, missing entry in configuration properties file or mapping a required field and the field is missing.

Error Scenarios

The following table provides an overview of error scenarios.

#	Message Coming From	Error Type	Error Log in Error Table	Error Retry from Error Queue	Error Notification	Fault Sent To	Comments
1	ERP	Integration Down	N	N	N	ERP	Resend Message from ERP
2	ERP	Queue Down	N	N	N	ERP	Resend Message ERP
3	ERP Request Queue	WAM Down	Y	Y	Y	None	Move message back to Request or response queue
4	ERP Request Queue	Integration Error	Y	Y	Y	None	If Integration configuration issue is fixed, move message back to the queue. If message has an issue, correct data and resend from ERP
5	ERP Request Queue	WAM returns Fault		Y	Y	None	If DVM issue or WAM configuration issue is fixed, move message back to the queue. If message has an issue, like missing require fields, correct data and resend from ERP.
6	WAM	Integration Down	N	N	N	WAM	Resend Message from WAM
7	WAM	Queue Down	N	N	N	WAM	Resend Message from WAM
8	WAM	Integration Error	Y	N	Y	WAM	Correct Integration issue and resend from WAM

Chapter 6

Extensibility Options

Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning offers extensibility in different ways.

- **EBOs** - The design of the Enterprise Business Objects (EBOs) includes mechanisms to extend generic objects in an upgrade-safe manner by providing hooks to plug in additional industry-specific or customer-specific information.
- **XSLs/ABCS** - The transformations (XSLs) provided with ABCS have custom transformation templates available to map to and from customer specific elements. The ABCS also provide extensible scopes to extend their own functionality.

This chapter provides guidelines on extending this integration, and discusses how to:

- [Extending EBOs](#)
- [Extending ABC Services](#)
- [Passing Data without Extending the EBOs](#)

Extending EBOs

The EBOs provided with the integration are carefully defined to represent a typical business process; however, these definitions do not contain any specific attributes. To meet the specific needs with more tailored processing, the integration pack provides the means to extend EBOs in a non-intrusive way.

For example, if your business process requires more information when creating a work order, you can extend EBOs to include the additional information.

A custom schema definition file (XSD) is provided for every EBO that is shipped with the integration. The EBO can be modified by changing these custom files. The XSDs are incorporated into the EBOs so that any custom extensions that are added to the EBOs are protected when patches or upgrades are applied.

EBO Customization

The following sections describe a sample scenario of when and how to customize EBOs. To extend EBOs, add custom elements to the EBO then complete custom mapping for the requestor and for the provider:

- [Adding and Mapping Custom Elements to the EBO](#)
- [Mapping Custom Elements to the EBO](#)

- [Mapping the EBO to the Provider](#)

Adding and Mapping Custom Elements to the EBO

Perform the following steps:

1. From the EBO, identify which section or EBO Type needs to be extended.
2. Add the custom elements to the correct custom EBO Type section in the custom xsd file.

For more information about Extending EBOs, see *the “Extensibility for Oracle AIA Artifacts - Extending EBOs” in Oracle Fusion Middleware Developer’s Guide for Oracle Application Integration Architecture Foundation Pack.*

Mapping Custom Elements to the EBO

The ABCS Requestor processes on the Oracle Utilities Work and Asset Management side are the ones where the Oracle Utilities Work and Asset Management message is translated to the EBO format. In these processes, the custom XSL can be used to map the fields in the Oracle Utilities Work and Asset Management message to the custom EBO fields. Perform the following steps using the Accounting Entry process as an example:

1. Navigate to the Oracle Utilities Work and Asset Management Accounting Entry Requestor process BPEL composite SyncAccountingEntryOUWAMUtilitiesReqABCSEnterpriseImpl and open the custom Oracle Utilities Work and Asset Management message to Enterprise Business Messages (EBM) transformation. (For example, Xform_WAMGLTransaction_to_AccountingEntryRequestEBM_Custom.xml).
2. Map the elements from Oracle Utilities Work and Asset Management to the custom EBO elements.
3. Ensure that the elements are added to the correct section or extension type that needs to be extended.

Sample code in the Xform_WAMGLTransaction_to_AccountingEntryRequestEBM_Custom.xml:

```
<xsl:template name="SyncAccountingEntryListEBM" xml:id="id_2">
  <!-- this template is used for Xformation of
  SyncAccountingEntryListEBM in Request Message-->
  <ns7:AlternateObjectKey xml:id="id_29">
    <xsl:if test="/ns0:sendDetails/ns0:integrationDetails/
    ns0:financialTransactionId">
      <ns7:ID>
        <xsl:value-of select="/ns0:sendDetails/ns0:integrationDetails/
        ns0:financialTransactionId"/>
      </ns7:ID>
    </xsl:if>
  </ns7:AlternateObjectKey>
</xsl:template>
```

Mapping the EBO to the Provider

The ABCS Provider processes on the Oracle Utilities Work and Asset Management side are the ones where the EBM message is translated to Oracle Utilities Work and Asset Management format. In these processes, the custom XSL can be used to map fields in the EBM message to Oracle Utilities Work and Asset Management fields.

Perform the following steps using the Sync Worker Provider as an example:

1. Navigate to the Oracle Utilities Work and Asset Management Sync Worker Provider process BPEL composite SyncWorkerOUWAMUtilitiesProvABCImpl and open the custom EBM to Oracle Utilities Work and Asset Management transformation.

For example: Xform_SyncWorkerEBM_to_OUWAMEmployee_Custom.xml

2. Map the elements from the custom EBO elements to the Oracle Utilities Work and Asset Management message.
3. Make sure the elements are added to the correct section or extension type that needs to be extended.
4. Copy the modified EBO xsd file(s) to the correct location on the application server.
Ex: <PRODUCT_HOME>/AIAMetaData/AIAComponents/EnterpriseObjectLibrary/<Path_to_xsd>
5. Update the modified xsd in the above step to the MDS repository for the changes to take effect.

For more information on updating the MDS artifacts, refer to *Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Installation Guide*.

6. Redeploy the modified SOA Composite process.

For more information on redeploying processes, refer to *Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Installation Guide*.

7. Test to make sure the mapping is correct and the information is passed from one application to the other.

Extending ABC Services

All Requestor and Provider ABC Services provided with this integration have extensible scopes available to extend the functionality. The extensible scopes can be used for additional data enrichment, if required.

There exist two extensible scopes within ABCS depending service with Transformations. There is a pre extensible scope before the transformation and a post extensible scope after the transformation.

You can add custom code in these extensible scopes. These customer-developed extensible scopes behave as an extension to the delivered ABC service.

For more information about Extending ABCS, see the section “Customizing SOA Composite Applications” in Oracle® Fusion Middleware Developing SOA Applications with Oracle SOA Suite documentation.

Passing Data without Extending the EBOs

In some cases, it is necessary to map the additional fields provided by the base transformation. Here the required fields may already be available in the EBO schema but not available in Oracle Utilities Work and Asset Management. Oracle Utilities Work and Asset Management provides xsd element of type raw called customElements which can be used to pass additional data to Oracle Utilities Work and Asset Management. In this case, the Custom XSL files provided along with the main transformation in the Oracle Utilities Work and Asset Management Requestor and the Provider processes can be used to map the additional fields in the EBO to Oracle Utilities Work and Asset Management customElements element.

Perform the following steps using the Sync Worker Provider as an example:

1. Navigate to the Oracle Utilities Work and Asset Management Sync Worker Provider process BPEL composite SyncWorkerOUWAMUtilitiesProvABCImpl and open the custom EBM to Oracle Utilities Work and Asset Management transformation (For example, Xform_SyncWorkerEBM_to_OUWAMEmployee_Custom.xml).
2. Map the elements from the custom EBO elements to the Oracle Utilities Work and Asset Management message.
Make sure that the elements are added to the correct section or extension type that needs to be extended.
3. Copy the modified EBO xsd file(s) to the correct location on the application server.
For example, <PRODUCT_HOME>/AIAMetaData/AIAComponents/EnterpriseObjectLibrary/<Path_to_xsd>
4. Update the modified xsd in the above step to the MDS Repository for the changes to take effect.

For more information on updating the MDS artifacts, refer to *Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Installation Guide*.

5. Redeploy the modified SOA Composite process.

For more information on redeploying processes, refer to *Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning Installation Guide*.

6. Test to make sure that the mapping is correct and the information is passed from one application to the other.

Sample code in

Xform_SyncWorkerEBM_to_OUWAMEmployee_Custom.xml:

```
<xsl:template name="W1-OngoingSyncRequestEmployee">
  <!-- this template is used for Xformation of W1-
  OngoingSyncRequestEmployee in Request Message-->
  <externalPkValue2>
    <xsl:value-of select="/ns0:SyncWorkerListEBM/ns0:DataArea/
ns0:SyncWorkerList/ns9:Identification/ns9:AlternateObjectKey/
ns9:ContextID"/>
  </externalPkValue2>
</xsl:template>
```

Chapter 7

Application Security

This chapter describes the different security policies used for different services.

Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning is enhanced with Oracle Web Services Manager (OWSM) to provide the following security features:

- Attach security policies to services.
- Pass username/password information through csf-keys.

Applied Security Policies

This section identifies the security policies used for various services:

- [Service Policy](#)
- [Client Policy](#)
- [CSF Key](#)

Service Policy

By default, all Services - Application Business Connector Services (ABCS) are secured with the following service policy:

oracle/wss_http_token_service_policy

The applications invoking secured web services need to send credentials to the service.

Client Policy

The Oracle Utilities Work and Asset Management client services invoked from the integration are secured with the following client policy:

- oracle/wss_http_token_client_policy for XAI Services
- oracle/wss_username_token_client_policy for IWS Services

CSF Key

The integration invoking secured Oracle Utilities Work and Asset Management web services send the credentials to the service using the csf-key "OUWAM_01". If the credentials for the Oracle Utilities Work and Asset Management service are changed, then csf-key user/password needs to be updated.

Perform the following steps for changing credentials in the csf-key:

1. Login into the Enterprise Manager.
2. Navigate to **WebLogic Domain** > **<Domain_Name>** and right click on it.
3. From the menu, click **Security** > **Credentials**.
4. From the **Credentials** table, select **oracle.wsm.security** > **Ouwam_01** and click on the **Edit** button.
5. On the **Key** dialog, change the user/password for the Oracle Utilities Work and Asset Management service and save it.

For more information about Extending ABCS, see the section “Enabling Security with Policies and Message Encryption” in Oracle® Fusion Middleware Developing SOA Applications with Oracle SOA Suite documentation.

Appendix A

Data Mapping

This section provides mapping details for each integration point, including:

Enterprise Resource Planning Initiated Processes

- [Blanket Contract \(Purchase Agreement\) Synchronization Process Mapping Details](#)
- [Chart of Accounts \(Cost Center\) Synchronization Process Mapping Details](#)
- [GL Transaction \(Accounting Entry\) Synchronization Process Mapping Details](#)
- [Invoice Synchronization Process Mapping Details](#)
- [Item Balance \(Stock Transaction\) Synchronization Process Mapping Details](#)
- [Material Issue Synchronization Process Mapping Details](#)
- [Purchase Order Synchronization Process Mapping Details](#)
- [Shipment Receipt \(Purchase Receipt\) Synchronization Process Mapping Details](#)
- [Purchase Return Synchronization Process Mapping Details](#)
- [Stock Item Synchronization Process Mapping Details](#)
- [Storeroom Item \(Stock Item Detail\) Synchronization Process Mapping Details](#)
- [Supplier Party \(Vendor/Vendor Location\) Synchronization Process Mapping Details](#)
- [Worker \(Employee\) Synchronization Process Mapping Details](#)

Oracle Utilities Work and Asset Management Initiated Processes

- [GL Transaction \(Accounting Entry\) Synchronization Process Mapping Details](#)
- [Materials Requisition Synchronization Process Mapping Details](#)
- [Purchase Requisition Synchronization Process Mapping Details](#)
- [Supplier Party \(Vendor/Vendor Location\) Synchronization Process Mapping Details](#)

Enterprise Resource Planning Initiated Processes

Blanket Contract (Purchase Agreement) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Blanket Contract \(Purchase Agreement\) Request Mapping Details](#)
- [Blanket Contract \(Purchase Agreement\) Response Mapping Details](#)

Refer to the [Blanket Contract \(Purchase Agreement\) Synchronization Process](#) description for processing details on this integration point.

Blanket Contract (Purchase Agreement) Request Mapping Details

ERP Blanket Purchase Agreement Request EBO Message	IWS: W1-BlanketContractIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-BlanketContractIntegInbound		Outermost Tag	
	integrationId	W1-BlanketContractIntegInbound	Field	Not Mapped. Created internally in WAM on Add.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/Identification/BusinessComponentID	externalReferenceId	W1-BlanketContractIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-BlanketContractIntegInbound	Field	ERP Blanket Purchase Agreement Header ID. This is the Blanket Purchase Agreement Table's unique system generated ID.
	externalSystem	W1-BlanketContractIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.
	targetMo	W1-BlanketContractIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.BlanketContract.Target.MO</i> in the ConfigurationProperties file.
	integrationDetails	W1-BlanketContractIntegInbound	Group	

ERP Blanket Purchase Agreement Request EBO Message	IWS: W1-BlanketContractIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	headerInformation	integrationDetails	Group	
	blanketContractHeaderId	headerInformation	Field	WAM Blanket Contract Header ID. This is a system generated ID created on Add in WAM.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/Identification/ApplicationObjectKey/ID	blanketContractHeaderExternalId	headerInformation	Field	ERP Blanket Purchase Agreement Header ID. This is the Blanket Purchase Agreement Table's unique system generated ID.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/Status/Code	boStatus	headerInformation	Field	OUWAMERP_BlanketContractStatus ERP sends the Blanket Purchase Agreement to WAM when the status is APPROVED .
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/Comment	description	headerInformation	Field	Blanket Purchase Agreement Description
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/Identification/ID	blanketContractNumber	headerInformation	Field	Blanket Contract Number or Blanket Purchase Agreement Number
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/Identification/Revision/Number	revisionNumber	headerInformation	Field	Blanket Purchase Agreement Revision Number
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/Identification/Revision/EffectiveDate	creationDateTime	headerInformation	Field	ERP Blanket Purchase Agreement Creation date time
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/TotalAmount	limitAmount	headerInformation	Field	This is the amount agreed for the blanket agreement
	enforceLimit	headerInformation	Group	Not Mapped. Default to No in WAM.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/EffectiveTimePeriod/StartDateTime	initiationDate	headerInformation	Field	Blanket Purchase Agreement Start Date. Only map the date portion.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/EffectiveTimePeriod/EndDateTime	expirationDate	headerInformation	Field	Blanket Purchase Agreement End Date. Only map the date portion.
	vendorLocationId	headerInformation	Field	Not Mapped WAM Vendor Location ID.

ERP Blanket Purchase Agreement Request EBO Message	IWS: W1-BlanketContractIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/SupplierPartyReference/LocationReference/LocationIdentification/ApplicationObjectKey/ID	vendorLocationExternalId	headerInformation	Field		ERP Vendor Location ID or ERP Vendor Site ID.
	vendorLocationContactId	headerInformation	Field		Not Mapped. This will be populated in WAM. The value will be obtained from the vendor location.
	carrierLocation	headerInformation	Field		Not Mapped
	exchangeRate	headerInformation	Field		Not Mapped. This will be populated in WAM. The value will be obtained from the vendor location.
	currency	headerInformation	Field		Not Mapped. This will be populated in WAM. The value will be obtained from the vendor location.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/FOBCode	fob	headerInformation	Field	OUWAMERP_FOB	Freight On Board Code
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/PaymentTerm/Code	paymentTerms	headerInformation	Field	OUWAMERP_PaymentTerm	Payment Term
	autoPay	headerInformation	Field		Not Mapped
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/PurchaseAgreementReference/PurchaseAgreementIdentification/ApplicationObjectKey/ID	blanketContractAccessList	headerInformation	Field		Not Mapped
	restrictToAccessList	headerInformation	Field		Not Mapped. Default to No in WAM.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/TotalAmount	defaultLimit	headerInformation	Field		Same value as the limitAmount
	lineInformation	integrationDetails	Group		
	lineInformationList	lineInformation	List		
	blanketContractLineId	lineInformationList	Field		Not Mapped. Created internally in WAM on Add.

ERP Blanket Purchase Agreement Request EBO Message	IWS: W1-BlanketContractIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/Identification/ApplicationObjectKey/ID	blanketContractLineExternalId	lineInformationList	Field		ERP Blanket Purchase Agreement Line ID. This is the Blanket Purchase Agreement Line Table's unique system generated ID.
	blanketContractHeaderId	lineInformationList	Field		Not Mapped.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/Status/Code	boStatus	lineInformationList	Field	OUWAMERP_BlanketContractLineStatus	
	creationDateTime	lineInformationList	Field		Not Mapped
	lastUpdateRevision	lineInformationList	Field		Not Mapped
	itemNumber	lineInformationList	Field		Not Mapped. This is an item sequence in WAM.
	resourceTypeId	lineInformationList	Field		Not Mapped. WAM Stock Item Code
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/ItemReference/ItemIdentification/ApplicationObjectKey/ID	resourceTypeExternalId	lineInformationList			ERP's system generated stock Item code/ID. This is the Item Table's unique identifier.
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/ItemReference/ItemIdentification/Description	description	lineInformationList	Field		Item description
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/OrderLeadTime	leadTime	lineInformationList	Field		Number of lead days it takes to receive an item after ordering it
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/ItemReference/TypeCode	stockType	lineInformationList	Field	OUWAMERP_StockType	Type of Stock Item
	requisitionInfo	lineInformationList	Group		
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/UnitPrice/Amount	unitprice	requisitionInfo	Field		

ERP Blanket Purchase Agreement Request EBO Message	IWS: W1-BlanketContractIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/UnitPrice/PerQuantity (attribute name = unitCode)	unitOfPurchase	requisitionInfo	Field	OUWAMERP_UOMCode	
	piRatio	requisitionInfo			Not Mapped. Defaulted to 1 in WAM.
	manufacturers	lineInfomationList	Field		
	manufacturersList	manufacturers	Field		Not Mapped
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/ItemReference/SpecificationGroup/Specification/Identification/ID					Although this is not mapped to WAM, ERP can pass a value here like 'Manufaturer' to specify the field. (Optional)
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/ItemReference/SpecificationGroup/Specification/Name					Although this is not mapped to WAM, ERP can pass the value description here like 'Manufacturer' to describe the field. (Optional)
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/ItemReference/SpecificationGroup/Specification/ValueCode	manufacturer	manufacturersList	Field	OUWAMERP_ManufacturerCode	Manufacture Code
/SyncBlanketPurchaseAgreementListEBM/DataArea/SyncBlanketPurchaseAgreementList/BlanketPurchaseAgreementLine/ItemReference/ItemIdentification/ManufacturerItemID	manufacturerPartNumber	manufacturersList	Field		

Blanket Contract (Purchase Agreement) Response Mapping Details

WAM Blanket Contract (Purchase Agreement) Response Message			ERP Blanket Contract (Purchase Agreement) List Response Message	Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncBlanketPurchaseAgreementListResponseEBM/DataArea/SyncBlanketPurchaseAgreementListResponse/Identification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM process the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while process the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncBlanketPurchaseAgreementListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncBlanketPurchaseAgreementListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.

WAM Blanket Contract (Purchase Agreement) Response Message			ERP Blanket Contract (Purchase Agreement) List Response Message	Comments
Element Name	Parent Element	Type	Full Path	
comments	exceptionInformationList	Field	SyncBlanketPurchaseAgreementListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Chart of Accounts (Cost Center) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Chart of Accounts \(Cost Center\) Request Mapping Details](#)
- [Chart of Accounts \(Cost Center\) Response Mapping Details](#)

Refer to the [Chart of Accounts \(Cost Center\) Synchronization Process](#) description for processing details on this integration point.

Chart of Accounts (Cost Center) Request Mapping Details

ERP System (Chart of Accounts (Cost Center) EBO Message)	WAM (W1-OngoingSyncRequestCostCtr Business Object Message)	DVM Mapping		Comments
Full Path	Element Name	Parent Element	Type	
	W1-SyncRequestInbound		Outermost Tag	
	syncRequestId	W1-SyncRequestInbound	Field	Not Mapped. Created internally in WAM on add.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/Identification/ BusinessComponentID	externalReferenceId	W1-SyncRequestInbound	Field	ERP System Sync Request ID: This is a unique ID sent as part of the request message by the external system (ERP system) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/Identification/ BusinessComponentID	externalPkValue1	W1-SyncRequestInbound	Field	ERP System Sync Request ID: Same value as WAM externalReferenceID.
	externalSystem	W1-SyncRequestInbound	Field	Defaulted by the integration using the property name OUWAM.External.System in the ConfigurationProperties file.
	targetMo	W1-SyncRequestInbound	Field	Defaulted by the integration using the property name OUWAM.CostCenter.Target.MO in the ConfigurationProperties file.
	initialLoad	W1-SyncRequestInbound	Field	Defaulted by the integration using the property name OUWAM.InitialLoad.Flag in the ConfigurationProperties file.
	syncRequestDetails	W1-SyncRequestInbound	Group	
	original	syncRequestDetails	Group	
	finalSnapshot	original	Group	

ERP System (Chart of Accounts (Cost Center) EBO Message)	WAM (W1-OngoingSyncRequestCostCtr Business Object Message)	DVM Mapping		Comments	
Full Path	Element Name	Parent Element	Type		
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/Identification/ ApplicationObjectKey/ID	externalId	finalSnapshot	Field	ERP System GL Account String combination is mapped to the EBO Chart Of Accounts ApplicationObjectKey ID, but this value is not mapped to WAM.	
	costCenter	finalSnapshot	Field	This is not mapped from ERP to WAM.	
	costCenter	finalSnapshot	Field	Not Mapped. Created internally in WAM on Add. WAM derives the cost center from the ERP system segments provided in the message.	
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/Description	description	finalSnapshot	Field	ERP system Chart of Accounts description.	
	budgetAmount	finalSnapshot	Field	This is not mapped from ERP to WAM.	
	allowUserCharge	finalSnapshot	Field	This is not mapped from ERP to WAM.	
	expenseCodeExternalId	finalSnapshot	Field	This is not mapped from ERP to WAM.	
	resourceClass	finalSnapshot	Field	Not mapped. The resource class in WAM has one of four values: Materials, Craft, Equipment or Other. This is used so that certain expense codes can only be used on certain items.	
	costCategory	finalSnapshot	Field	Not mapped. The cost category is an admin value in WAM that is used to group expense codes to more granular levels than just the Resource Class.	
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/EnabledIndicator	boStatus	finalSnapshot	Field	OUWAMERP_ChartofAccountStatus	ERP system sends an indicator to specify if the account is active or inactive. The integration uses DVM to translate the ERP system indicator to the equivalent WAM Status.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/Identification/ ContextID	capitalAccount	finalSnapshot	Field	OUWAMERP_CapitalAccountFlag	ERP system sends an indicator to specify if this is a capital account. The integration uses DVM to translate the ERP system indicator to the equivalent WAM value.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(1)/ CodeIdentification/ApplicationObjectKey/ID	segment1	finalSnapshot	Field		ERP Segment 1: ERP system Segments are mapped to the EBO Chart of Accounts GL Elements List and passed to the WAM segment elements.

ERP System (Chart of Accounts (Cost Center) EBO Message)	WAM (W1-OngoingSyncRequestCostCtr Business Object Message)	DVM Mapping		Comments
Full Path	Element Name	Parent Element	Type	
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(2)/ CodeIdentification/ApplicationObjectKey/ID	segment2	finalSnapshot	Field	ERP System Segment 2.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(3)/ CodeIdentification/ApplicationObjectKey/ID	segment3	finalSnapshot	Field	ERP System Segment 3.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(4)/ CodeIdentification/ApplicationObjectKey/ID	segment4	finalSnapshot	Field	ERP System Segment 4.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(5)/ CodeIdentification/ApplicationObjectKey/ID	segment5	finalSnapshot	Field	ERP System Segment 5.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(6)/ CodeIdentification/ApplicationObjectKey/ID	segment6	finalSnapshot	Field	ERP System Segment 6.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(7)/ CodeIdentification/ApplicationObjectKey/ID	segment7	finalSnapshot	Field	ERP System Segment 7.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(8)/ CodeIdentification/ApplicationObjectKey/ID	segment8	finalSnapshot	Field	ERP System Segment 8.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(9)/ CodeIdentification/ApplicationObjectKey/ID	segment9	finalSnapshot	Field	ERP System Segment 9.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(10)/ CodeIdentification/ApplicationObjectKey/ID	segment10	finalSnapshot	Field	ERP System Segment 10.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(1)/ Description	segment1Description			ERP Segment 1 Descriptions: ERP system Segment descriptions are mapped to the EBO Chart of Accounts GL Element Description List and passed to the WAM segment description elements.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(2)/ Description	segment2Description			ERP System Segment 2 Descriptions.

ERP System (Chart of Accounts (Cost Center) EBO Message)	WAM (W1-OngoingSyncRequestCostCtr Business Object Message)	DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(3)/ Description	segment3Description		ERP System Segment 3 Descriptions.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(4)/ Description	segment4Description		ERP System Segment 4 Descriptions.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(5)/ Description	segment5Description		ERP System Segment 5 Descriptions.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(6)/ Description	segment6Description		ERP System Segment 6 Descriptions.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(7)/ Description	segment7Description		ERP System Segment 7 Descriptions.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(8)/ Description	segment8Description		ERP System Segment 8 Descriptions.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(9)/ Description	segment9Description		ERP System Segment 9 Descriptions.
/SyncChartOfAccountsListEBM/DataArea/ SyncChartOfAccountsList/GLElement(10)/ Description	segment10Description		ERP System Segment 10 Descriptions.

Chart of Accounts (Cost Center) Response Mapping Details

WAM (Cost Center Sync Response Message)			ERP (Sync Chart Of Accounts List Response Message)	Comments
Element Name	Parent Name	Type		
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncChartOfAccountsListResponseEBM/DataArea/ SyncChartOfAccountsListResponse/Identification/ BusinessComponentID	ERP System Sync Request ID: The unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceID, which is the ERP system sync request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceID and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncChartOfAccountsListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code contains a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncChartOfAccountsListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code contains a concatenation of the WAM Message Category and Message Number.
comments	exceptionInformationList	Field	/SyncChartOfAccountsListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Text	Error comments or error message.
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		

WAM (Cost Center Sync Response Message)			ERP (Sync Chart Of Accounts List Response Message)	Comments
Element Name	Parent Name	Type		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

GL Transaction (Accounting Entry) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [GL Transaction \(Accounting Entry\) Request Mapping Details \(ERP to WAM\)](#)
- [GL Transaction \(Accounting Entry\) Response Mapping Details \(ERP to WAM\)](#)

Refer to the [GL Transaction \(Accounting Entry\) Synchronization Process](#) description for processing details on this integration point.

GL Transaction (Accounting Entry) Request Mapping Details (ERP to WAM)

ERP Accounting Entry Request EBO Message	WAM Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegInbound)			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
	W1-FinancialTransIntegInbound		Outermost Tag		
	syncRequestId	W1-FinancialTransIntegInbound	Field		Not Mapped. Created internally in WAM on Add.
/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/Identification/BusinessComponentID	externalReferenceId	W1-FinancialTransIntegInbound	Field		ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-FinancialTransIntegInbound	Field		ERP system generated Financial Transaction (FT) ID.
	externalSystem	W1-FinancialTransIntegInbound	Field		Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.
	bo	W1-FinancialTransIntegInbound	Field		Defaulted by Integration using property name <i>OUWAM.FT.BO</i> in the ConfigurationProperties file.
	targetMo	W1-FinancialTransIntegInbound	Field		Defaulted by Integration using property name <i>OUWAM.FT.Target.MO</i> in the ConfigurationProperties file.
	integrationDetails	W1-FinancialTransIntegInbound	Group		
/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/TypeCode	financialTransactionType	integrationDetails	Field	OUWAMERP_AccountingEntryType	Indicates the type of accounting entry.WAM Values: Regular or Tax. Use DVM to translate the ERP financial transaction type to the equivalent WAM Accounting Entry Type.

ERP Accounting Entry Request EBO Message	WAM Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegInbound)			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/Identification/ ApplicationObjectKey/ID	financialTransactionExtern allId				ERP system generated Financial Transaction (FT) ID.
	financialTransactionId	integrationDetails	Field		Not Mapped
	boStatus				Not Mapped
	amount	integrationDetails	Field		Not Mapped.
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/CurrencyExchange/ SourceCurrencyCode	currency	integrationDetails	Field	OuwamERP_CurrencyCode	The currency of the FT.
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingDate	accountingDate	integrationDetails	Field		The date on which the FT occurred.
	activityId	integrationDetails	Field		Not Mapped
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/JournalSourceCode					ERP passes one charge ID per request message. Base on the ID being pass, ERP should set this field according to the values below to specify what type of ID it is. <ul style="list-style-type: none"> • TimesheetDetailId - pass TSD • OtherDirectChargesId - pass ODC • InventoryCountLineId- pass ICL • AcceptLineId - pass ACL • MaterialIssueLineId - pass MIL • MaterialReturnLineId • pass MRL • ReturnId - pass RTN • InventoryAdjustmentId - pass IAD • InvoiceLineId - pass INL
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/LedgerReference/ LedgerIdentification/ID	timesheetDetailId	integrationDetails	Field		ERP passes one charge ID per request message. For example: Timehseet ID, Direct Charges ID, Materials Issued ID Invoice Line ID, etc. Base on the value of the EBO's JournalSourceCode, integration will map the ID to the appropriate field in WAM.
	otherDirectChargesId	integrationDetails	Field		

ERP Accounting Entry Request EBO Message	WAM Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegInbound)			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
	inventoryCountLineId	integrationDetails	Field		
	acceptLineId	integrationDetails	Field		
	materialIssueLineId	integrationDetails	Field		
	materialReturnLineId	integrationDetails	Field		
	returnId	integrationDetails	Field		
	inventoryAdjustmentId	integrationDetails	Field		
	invoiceLineId	integrationDetails	Field		
	invoiceHeaderId	integrationDetails	Field		Not Mapped
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/	financialTransactionGlDetails	integrationDetails	List		List mapping in a loop
	sequenceNumber	financialTransactionGlDetails	Field		Default by integration base on the list record counter. This is a required field in WAM.
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ DebitAmount	amount	financialTransactionGlDetails	Field		ERP passes debit and credit amount in the EBO DebitAmount field only. Amount is a positive number for debit and a negative number for credit.
	distributionCode	financialTransactionGlDetails	Field		Defaulted by Integration using property name <i>OUWAM.Distribution.Code</i> in the ConfigurationProperties file. The distribution Code defined in the ConfigurationProperties file must exist in WAM; this is used on all ERP based Accounting Entry requests.
	project	financialTransactionGlDetails	Field		Not Mapped
	costCenter	financialTransactionGlDetails	Field		Not Mapped
	expenseCode	financialTransactionGlDetails	Field		Not Mapped
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/Identification/ID	glAccount	financialTransactionGlDetails	Field		GL Account

ERP Accounting Entry Request EBO Message	WAM Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegInbound)			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(1)/GLElement	segment1	financialTransactionGl Details	Field		GL elements are a sequenced set of account codes that form a Chart Of Accounts Code or GL Account
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(2)/GLElement	segment2	financialTransactionGl Details	Field		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(3)/GLElement	segment3	financialTransactionGl Details	Field		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(4)/GLElement	segment4	financialTransactionGl Details	Field		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(5)/GLElement	segment5	financialTransactionGl Details	Field		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(6)/GLElement	segment6	financialTransactionGl Details	Field		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(7)/GLElement	segment7	financialTransactionGl Details	Field		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(8)/GLElement	segment8	financialTransactionGl Details	Field		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(9)/GLElement	segment9	financialTransactionGl Details	Field		
/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/AccountingEntryLine/ GLAccount/GLElement(10)/GLElement	segment10	financialTransactionGl Details	Field		
	characteristicType	financialTransactionGl Details	Field		Not Mapped
	characteristicValue	financialTransactionGl Details	Field		Not Mapped

GL Transaction (Accounting Entry) Response Mapping Details (ERP to WAM)

WAM Financial Transaction Response Message		ERP Accounting Entry Response Message		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncAccountingEntryListResponseEBM/DataArea/SyncAccountingEntryListResponse/Identification/BusinessComponentID	ERP Sync Request ID. The unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncAccountingEntryListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncAccountingEntryListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.

WAM Financial Transaction Response Message			ERP Accounting Entry Response Message	Comments
Element Name	Parent Element	Type	Full Path	
comments	exceptionInformationList	Field	SyncAccountingEntryListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Invoice Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Invoice Request Mapping Details](#)
- [Invoice Response Mapping Details](#)

Refer to the [Invoice Synchronization Process](#) description for processing details on this integration point.

Invoice Request Mapping Details

ERP Invoice Request EBO Message	WAM Web Service Name : W1-InvoiceIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-InvoiceIntegInbound		Outermost Tag	
	syncRequestId	W1-InvoiceIntegInbound	Field	Not Mapped. Created internally in WAM on Add.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/Identification/BusinessComponentID	externalReferenceId	W1-InvoiceIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-InvoiceIntegInbound	Field	ERP system generated Invoice Header ID. This is the Invoice Table's unique system generated ID.
	externalSystem	W1-InvoiceIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.
	bo	W1-InvoiceIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.Invoice.BO</i> in the ConfigurationProperties file.
	targetMo	W1-InvoiceIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.Invoice.Target.MO</i> in the ConfigurationProperties file.
	integrationDetails	W1-InvoiceIntegInbound	Group	ERP system generated Invoice Header ID. This is the Invoice Table's unique system generated ID.
	headerInformation	integrationDetails	Group	
	invoiceHeaderId	headerInformation	Field	Not Mapped. Internal WAM system generated Invoice Header ID created on Add.

ERP Invoice Request EBO Message	WAM Web Service Name : W1-InvoiceIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/Identification/ApplicationObjectKey/ID	invoiceHeaderExternalId	headerInformation	Field		ERP system generated Invoice Header ID. This is the Invoice Table's unique system generated ID.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/Status/Code	boStatus	headerInformation	Field	OUWAMERP_InvoiceStatusCode	ERP sends the Invoice to WAM when the invoice is validated or approved. ERP will also send Paid and Cancel or Void and system can pass other status for update.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/Identification/ID	invoiceNumber	headerInformation	Field		Invoice Number is the same for both WAM and ERP system
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/Description	description	headerInformation	Field		Invoice Description
	clerk	headerInformation	Field		Not Mapped
	creationDate/Time	headerInformation	Field		Not Mapped
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/AutomaticPaymentIndicator	autopay	headerInformation	Field	OUWAMERP_InvoiceAutomaticPaymentIndicator	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/BillToPartyReference/PartyIdentification/ApplicationObjectKey/ID	buyer	headerInformation	Field	OUWAMERP_Buyer	ERP will pass a valid ERP Buyer code or ID to the integration. Integration will use dvm to map the ERP Buyer Code/ID to the Valid WAM Buyer Code/ID. Use existing Buyer.dvm
	vendorLocationId	headerInformation	Field		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/BillFromPartyReference/LocationReference/LocationIdentification/ApplicationObjectKey/ID	vendorLocationExternalId				Pass ERP Vendor Location ID or ERP Vendor Site ID. This has to be a valid vendor location in WAM. Supplier Party Sync from ERP to WAM must be done first.
	payToVendorLocation	headerInformation	Field		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/RemitToPartyReference/LocationReference/LocationIdentification/ApplicationObjectKey/ID	payToVendorLocationExternalId	headerInformation			Pass ERP Pay To Vendor Location ID or ERP Pay To Vendor Site ID. This has to be a valid vendor location in WAM. Supplier Party Sync from ERP to WAM must be done first.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/PaymentTerm/Code	paymentTerms	headerInformation	Field	OUWAMERP_PaymentTerms	This is the payment term code. Use existign Payment Term dvm
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/PaymentTerm/Duration	numberOfDays	headerInformation	Field		Number of Days to add to get the due date if it is calculated

ERP Invoice Request EBO Message	WAM Web Service Name : W1-InvoiceIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceDateTime	vendorDate	headerInformation	Field		Date printed on invoice, basis of due date calculation. Pass only the date portion.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/DueDate	invoiceDueDate	headerInformation	Field		Invoice due date
	invoiceReceivedDate	headerInformation	Field		Not Mapped. When the Client receive the invoice from the vendor.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceStatusHistory/StatusHistory/ToStatusCode					ERP should pass hardcoded value ' CREATED '
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceStatusHistory/StatusHistory/EffectiveDateTime	invoiceEnteredDate	headerInformation	Field		Invoice creation date or Invoice enter date when AP clerk entered the invoice into the system. Pass only date portion.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/CurrencyExchange/SourceCurrencyCode	currency	headerInformation	Field	OuwamERP_Currency Code	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/CurrencyExchange/ConversionRate	exchangeRate	headerInformation	Field		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/PaymentTerm/DiscountPercent	discountRate	headerInformation	Field		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/TotalAmount	manuallyEnteredTotal	headerInformation	Field		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceTaxTotal/Amount	manuallyEnteredTaxTotal	headerInformation	Field		
	voucherNumber	headerInformation	Field		Not mapped
	payImmediate	headerInformation	Field		Not mapped
	separateCheck	headerInformation	Field		Not mapped
	reviewDate	headerInformation	Field		Not mapped
	paymentDate	headerInformation	Field		Not mapped
	checkNumber	headerInformation	Field		Not mapped
	checkType	headerInformation	Field		Not mapped

ERP Invoice Request EBO Message	WAM Web Service Name : W1-InvoiceIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceAllowanceTotal/TypeCode					ERP should pass an allowance type code (default value is DISC) to pass discount amount to WAM. This is not mapped to WAM but is used by the integration to map the discount amount to WAM.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceAllowanceTotal/Amount	overrideDiscountAmount	headerInformation	Field	OUWAMERP_ AllowanceCode	Override Discount Amount for the invoice. This should contain a negative amount.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceChargeTotal[1]/TypeCode					ERP should pass a charge type code (default value is FRGT) when passing freight amount to WAM. This is not mapped to WAM but is used by the integration to map freight amount to WAM.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceChargeTotal[1]/Amount	freightAmount	headerInformation	Field	OUWAMERP_ ChargeCode	Freight Amount for the invoice
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceChargeTotal[2]/TypeCode					ERP should pass a charge type code (default value is EXCT) when passing extra cost amount to WAM. This is not mapped to WAM but is used by the integration to map extra cost amount to WAM.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceChargeTotal[2]/Amount	extraCostAmount	headerInformation	Field	OUWAMERP_ ChargeCode	Extra Cost for the invoice.
	lineInformation	integrationDetails	Group		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine	lineInformationList	lineInformation	List		Loop through the InvoiceLine List if there is more than one Invoice Line.
	invoiceLineId	lineInformationList	Field		Not Mapped. Internal WAM system generated Invoice Line ID created on Add.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/Identification/ApplicationObjectKey/ID	invoiceLineExternalId	lineInformationList	Field		ERP system generated Invoice Line ID. This is the Invoice Line Table's unique system generated ID.
	invoiceHeaderId	lineInformationList	Field		Not Mapped. Derived in WAM
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/Status/Code	boStatus	lineInformationList	Field	OUWAMERP_ InvoiceLineStatusCode	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/PurchaseOrderReference/Identification/ApplicationObjectKey/ID					Purchase Order referenced in the invoice. This is the ERP system generated Purchase Order Header ID

ERP Invoice Request EBO Message	WAM Web Service Name : W1-InvoiceIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
	purchaseOrderLineId				Not Mapped. Internal WAM system generated Purchase Order Line ID
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/PurchaseOrderReference/Identification/ApplicationObjectKey/ContextID	purchaseOrderLineExternalId	lineInformationList	Field		Purchase Order Line referenced in the invoice. This is the ERP system generated Purchase Order Line ID
	activityId				Not Mapped. Activity ID is System generated ID for the Task.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/WorkOrderLineReference/WorkOrderIdentification/ID	workOrderNumber				WAM Work Order Number. If not provided, derive the value from WAM.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/WorkOrderLineReference/WorkOrderIdentification/ContextID	activityNumber	lineInformationList	Field		WAM Activity Number. If not provided, derive the value from WAM.
	creationDateTime	lineInformationList	Field		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/ItemReference/TypeCode	itemType	lineInformationList	Field	OUWAMERP_ItemType	
	itemNumber	lineInformationList	Field		Not Mapped Item sequence number
	resourceTypeId	lineInformationList	Field		Not Mapped. Internal WAM system generated Stock Item ID
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/ItemReference/ItemIdentification/ApplicationObjectKey/ID	resourceTypeExternalId				ERP's system generated stock Item code/ID. This is the Item Table's unique identifier.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/ItemReference/Description	description	lineInformationList	Field		item description.
	detailedDescription	lineInformationList	Field		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/OrderQuantity	quantity	lineInformationList	Field		
	currency	lineInformationList	Field		Not Mapped
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/UnitPrice/Amount	unitPrice	lineInformationList	Field		

ERP Invoice Request EBO Message	WAM Web Service Name : W1-InvoiceIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/UnitPrice/PerQuantity (attribute name = unitCode)	unitOfPurchase	lineInformationList	Field	OUWAMERP_UOMCode	
	taxRateSchedule	lineInformationList	Field		Not mapped
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/TotalAmount	lineTotal	lineInformationList	Field		Total amount of the invoice line, including the line amount and the total of all the charges, allowances and taxes.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/ExtendedAmount	lineAmount	lineInformationList	Field		The amount of the invoice line not including taxes or charges. This generally equals the Unit Price times the Order Quantity.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAllowanceTotal/TypeCode					ERP should pass an allowance type code (default value is DISC) when passing line discount amount to WAM. This is not mapped to WAM but is used by the integration to map the line discount amount to WAM.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAllowanceTotal/Amount	proratedDiscount	lineInformationList	Field	OUWAMERP_AllowanceCode	Discount amount per invoice line. This should contain a negative amount.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineChargeTotal[1]/TypeCode					ERP should pass a charge type code (default value is FRGT) when passing line freight amount to WAM. This is not mapped to WAM but is used by the integration to map line freight amount to WAM.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineChargeTotal[1]/Amount	proratedFreight	lineInformationList	Field	OUWAMERP_ChargeCode	Freight Amount per invoice line
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineChargeTotal[2]/TypeCode					ERP should pass a charge type code (default value is EXCT) when passing line extra cost amount to WAM. This is not mapped to WAM but is used by the integration to map line extra cost amount to WAM.
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineChargeTotal[2]/Amount	proratedExtraCost	lineInformationList	Field	OUWAMERP_ChargeCode	Extra Cost per invoice line
	accountingInformation	lineInformationList	Group		
	costCenterList	accountingInformation	List		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/Identification/ID	glAccount	costCenterList	Field		

ERP Invoice Request EBO Message	WAM Web Service Name : W1-InvoiceIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(1)/GLElement	segment1	costCenterList	Field	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(2)/GLElement	segment2	costCenterList	Field	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(3)/GLElement	segment3	costCenterList	Field	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(4)/GLElement	segment4	costCenterList	Field	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(5)/GLElement	segment5	costCenterList	Field	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(6)/GLElement	segment6	costCenterList	Field	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(7)/GLElement	segment7	costCenterList	Field	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(8)/GLElement	segment8	costCenterList	Field	
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(9)/GLElement	segment9	costCenterList	Field	

ERP Invoice Request EBO Message	WAM Web Service Name : W1-InvoiceIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/GLAccount/GLElement(10)/GLElement	segment10	costCenterList	Field		
	costCenter	costCenterList	Field		Not mapped
	expenseCode	costCenterList	Field		Not mapped
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineAccountingDistribution/AccountingDistribution/Percentage	percentage	costCenterList	Field		
	taxLines	lineInformationList	Group		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineTaxTotal	taxLinesList	taxLines	List		Loop through the InvoiceLineTaxTotal List if there are more than one Invoice Line tax total. entry
	sequence	taxLinesList	Field		Defaulted by Integration
	rateSchedule	taxLinesList	Field		
	effectiveDate	taxLinesList	Field		
	factor	taxLinesList	Field		
	factorValue	taxLinesList	Field		
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineTaxTotal/TypeCode	charType	taxLinesList	Field	OUWAMERP_TaxType	Identifies the type of tax (Example: State Tax)
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineTaxTotal/Identification/ID	charValue	taxLinesList	Field	OUWAMERP_TaxTypeValue	Tax type value (Example: CA)
/SyncInvoiceListEBM/DataArea/SyncInvoiceList/InvoiceLine/InvoiceLineTaxTotal/Amount	taxAmount	taxLinesList	Field		Total amount for a given type of tax per invoice line.

Invoice Response Mapping Details

WAM Invoice Response Message		ERP Invoice List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncInvoiceListResponseEBM/DataArea/SyncInvoiceListResponse/Identification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM process the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounteres an error while process the request, it sends back the externalReferenceId and the exeptionInformation.
exceptionInformation List	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncInvoiceListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncInvoiceListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
comments	exceptionInformationList	Field	SyncInvoiceListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		

WAM Invoice Response Message		ERP Invoice List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Invoice Payment (Disbursement) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Invoice Payment \(Disbursement\) Request Mapping Details](#)
- [Invoice Payment \(Disbursement\) Response Mapping Details](#)

Refer to the [Invoice Payment \(Disbursement\) Synchronization Process](#) description for processing details on this integration point.

Invoice Payment (Disbursement) Request Mapping Details

ERP DisbursementPayment Request EBO Message	WAM Invoice Payment		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1- InvoicePaymentIntegInbound		Outermost Tag	This process is used for both Scenario #1 and #2.
	syncRequestId	W1- InvoicePaymentIntegInbound	Field	Not Mapped. Created internally in WAM on Add.
/SyncDisbursedPaymentListEBM/DataArea/ SyncDisbursedPaymentList/Identification/ BusinessComponentID	externalReferenceId	W1- InvoicePaymentIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncDisbursedPaymentListEBM/DataArea/ SyncDisbursedPaymentList/Identification/ ApplicationObjectKey/ID	externalPkValue1	W1- InvoicePaymentIntegInbound	Field	This is the Invoice Header ID. If ERP owns invoice, this field contains the ERP system generated Invoice Header ID. If WAM owns invoice, this field contains the WAM system generated Invoice Header ID.
	externalSystem	W1- InvoicePaymentIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.
	targetMo	W1- InvoicePaymentIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.InvoicePayment.Target.MO</i> in the ConfigurationProperties file.
	bo	W1- InvoicePaymentIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.InvoicePayment.BO</i> in the ConfigurationProperties file.
	integrationDetails	W1- InvoicePaymentIntegInbound	Group	

ERP DisbursementPayment Request EBO Message	WAM Invoice Payment		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/Identification/ApplicationObjectKey/ContextID				This field indicates wheter the invoice originated from WAM or ERP. If invoice originated from WAM (Invoice owned by WAM), ERP should pass hardcoded value ' WAMINV '. If the invoice originated from the ERP system (Invoice owned by ERP), ERP should pass hardcoded value ' ERPINV '.
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/Identification/ApplicationObjectKey/ID	invoiceHeaderExternalId	W1- InvoicePaymentIntegInbound	Field	If SyncDisbursedPaymentList/Identification/ApplicationObjectKey/ContextID is 'ERPINV', ERP passes the ERP system generated Invoice Header ID. WAM invoiceHeaderId field should not be mapped.
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/Identification/ApplicationObjectKey/ID	invoiceHeaderId	W1- InvoicePaymentIntegInbound	Field	If SyncDisbursedPaymentList/Identification/ApplicationObjectKey/ContextID is 'WAMINV', ERP passes the WAM system generated Invoice Header ID. WAM invoiceHeaderExternalId should not be mapped.
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/Identification/ContextID	voucherNumber	W1- InvoicePaymentIntegInbound	Field	
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/Identification/ID	invoiceNumber	W1- InvoicePaymentIntegInbound	Field	Pass as is. The Invoice Number will be the same for both the WAM and ERP systems.
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/PaymentInstrument/Check/IssuedDate	paymentDate	W1- InvoicePaymentIntegInbound	Field	
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/PaymentInstrument/Check/Number	checkNumber	W1- InvoicePaymentIntegInbound	Field	
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/PaymentInstrument/Check/TypeCode	checkType	W1- InvoicePaymentIntegInbound	Field	OUWAMERP_ CheckType
/SyncDisbursedPaymentListEBM/DataArea/SyncDisbursedPaymentList/Amount	paymentAmount	W1- InvoicePaymentIntegInbound	Field	

Invoice Payment (Disbursement) Response Mapping Details

WAM Invoice Payment Response Message		ERP DisbursementPayment List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncDisbursedPaymentListResponseEBM/DataArea/SyncDisbursedPaymentListResponse/Identification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM process the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while process the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncDisbursedPaymentListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncDisbursedPaymentListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
comments	exceptionInformationList	Field	SyncDisbursedPaymentListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Item Balance (Stock Transaction) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Item Balance \(Stock Transaction\) Request Mapping Details](#)
- [Item Balance \(Stock Transaction\) Response Mapping Details](#)

Refer to the [Item Balance \(Stock Transaction\) Synchronization Process](#) description for processing details on this integration point.

Item Balance (Stock Transaction) Request Mapping Details

ERP Item Balance Request EBO Message	WAM Inbound Service: W1-StockTransIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-StockTransIntegInbound		Outermost Tag	
	syncRequestId	W1-StockTransIntegInbound	Field	Not Mapped. This is a WAM system generated ID created internally in WAM on Add.
/SyncItemBalanceListEBM/DataArea/SyncItemBalanceList/Identification/BusinessComponentID	externalReferenceId	W1-StockTransIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncItemBalanceListEBM/DataArea/SyncItemBalanceList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-StockTransIntegInbound	Field	This is the ERP system's unique system generated ItemBalance ID. The Item Balance Table's unique identifier.
	externalSystem	W1-StockTransIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.
	targetMo	W1-StockTransIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.StockTransaction.Target.MO</i> in the ConfigurationProperties file.
	bo	W1-StockTransIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.StockTransaction.BO</i> in the ConfigurationProperties file.
	integrationDetails	W1-StockTransIntegInbound	Group	
/SyncItemBalanceListEBM/DataArea/SyncItemBalanceList/Identification/ApplicationObjectKey/ID	stockTransactionExternalId	integrationDetails	Field	ERP's system generated stock transaction or item balance ID. This is the Item Balance transaction's unique identifier.

ERP Item Balance Request EBO Message	WAM Inbound Service: W1-StockTransIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	stockTransactionId	integrationDetails	Field	Not Mapped. WAM's system generated stock transaction ID.
/SyncItemBalanceListEBM/DataArea/ SyncItemBalanceList/InventoryBalance/ LocationBalance/LocationReference/ LocationIdentification/ID				This is the ERP system's organization number. Example: In EBS, it is a unique 3 character organization number
/SyncItemBalanceListEBM/DataArea/ SyncItemBalanceList/InventoryBalance/ LocationBalance/LocationReference/ LocationIdentification/ContextID				This is the ERP system's subinventory name or subinventory ID
/SyncItemBalanceListEBM/DataArea/ SyncItemBalanceList/InventoryBalance/ ItemReference/ItemIdentification/ ApplicationObjectKey/ID				ERP system generated Item ID which is the Item Table's unique identifier.
/SyncItemBalanceListEBM/DataArea/ SyncItemBalanceList/InventoryBalance/ LocationBalance/LocationReference/ LocationIdentification/ID-/SyncItemBalanceListEBM/ DataArea/SyncItemBalanceList/InventoryBalance/ LocationBalance/LocationReference/ LocationIdentification/ContextID-/ SyncItemBalanceListEBM/DataArea/ SyncItemBalanceList/InventoryBalance/ ItemReference/ItemIdentification/ ApplicationObjectKey/ID	stockItemDetailExternalId			Same value as externalPKValue1. This is the ERP Storeroom ID or Stock Item Detail. This ID is a concatenation of : <ul style="list-style-type: none"> ERP's Inventory Organization Number, ERP's Subinventory Name ERP's Item system generated ID with a dash (-) delimiter in between. Example: 123-Sub1-987654321
	stockItemDetailId	integrationDetails	Group	Not Mapped. WAM's system generated stock item detail ID.
	boStatus	integrationDetails	Field	Not Mapped
	creationDateTime	integrationDetails	Field	Not Mapped.
/SyncItemBalanceListEBM/DataArea/ SyncItemBalanceList/InventoryBalance/ ReportingDateTime	transactionDate	integrationDetails	Field	Date for which the item availability information is provided. Only pass the date portion to WAM.
/SyncItemBalanceListEBM/DataArea/ SyncItemBalanceList/InventoryBalance/ ItemReference/SpecificationGroup/Specification/ ValueAmount	unitPrice	integrationDetails	Field	

ERP Item Balance Request EBO Message	WAM Inbound Service: W1-StockTransIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncItemBalanceListEBM/DataArea/ SyncItemBalanceList/InventoryBalance/ OnHandQuantity	inventoryQty	integrationDetails	Field		The quantity of item on-hand at the reporting date time
	reservedQty	integrationDetails			The quantity of item reserved (e.g., by other orders) at the reporting date time. From WAM, this field does not need to be mapped.
	relevant	integrationDetails	Field		Not Mapped

Item Balance (Stock Transaction) Response Mapping Details

WAM Stock Transaction Sync Response Message			ERP Sync Item Balance List Response Message	Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncItemBalanceListResponseEBM/DataArea/SyncItemBalanceListResponse/ItemIdentification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncItemBalanceListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncItemBalanceListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.

WAM Stock Transaction Sync Response Message			ERP Sync Item Balance List Response Message	Comments
Element Name	Parent Element	Type	Full Path	
comments	exceptionInformationList	Field	/SyncItemBalanceListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Material Issue Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Material Issue Request Mapping Details](#)
- [Material Issue Response Mapping Details](#)

Refer to the [Material Issue - Inventory Transaction Synchronization Process](#) description for processing details on this integration point.

Material Issue Request Mapping Details

ERP InventoryTransaction Request EBO Message	WAM Material Issue Service : W1-MaterialIssueIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-MaterialIssueIntegInbound		Outermost Tag	
	syncRequestId	W1-MaterialIssueIntegInbound	Field	Not Mapped. Created internally in WAM on Add.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList (attribute name = actionCode)				ERP passes ' Material Issue ' in the actionCode to indicate this record is related to a material issue since inventory transaction EBO is also used by other processes.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/Identification/BusinessComponentID	externalReferenceId	W1-MaterialIssueIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to the ERP system from WAM.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-MaterialIssueIntegInbound	Field	ERP Material Issue Line system generated ID. This is the Material Issue Line unique identifier.
	externalSystem	W1-MaterialIssueIntegInbound	Field	Defaulted by Integration using property name <i>Ouwam.External.System</i> in the ConfigurationProperties file.
	targetMo	W1-MaterialIssueIntegInbound	Field	Defaulted by Integration using property name <i>Ouwam.MaterialIssue.Target.MO</i> in the ConfigurationProperties file.
	bo	W1-MaterialIssueIntegInbound	Field	Defaulted by Integration using property name <i>Ouwam.MaterialIssue.BO</i> in the ConfigurationProperties file.

ERP InventoryTransaction Request EBO Message	WAM Material Issue Service : W1-MaterialIssueIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	integrationDetails	W1-MaterialIssueIntegInbound	Group	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/Identification/ ApplicationObjectKey/ID	materialIssueLineExternalId	integrationDetails	Field	ERP Material Issue Line system generated ID. This is the Material Issue Line unique identifier.
	materialIssueLineId	integrationDetails	Field	Not Mapped.Internal WAM system generated Material Issue Line ID.
	boStatus	integrationDetails	Field	Not Mapped
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ SourceDocumentLineReference/ DocumentIdentification/ApplicationObjectKey/ID	materialRequestHeaderId	integrationDetails	Field	WAM Material Requisition ID sent out on the Material Requisition Sync.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ SourceDocumentLineReference/ DocumentLineIdentification/ApplicationObjectKey/ ContextID	materialRequestLineId	integrationDetails	Field	WAM Material Requisition Line ID sent out on the Material Requisition Sync.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ID				This is the ERP system's organization number where the item is stock. Example: In EBS, it is a unique 3 character organization number
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ ContextID				This is the ERP system's subinventory name or subinventory ID where the item is stock.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ItemReference/ ItemIdentification/ApplicationObjectKey/ID				ERP system generated Stock Item ID which is the Stock Item's unique identifier.

ERP Inventory Transaction Request EBO Message	WAM Material Issue Service : W1-MaterialIssueIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ ID-nventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ ContextID-/SyncInventoryTransactionListEBM/ DataArea/SyncInventoryTransactionList/ ItemReference/ItemIdentification/ ApplicationObjectKey/ID	stockItemDetailExternalId	integrationDetails	Field		This is the ERP Storeroom ID or Stock Item Detail. This ID is a concatenation of: <ul style="list-style-type: none"> ERP's Inventory Organization Number, ERP's Subinventory Name ERP's Stock Item unique identifier with a dash (-) delimiter in between. Example: 123-Sub1-987654321
	stockItemDetailId	integrationDetails	Field		Not Mapped. Internal WAM system generated Stock Item Detail ID
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryTransactionLine/StartingSerialNumberID	assetId	integrationDetails	Field		This can be a serial number or lot number. If provided, it has to be a valid Asset ID in WAM.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryTransactionLine/TransactionLineQuantity	issuedQuantity	integrationDetails	Field		Quantity of item issued
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ItemReference/ SpecificationGroup/Specification/ValueAmount	unitPrice	integrationDetails	Field		Unit price of the item
	totalCost	integrationDetails	Field		Not Mapped

Material Issue Response Mapping Details

WAM Material Issue Response Message		ERP InventoryTransaction List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncInventoryTransactionListResponseEBM/DataArea/SyncInventoryTransactionListResponse/Identification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM process the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounteres an error while process the request, it sends back the externalReferenceId and the exeptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
comments	exceptionInformationList	Field	SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		

WAM Material Issue Response Message		ERP InventoryTransaction List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Material Return Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Material Return Request Mapping Details](#)
- [Material Return Response Mapping Details](#)

Refer to the [Material Return – Inventory Transaction Synchronization Process](#) description for processing details on this integration point.

Material Return Request Mapping Details

ERP Inventory Transaction Request EBO Message	WAM Service : W1-MaterialReturnIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-MaterialReturnIntegInbound		Outermost Tag	
	syncRequestId	W1-MaterialReturnIntegInbound	Field	Not Mapped. Created internally in WAM on Add.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList (attribute name = actionCode)				ERP passes ' Material Return ' in the actionCode to indicate this record is related to a material return since inventory transaction EBO is also used by other processes.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/Identification/BusinessComponentID	externalReferenceId	W1-MaterialReturnIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to the ERP system from WAM.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-MaterialReturnIntegInbound	Field	ERP Material Return Line system generated ID. This is the Material Return Line unique identifier.
	externalSystem	W1-MaterialReturnIntegInbound	Field	Defaulted by Integration using property name <i>Ouwam.External.System</i> in the ConfigurationProperties file.
	targetMo	W1-MaterialReturnIntegInbound	Field	Defaulted by Integration using property name <i>Ouwam.MaterialReturn.Target.MO</i> in the ConfigurationProperties file.
	bo	W1-MaterialReturnIntegInbound	Field	Defaulted by Integration using property name <i>Ouwam.MaterialReturn.BO</i> in the ConfigurationProperties file.

ERP Inventory Transaction Request EBO Message	WAM Service : W1-MaterialReturnIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	integrationDetails	W1-MaterialReturnIntegInbound	Group	
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/Identification/ApplicationObjectKey/ID	materialReturnLineExternalId	integrationDetails	Field	ERP Material Return Line system generated ID. This is the Material Return Line unique identifier.
	materialReturnLineId	integrationDetails	Field	Not Mapped.Internal WAM system generated Material Return Line ID.
	materialReturnHeaderId	integrationDetails	Field	Not Mapped. Internal WAM system generated Material Return Header ID
	creationUser	integrationDetails	Field	WAM Creation User is the User ID that creates the material return in WAM. Defaulted by Integration using property name <i>OUWAM.Integration.User</i> in the ConfigurationProperties file. This User ID must be a valid User ID in WAM.
	boStatus	integrationDetails	Field	Not Mapped.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/TransactionDateTime	returnDate	integrationDetails	Field	Item Return Date. Required field in WAM.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/Description	returnBy	integrationDetails	Field	Item Returned By, this is a text field in WAM and is required. If not passed, WAM will default it from the creationUser.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/SourceDocumentReference/DocumentIdentification/ApplicationObjectKey/ID	materialIssueLineExternalId	integrationDetails	Field	ERP Material Issue Line system generated ID. This is the Material Issue Line unique identifier.
	materialIssueLineId	integrationDetails	Field	Not Mapped.Internal WAM system generated Material Issue Line ID.
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/InventoryLocationReference/LocationIdentification/ID				This is the ERP system's organization number. Example: In EBS, it is a unique 3 character organization number
/SyncInventoryTransactionListEBM/DataArea/SyncInventoryTransactionList/InventoryLocationReference/LocationIdentification/ContextID				This is the ERP system's subinventory name or subinventory ID.

ERP Inventory Transaction Request EBO Message	WAM Service : W1-MaterialReturnIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ItemReference/ ItemIdentification/ApplicationObjectKey/ID				ERP system generated Stock Item ID which is the Stock Item's unique identifier.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ ID-nventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ ContextID-/SyncInventoryTransactionListEBM/ DataArea/SyncInventoryTransactionList/ ItemReference/ItemIdentification/ ApplicationObjectKey/ID	stockItemDetailExternalId	integrationDetails	Field	This is the ERP Storeroom ID or Stock Item Detail. This ID is a concatenation of: <ul style="list-style-type: none"> • ERP's Inventory Organization Number, • ERP's Subinventory Name • ERP's Stock Item unique identifier with a dash (-) delimiter in between. Example: 123-Sub1-987654321
	stockItemDetailId	integrationDetails	Field	Not Mapped
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryTransactionLine/StartingSerialNumberID	assetId	integrationDetails	Field	This can be a serial number or lot number.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryTransactionLine/TransactionLineQuantity	returnQuantity	integrationDetails	Field	
	acceptedQuantity	integrationDetails	Field	Not Mapped
	expenseCode	integrationDetails	Field	Not Mapped
	repaired	integrationDetails	Field	Not Mapped
	totalCost	integrationDetails	Field	Not Mapped
	accountingInformation	integrationDetails	Group	
	costCenterList	accountingInformation	List	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ Identification/ID	glAccount	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(1)/GLElement	segment1	costCenterList	Field	GL elements are a sequenced set of account codes that form a Chart Of Accounts Code or GL Account

ERP Inventory Transaction Request EBO Message	WAM Service : W1-MaterialReturnIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(2)/GLElement	segment2	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(3)/GLElement	segment3	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(4)/GLElement	segment4	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(5)/GLElement	segment5	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(6)/GLElement	segment6	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(7)/GLElement	segment7	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(8)/GLElement	segment8	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(9)/GLElement	segment9	costCenterList	Field	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/GLAccount/ GLElement(10)/GLElement	segment10	costCenterList	Field	
	costCenter	costCenterList	Field	Not Mapped
	expenseCode	costCenterList	Field	Not Mapped
	percentage	costCenterList	Field	Defaulted by Integration using property name <i>OUWAM.MaterialReturn.Percentage</i> in the ConfigurationProperties file. Defaulted to 100

Material Return Response Mapping Details

WAM Material Return Response Message		ERP InventoryTransaction List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncInventoryTransactionListResponseEBM/DataArea/SyncInventoryTransactionListResponse/Identification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM process the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while process the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformation List	exceptionInformation	List		
sequence	exceptionInformation List	Field		
messageCategory	exceptionInformation List	Field	/SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformation List	Field	/SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
comments	exceptionInformation List	Field	SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformation List	List		
parameterSequence	messageParameters	Field		

WAM Material Return Response Message		ERP InventoryTransaction List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
messageParameter Type	messageParameters	Field		
messageParameter Value	messageParameters	Field		

Purchase Order Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Purchase Order Request Mapping Details](#)
- [Purchase Order Response Mapping Details](#)

Refer to the [Purchase Order Synchronization Process](#) description for processing details on this integration point.

Purchase Order Request Mapping Details

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-PurchaseOrderIntegInbound		Outermost Tag	
	integrationId	W1-PurchaseOrderIntegInbound	Field	Not Mapped. Created internally in WAM on Add.
/SyncPurchaseOrderListEBM/DataArea/SyncPurchaseOrderList/Identification/BusinessComponentID	externalReferenceId	W1-PurchaseOrderIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncPurchaseOrderListEBM/DataArea/SyncPurchaseOrderList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-PurchaseOrderIntegInbound	Field	ERP system generated Purchase Order Header ID. This is the Purchase Order Table's unique identifier.
	externalSystem	W1-PurchaseOrderIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.
	bo	W1-PurchaseOrderIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.PO.BO</i> in the ConfigurationProperties file.
	targetMo	W1-PurchaseOrderIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.PO.Target.MO</i> in the ConfigurationProperties file.
	integrationDetails	W1-PurchaseOrderIntegInbound	Group	

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	headerInformation	integrationDetails	Group	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/Identification/ ApplicationObjectKey/ID	poHeaderExternalId	headerInformation	Field	ERP system generated Purchase Order Header ID. This is the Purchase Order Table's unique system generated ID.
	purchaseOrderHeaderId	headerInformation	Field	Not Mapped. Internal WAM system generated Purchase Order Header ID created on Add.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/Status/Code	boStatus	headerInformation	Field	OUWAMERP_POStatus ERP sends the PO to WAM when the status is APPROVED/ ISSUED or when the PO status is changed to CLOSED .
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/Identification/ID	purchaseOrderNumber	headerInformation	Field	Purchase Order Number is the same for both WAM and the ERP system.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/Identification/Revision/ Number	revisionNumber	headerInformation	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ OrganizationName	description	headerInformation	Field	This will contain the vendor contact information
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/OrderDateTime	creationDateTime	headerInformation	Field	
	poCreatedBy	headerInformation	Field	Defaulted by Integration using property name <i>OUWAM.Integration.POCreatedBy</i> in the ConfigurationProperties file.
	finalDateTime	headerInformation	Group	Not Mapped.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ RequisitionLineReference/RequisitionIdentification/ ApplicationObjectKey/ID	purchaseRequisitionHeader Id	lineInformationList	Field	WAM Purchase Requisition ID sent in the Requisition Sync should be pass back in the PO Sync.
	initiator	headerInformation	Field	Not Mapped.
	requestedByUser	headerInformation	Field	Not Mapped. This is derived from The WAM Requisition. This is the requestor's name.

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/BuyerPartyReference/ Contact/ContactPhoneCommunication/ PhoneCommunication/CompleteNumber	buyerPhoneNumber	headerInformation	Field	This is the complete phone number without separation between country code, area code etc.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/BuyerPartyReference/ PartyIdentification/ID	buyer	headerInformation	Field	OUWAMERP_Buyer This is the buyer ID. ERP passes a valid ERP Buyer ID. Example: In EBS, this should be a valid HR record. Integration uses DVM to map to the valid WAM Buyer ID.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/OrderDateTIme	requestDate	headerInformation	Field	Only the date portion is mapped
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/Status/EffectiveDateTIme	issueDate	headerInformation	Field	This is the approval date or the issue date
	requiredDate	headerInformation	Field	Not Mapped
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/ShipToPartyReference/ LocationReference/LocationIdentification/ID	shipToLocation	headerInformation	Field	OUWAMERP_ LocationId ERP passes a valid ERP location ID. Integration uses DVM to map to the valid WAM location ID.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ DeliverToPartyReference/LocationReference/ LocationIdentification/ID	deliverToLocation	headerInformation	Field	OUWAMERP_ LocationId ERP passes a valid ERP location ID. Integration uses DVM to map to the valid WAM location ID. Map the first PO line's deliver to location.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ DeliverToPartyReference/PartyIdentification/ OrganizationName	deliverTo	headerInformation	Field	Map the first PO line's deliver to contact.
	vendorLocation	headerInformation	Field	Not Mapped. WAM Vendor Location ID
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/LocationIdentification/ ApplicationObjectKey/ID	vendorLocationExternalId	headerInformation	Field	ERP Vendor Location ID or ERP Vendor Site ID. This has to be a valid vendor location in WAM. Supplier Party Sync from the ERP system to WAM must be done first.
	vendorContact	headerInformation	Field	Not Mapped. This has to be a valid Contact ID in WAM, the value is derived in WAM.

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	location	headerInformation	Group	Vendor Location Address Information.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/LineOne	address1	location	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/LineTwo	address2	location	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/LineThree	address3	location	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/LineFour	address4	location	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/CityName	city	location	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/StateName	state	location	Field	OUWAMERP_State
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/CountyName	county	location	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/CountryName	country	location	Field	OUWAMERP_Country
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/SupplierPartyReference/ LocationReference/Address/PostalCode	postal	location	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/CurrencyExchange/ ConversionRate	exchangeRate	headerInformation	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/CurrencyExchange/ SourceCurrencyCode	currency	headerInformation	Field	OUWAMERP_Currency Code

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments	
Full Path	Element Name	Parent Element	Type		
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/FOBCode	freeOnBoard	headerInformation	Field	OUWAMERP_FOB	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PaymentTerm/Code	paymentTerms	headerInformation	Field	OUWAMERP_Payment Term	
	automaticPay	headerInformation	Field	Not Mapped. Defaulted in WAM. This will be obtained from the vendor location's autopay value.	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/ PurchaseAgreementReference/ PurchaseAgreementIdentification/ ApplicationObjectKey/ID	blanketContractHeaderId	headerInformation	Field	ERP system generated Blanket Contract or Blanket Purchase Agreement ID which is the Blanket Contract Table's unique identifier. This blanket contract should exist in the WAM system. Blanket Purchase Agreement Sync from the ERP system to WAM must be done first.	
	projectId	headerInformation	Field	Not Mapped	
	purchaseDocumentType	headerInformation	Field		
	lineInformation	integrationDetails	Group		
	lineInformationList	lineInformation	List	Loop through the PurchaseOrderLine List if there is more than one PO Line.	
	purchaseOrderLineId	lineInformationList	Field	Not Mapped. Internal WAM system generated Purchase Order Line ID created on Add.	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ Identification/ApplicationObjectKey/ID	poLineExternalId	lineInformationList	Field	ERP Purchase Order Line system generated ID. This is the PO Line Table's unique identifier.	
	purchaseOrderHeaderId	lineInformationList	Field	Not Mapped. Derived in WAM.	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/Status/ Code	boStatus	lineInformationList	Field	OUWAMERP_POLine Status	ERP sends the PO Lines to WAM when the status is APPROVED/ISSUED or when the PO Line status is CLOSED. The PO Header and Lines status should match.
	resourceTypeId	lineInformationList	Field	Not Mapped. WAM's system generated resourceType ID	

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ ItemReference/ItemIdentification/ ApplicationObjectKey/ID	resourceTypeExternalId	lineInformationList	Field	ERP's system generated stock Item code/ID. This is the Item Table's unique identifier. If the stock item or resource does not exist in the ERP, leave this blank and only pass the item description. If the stock item exist in the ERP, do not populate the item description.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ ItemReference/ItemIdentification/Description	description	lineInformationList	Field	Item description
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ RequisitionLineReference/RequisitionIdentification/ ApplicationObjectKey/ID	purchaseRequisitionHeader Id	lineInformationList	Field	WAM Purchase Requisition ID sent on the Requisition Sync. Note: RequisitionLineReference is a new reference added in the PO EBO.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ RequisitionLineReference/ RequisitionLineIdentification/ApplicationObjectKey/ ContextID	purchaseRequisitionLineId	lineInformationList	Field	WAM Purchase Requisition Line ID sent on the Requisition Sync. Note: RequisitionLineReference is a new reference added in the PO EBO.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseAgreementPriceBreakReference/ PurchaseAgreementLineIdentification/ ApplicationObjectKey/ID	blanketContractLineId	lineInformationList	Field	ERP system generated Blanket Contract Line or Blanket Purchase Agreement Line Id which is the Blanket Contract Line Table's unique identifier. This blanket contract line should exist in the WAM system. Blanket Purchase Agreement Sync from ERP to WAM must be done first.
	lastUpdateRevision	lineInformationList	Field	Not Mapped
	finalDateTime	lineInformationList	Field	Not Mapped
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ ItemReference/TypeCode	itemType	lineInformationList	Field	OUWAMERP_ItemType
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ Quantity	quantity	lineInformationList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ UnitPurchasePrice/Amount	unitprice	lineInformationList	Field	

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ UnitPurchasePrice/PerQuantity				
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ UnitPurchasePrice/PerQuantity (attribute name = unitCode)	unitOfPurchase	lineInfomationList	Field	OUWAMERP_ UOMCode
	purchaseToIssueRatio	lineInfomationList	Field	Not Mapped
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/RequiredByDate	requiredDate	lineInfomationList	Field	
	promiseDate	lineInfomationList	Field	Not Mapped
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ ItemReference/ItemIdentification/SupplierItemID	vendorpartNumber	lineInfomationList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/ProjectReference/ ProjectIdentification/ApplicationObjectKey/ID	projectId	lineInfomationList	Field	WAM Project ID
	accountingInformation	lineInfomationList	Group	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution	costCenterList	accountingInformation	List	Loop through the ShipmentDistribution List if there is more than one glAccount.
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/Identification/ ID	glAccount	costCenterList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(1)/GLElement	segment1	costCenterList	Field	GL elements are a sequenced set of account codes that form a Chart Of Accounts Code or GL Account

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(2)/GLElement	segment2	costCenterList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(3)/GLElement	segment3	costCenterList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(4)/GLElement	segment4	costCenterList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(5)/GLElement	segment5	costCenterList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(6)/GLElement	segment6	costCenterList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(7)/GLElement	segment7	costCenterList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(8)/GLElement	segment8	costCenterList	Field	

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(9)/GLElement	segment9	costCenterList	Field	
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/GLAccount/ GLElement(10)/GLElement	segment10	costCenterList	Field	
	costCenter	costCenterList	Field	Not Mapped
	expenseCode	costCenterList	Field	Not Mapped
/SyncPurchaseOrderListEBM/DataArea/ SyncPurchaseOrderList/PurchaseOrderLine/ PurchaseOrderShipment/ShipmentDistribution/ AccountingDistribution/Percentage	percentage	costCenterList	Field	
	taxLines		Group	
/SyncPurchaseOrderListEBM/DataArea/Sync PurchaseOrderList/PurchaseOrderLine/Purchase OrderLineTaxTotal	taxLinesList	taxLines	List	Loop through the PurchaseOrderLineTaxTotal List if there are more than one Purchase Order Line tax total.
	seq	taxLinesList	Field	Defaulted by the Integration
/SyncPurchaseOrderListEBM/DataArea/Sync PurchaseOrderList/PurchaseOrderLine/Purchase OrderLineTaxTotal/TypeCode	charType	taxLinesList	Field	OUWAMERP_TaxType Identifies the type of tax (Example: State Tax)
/SyncPurchaseOrderListEBM/DataArea/Sync PurchaseOrderList/PurchaseOrderLine/Purchase OrderLineTaxTotal/Identification/ID	charValue	taxLinesList	Field	OUWAMERP_TaxType Value Tax type value (Example: CA)
/SyncPurchaseOrderListEBM/DataArea/Sync PurchaseOrderList/PurchaseOrderLine/Purchase OrderLineTaxTotal/Amount	taxAmount	taxLinesList	Field	Total amount for a given type of tax.

ERP Purchase Order Request EBO Message	WAM BO MESSAGE: W1-PurchaseOrderIntegInbound IWS: W1-PurchaseOrderIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncPurchaseOrderListEBM/DataArea/SyncPurchaseOrderList/PurchaseOrderLine/OrderedAmount	lineAmount	lineInfomationList	Field		Purchase Order Line Ordered Amount. It can be the amount calculated based on order quantity and price or the service amount
/SyncPurchaseOrderListEBM/DataArea/SyncPurchaseOrderList/PurchaseOrderLine/TotalAmount	lineTotal	lineInfomationList	Field		Total amount of the purchase order line, including the OrderedAmount and the total of all taxes

Purchase Order Response Mapping Details

WAM PO Response Message		ERP Sync Purchase Order List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncPurchaseOrderListResponseEBM/DataArea/SyncPurchaseOrderListResponse/Identification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncPurchaseOrderListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncPurchaseOrderListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.

WAM PO Response Message			ERP Sync Purchase Order List Response Message	Comments
Element Name	Parent Element	Type	Full Path	
comments	exceptionInformationList	Field	SyncPurchaseOrderListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Shipment Receipt (Purchase Receipt) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Shipment Receipt \(Purchase Receipt\) Request Mapping Details](#)
- [Shipment Receipt \(Purchase Receipt\) Response Mapping Details](#)

Refer to the [Shipment Receipt \(Purchase Receipt\) Synchronization Process](#) description for processing details on this integration point.

Shipment Receipt (Purchase Receipt) Request Mapping Details

ERP Shipment Receipt Request EBO Message	WAM Service: W1-ReceiptIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-ReceiptIntegInbound		Outermost Tag	
	syncRequestId	W1-ReceiptIntegInbound	Field	Not Mapped. Created internally in WAM on Add.
/SyncShipmentReceiptListEBM/DataArea/SyncShipmentReceiptList/Identification/BusinessComponentID	externalReferenceId	W1-ReceiptIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncShipmentReceiptListEBM/DataArea/SyncShipmentReceiptList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-ReceiptIntegInbound	Field	ERP system generated Receipt Header ID. This is the Receipt Table's uniqueidentifier.
	externalSystem	W1-ReceiptIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.
	bo	W1-ReceiptIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.Receipt.BO</i> in the ConfigurationProperties file.
	targetMo	W1-ReceiptIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.Receipt.Target.MO</i> in the ConfigurationProperties file.
	integrationDetails	W1-ReceiptIntegInbound	Group	
	headerInformation	integrationDetails	Group	
/SyncShipmentReceiptListEBM/DataArea/SyncShipmentReceiptList/Identification/ApplicationObjectKey/ID	receiptHeaderExternalId	headerInformation	Field	ERP system generated Purchase Receipt Header ID. This is the Purchase Receipt Table's unique identifier.

Shipment Receipt (Purchase Receipt) Request Mapping Details

ERP Shipment Receipt Request EBO Message	WAM Service: W1-ReceiptIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	receiptHeaderId	headerInformation	Field	Not Mapped. Internal WAM system generated Receipt Header ID created on Add.
	boStatus	headerInformation	Field	Not Mapped. ERP sends the Receipt once it is completed. Status is defaulted in WAM.
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/AuditHistory/ CreatedDateTime	creationDateTime	headerInformation	Field	
	finalDateTime	headerInformation	Group	Not Mapped
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/Comment	description	headerInformation	Field	Purchase Receipt description or comment
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/ShipmentReceiptLine/ PurchaseOrderReference/Identification/ ApplicationObjectKey/ID	purchaseOrderHeader ExternalId	headerInformation	Field	ERP system generated Purchase Order ID which is the ERP Purchase Order Table's unique identifier. This is the Purchase Order referenced by the purchase or shipment receipt.
	purchaseOrderHeaderId	headerInformation	Field	Not Mapped. Internal WAM system generated Purchase Order Header ID.
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/ShipmentReceiptLine/ PurchaseOrderReference/Identification/ID	purchaseOrderNumber	headerInformation	Field	Purchase Order Number reference by the purchase or shipment receipt. This number is the same in ERP and WAM.
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/ShipmentReceiptLine/ PurchaseOrderReference/Identification/Revision/ Number	poRevisionNumber	headerInformation	Field	Purchase Order Revision Number reference by the purchase or shipment receipt.
	lineInfomation	integrationDetails	Group	
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/ShipmentReceiptLine	lineInfomationList	lineInfomation	List	Loop through the ShipmentReceiptLine List if there is more that one Shipment Receipt Line.
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/ShipmentReceiptLine/ Identification/ApplicationObjectKey/ID	receiptLineExternalId	lineInfomationList	Field	ERP system generated Receipt Line ID. This is the Purchase Receipt Line Table's unique identifier.

ERP Shipment Receipt Request EBO Message	WAM Service: W1-ReceiptIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	receiptLineId	lineInfomationList	Field	Not Mapped. Internal WAM system generated Receipt Line ID created on Add.
	boStatus	lineInfomationList	Field	Not Mapped
	receiptHeaderExternalId	lineInfomationList	Field	
	receiptHeaderId	lineInfomationList	Field	Not Mapped. Derive in WAM.
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/AuditHistory/ CreatedDateTime	creationDateTime			
	finalDateTime	lineInfomationList	Field	Not Mapped
	purchaseOrderLineExternal Id	lineInfomationList	Field	ERP system generated Purchase Order Line ID which is the ERP Purchase Order Line Table's unique identifier. This is the Purchase Order Line referenced by the purchase or shipment receipt line.
	purchaseOrderLineId	lineInfomationList	Field	Not Mapped. Internal WAM system generated Purchase Order Line ID.
	stockItemDetailExternalId	lineInfomationList	Field	Not Mapped
	stockItemDetailId	lineInfomationList	Field	Not Mapped
/SyncShipmentReceiptListEBM/DataArea/ SyncShipmentReceiptList/ItemReference/ ItemIdentification/ApplicationObjectKey/ID	resourceTypeExternalId	lineInfomationList	Field	ERP's system generated stock Item code/ID. This is the Item Table's unique identifier. This field is populated if the item received by the ERP is a stock item. For received non-stock items, the item description is obtained from the PO line.
	resourceTypeId	lineInfomationList	Field	Not Mapped. WAM's system generated resourceType ID

ERP Shipment Receipt Request EBO Message	WAM Service: W1-ReceiptIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
	storageLocationId	lineInfomationList	Field		Not mapped. This value is derived by WAM.
	unitOfPurchase	lineInfomationList	Field	OUWAMERP_ UOMCode	Unit of Purchase
	quantity	lineInfomationList	Field		Quantity received

Shipment Receipt (Purchase Receipt) Response Mapping Details

WAM Receipt Response Message		ERP Sync Inventory Transaction List Response Message (Receipt)		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncInventoryTransactionListResponseEBM/DataArea/SyncInventoryTransactionListResponse/Identification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.

WAM Receipt Response Message		ERP Sync Inventory Transaction List Response Message (Receipt)		Comments
Element Name	Parent Element	Type	Full Path	
comments	exceptionInformationList	Field	SyncInventoryTransactionListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Purchase Return Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Purchase Return Request Mapping Details](#)
- [Purchase Return Response Mapping Details](#)

Refer to the [Purchase Return – Inventory Transaction Synchronization Process](#) description for processing details on this integration point.

Purchase Return Request Mapping Details

ERP Inventory Transaction Request EBO Message	WAM Service : W1-PurchaseReturnIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1- PurchaseReturnIntegInbound		Outermost Tag	
	syncRequestId	W1- PurchaseReturnIntegInbound	Field	Not Mapped. Created internally in WAM on Add.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList (attribute name = actionCode)				The ERP system passes 'Purchase Return' in the actionCode to indicate this record is related to a purchase return since inventory transaction EBO is also used by other processes.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/Identification/ BusinessComponentID	externalReferenceId	W1- PurchaseReturnIntegInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/Identification/ ApplicationObjectKey/ID	externalPkValue1	W1- PurchaseReturnIntegInbound	Field	ERP Purchase Return Line system generated ID. This is the Purchase Return Line unique identifier.
	externalSystem	W1- PurchaseReturnIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.
	targetMo	W1- PurchaseReturnIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.PurchaseReturn.Target.MO</i> in the ConfigurationProperties file.

ERP Inventory Transaction Request EBO Message	WAM Service : W1-PurchaseReturnIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	bo	W1-PurchaseReturnIntegInbound	Field	Defaulted by Integration using property name <i>OUWAM.PurchaseReturn.BO</i> in the ConfigurationProperties file.
	integrationDetails	W1-PurchaseReturnIntegInbound	Group	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/Identification/ ApplicationObjectKey/ID	returnLineExternalId	integrationDetails	Field	ERP Purchase Return Line system generated ID. This is the Purchase Return Line unique identifier.
	returnLineId	integrationDetails	Field	Not Mapped.Internal WAM system generated Purchase Return Line ID.
	boStatus	integrationDetails	Field	Not Mapped.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ SourceDocumentReference/DocumentIdentification/ ApplicationObjectKey/ID	poLineExternalId	integrationDetails	Field	ERP system generated Purchase Order Line ID. This is the ERP Purchase Order Line Table's unique identifier. This is the Purchase Order Line referenced by the purchase return line.
	purchaseOrderLineId			Not Mapped. Internal WAM system generated Purchase Order Line ID
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ SourceDocumentReference/DocumentIdentification/ ApplicationObjectKey/ContextID	receiptLineExternalId	integrationDetails	Field	ERP Purchase Receipt Line system generated ID which is the Purchase receipt Line Table's unique identifier. This is the Purchase Receipt Line referenced by the purchase return line.
	receiptLineId	integrationDetails	Field	Not Mapped.Internal WAM system generated Purchase Receipt Line ID.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ID				This is the ERP system's organization number. Example: In EBS, it is a unique 3 character organization number
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ ContextID				This is the ERP system's subinventory name or subinventory ID
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ItemReference/ ItemIdentification/ApplicationObjectKey/ID				ERP system generated Stock Item ID which is the Stock Item's unique identifier.

ERP Inventory Transaction Request EBO Message	WAM Service : W1-PurchaseReturnIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ ID-nventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryLocationReference/LocationIdentification/ ContextID-/SyncInventoryTransactionListEBM/ DataArea/SyncInventoryTransactionList/ ItemReference/ItemIdentification/ ApplicationObjectKey/ID	stockItemDetailExternalId	integrationDetails	Field	This is the ERP Storeroom ID or Stock Item Detail. This ID is a concatenation of: ERP's Inventory Organization Number, ERP's Subinventory Name and ERP's system's Stock Item unique identifier with a dash (-) delimiter in between. Example: 123-Sub1-987654321. This field is not always populated. If the purchase being returned is not a stock item, then this is left blank.
	stockItemDetailId	integrationDetails	Field	Not Mapped
	typeOfReturn			Possible WAM values are credit or exchange. Defaulted by Integration using property name <i>OUWAM.ReturnType</i> in the ConfigurationProperties file. Defaulted to the Credit value.
	typeOfAdjustment			Possible WAM values are Inventory (W1IN) or In Receipt (W1IR). Defaulted by Integration using property name <i>OUWAM.AdjustmentType</i> in the ConfigurationProperties file. Defaulted to In receipt value.
/SyncInventoryTransactionListEBM/DataArea/ SyncInventoryTransactionList/ InventoryTransactionLine/TransactionLineQuantity	quantity	integrationDetails	Field	
	assetInfo	integrationDetails	Group	Whole group not mapped
	assetGroup	assetInfo	Group	
	rejectionLocationId	assetGroup	Field	
	assetList	assetGroup	List	
	assetId	assetList	Field	
	lotInfo	integrationDetails	Group	Whole group not mapped
	lotGroup	lotInfo	Group	
	lotList	lotGroup	List	
	stockItemDetailExternalId	lotList	Field	

ERP Inventory Transaction Request EBO Message	WAM Service : W1-PurchaseReturnIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
	stockItemDetailId	lotList	Field		
	quantity	lotList	Field		

Purchase Return Response Mapping Details

WAM Purchase Return Response Message		ERP Inventory Transaction Response Message		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncInventoryTransactionListResponseEBM/DataArea/SyncInventoryTransactionListResponse/Identification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
comments	exceptionInformationList	Field	SyncInventoryTransactionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Stock Item Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Stock Item Request Mapping Details](#)
- [Stock Item Response Mapping Details](#)

Refer to the [Stock Item Synchronization Process](#) description for processing details on this integration point.

Stock Item Request Mapping Details

ERP Item Request EBO Message	WAM BO MESSAGE: W1-OngoingSyncRequestStockItem		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-SyncRequestInbound		Outermost Tag	
	syncRequestId	W1-SyncRequestInbound	Field	Not Mapped. This is a WAM system generated ID created internally in WAM on Add.
/SyncItemListEBM/DataArea/SyncItemList/ItemIdentification/BusinessComponentID	externalReferenceId	W1-SyncRequestInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncItemListEBM/DataArea/SyncItemList/ItemIdentification/ApplicationObjectKey/ID	externalPkValue1	W1-SyncRequestInbound	Field	ERP's unique system generated Item ID. The Item Table's unique identifier.
	externalSystem	W1-SyncRequestInbound	Field	Defaulted by Integration using property name <i>Ouwam.External.System</i> in the ConfigurationProperties file.
	targetMo	W1-SyncRequestInbound	Field	Defaulted by Integration using property name <i>Ouwam.StockItem.Target.MO</i> in the ConfigurationProperties file.
	initialLoad	W1-SyncRequestInbound	Field	Defaulted by Integration using property name <i>Ouwam.InitialLoad.Flag</i> in the ConfigurationProperties file.
	syncRequestDetails	W1-SyncRequestInbound		
	original	syncRequestDetails	Group	
	finalSnapshot	original	Group	
/SyncItemListEBM/DataArea/SyncItemList/ItemIdentification/ApplicationObjectKey/ID	resourceTypeExternalId	finalSnapshot	Field	ERP's unique system generated Item ID. The Item Table's unique identifier.
	resourceTypeId	finalSnapshot	Field	Not Mapped. This is a WAM system generated ID created internally in WAM on Add.

ERP Item Request EBO Message	WAM BO MESSAGE: W1-OngoingSyncRequestStockItem			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncItemListEBM/DataArea/SyncItemList/Status/Code	boStatus	finalSnapshot	Field	OUWAMERP_StockItemStatus	Stock Item Status. Use DVM to translate the ERP status to the equivalent WAM Status.
	resourceClass	finalSnapshot	Field		Not Mapped. Defaulted to Material in WAM on Add. WAM values: Craft, Material, Equipment and Others
/SyncItemListEBM/DataArea/SyncItemList/ShortDescription	description	finalSnapshot	Field		Item description
/SyncItemListEBM/DataArea/SyncItemList/Description	longDescription	finalSnapshot	Field		Item long description
/SyncItemListEBM/DataArea/SyncItemList/ItemIdentification/ID	stockItem	finalSnapshot	Field		ERP Item Number.
	inventoryExpenseCode	finalSnapshot	Field		Defaulted by Integration using property name <i>OUWAM.InventoryExpense.Code</i> in the ConfigurationProperties file. This has to be a valid Inventory Expense Code in WAM.
/SyncItemListEBM/DataArea/SyncItemList/ItemGLAccount/UsageCode	usageExpenseCode	finalSnapshot	Field	OUWAMERP_UsageExpenseCode	This is equivalent to the Natural Account in the ERP system.
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/ClassificationCode					If ERP pass commodityCategory, ERP should also pass this hard-coded value (COMCAT) to identify this entry is a commodityCategory
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/Identification/ID	commodityCategory	finalSnapshot	Field	OUWAMERP_CommodityCategory	This is optional. If a value is provided, integration uses DVM to translate the ERP value to the equivalent WAM value.
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/ClassificationCode					If ERP pass commodityName, ERP should also pass this hard-coded value (COMNAME) to identify this entry is a commodityName
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/Identification/ID	commodityName	finalSnapshot	Field	OUWAMERP_CommodityName	This is optional. If a value is provided, integration uses DVM to translate the ERP value to the equivalent WAM value.
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/ClassificationCode					If ERP pass commodityType, ERP should also pass this hard-coded value (COMTYPE) to identify this entry is a commodityType
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/Identification/ID	commodityType	finalSnapshot	Field	OUWAMERP_CommodityType	This is optional. If a value is provided, integration uses DVM to translate the ERP value to the equivalent WAM value.

ERP Item Request EBO Message	WAM BO MESSAGE: W1-OngoingSyncRequestStockItem			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/ClassificationCode					If ERP pass commodityComposition, ERP should also pass this hard-coded value (COMCOMP) to identify this entry is a commodityComposition
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/Identification/ID	commodityComposition	finalSnapshot	Field	OUWAMERP_ Commodity Composition	This is optional. If a value is provided, integration uses DVM to translate the ERP value to the equivalent WAM value.
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/ClassificationCode					If ERP pass commoditySize, ERP should also pass this hard-coded value (COMSIZE) to identify this entry is a commoditySize
/SyncItemListEBM/DataArea/SyncItemList/ItemClassification(#)/Identification/ID	commoditySize	finalSnapshot	Field		Pass a number to WAM.
/SyncItemListEBM/DataArea/SyncItemList/ItemPurchasingCharacteristics/AssetClassificationCode	stockCategory	finalSnapshot	Field	OUWAMERP_ Asset Classification Code	WAM values: Concretes, Electric Systems & Equipments, Mechanical Equipment, Surface Finishing
/SyncItemListEBM/DataArea/SyncItemList/ItemProcessManufacturingCharacteristics/HazardousIndicator	hazardous	finalSnapshot	Field	OUWAMERP_ HazardousFlag	WAM Values: Yes, No
/SyncItemListEBM/DataArea/SyncItemList/ItemPurchasingCharacteristics/HazardClassificationCode	hazardousType	finalSnapshot	Field	OUWAMERP_ HazardousType	
	lotManaged	finalSnapshot	Field		Not Mapped
/SyncItemListEBM/DataArea/SyncItemList/InventoryCharacteristics/ShelfLifeDuration	shelfLife	finalSnapshot	Field		Indicates the number of days from receipt after which the item lot expires
/SyncItemListEBM/DataArea/SyncItemList/ItemManufacturingCharacteristics/InventoryAssetIndicator	capitalSpare	finalSnapshot	Field	OUWAMERP_ InventoryAsset Flag	WAM Values: Yes, No
/SyncItemListEBM/DataArea/SyncItemList/ItemServiceCharacteristics/TrackInstanceIndicator	trackable	finalSnapshot	Field	OUWAMERP_ TrackIndicator Flag	WAM Values: Yes, No
/SyncItemListEBM/DataArea/SyncItemList/ItemPlanningCharacteristics/RepairProgram	repairable	finalSnapshot	Field	OUWAMERP_ RepairableFlag	WAM Values: Yes, No

ERP Item Request EBO Message	WAM BO MESSAGE: W1-OngoingSyncRequestStockItem			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncItemListEBM/DataArea/SyncItemList/ItemPurchasingCharacteristics/UnitListPrice/PerQuantity (attribute name = unitCode)	unitOfPurchase	finalSnapshot	Field	OUWAMERP_UOMCode	The unit of measure used for purchasing the item. Example, unit price of an item is \$1.50 each.
/SyncItemListEBM/DataArea/SyncItemList/ItemPurchasingCharacteristics/IssueUOMCode	unitOfIssue	finalSnapshot	Field	OUWAMERP_UOMCode	The unit of measure used to issue the item from inventory
	purchaseToIssueRatio	finalSnapshot	Field		Not Mapped. If nothing is passed, defaulted to 1 in WAM
	taxRateSchedule	finalSnapshot	Field		Not Mapped
	purchaseCommodity	finalSnapshot	Field		Not Mapped
/SyncItemListEBM/DataArea/SyncItemList/ItemPurchasingCharacteristics/ReceiptSubstitutionAllowedIndicator	doNotSubstitute	finalSnapshot	Field	OUWAMERP_ReceiptSubstitutionAllowedFlag.dvm	WAM Values: Yes, No
	truckStock	finalSnapshot	Field		Not Mapped
	acceptOnReceipt	finalSnapshot	Field		Not Mapped. Defaulted in WAM on Add
	defaultValueToActivity	finalSnapshot	Field		Not Mapped. Defaulted in WAM on Add
	addToBOM	finalSnapshot	Field		Not Mapped
	vendors	finalSnapshot	Group		
	vendorsList	vendors	List		
/SyncItemListEBM/DataArea/SyncItemList/ItemSupplier/ItemSupplierLocation/Identification/ApplicationObjectKey/ID	vendorLocationExternalId	vendorsList	Field		ERP Vendor Location ID or ERP Vendor Site ID. This is the Vendor Location Table's unique identifier.
	vendorLocationId	vendorsList	Field		
/SyncItemListEBM/DataArea/SyncItemList/ItemSupplier/ItemSupplierLocation/ItemSupplierLocationSpecificationGroup/SpecificationGroup/Specification/Identification/ID					Although this is not mapped to WAM, ERP can pass a value here like 'VendorPartNbr' to specify the field. (Optional)
/SyncItemListEBM/DataArea/SyncItemList/ItemSupplier/ItemSupplierLocation/ItemSupplierLocationSpecificationGroup/SpecificationGroup/Specification/Name					Although this is not mapped to WAM, ERP can pass the value description here like 'Vendor Part Number' to describe the field. (Optional)

ERP Item Request EBO Message	WAM BO MESSAGE: W1-OngoingSyncRequestStockItem			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncItemListEBM/DataArea/SyncItemList/ItemSupplier/ItemSupplierLocation/ItemSupplierLocationSpecificationGroup/SpecificationGroup/Specification/ValueText	vendorPartNumber	vendorsList	Field		
/SyncItemListEBM/DataArea/SyncItemList/ItemSupplier/ItemSupplierLocation/PriorityCode	vendorPriority	vendorsList	Field	OUWAMERP_VendoryLoc Priority	WAM Values: W1OT, W1PR
	alternativeStockItemsList	finalSnapshot	List		
	alternateStockItem	alternativeStockItemsList	Field		Not Mapped
	manufacturers	finalSnapshot	Group		
/SyncItemListEBM/DataArea/SyncItemList/ItemManufacturer	manufacturersList	manufacturers	List		
/SyncItemListEBM/DataArea/SyncItemList/ItemManufacturer/Identification/ID	manufacturerCode	manufacturersList	Field	OUWAMERP_Manufacturer	
	copyToPO	manufacturersList	Field		WAM Values: Yes, No. Flag to indicate if the manufacturer's information should be copied to the POs. Discussed this mapping with Steve on 02/15/2016. We can't find a field that match in the EBO, we think this field is more WAM specific. We decide to removed this mapping and default the field to W1NO in WAM on Add.
/SyncItemListEBM/DataArea/SyncItemList/ItemManufacturer/RelatedManufacturerItem/ManufacturerItemID	manufacturerPartNumber	manufacturersList	Field		
	bomId				Not Mapped

Stock Item Response Mapping Details

WAM Stock Item Sync Response Message		ERP Sync Item List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncItemListResponseEBM/DataArea/SyncItemListResponse/ItemIdentification/BusinessComponentID	ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncItemListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	//SyncItemListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.

WAM Stock Item Sync Response Message		ERP Sync Item List Response Message		Comments
Element Name	Parent Element	Type	Full Path	
comments	exceptionInformationList	Field	/SyncItemListResponseEBM/EBMHeader/FaultNotification/ FaultMessage/Text	Error comments or error message
messageParameters	exceptionInformationList	List		
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Storeroom Item (Stock Item Detail) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Storeroom Item \(Stock Item Detail\) Request Mapping Details](#)
- [Storeroom Item \(Stock Item Detail\) Response Mapping Details](#)

Refer to the [Storeroom Item \(Stock Item Detail\) Synchronization Process](#) description for processing details on this integration point.

Storeroom Item (Stock Item Detail) Request Mapping Details

ERP Item Request EBO Message	WAM BO MESSAGE: W1-SIDIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	W1-SyncRequestInbound		Outermost Tag	
	syncRequestId	W1-SyncRequestInbound	Field	Not Mapped. This is a WAM system generated ID created internally in WAM on Add.
/SyncItemListEBM/DataArea/SyncItemList/ItemIdentification/BusinessComponentID	externalReferenceId	W1-SyncRequestInbound	Field	ERP Sync Request ID. This is a unique ID sent as part of the request message by the external system (ERP) initiating the sync request. This ID is used by the external system to tie together the response coming back to ERP from WAM.
/SyncItemListEBM/DataArea/SyncItemList/InventoryLocation/LocationReference/LocationIdentification/ID				The ERP system organization number. Example: In EBS, it is a unique 3 character organization number
/SyncItemListEBM/DataArea/SyncItemList/InventoryLocation/LocationReference/LocationIdentification/ContextID				The ERP system subinventory name or subinventory ID
/SyncItemListEBM/DataArea/SyncItemList/InventoryLocation/LocationReference/LocationIdentification/ID- /SyncItemListEBM/DataArea/SyncItemList/InventoryLocation/LocationReference/LocationIdentification/ContextID- /SyncItemListEBM/DataArea/SyncItemList/ItemIdentification/ApplicationObjectKey/ID	externalPkValue1	W1-SyncRequestInbound	Field	Concatenation of ERP's Inventory Organization Number, ERP's Subinventory Name and the ERP system's Item system generated ID with a dash (-) delimiter in between. Example: 123-Sub1-987654321
	externalSystem	W1-SyncRequestInbound	Field	Defaulted by Integration using property name <i>OUWAM.External.System</i> in the ConfigurationProperties file.

ERP Item Request EBO Message	WAM BO MESSAGE: W1-SIDIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
	targetMo	W1-SyncRequestInbound	Field	Defaulted by Integration using property name <i>OUWAM.StoreroomItem.Target.MO</i> in the ConfigurationProperties file.
	initialLoad	W1-SyncRequestInbound	Field	Defaulted by Integration using property name <i>OUWAM.InitialLoad.Flag</i> in the ConfigurationProperties file.
	syncRequestDetails	W1-SyncRequestInbound		
	original	syncRequestDetails	Group	
	finalSnapshot	original	Group	
/SyncItemListEBM/DataArea/SyncItemList/InventoryLocation/LocationReference/LocationIdentification/ID- /SyncItemListEBM/DataArea/SyncItemList/InventoryLocation/LocationReference/LocationIdentification/ContextID- /SyncItemListEBM/DataArea/SyncItemList/ItemIdentification/ApplicationObjectKey/ID	stockItemDetailExternalId			Same value as externalPKValue1. This is the ERP Storeroom ID or Stock Item Detail. This ID is a concatenation of: <ul style="list-style-type: none"> ERP's Inventory Organization Number ERP's Subinventory Name ERP's Item system generated ID with a dash (-) delimiter in between. <p>Example: 123-Sub1-987654321</p>
	stockItemDetailId	finalSnapshot	Field	Not Mapped. This is a WAM system generated ID created internally in WAM on Add.
/SyncItemListEBM/DataArea/SyncItemList/Status/Code	boStatus	finalSnapshot	Field	OUWAMERP_StoreroomItemStatus
/SyncItemListEBM/DataArea/SyncItemList/ItemIdentification/ApplicationObjectKey/ID	resourceTypeExternalId	finalSnapshot	Field	ERP system generated Item ID which is the Item Table's unique identifier.
	resourceTypeId			Not Mapped.
/SyncItemListEBM/DataArea/SyncItemList/InventoryLocation/LocationReference/LocationIdentification/ID, /SyncItemListEBM/DataArea/SyncItemList/InventoryLocation/LocationReference/LocationIdentification/ContextID	nodeExternalId	finalSnapshot	Field	Concatenation of ERP's Inventory Organization Number and the ERP system's Subinventory Namewith a dash (-) delimiter in between. <p>Example: 123-Sub1</p>
	nodeId	finalSnapshot	Field	

ERP Item Request EBO Message	WAM BO MESSAGE: W1-SIDIntegInbound			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncItemListEBM/DataArea/SyncItemList/ PrimaryClassificationCode	stockItemDetailClass	finalSnapshot	Field	OUWAMERP_StockItem ClassificationCode	WAM Values: W1DP, W1ER, W1IL, W1IN, W1IT, W1SD, W1SL
	masterStockItemDetailId	finalSnapshot	Field		Not Mapped
	activityResourceRequirementId	finalSnapshot	Field		Not Mapped
	lotId	finalSnapshot	Field		Not Mapped
	expirationDate	finalSnapshot	Field		Not Mapped
	vendorExpirationDate	finalSnapshot	Field		Not Mapped
	deliveryDate	finalSnapshot	Field		Not Mapped
	cureDate	finalSnapshot	Field		Not Mapped
	costCenter	finalSnapshot	Field		Not Mapped
/SyncItemListEBM/DataArea/SyncItemList/ ItemGLAccount/GLAccount/GLElement(1)/ GLElement	segment1	finalSnapshot	Field		ERP Segment 1
/SyncItemListEBM/DataArea/SyncItemList/ ItemGLAccount/GLAccount/GLElement(2)/ GLElement	segment2	finalSnapshot	Field		ERP Segment 2
/SyncItemListEBM/DataArea/SyncItemList/ ItemGLAccount/GLAccount/GLElement(3)/ GLElement	segment3	finalSnapshot	Field		ERP Segment 3
/SyncItemListEBM/DataArea/SyncItemList/ ItemGLAccount/GLAccount/GLElement(4)/ GLElement	segment4	finalSnapshot	Field		ERP Segment 4
/SyncItemListEBM/DataArea/SyncItemList/ ItemGLAccount/GLAccount/GLElement(5)/ GLElement	segment5	finalSnapshot	Field		ERP Segment 5
/SyncItemListEBM/DataArea/SyncItemList/ ItemGLAccount/GLAccount/GLElement(6)/ GLElement	segment6	finalSnapshot	Field		ERP Segment 6
/SyncItemListEBM/DataArea/SyncItemList/ ItemGLAccount/GLAccount/GLElement(7)/ GLElement	segment7	finalSnapshot	Field		ERP Segment 7

ERP Item Request EBO Message	WAM BO MESSAGE: W1-SIDIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncItemListEBM/DataArea/SyncItemList/ItemGLAccount/GLAccount/GLElement(8)/GLElement	segment8	finalSnapshot	Field	ERP Segment 8
/SyncItemListEBM/DataArea/SyncItemList/ItemGLAccount/GLAccount/GLElement(9)/GLElement	segment9	finalSnapshot	Field	ERP Segment 9
/SyncItemListEBM/DataArea/SyncItemList/ItemGLAccount/GLAccount/GLElement(10)/GLElement	segment10	finalSnapshot	Field	ERP Segment 10
	buyer	finalSnapshot	Field	Not Mapped
/SyncItemListEBM/DataArea/SyncItemList/ItemPurchasingCharacteristics/UnitListPrice/PerQuantity	unitOfPurchase	finalSnapshot	Field	OUWAMERP_UOMCode The unit of measure used for purchasing the item. Example, unit price of an item is \$1.50 each.
/SyncItemListEBM/DataArea/SyncItemList/ItemPurchasingCharacteristics/IssueUOMCode	unitOfIssue	finalSnapshot	Field	OUWAMERP_UOMCode The unit of measure used to issue the item from inventory
	purchaseToIssueRatio	finalSnapshot	Field	Not Mapped
	taxRateSchedule	finalSnapshot	Field	Not Mapped
/SyncItemListEBM/DataArea/SyncItemList/ItemPlanningCharacteristics/ReorderCharacteristics/MaximumReorderQuantity	maxQty	finalSnapshot	Field	Max Quantity in the bin. Maximum quantity allowed for replenishment reorder of the item.
/SyncItemListEBM/DataArea/SyncItemList/ItemPlanningCharacteristics/ReorderCharacteristics/MinimumInventoryQuantity	minQty	finalSnapshot	Field	Min quantity allowed before reordering occur or reorder quantity.
	safetyStockQty	finalSnapshot	Field	WAM Values: Yes, No
	reorderPoint	finalSnapshot	Field	
	reorderQty	finalSnapshot	Field	Not Mapped
	autoReorder	finalSnapshot	Field	WAM Values: Yes, No
	abcClass	finalSnapshot	Field	Not Mapped

ERP Item Request EBO Message	WAM BO MESSAGE: W1-SIDIntegInbound		DVM Mapping		Comments
Full Path	Element Name	Parent Element	Type		
ItemPlanningCharacteristics/ ProcessingLeadTimeCharacteristics/ PreprocessingDuration	leadTime	finalSnapshot	Field		Lead time to order in days. Number of days to added to the purchasing lead time to place an order.
	sourceCode	finalSnapshot	Field		Not Mapped
	defaultUnitPrice	finalSnapshot	Field		Not Mapped
	priceToUse	finalSnapshot	Field		Not Mapped
	markup	finalSnapshot	Field		Not Mapped
	vendors	finalSnapshot	Group		
	vendorsList	vendors	List		
/SyncItemListEBM/DataArea/SyncItemList/ ItemSupplier/ItemSupplierLocation/Identification/ ApplicationObjectKey/ID	vendorLocationExternalId	vendorsList	Field		ERP Vendor Location ID or ERP Vendor Site ID. This is the Vendor Location Table's unique identifier.
	vendorLocationId	vendorsList	Field		
/SyncItemListEBM/DataArea/SyncItemList/ ItemSupplier/ItemSupplierLocation/ ItemSupplierLocationSpecificationGroup/ SpecificationGroup/Specification/Identification/ID					Although this is not mapped to WAM, ERP can pass a value here like 'VendorPartNbr' to specify the field. (Optional)
/SyncItemListEBM/DataArea/SyncItemList/ ItemSupplier/ItemSupplierLocation/ ItemSupplierLocationSpecificationGroup/ SpecificationGroup/Specification/Name					Although this is not mapped to WAM, ERP can pass the value description here like 'Vendor Part Number' to describe the field. (Optional)
/SyncItemListEBM/DataArea/SyncItemList/ ItemSupplier/ItemSupplierLocation/ ItemSupplierLocationSpecificationGroup/ SpecificationGroup/Specification/ValueText	vendorPartNumber	vendorsList	Field		
/SyncItemListEBM/DataArea/SyncItemList/ ItemSupplier/ItemSupplierLocation/PriorityCode	vendorPriority	vendorsList	Field	OuwAMERP_ VendoryPriority	WAM Values: W1OT, W1PR. Reuse existing DVM.
	bins	finalSnapshot			Optional Mapping
	binList	bins	List		
	sequence	binList	Field		Not mapped

ERP Item Request EBO Message	WAM BO MESSAGE: W1-SIDIntegInbound		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncItemListEBM/DataArea/SyncItemList/ InventoryLocation/Identification/ID	bin	binList	Field	
/SyncItemListEBM/DataArea/SyncItemList/ InventoryLocation/UsageCode	binType	binList	Field	OUWAMERP_BinType WAM Values: W1OT, W1PR

Storeroom Item (Stock Item Detail) Response Mapping Details

WAM Storeroom Item (Stock Item Detail) Sync Response Message			ERP Sync Item List Response Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
sendDetails		Outermost Tag			
externalReferenceId	sendDetails	Field	/SyncItemListResponseEBM/DataArea/ SyncItemListResponse/ItemIdentification/ BusinessComponentID		ERP Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceId, which is the ERP Sync Request ID.
externalIds	sendDetails	Group			
entityIdList	externalIds	List			
entity	entityIdList				
externalPkValue1	entityIdList	Field			
externalPkValue2	entityIdList	Field			
externalPkValue3	entityIdList	Field			
externalPkValue4	entityIdList	Field			
externalPkValue5	entityIdList	Field			
exceptionInformation	sendDetails	Group			When WAM encounters an error while processing the request, it sends back the externalReferenceId and the exceptionInformation.
exceptionInformationList	exceptionInformation	List			
sequence	exceptionInformationList	Field			
messageCategory	exceptionInformationList	Field	/SyncItemListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Code		Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	//SyncItemListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Code		Fault Notification/FaultMessage/Code will contain a concatenation of the WAM Message Category and Message Number.

WAM Storeroom Item (Stock Item Detail) Sync Response Message			ERP Sync Item List Response Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
comments	exceptionInformationList	Field	/SyncItemListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Text		Error comments or error message
messageParameters	exceptionInformationList	List			
parameterSequence	messageParameters	Field			
messageParameterType	messageParameters	Field			
messageParameterValue	messageParameters	Field			

Supplier Party (Vendor/Vendor Location) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Supplier Party Request Mapping Details \(ERP to WAM\)](#)
- [Supplier Party Response Mapping Details \(ERP to WAM\)](#)

Refer to the [Supplier Party \(Vendor/Vendor Location\) Synchronization Process \(ERP to WAM\)](#) description for processing details on this integration point.

Supplier Party Request Mapping Details (ERP to WAM)

ERP System (Supplier Party Request EBO Message)	WAM (W1-OngoingSyncRequestVendorLoc Business Object Message)			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
	W1-SyncRequestInbound		Outermost Tag		
	syncRequestId	W1-SyncRequestInbound	Field		Not Mapped. Created internally in WAM on add
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/Identification/ BusinessComponentID	externalReferenceId	W1-SyncRequestInbound	Field		ERP System Sync Request ID: This is a unique ID sent as part of the request message by the external system (ERP system) initiating the sync request. This ID is used by the external system to tie together the response coming back to the ERP system from WAM.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ Identification/ApplicationObjectKey/ID	externalPkValue1	W1-SyncRequestInbound	Field		ERP System Vendor Location ID or ERP System Vendor Site ID: The unique Vendor Location Table prime key.
	externalSystem	W1-SyncRequestInbound	Field		Defaulted by the integration using the property name OUWAM.External.System in the ConfigurationProperties file.
	targetMo	W1-SyncRequestInbound	Field		Defaulted by the integration using the property name OUWAM.VendorLoc.Target.MO in the ConfigurationProperties file.
	initialLoad	W1-SyncRequestInbound	Field		Defaulted by the integration using property name OUWAM.InitialLoad.Flag in the ConfigurationProperties file.
	syncRequestDetails	W1-SyncRequestInbound			
	original	syncRequestDetails	Group		
	finalSnapshot	original	Group		

ERP System (Supplier Party Request EBO Message)	WAM (W1-OngoingSyncRequestVendorLoc Business Object Message)	DVM Mapping		Comments	
Full Path	Element Name	Parent Element	Type		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/Identification/ ApplicationObjectKey/ID	vendorExternalId	finalSnapshot	Field	ERP System Vendor Location ID or ERP System Vendor Site ID: The unique Vendor Location Table prime key.	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/Identification/ID	vendor	finalSnapshot	Field	Vendor number or vendor code.	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/Organization/Name	vendorName	finalSnapshot	Field	Vendor name.	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference /LocationIdentification/ ApplicationObjectKey/ID	externalId	finalSnapshot	Field	ERP system vendor location ID or ERP system vendor site ID.	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Name	locationName	finalSnapshot	Field	Vendor location name	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ SupplierPartyTradingLocationProfile/ Status/Code	boStatus	finalSnapshot	Field	OuwamERP_ SupplierPartyLocStatus	Vendor Location Status: Use DVM to translate the ERP system status to the equivalent WAM status. WAM statuses include Under Review, Active, Inactive.
	creationDateTime	finalSnapshot	Field	Not Mapped. Created internally in WAM on add.	
	organization	finalSnapshot	Field	Not mapped. The organization is used to restrict access to certain records according to groups of users.	
	addressInformation	finalSnapshot	Group	Vendor location address information.	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/LineOne	address1	addressInformation	Field		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/LineTwo	address2	addressInformation	Field		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/LineThree	address3	addressInformation	Field		

ERP System (Supplier Party Request EBO Message)	WAM (W1-OngoingSyncRequestVendorLoc Business Object Message)	DVM Mapping		Comments	
Full Path	Element Name	Parent Element	Type		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/LineFour	address4	addressInformation	Field		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/CityName	city	addressInformation	Field		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/StateName	state	addressInformation	Field	OuwamERP_State	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/CountyName	county	addressInformation	Field		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/CountryName	country	addressInformation	Field	OuwamERP_ Country	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/ LocationReference/Address/PostalCode	postal	addressInformation	Field		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ SupplierPartyTradingLocationProfile/ PurchasingEnabledIndicator	orderFromFlag	finalSnapshot	Field	OuwamERP_ PurchasingEnabledFlag	Indicates whether purchasing from this Supplier/Vendor location is allowed. Use DVM to translate the ERP system Purchase Enabled Flag to the WAM Order From Flag. WAM values include Allowed/NotAllowed.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ SupplierPartyTradingLocationProfile/ PaymentRemittanceAllowedIndicator	payToFlag	finalSnapshot	Field	OuwamERP_ PmntRemittance AllowedFlag	Indicates whether Supplier/Vendor Location handles billing and payments. Use DVM to translate the ERP system Payment Remittance Allowed Flag to the WAM Pay To Flag. WAM values include Allowed/NotAllowed.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ SupplierPartyTradingLocationProfile/ TradingLocationProfileAlternateUsage/ BillToLocationReference/ LocationIdentification/ ApplicationObjectKey/ID	payToLocation	finalSnapshot	Field		If payToFlag is 'Not Allowed', payToLocation must be populated. A Bill To Location or Pay to Location on a procurement identifies the location where the invoice is to be sent. This value must be a valid ERP system Vendor Location ID that has already been synced to WAM.

Supplier Party Request Mapping Details (ERP to WAM)

ERP System (Supplier Party Request EBO Message)	WAM (W1-OngoingSyncRequestVendorLoc Business Object Message)			DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type		
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ SupplierPartyTradingLocationProfile/ InvoiceCurrencyCode	currency	finalSnapshot	Field		Currency that the vendor location uses.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ SupplierPartyTradingLocationProfile/ PaymentTerm/Code	paymentTerm	finalSnapshot	Field	OuwamERP_ PaymentTerm	Indicates the payment term code. Use DVM to translate the ERP system Payment Term Code to the WAM Payment Term Code.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ SupplierPartyTradingLocationProfile/ FOBPointCode	fob	finalSnapshot	Field	OuwamERP_FOB	Indicates the Free on Board (FOB) Code which identifies the delivery charge terms negotiated for the PO. Use DVM to translate the ERP system FOB Code to the WAM FOB Code.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ MinimumOrderAmount	minimumOrderAmount	finalSnapshot	Field		Minimum purchase order amount.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/ SupplierPartyTradingLocationProfile/ PaymentMethodCode	autoPayFlag	finalSnapshot	Field	OuwamERP_ AutoPayFlag	In WAM, this is the auto invoice indicator. Use DVM to translate the ERP system Payment Method Code to the WAM Auto Pay Flag. WAM values include Authorize/Not Authorize.
	payTaxToVendor	finalSnapshot	Field		Not mapped. Indicates whether to pay sales tax to the vendor location or not.
	carrierFlag	finalSnapshot	Field		Not mapped. Indicates whether to pay sales tax to the vendor location or not.
	carrierLocationId	finalSnapshot	Field		Not mapped
	insuranceExpirationDate	finalSnapshot	Field		Not mapped
	emailPOFlag	finalSnapshot	Field		Indicates whether the PO can be emailed to the supplier/ vendor. If the ERP system provides an email address, the integration sets the flag to Allowed. Else, it is set to Not Allowed. WAM values include Allowed/NotAllowed.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/ Contact/ContactEmailCommunication/ EmailCommunication/URI	poEmailAddress	finalSnapshot	Field		Email address of the contact person.
	mainContact	finalSnapshot	Group		Vendor location's main contact person.

ERP System (Supplier Party Request EBO Message)	WAM (W1-OngoingSyncRequestVendorLoc Business Object Message)		DVM Mapping	Comments
Full Path	Element Name	Parent Element	Type	
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/ Contact/Identification/ ApplicationObjectKey/ID	contactExternalId	mainContact	Field	ERP system contact ID.
	contactType	mainContact	Field	WAM populates on add. Created internally in WAM.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/ Contact/PersonName/FirstName	firstName	mainContact	Field	Contact first name.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/ Contact/PersonName/FamilyName	lastName	mainContact	Field	Contact last name
	mainContactPhone	finalSnapshot	Group	Vendor location's phone information.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/ Contact/ContactPhoneCommunication/ PhoneCommunication/TypeCode	phoneType	mainContactPhone	Field	OuwamERP_ PhoneType Phone Type: Whether it is the primary or business phone, mobile, fax, etc.
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/ Contact/ContactPhoneCommunication/ PhoneCommunication/CountryCode	countryCode	mainContactPhone	Field	Phone country code
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/ Contact/ContactPhoneCommunication/ PhoneCommunication/AreaCode	areaCode	mainContactPhone	Field	Phone area code
/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/ Contact/ContactPhoneCommunication/ PhoneCommunication/LocalNumber	phoneNumber	mainContactPhone	Field	Phone number

Supplier Party Response Mapping Details (ERP to WAM)

WAM Vendor Location Sync Response Message			ERP Sync SupplierParty List Response Message	Comments
Element Name	Parent Element	Type		
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncSupplierPartyListResponseEBM/DataArea/ SyncSupplierPartyListResponse/Identification/BusinessComponentID	ERP System Sync Request ID: The unique ID sent as part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceID, which is the ERP System Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceID and the exceptionInformation.
exceptionInformationList	exception Information	List		
sequence	exception InformationList	Field		
messageCategory	exception InformationList	Field	/SyncSupplierPartyListResponseEBM/EBMHeader/FaultNotification/ FaultMessage/Code	Fault Notification/FaultMessage/Code contains a concatenation of the WAM Message Category and Message Number.
messageNumber	exception InformationList	Field	/SyncSupplierPartyListResponseEBM/EBMHeader/FaultNotification/ FaultMessage/Code	Fault Notification/FaultMessage/Code contains a concatenation of the WAM Message Category and Message Number.
comments	exception InformationList	Field	SyncSupplierPartyListResponseEBM/EBMHeader/FaultNotification/ FaultMessage/Text	Error comments or error message
messageParameters	exception InformationList	List		

WAM Vendor Location Sync Response Message		ERP Sync SupplierParty List Response Message	Comments
Element Name	Parent Element	Type	
parameterSequence	message Parameters	Field	
messageParameterType	message Parameters	Field	
messageParameterValue	message Parameters	Field	

Worker (Employee) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Worker \(Employee\) Request Mapping Details](#)
- [Worker \(Employee\) Response Mapping Details](#)

Refer to the [Worker \(Employee\) Synchronization Process](#) description for processing details on this integration point.

Worker (Employee) Request Mapping Details

ERP System (Worker Request EBO Message)	WAM (W1-OngoingSyncRequestEmployee Business Object Message)	DVM Mapping		Comments
Full Path	Element Name	Parent Element	Type	
	W1-SyncRequestInbound		Outermost Tag	
	syncRequestId	W1-SyncRequestInbound	Field	Not Mapped. Created internally in WAM on add.
/SyncWorkerListEBM/DataArea/SyncWorkerList/Identification/BusinessComponentID	externalReferenceId	W1-SyncRequestInbound	Field	ERP System Sync Request ID: This is a unique ID sent as a part of the request message by the external system (ERP system) initiating the sync request. This ID is used by the external system to tie together the response coming back to the ERP system from WAM.
/SyncWorkerListEBM/DataArea/SyncWorkerList/Identification/ApplicationObjectKey/ID	externalPkValue1	W1-SyncRequestInbound	Field	ERP System Employee ID or ERP System Person ID: This is the unique employee table prime key.
	externalSystem	W1-SyncRequestInbound	Field	Defaulted by the integration using the property name Ouwam.External.System in the ConfigurationProperties file.
	targetMo	W1-SyncRequestInbound	Field	Defaulted by the integration using the property name Ouwam.Employee.Target.MO in the ConfigurationProperties file.
	initialLoad	W1-SyncRequestInbound	Field	Defaulted by the integration using the property name Ouwam.InitialLoad.Flag in the ConfigurationProperties file.
	syncRequestDetails	W1-SyncRequestInbound	Group	
	original	syncRequestDetails	Group	
	finalSnapshot	original	Group	

ERP System (Worker Request EBO Message)	WAM (W1-OngoingSyncRequestEmployee Business Object Message)	DVM Mapping		Comments
Full Path	Element Name	Parent Element	Type	
/SyncWorkerListEBM/DataArea/SyncWorkerList/Identification/ApplicationObjectKey/ID	externalId	finalSnapshot	Field	ERP System Employee ID or ERP System Person ID: This is the unique employee table prime key.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/Identification/ID	hrEmployeeNumber	finalSnapshot	Field	The employee number in ERP system.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/TypeCode	employeeType	finalSnapshot	Field	OuwAMERP_WorkerType Employee Type: Use DVM to translate the ERP system employee type to the equivalent WAM employee type.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/DepartmentReference/OrganizationUnitIdentification/ID	businessUnit	finalSnapshot	Field	OuwAMERP_OrganizationUnitID The business unit to which an employee belongs. It defines the employee's payroll cost center and how their labor cost is determined during work planning (either through their billable rate or through their craft rate). Use DVM to translate the ERP system HR/Project Organization to the equivalent WAM business unit.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/Status/Code	boStatus	finalSnapshot	Field	OuwAMERP_WorkerStatus Employee Status: Use DVM to translate the ERP system status to the equivalent WAM Status. WAM Statuses include Active and Inactive.
	creationUser	finalSnapshot	Field	WAM Creation User is the User ID that creates the employee in WAM. Defaulted by the integration using the property name OuwAM.Integration.User in the ConfigurationProperties file. This User ID must be a valid User ID in WAM.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/EmploymentAssignmentSupervision/RoleCode	supervisor	finalSnapshot	Field	Employee's Supervisor: The Supervisor Employee Number. This value must be a valid ERP system Employee ID or Person ID that has already been synced to WAM.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/OriginalHireDate	hiredDate	finalSnapshot	Field	Employee's hire date or start date.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/BillingJobTitle	jobTitle	finalSnapshot	Field	Employee's job title or position.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/Identification/ApplicationObjectKey/ID	jobCode	finalSnapshot	Field	OuwAMERP_JobCode Employee's Job Code: Use DVM to translate the ERP system Job Code to the WAM Job Code.

ERP System (Worker Request EBO Message)	WAM (W1-OngoingSyncRequestEmployee Business Object Message)	DVM Mapping		Comments	
Full Path	Element Name	Parent Element	Type		
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/Identification/ApplicationObjectKey/ID	principalCraft	finalSnapshot	Field	OUWAMERP_ JobCode	The craft code is used in work planning. Each employee is assigned a principal craft for work scheduling purposes. Use DVM to translate the ERP system Job Code to the WAM Principal Craft Code.
/SyncWorkerListEBM/DataArea/SyncWorkerList/Person/PersonName/PersonName/FirstName	firstName	finalSnapshot	Field		Employee's first name.
/SyncWorkerListEBM/DataArea/SyncWorkerList/Person/PersonName/PersonName/FamilyName	lastName	finalSnapshot	Field		Employee's family name or last name.
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/TerminationDate	terminatedDate	finalSnapshot	Field		Employee's termination date.
	addressInformation	finalSnapshot	Group		Employee's address information
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/LineOne	address1	addressInformation	Field		
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/LineTwo	address2	addressInformation	Field		
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/LineThree	address3	addressInformation	Field		
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/LineFour	address4	addressInformation	Field		
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/CityName	city	addressInformation	Field		
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/StateName	state	addressInformation	Field	OUWAMERP_State	

ERP System (Worker Request EBO Message)	WAM (W1-OngoingSyncRequestEmployee Business Object Message)	DVM Mapping	Comments	
Full Path	Element Name	Parent Element	Type	
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/CountyName	county	addressInformation	Field	
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/CountryCode	country	addressInformation	Field	OUWAMERP_Country
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerEmployment/EmploymentTerm/EmploymentAssignment/LocationReference/Address/PostalCode	postal	addressInformation	Field	
	organization	finalSnapshot	Field	Not mapped. The organization is used to restrict access to certain records according to groups of users.
	phoneNumbers		Group	Employee's phone information.
	phoneNumbersList		List	
/SyncWorkerListEBM/DataArea/SyncWorkerList/Person/PersonPhoneCommunication/PhoneCommunication/TypeCode	phoneType	phoneNumbersList	Field	OUWAMERP_PhoneType Phone type whether it is the home phone, mobile, fax, etc.
/SyncWorkerListEBM/DataArea/SyncWorkerList/Person/PersonPhoneCommunication/PhoneCommunication/CountryCode	countryCode	phoneNumbersList	Field	
/SyncWorkerListEBM/DataArea/SyncWorkerList/Person/PersonPhoneCommunication/PhoneCommunication/AreaCode	areaCode	phoneNumbersList	Field	
/SyncWorkerListEBM/DataArea/SyncWorkerList/Person/PersonPhoneCommunication/PhoneCommunication/LocalNumber	phoneNumber	phoneNumbersList	Field	
	employeeTrainingInformation	finalSnapshot	Group	
	employeeTrainingInformationList	employeeTrainingInformation	List	
/SyncWorkerListEBM/DataArea/SyncWorkerList/WorkerCourseAttendance/CourseTitle	course	employeeTrainingInformationList	Field	The list of the titles of the training courses attended by an employee.

Worker (Employee) Response Mapping Details

WAM (Employee Sync Response Message)		ERP (Sync Worker List Response Message)		Comments
Element Name	Parent Element	Type	Full Path	
Element Name	Parent Element	Type		
sendDetails		Outermost Tag		
externalReferenceId	sendDetails	Field	/SyncWorkerListResponseEBM/DataArea/SyncWorkerListResponse/Identification/BusinessComponentID	ERP System Sync Request ID: The unique ID sent as a part of the response message to tie it together to the request. When WAM processes the request successfully, it only sends back the externalReferenceID, which is the ERP System Sync Request ID.
externalIds	sendDetails	Group		
entityIdList	externalIds	List		
entity	entityIdList			
externalPkValue1	entityIdList	Field		
externalPkValue2	entityIdList	Field		
externalPkValue3	entityIdList	Field		
externalPkValue4	entityIdList	Field		
externalPkValue5	entityIdList	Field		
exceptionInformation	sendDetails	Group		When WAM encounters an error while processing the request, it sends back the externalReferenceID and the exceptionInformation.
exceptionInformationList	exceptionInformation	List		
sequence	exceptionInformationList	Field		
messageCategory	exceptionInformationList	Field	/SyncWorkerListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code contains a concatenation of the WAM Message Category and Message Number.
messageNumber	exceptionInformationList	Field	/SyncWorkerListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Code	Fault Notification/FaultMessage/Code contains a concatenation of the WAM Message Category and Message Number.
comments	exceptionInformationList	Field	/SyncWorkerListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	Error comments or error message.
messageParameters	exceptionInformationList	List		

WAM (Employee Sync Response Message)		ERP (Sync Worker List Response Message)		Comments
Element Name	Parent Element	Type	Full Path	
parameterSequence	messageParameters	Field		
messageParameterType	messageParameters	Field		
messageParameterValue	messageParameters	Field		

Oracle Utilities Work and Asset Management Initiated Processes

GL Transaction (Accounting Entry) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [GL Transaction \(Accounting Entry\) Request EBO Message Mapping Details \(WAM to ERP\)](#)
- [GL Transaction \(Accounting Entry\) Response Mapping Details \(WAM to ERP\)](#)

Refer to the [GL Transaction \(Accounting Entry\) Synchronization Process \(WAM to ERP\)](#) description for processing details on this integration point.

GL Transaction (Accounting Entry) Request EBO Message Mapping Details (WAM to ERP)

Oracle Utilities Work and Asset Management Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegOutbound)		ERP Accounting Entry Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path	
sendDetails		Outermost Tag		
syncRequestId	sendDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/Identification/ID	WAM Sync Request ID: This is a unique ID sent as part of the request message by the external system (WAM). This ID can be used by the external system to tie together the response coming back from ERP, if a response message is needed. Currently, no response message is required or expected.
integrationDetails	sendDetails	Group		
financialTransactionType	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/TypeCode	OuwamERP_AccountingEntryType Indicates the type of accounting entry. WAM Values: Regular or Tax. Use DVM to translate the ERP system financial transaction type to the equivalent WAM Accounting Entry Type.
financialTransactionId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/Identification/ApplicationObjectKey/ID	WAM Financial Transaction (FT) ID. This can be stored in ERP to cross reference the WAM ID, if needed.
createdBy	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/AuditHistory/CreatedBy	WAM user ID that created the FT.

Oracle Utilities Work and Asset Management Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegOutbound)		ERP Accounting Entry Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path	
createDateTime	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/AuditHistory/CreatedDateTime	Creation date and time of the FT.
currency	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/CurrencyExchange/SourceCurrencyCode	OUWAMERP_Currency The currency of the FT.
accountingDate	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/AccountingDate	The date on which the FT occurred.
activityId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/AlternateObjectKey/ID	This IDentifies on which the WAM activity ID or the project, the charge is being used for.
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/AlternateObjectKey/ContextID	If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.ActivityID.Code in the ConfigurationProperties file.
timesheetDetailId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/ID	This IDentifies the charge ID. For example: Timehseet ID, Direct Charges ID, Materials Issued ID, etc. WAM only passes one ID per request message. The integration maps the one passed from WAM and sets the appropriate code value.
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/BusinessComponentID	If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.TimesheetDetailID.Codein the ConfigurationProperties file.
otherDirectChargesId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/ID	This IDentifies the charge ID. Example: Timehseet ID, Direct Charges ID, Inventory Count Line ID, Accept Line ID, Materials Issued ID, etc. WAM only passes one ID per request message. The integration maps the one passed from WAM and sets the appropriate code value.

Oracle Utilities Work and Asset Management Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegOutbound)			ERP Accounting Entry Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/BusinessComponentID		If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.OtherDirectChargesID.Code in the ConfigurationProperties file.
inventoryCountLineId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/ID		This IDentifies the charge ID. Example: Timehseet ID, Direct Charges ID, Inventory Count Line ID, Accept Line ID, Materials Issued ID, etc. WAM only passes one ID per request message. The integration maps the one passed from WAM and sets the appropriate code value.
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/BusinessComponentID		If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.InventoryCountLineID.Code in the ConfigurationProperties file.
acceptLineId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/ID		This IDentifies the charge ID. Example: Timehseet ID, Direct Charges ID, Inventory Count Line ID, Accept Line ID, Materials Issued ID, etc. WAM only passes one ID per request message. The integration maps the one passed from WAM and sets the appropriate code value.
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/BusinessComponentID		If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.AcceptLineId.Code in the ConfigurationProperties file.
materialIssueLineId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/ID		This IDentifies the charge ID. Example: Timehseet ID, Direct Charges ID, Inventory Count Line ID, Accept Line ID, Materials Issued ID, etc. WAM only passes one ID per request message. The integration maps the one passed from WAM and sets the appropriate code value.

Oracle Utilities Work and Asset Management Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegOutbound)			ERP Accounting Entry Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/BusinessComponentID		If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.MaterialIssueLineID.Code in the ConfigurationProperties file.
materialReturnLineId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/ID		This IDentifies the charge ID. Example: Timehseet ID, Direct Charges ID, Materials Issued ID, etc. WAM only passes one ID per request message. The integration maps the one passed from WAM and sets the appropriate code value.
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/BusinessComponentID		If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.MaterialReturnLineID.Code in the ConfigurationProperties file.
returnId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/ID		This IDentifies the charge ID. Example: Timehseet ID, Direct Charges ID, Materials Issued ID, etc. WAM only passes one ID per request message. The integration maps the one passed from WAM and sets the appropriate code value.
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/BusinessComponentID		If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.ReturnID.Code in the ConfigurationProperties file.
inventoryAdjustmentId	integrationDetails	Field	/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/ID		This IDentifies the charge ID. For example: Timehseet ID, Direct Charges ID, Inventory Count Line ID, Accept Line ID, Materials Issued ID, etc. WAM only passes one ID per request message. The integration maps the one passed from WAM and sets the appropriate code value.
			/SyncAccountingEntryListEBM/DataArea/SyncAccountingEntryList/LedgerReference/LedgerIdentification/BusinessComponentID		If WAM Activity ID is provided, the integration defaults the description using property name OUWAM.InventoryAdjustmentID.Code in the ConfigurationProperties file.

Oracle Utilities Work and Asset Management Financial Transaction Outbound Message Business Object (W1-FinancialTransIntegOutbound)			ERP Accounting Entry Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
financialTransactionGIDetails	integrationDetails	List	/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/ AccountingEntryLine/		
glAccount	financialTransactionGIDetails	Field	/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/ AccountingEntryLine/GLAccount/ Identification/ApplicationObjectKey/ID		WAM GL account.
amount	financialTransactionGIDetails	Field	/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/ AccountingEntryLine/DebitAmount		WAM only passes the debit amount.
costCenter	financialTransactionGIDetails	Field	/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/ AccountingEntryLine/GLAccount/ GLElement(1)/GLElement		The cost center from WAM is mapped to the accounting entry EBO-GL account's first GLElement.
	financialTransactionGIDetails	Field	/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/ AccountingEntryLine/GLAccount/ GLElement(1)/GLElementCode		Defaulted by the integration using the property name OUWAM.CostCenter.Code in the ConfigurationProperties file.
expenseCode	financialTransactionGIDetails	Field	/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/ AccountingEntryLine/GLAccount/ GLElement(2)/GLElement		The expense code from WAM is mapped to the accounting entry EBO-GL account's second GLElement.
	financialTransactionGIDetails	Field	/SyncAccountingEntryListEBM/DataArea/ SyncAccountingEntryList/ AccountingEntryLine/GLAccount/ GLElement(2)/GLElementCode		Defaulted by the integration using the property name OUWAM.ExpenseCode in the ConfigurationProperties file.

GL Transaction (Accounting Entry) Response Mapping Details (WAM to ERP)

ERP GL Transaction (Accounting Entry) Sync Response Message	WAM Financial Transaction Response Message Inbound Service: F1-UpdateAndTransitionSyncRequest			Comments
Full Path	Element Name	Parent Element	Type	
	F1-UpdateAndTransitionSyncRequest		Outermost Tag	
/SyncAccountingEntryListResponseEBM/DataArea/SyncAccountingEntryListResponse/Identification/BusinessComponentID	syncRequestId	F1-UpdateAndTransitionSyncRequest	Field	WAM Sync Request ID. The unique ID sent as part of the response message to tie it together to the request. When ERP processes the request successfully, it sends back the WAM Sync Request ID only.
	externalIds	F1-UpdateAndTransitionSyncRequest	Group	
	entityIdList	externalIds	List	
	entity	entityIdList	Field	
	externalPkValue1	entityIdList	Field	
	externalPkValue2	entityIdList	Field	
	externalPkValue3	entityIdList	Field	
	externalPkValue4	entityIdList	Field	
	externalPkValue5	entityIdList	Field	
	exceptionInformation	F1-UpdateAndTransitionSyncRequest	Group	When ERP encounters an error while processing the request, it sends back the WAM Sync Request ID and the error or fault information.
	exceptionInformationList	exceptionInformation	List	
	sequence	exceptionInformationList	Field	
	messageCategory	exceptionInformationList	Field	Defaulted by Integration using property name <i>OUWAM.Generic.MessageCategory</i> in the ConfigurationProperties file.

ERP GL Transaction (Accounting Entry) Sync Response Message	WAM Financial Transaction Response Message Inbound Service: F1-UpdateAndTransitionSyncRequest			Comments
Full Path	Element Name	Parent Element	Type	
	messageNumber	exceptionInformationList	Field	Defaulted by Integration using property name <i>OUWAM.GenericBusinessException.MessageNumber</i> in the ConfigurationProperties file.
SyncAccountingEntryListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	comments	exceptionInformationList	Field	Error comments or error message
	messageParameters	exceptionInformationList	List	
	parameterSequence	messageParameters	Field	
	messageParameterValue	messageParameters	Field	

Materials Requisition Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Materials Requisition Request Mapping Details](#)
- [Materials Requisition Response Mapping Details](#)

Refer to the [Material Requisition Synchronization Process](#) description for processing details on this integration point.

Materials Requisition Request Mapping Details

WAM Outbound BO W1-MaterialReqIntegOutbound		ERP Requisition Request EBO message		DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
sendDetails		Outermost Tag			
			/SyncRequisitionListEBM/DataArea/SyncRequisitionList (attribute name = actionCode)		Put hard coded value 'Material Requisition'.
syncRequestId	sendDetails	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/Identification/BusinessComponentID		WAM Sync Request Id. This is a unique Id sent out as part of the request message by WAM. This Id is used by the WAM to tie together the request sent out to the ERP and the response coming back from the ERP. This id should be sent back to WAM as part of the response message.
integrationDetails	sendDetails	Group			
headerInfo	integrationDetails	Group			
materialRequestHeaderId	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/Identification/ApplicationObjectKey/ID		WAM MaterialRequest Header Id. This is a system generated id in WAM that must be stored in the ERP system and pass back to WAM in the Issue Inventory Transaction sync.
boStatus	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/Status/Code	OUWAMERP_Material RequestStatusCode	WAM sends the material request to the ERP system when it is in the 'READY FOR ISSUE' status. The record will be lock down in WAM when the Material Request has already been sent out to the ERP. All updates to the Material Request will be done in the ERP system. The ERP system will not send any updates, including status update, to WAM. If Material Request Status update is needed, this will be an extension.

WAM Outbound BO W1-MaterialReqIntegOutbound			ERP Requisition Request EBO message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
nodeId					Not Mapped
activityId					Not Mapped. WAM's system generated activity id
requiredByDate	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/RequiredDate		
deliveryToLocation	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/DeliverToPartyReference/LocationReference/LocationIdentification/ID	OUWAMERP_LocationId	WAM will pass a valid WAM location id. This is a lookup in WAM. Integration will use dvm to map it to the Valid EBS location id. Pass WAM Requisition Header Deliver To Location to all the EBO Requisition Lines.
deliverTo	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/DeliverToPartyReference/OrganizationName		Pass WAM Material Requisition Header Deliver To Information to all the EBO Requisition Lines.
requester	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequesterPartyReference/OrganizationName		Requestor Name. This is a name and not a code or an id.
phone			/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequesterPartyReference/Contact/ContactPhoneCommunication/PhoneCommunication/CompleteNumber		WAM will pass the area code and phone number without delimiters.
description			/SyncRequisitionListEBM/DataArea/SyncRequisitionList/Description		Material Requisition Description
requestCategory					Not Mapped
projectId					Not Mapped
lineInfo	integrationDetails	Group			
lineInfoList	lineInfo	List			List mapping in a loop
materialRequestLineId	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/Identification/ApplicationObjectKey/ID		The WAM Material Requisition Line Id needs to be stored in the ERP and pass back to WAM in the Issue Inventory Transaction Transactional Sync.
materialRequestHeaderId	lineInfoList	Field			Not Mapped. This is already mapped in the header
stockItemDetailId					Not mapped.

WAM Outbound BO W1-MaterialReqIntegOutbound			ERP Requisition Request EBO message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
stockItemDetailExternalId	lineInfoList	Field			This is the ERP Storeroom ID or Stock Item Detail Id. This Id is a three part key delimited by a dash (-). The first and the second part of the stockItemDetailExternalId identifies the inventory location. The third part of the id is the ERP's system generated stock Item Id. Example: StockItemDetailExternalId: 123-Sub1-987654321
			/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/SuggestedSupplierPartyReference/LocationReference/LocationIdentification/ID		The first part of the stockItemDetailExternalId is the ERP's Inventory Organization Number. From the example above, 123 should be map here.
			/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/SuggestedSupplierPartyReference/LocationReference/LocationIdentification/ContextID		The second part of the stockItemDetailExternalId is the ERP's Subinventory Name. From the example above, Sub1 should be map here.
			/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/ItemReference/ItemIdentification/ApplicationObjectKey/ID		The third part of the stockItemDetailExternalId is the ERP's system generated stock Item Id which is the Item Table's unique identifier.
requestedQuantity	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/OrderedQuantity		
unitOfIssue	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/OrderedQuantity (attribute name = unitCode)		Unit of issue for the quantities returned.
workOrderNumber	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/SourceRequisitionLineIdentification/ID		WAM's Work Order Number
activityNumber	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/SourceRequisitionLineIdentification/ContextID		WAM's Activity Number
accountingInformation	lineInfoList	Group			
costCenterList	accountingInformation	List			
glAccount	costCenterList	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/RequisitionLine/RequisitionAccountingDistribution/AccountingDistribution/GLAccount/Identification/ID		
costCenter					Not Mapped

WAM Outbound BO W1-MaterialReqIntegOutbound		ERP Requisition Request EBO message		DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
expenseCode					Not Mapped
percentage			/SyncRequisitionListEBM/DataArea/SyncRequisitionList/ RequisitionLine/RequisitionAccountingDistribution/ AccountingDistribution/Percentage		

Materials Requisition Response Mapping Details

ERP Sync Requisition Response Message	WAM Material Requisition Response Message UpdateAndTransitionSyncRequest		IWS: F1-	Comments
Full Path	Element Name	Parent Element	Type	
	F1-UpdateAndTransitionSyncRequest		Outermost Tag	
/SyncRequisitionListResponseEBM/DataArea/SyncRequisitionListResponse/Identification/BusinessComponentID	syncRequestId	F1-UpdateAndTransitionSyncRequest	Field	WAM Sync Request Id. This is the unique Id sent out as part of the response message to tie it together to the request. When ERP process the request successfully, it only sends back the WAM Sync Request ID.
	externalIds	F1-UpdateAndTransitionSyncRequest	Group	
	entityIdList	externalIds	List	
	entity	entityIdList	Field	
	externalPkValue1	entityIdList	Field	
	externalPkValue2	entityIdList	Field	
	externalPkValue3	entityIdList	Field	
	externalPkValue4	entityIdList	Field	
	externalPkValue5	entityIdList	Field	
	exceptionInformation	F1-UpdateAndTransitionSyncRequest	Group	When ERP encounters an error while process the request, it sends back the WAM Sync Request Id and the error or fault information.
	exceptionInformationList	exceptionInformation	List	
	sequence	exceptionInformationList	Field	
	messageCategory	exceptionInformationList	Field	Defaulted by Integration using property name <i>OUWAM.Generic.MessageCategory</i> in the ConfigurationProperties file.
	messageNumber	exceptionInformationList	Field	Defaulted by Integration using property name <i>OUWAM.Generic.BusinessException.MessageNumber</i> in the ConfigurationProperties file.
SyncRequisitionListResponseEBM/EBMHeader/FaultNotification/FaultMessage/Text	comments	exceptionInformationList	Field	Error comments or error message
	messageParameters	exceptionInformationList	List	

ERP Sync Requisition Response Message	WAM Material Requisition Response Message UpdateAndTransitionSyncRequest		IWS: F1-	Comments
Full Path	Element Name	Parent Element	Type	
	parameterSequence	messageParameters	Field	
	messageParameterValue	messageParameters	Field	
	messageParameterValue	messageParameters	Field	

Purchase Requisition Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Purchase Requisition Request Mapping Details](#)
- [Purchase Requisition Response Mapping Details](#)

Refer to the [Purchase Requisition Synchronization Process](#) for details about the integration point.

Purchase Requisition Request Mapping Details

WAM Purchase Requisition Outbound Message Business Object (W1-PurchaseReqIntegOutbound)		ERP Requisition EBO Message		DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
sendDetails		Outermost Tag			
			/SyncRequisitionListEBM/DataArea/SyncRequisitionList (attribute name = actionCode)		ERP pass Hardcoded value 'Purchase Requisition' as part of the message.
syncRequestId	sendDetails	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/Identification/BusinessComponentID		WAM Sync Request ID. This is a unique ID sent as part of the request message by WAM. This ID is used by the WAM system to tie together the request sent to the ERP and the response coming back from the ERP system. This ID should be sent back to WAM as part of the response message.
integrationDetails	sendDetails	Group			
headerInfo	integrationDetails	Group			
purchaseRequisitionHeaderId	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/Identification/ApplicationObjectKey/ID		WAM Purchase Requisition Header ID. This is a system generated ID in WAM, it can be stored in the ERP system to cross reference the WAM Purchase requisition Header ID, if needed.
purchaseRequisitionNumber	headerInfo	Field	/SyncRequisitionListEBM/DataArea/SyncRequisitionList/Identification/ID		Purchase Requisition Number. This is the same value in WAM and the ERP system.

WAM Purchase Requisition Outbound Message Business Object (W1-PurchaseReqIntegOutbound)			ERP Requisition EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
boStatus	headerInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/Status/Code	OUWAMERP_ RequisitionStatus	WAM sends the purchase requisition to the ERP system when it is in the 'SENT' status. The record is locked in WAM when the Requisition has already been sent to the ERP system. All updates to the Requisition are completed in the ERP system. the ERP system does not send any Requisition updates, including status updates, to WAM. If Requisition status updates need to be synchronized with WAM, your implementation will need to write an extension.
approvalProfile	headerInfo	Field			Not Mapped
initiatingBlanketContract	headerInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedBlanketPurchaseAgreementReference/ PurchaseAgreementIdentification/ ApplicationObjectKey/ID		Initial Blanket Contract used for this Purchase Requisition. ERP system generated Blanket Contract or or Blanket Purchase Agreement ID which is the Blanket Contract Table's unique identifier. This blanket contract should also exist in the ERP system. Pass Requisition Header Blanket Contract ID to all the EBO Requisition Lines Blanket Contract ID.
createdBlanketContract	headerInfo	Field			Not Mapped
description	headerInfo		/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/Description		Purchase Requisition Description
createdBy	headerInfo	Field			Not Mapped.
			/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionStatusHistory/ StatusHistory/ToStatusCode		Integration default hardcoded value ' CREATED '
creationDateTime	headerInfo		/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionStatusHistory/ StatusHistory/EffectiveDateTime		
projectId	headerInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ RequisitionAccountingDistribution/ AccountingDistribution/ProjectReference/ ProjectIdentification/ID		WAM Project ID in the Requisition Header. Only use this value if the WAM Requisition Line projectId is empty.
accessControl	headerInfo	Field			Not Mapped
requisitionInfo	headerInfo	Group			

WAM Purchase Requisition Outbound Message Business Object (W1-PurchaseReqIntegOutbound)			ERP Requisition EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
initiator	requisitionInfo	Field			
requester	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequesterPartyReference/ OrganizationName		Requestor Name. Thisname is a text field and not a code or an ID.
contactNumber	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequesterPartyReference/ Contact/ContactPhoneCommunication/ PhoneCommunication/CompleteNumber		WAM passes the area code and phone number without delimiters.
buyer	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedBuyerPartyReference/PartyIdentification/ID	OUWAMERP_Buyer	This is a suggested buyer. Optional Mapping in the ERP system. Example: In EBS, it has to be a valid HR record and the person has to be setup as a buyer. Integration uses DVM to map the WAM Buyer ID to the valid ERP Buyer ID. Pass WAM Requisition Header Buyer to all the EBO Requisition Lines.
buyerDescription	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedBuyerPartyReference/OrganizationName		Pass WAM Requisition Header Buyer Description to all the EBO Requisition Lines.
requiredByDate	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/RequiredDate		Only use this value if the WAM Requisition Line requiredDate is empty.
promiseDate	requisitionInfo	Field			Not Mapped
shipToLocation	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequesterPartyReference/ LocationReference/LocationIdentification/ID	OUWAMERP_ LocationId	WAM passes a valid WAM location ID. This is a lookup in WAM. Integration uses DVM to map it to the valid ERP system location ID.
deliverToLocation	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ DeliverToPartyReference/LocationReference/ LocationIdentification/ID	OUWAMERP_ LocationId	WAM passes a valid WAM location ID. This is a lookup in WAM. Integration uses DVM to map to the valid ERP system location ID. Pass WAM Requisition Header Deliver To Location to all the EBO Requisition Lines.
deliverTo	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ DeliverToPartyReference/OrganizationName		Pass WAM Requisition Header Deliver To Information to all the EBO Requisition Lines.
vendorLocation	headerInfo	Group			Suggested Vendor Location
vendorLocationId	vendorLocation	Field			Not Mapped. WAM's internal Vendor Location ID

WAM Purchase Requisition Outbound Message Business Object (W1-PurchaseReqIntegOutbound)			ERP Requisition EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
vendorLocationExternalId	vendorLocation		/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ LocationIdentification/ApplicationObjectKey/ID		Pass ERP Vendor Location ID or ERP Vendor Site ID. This has to be a valid vendor location in WAM. Supplier Party Sync from the ERP system to WAM must be done first.
location	vendorLocation	Group			Vendor Location Address
address1	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/LineOne		
address2	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/LineTwo		
address3	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/LineThree		
address4	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/LineFour		
geographicCode	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/GEOCodeID		
city	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/CityName		
suburb	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/ProvinceName		

WAM Purchase Requisition Outbound Message Business Object (W1-PurchaseReqIntegOutbound)			ERP Requisition EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
state	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/StateName	OUWAMERP_State	DVM already exist
county	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/CountyName		
country	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/CountryCode	OUWAMERP_Country	DVM already exist
postal	location	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedSupplierPartyReference/LocationReference/ Address/PostalCode		
exchangeRate	vendorLocation	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/RequisitionLine/ CurrencyExchange/ConversionRate		
currency	vendorLocation	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/RequisitionLine/ CurrencyExchange/SourceCurrencyCode	OUWAMERP_Currency	DVM already exist
fob	vendorLocation	Field			Not Mapped
paymentTerms	vendorLocation	Field			Not Mapped
autoPay	vendorLocation	Field			Not Mapped
carrierLocationId	vendorLocation	Field			Not Mapped
accountingInfo	headerInfo	Group			WAM Requisition Header accountingInfo Group not mapped
costCenterList	accountingInfo	List			
costCenter	costCenterList	Field			
percentage	costCenterList	Field			
lineInfo	integrationDetails	Group			

WAM Purchase Requisition Outbound Message Business Object (W1-PurchaseReqIntegOutbound)			ERP Requisition EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
lineInfoList	lineInfo	List			
purchaseRequisitionLineId	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/Identification/ ApplicationObjectKey/ID		The Purchase Requisition Line ID needs to be stored in the ERP and pass back to WAM in the PO Transactional Sync.
purchaseRequisitionHeaderId	lineInfoList	Field			Not Mapped. This can also be obtained from the header.
boStatus	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/Status/Code	OUWAMERP_ RequisitionLineStatus	Requisition Line Status. WAM only sends the purchase requisition lines in ' SENT ' status.
blanketContractLineId	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SuggestedBlanketPurchaseAgreementReference/ PurchaseAgreementIdentification/ ApplicationObjectKey/ContextID		
projectId	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ RequisitionAccountingDistribution/ AccountingDistribution/ProjectReference/ ProjectIdentification/ID		WAM Project ID. Optional Mapping to the ERP system. Use the WAM Requisition Line Project ID. If it is not provided, get the value from WAM Header Project ID.
creationDateTime	lineInfoList	Field			Not Mapped
resourceTypeId	lineInfoList	Field			Not Mapped. WAM's system generated resourceType ID
resourceTypeExternalId	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ItemReference/ ItemIdentification/ApplicationObjectKey/ID		ERP's system generated stock Item code/ID. This is the Item Table's unique identifier. If the stock item or resource does not exist in the ERP, leave this blank and only pass the item description. If the stock item exist in the ERP, do not populate the item description.
description	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ItemReference/ Description		Item Description
workOrderNumber	lineInfoList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SourceRequisitionLineIdentification/ID		WAM's Work Order Number
activityNumber	lineInfoList		/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ SourceRequisitionLineIdentification/ContextID		WAM's Activity Number

WAM Purchase Requisition Outbound Message Business Object (W1-PurchaseReqIntegOutbound)			ERP Requisition EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
requisitionInfo	lineInfoList	Group			
itemNumber	requisitionInfo	Field			Not Mapped Item sequence number
itemType	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ItemReference/ TypeCode	OUWAMERP_ItemType	
quantity	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/OrderedQuantity		ERP system generated Item ID which is the Item Table's unique identifier.
unitprice	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/UnitPrice/ Amount		
			/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/UnitPrice/ PerQuantity		Pass a number. If blank default to 1
unitOfPurchase	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/UnitPrice/ PerQuantity (attribute=unitCode)	OUWAMERP_ UOMCode	
requiredByDate	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/RequiredDate		If WAM Requisition Line requiredDate is empty, get the value from WAM Requisition Header requiredDate.
promiseDate	requisitionInfo	Field			Not Mapped
vendorpartNumber	requisitionInfo	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ItemReference/ ItemIdentification/SupplierItemID		
expedite	requisitionInfo	Field			Not Mapped
printPrice	requisitionInfo	Field			Not Mapped
relatedObjects	lineInfoList	Group			
woId	relatedObjects	Field			Not Mapped. WAM's system generated work order ID
activityId	relatedObjects	Field			Not Mapped. WAM's system generated activity ID
activityResourceRequirementId	relatedObjects	Field			Not Mapped
rrId	relatedObjects	Field			Not Mapped
poLineId	relatedObjects	Field			Not Mapped

WAM Purchase Requisition Outbound Message Business Object (W1-PurchaseReqIntegOutbound)			ERP Requisition EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
accountingInfo	lineInfoList	Group			
costCenterList	accountingInfo	List			
glAccount	costCenterList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ RequisitionAccountingDistribution/ AccountingDistribution/GLAccount/Identification/ ID		
costCenter	costCenterList	Field			Not Mapped
expenseCode	costCenterList	Field			Not Mapped
percentage	costCenterList	Field	/SyncRequisitionListEBM/DataArea/ SyncRequisitionList/RequisitionLine/ RequisitionAccountingDistribution/ AccountingDistribution/Percentage		

Purchase Requisition Response Mapping Details

ERP Sync Requisition Response Message	WAM Requisition Response Message IWS: F1-UpdateAndTransitionSyncRequest			Comments
Full Path	Element Name	Parent Element	Type	
	F1-UpdateAndTransitionSyncRequest		Outermost Tag	
/SyncRequisitionListResponseEBM/DataArea/SyncRequisitionListResponse/Identification/BusinessComponentID	syncRequestId	F1-UpdateAndTransitionSyncRequest	Field	WAM Sync Request ID. This is the unique ID sent as part of the response message to tie it together to the request. When ERP processes the request successfully, it only sends back the WAM Sync Request ID.
	externalIds	F1-UpdateAndTransitionSyncRequest	Group	
	entityIdList	externalIds	List	
	entity	entityIdList	Field	
	externalPkValue1	entityIdList	Field	
	externalPkValue2	entityIdList	Field	
	externalPkValue3	entityIdList	Field	
	externalPkValue4	entityIdList	Field	
	externalPkValue5	entityIdList	Field	
	exceptionInformation	F1-UpdateAndTransitionSyncRequest	Group	When ERP encounters an error while processing the request, it sends back the WAM Sync Request ID and the error or fault information.
	exceptionInformationList	exceptionInformation	List	
	sequence	exceptionInformationList	Field	
	messageCategory	exceptionInformationList	Field	Defaulted by Integration using property name <i>Ouwam.Generic.MessageCategory</i> in the ConfigurationProperties file.

ERP Sync Requisition Response Message	WAM Requisition Response Message IWS: F1-UpdateAndTransitionSyncRequest			Comments
Full Path	Element Name	Parent Element	Type	
	messageNumber	exceptionInformationList	Field	Defaulted by Integration using property name <i>OUWAM.GenericBusinessException.MessageNumber</i> in the <i>ConfigurationProperties</i> file.
SyncRequisitionListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Text	comments	exceptionInformationList	Field	Error comments or error message
	messageParameters	exceptionInformationList	List	
	parameterSequence	messageParameters	Field	
	messageParameterValue	messageParameters	Field	

Supplier Party (Vendor/Vendor Location) Synchronization Process Mapping Details

This section provides data mapping details for the following:

- [Supplier Party \(Vendor/Vendor Location\) Request Mapping Details \(WAM to ERP\)](#)
- [Supplier Party \(Vendor/Vendor Location\) Response Mapping Details \(WAM to ERP\)](#)

Refer to the [Supplier Party \(Vendor/Vendor Location\) Synchronization Process \(WAM to ERP\)](#) description for processing details on this integration point.

Supplier Party (Vendor/Vendor Location) Request Mapping Details (WAM to ERP)

WAM Outbound BO W1-VendorLocIntegOutbound		ERP Supplier Party Request EBO Message		DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
sendDetails		Outermost Tag			
syncRequestId	sendDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/Identification/BusinessComponentID		WAM Sync Request ID. This is a unique ID sent as part of the request message by WAM. This ID is used by the WAM system to tie together the request sent to ERP and the response coming back from the ERP system. This ID should be sent back to WAM as part of the response message.
integrationDetails	sendDetails	Group			
vendor	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/Identification/ID		Vendor Number or Vendor Code. This has the same value both in WAM and the ERP system.
vendorName	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/Organization/Name		Vendor Name
vendorLocationId	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ LocationIdentification/ApplicationObjectKey/ID		WAM system generated Vendor Location ID.
locationName	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Name		Vendor Location Name
boStatus	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/SupplierPartyTradingLocationProfile/ Status/Code	OUWAMERP_Supplier PartyLocStatus	Vendor Location Status. Use DVM to translate the WAM system status to the equivalent ERP Status. WAM Statuses: Under Review, Active, Inactive
creationDate'ime	integrationDetails	Field			Not Mapped.

Supplier Party (Vendor/Vendor Location) Request Mapping Details (WAM to ERP)

WAM Outbound BO W1-VendorLocIntegOutbound			ERP Supplier Party Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
organization	integrationDetails	Field			Not mapped. The organization is used to restrict access to certain records according to groups of users.
location	integrationDetails	Group			Vendor Location Address Information
address1	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/LineOne		
address2	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/LineTwo		
address3	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/LineThree		
address4	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/LineFour		
city	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/CityName		
state	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/StateName	OUWAMERP_State	
county	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/CountyName		
country	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/CountryCode	OUWAMERP_Country	
postal	addressInformation	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyLocation/LocationReference/ Address/PostalCode		
orderFromFlag	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/SupplierPartyTradingLocationProfile/ PurchasingEnabledIndicator	OUWAMERP_ PurchasingEnabledFlag	Indicates whether purchasing from this Supplier/ Vendor location is allowed. Use DVM to translate the WAM Order From Flag to the ERP Purchase Enabled Flag. WAM values: Allowed/NotAllowed.

Supplier Party (Vendor/Vendor Location) Request Mapping Details (WAM to ERP)

WAM Outbound BO W1-VendorLocIntegOutbound			ERP Supplier Party Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
payToFlag	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/SupplierPartyTradingLocationProfile/ PaymentRemittanceAllowedIndicator	OUWAMERP_ PmntRemittance AllowedFlag	Indicates whether Supplier/Vendor Location handles billing and payments. Use DVM to translate the WAM Pay To Flag to the ERP Payment Remittance Allowed Flag. WAM values: Allowed/NotAllowed.
payToLocation	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/SupplierPartyTradingLocationProfile/ TradingLocationProfileAlternateUsage/ BillToLocationReference/LocationIdentification/ ApplicationObjectKey/ID		In WAM, payToLocation is only populated if payToFlag is 'Not Allowed'. A Bill To Location or Pay To Location on a procurement identifies the location where the invoice is to be sent. This value must be a valid WAM Vendor Location ID that has already been synced to the ERP system.
currency	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/SupplierPartyTradingLocationProfile/ InvoiceCurrencyCode	OUWAMERP_ CurrencyCode.dvm	Currency that the Vendor Location use.
paymentTerm	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/SupplierPartyTradingLocationProfile/ PaymentTerm/Code	OUWAMERP_ PaymentTerm	Indicates the payment term code. Use DVM to translate the WAM Payment Term Code to the ERPPayment Term Code.
fob	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/SupplierPartyTradingLocationProfile/ FOBPointCode	OUWAMERP_FOB	Indicates the Free on Board (FOB) Code which identifies the delivery charge terms negotiated for the PO. Use DVM to translate the WAM FOB Code to the ERP FOB Code.
minimumOrderAmount	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/MinimumOrderAmount		Minimum purchase order amount
autoPay	integrationDetails	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/SupplierPartyTradingLocationProfile/ PaymentMethodCode	OUWAMERP_AutoPay Flag	In WAM, this is the auto invoice indicator. Use DVM to translate the WAM Auto Pay Flag to the ERP Payment Method Code. WAM Values: Authorize/Not Auhorize.
carrierFlag	integrationDetails	Field			Not Mapped
carrierLocationId	integrationDetails	Field			Not Mapped
vendorLocationCapability	integrationDetails	Group			Whole Vendor Location Capability Group Not Mapped
vendorLocationCapabilityList	vendorLocationCapability	List			
capabilityType	vendorLocationCapabilityList	Field			

Supplier Party (Vendor/Vendor Location) Request Mapping Details (WAM to ERP)

WAM Outbound BO W1-VendorLocIntegOutbound			ERP Supplier Party Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
commodities	integrationDetails	Group			
insuranceExpirationDate	commodities	Field			Not Mapped
emailPOFlag	commodities	Field			Not Mapped
poEmailAddress	commodities	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/ ContactEmailCommunication/EmailCommunication/URI		Email address of the contact person
payTaxToVendor	commodities	Field			Not Mapped. Indicates whether to pay sales tax to the vendor location or not.
mainContact	integrationDetails	Group			Vendor Location's Main Contact Person.
contactType	mainContact	Field			Not Mapped.
firstName	mainContact	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/PersonName/ FirstName		Contact's first name
lastName	mainContact	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/PersonName/ FamilyName		Contact's last name
fullName	mainContact	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/PersonName/ FullName		Contact's Full Name.
mainContactPhone	integrationDetails	Group			Vendor Location's Phone Information.
phoneList	mainContactPhone	List			
phoneType	phoneList	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/ ContactPhoneCommunication/PhoneCommunication/ TypeCode	OUWAMERP_ PhoneType	Phone Type whether it's the primary or business phone, mobile, fax, etc
countryCode	phoneList	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/ ContactPhoneCommunication/PhoneCommunication/ CountryCode		Country code. Keep mapping even if WAM is not passing any value.
areaCode	phoneList	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/ ContactPhoneCommunication/PhoneCommunication/ AreaCode		Area code. Keep mapping even if WAM is not passing any value.

WAM Outbound BO W1-VendorLocIntegOutbound			ERP Supplier Party Request EBO Message	DVM Mapping	Comments
Element Name	Parent Element	Type	Full Path		
phoneNumber	phoneLst	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/ ContactPhoneCommunication/PhoneCommunication/ LocalNumber		Phone number. Keep mapping even if WAM is not passing any value.
completeNumber	phoneLst	Field	/SyncSupplierPartyListEBM/DataArea/ SyncSupplierPartyList/PartyContact/Contact/ ContactPhoneCommunication/PhoneCommunication/ CompleteNumber		Complete Phone Number passed by WAM. Can have delimiters.

Supplier Party (Vendor/Vendor Location) Response Mapping Details (WAM to ERP)

ERP Sync Supplier Party Response Message	WAM Vendor Location Response Message IWS: F1-UpdateAndTransitionSyncRequest			Comments
Full Path	Element Name	Parent Element	Type	
	F1-UpdateAndTransitionSyncRequest		Outermost Tag	
/SyncSupplierPartyListResponseEBM/DataArea/ SyncSupplierPartyListResponse/Identification/ BusinessComponentID	syncRequestId	F1-UpdateAndTransitionSyncRequest	Field	WAM Sync Request ID. The unique ID sent as part of the response message to tie it together to the request. When ERP processes the request successfully, it only sends back the WAM Sync Request ID.
	externalIds	F1-UpdateAndTransitionSyncRequest	Group	
	entityIdList	externalIds	List	
	entity	entityIdList	Field	
	externalPkValue1	entityIdList	Field	
	externalPkValue2	entityIdList	Field	
	externalPkValue3	entityIdList	Field	
	externalPkValue4	entityIdList	Field	
	externalPkValue5	entityIdList	Field	
	exceptionInformation	F1-UpdateAndTransitionSyncRequest	Group	When ERP encounters an error while processing the request, it sends back the WAM Sync Request ID and the error or fault information.
	exceptionInformationList	exceptionInformation	List	
	sequence	exceptionInformationList	Field	
	messageCategory	exceptionInformationList	Field	Defaulted by Integration using property name <i>Ouwam.Generic.MessageCategory</i> in the ConfigurationProperties file.
	messageNumber	exceptionInformationList	Field	Defaulted by Integration using property name <i>Ouwam.Generic.BusinessException.MessageNumber</i> in the ConfigurationProperties file.
SyncRequisitionListResponseEBM/EBMHeader/ FaultNotification/FaultMessage/Text	comments	exceptionInformationList	Field	Error comments or error message

ERP Sync Supplier Party Response Message	WAM Vendor Location Response Message IWS: F1-UpdateAndTransitionSyncRequest			Comments
Full Path	Element Name	Parent Element	Type	
	messageParameters	exceptionInformationList	List	
	parameterSequence	messageParameters	Field	
	messageParameterValue	messageParameters	Field	

Appendix B

Configuration Properties File

This section lists the configurations stored in the ConfigurationProperties.xml file located in <PRODUCT.HOME>/MDS-Artifacts/OUWAMERP/config/ and the ConfigurationProperties.xml is stored in Metadata Service (MDS).

For information on modifying configuration properties, refer to the “[Configuration Properties](#)” section in [Chapter 4: Configuration Guidelines](#).

Two types of configuration properties are managed in the configuration files:

- **Module Configurations:** Module configurations are the properties that are shared by multiple processes within this integration.
- **Service Configurations:** Service configurations are the properties that are used by a specific ABCS.

Module Configurations

Module Configurations have application level properties which are used by all the SOA composites.

Module Name	Default / Shipped Value	Description
OUWAM.Integration.User	SYSUSER	The Oracle Utilities Work and Asset Management user ID, which is defaulted in the message going into Oracle Utilities Work and Asset Management from the integration.
OUWAM.External.System	ERP	The external system configured in Oracle Utilities Work and Asset Management. The external system is defaulted from this property into the message going into Oracle Utilities Work and Asset Management from the integration.
OUWAM.InitialLoad.Flag	F1IC	Initial load passed into message going to Oracle Utilities Work and Asset Management from the integration.
OUWAM.Allowed.ValueFlag	W1AL	Oracle Utilities Work and Asset Management Allowed Flag Value populates WAM flags in the integration and passed into message going to Oracle Utilities Work and Asset Management from the integration.
OUWAM.NotAllowed.ValueFlag	W1NA	Oracle Utilities Work and Asset Management Not Allowed Flag Value populates WAM flags in the integration and passed into message going to Oracle Utilities Work and Asset Management from the integration.
OUWAM.Generic.MessageCategory	11017	The message category that the integration layer passes to Oracle Utilities Work and Asset Management as part of the response error message.
OUWAM.GenericBusinessException.MessageNumber	11001	The message number that the integration layer passes back to Oracle Utilities Work and Asset Management as part of the response error message.

Service Configurations

Service Configuration properties are specific to SOA composites. These are used to make changes in specific composite behavior.

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
All All of the service names in the configuration properties file will have these two property names to control email notifications on errors.	BusinessError.NotificationFlag	false		If set to true, business error notification is sent via Email.
	TechnicalError.NotificationFlag	false		If set to true, technical error notification is sent via Email.
Worker (Employee) Synchronization Process				
SyncWorkerERPReqABCImpl	Default.SystemID		ERP_01	
SyncWorkerOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.W1-SyncRequestInbound.Endpoint.URL	@wam_protocol://@wam_host: @wam_port/@wam_ctx1/ W1- SyncRequestInbound		Endpoint URL for the Oracle Utilities Work and Asset Management inbound web service, which is used for Worker Sync.
	OUWAM.Employee.Target.MO		W1-EMP	Maintenance object code, which is passed to Oracle Utilities Work and Asset Management for the Worker (Employee) sync.
SyncWorkerRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
Supplier Party (Vendor/Vendor Location) Synchronization Process (ERP to WAM)				
SyncSupplierPartyERPReqABCImpl	Default.SystemID		ERP_01	
SyncSupplierPartyOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	Endpoint URL for the Oracle Utilities Work and Asset Management inbound web service, which is used for Supplier Party Sync.
	OUWAM.W1-SyncRequestInbound.Endpoint.URL	@wam_protocol://@wam_host: @wam_port/@wam_ctx1/ W1- SyncRequestInbound		
	OUWAM.VendorLoc.Target.MO		W1-VENDORLOC	Maintenance object code, which is passed to Oracle Utilities Work and Asset Management for the Supplier Party (Vendor) sync.

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
SyncSupplierPartyRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
Chart of Accounts (Cost Center) Synchronization Process				
SyncChartOfAccountsERPReqABCImpl	Default.SystemID		ERP_01	
SyncChartOfAccountsOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	Endpoint URL for the Oracle Utilities Work and Asset Management inbound web service, which is used for Chart of Accounts Sync.
	OUWAM.W1-SyncRequestInbound.Endpoint.URL	@wam_protocol://@wam_host: @wam_port/@wam_ctx1/ W1- SyncRequestInbound		
	OUWAM.CostCenter.Target.MO	W1-COSTCTR		Maintenance object code, which is passed to Oracle Utilities Work and Asset Management for the Chart of Accounts (Cost Center) sync.
SyncChartOfAccountsRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
Stock Item Synchronization Process				
SyncStockItemERPReqABCImpl	Default.SystemID		ERP_01	
SyncStockItemOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.W1-SyncRequestInbound.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-SyncRequestInbound		Endpoint URL for the WAM inbound service used for Stock Item Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.StockItem.Target.MO	W1-RESRCTYPE		Maintenance object code passed to WAM for the Stock Item sync.
	OUWAM.InventoryExpense.Code	ERP_INVENTORY	ERP	
SyncStockItemRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
Storeroom Item (Stock Item Detail) Synchronization Process				
SyncStoreroomItemERPReqABCImpl	Default.SystemID		ERP_01	
SyncStoreroomItemOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
	OUWAM.W1-SyncRequestInbound.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-SyncRequestInbound		Endpoint URL for the WAM inbound service used for Storeroom (Stock Item Details) Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIApp/xaiserver
	OUWAM.StoreroomItem.Target.MO	W1-SID		Maintenance object code, pass to WAM for Storeroom Item Sync.
SyncStoreroomItemRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
Purchase Order Synchronization Process				
SyncPurchaseOrderERPReqABCImpl			ERP_01	
SyncPurchaseOrderOUWAMUtilitiesProvABCImpl			WAM	Endpoint URL for the WAM inbound service used for Purchase Order Transactional Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIApp/xaiserver.
	OUWAM.W1-PurchaseOrder.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ / W1-PurchaseOrderIntegInbound		
	OUWAM.PO.Target.MO	W1-POHDR		Maintenance object code, pass to WAM for Purchase Order Transaction Sync.
	OUWAM.PO.BO	W1-PurchaseOrderIntegInbound		Business object code pass to WAM for Purchase Order Transactional Sync
	OUWAM.Integration.POCreatedBy	Sample: W1IN		
	WAM.Integration.POInitiator	Sample: USER01		Default WAM Purchase Order Initiator. This should be a valid WAM User ID.
SyncPurchaseOrderRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
Shipment Receipt (Purchase Receipt) Synchronization Process				
SyncShipmentReceiptERPReqABCImpl	Default.SystemID		ERP_01	
SyncShipmentReceiptOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
	OUWAM.W1-ReceiptIntegInbound .Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-ReceiptIntegInbound		Endpoint URL for the WAM inbound service used for Receipt Transaction Inbound Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.Receipt.Target.MO	W1-RCPTHDR		Maintenance object code, pass to WAM for Receipt Transactional Sync.
	OUWAM.Receipt.BO	W1-ReceiptIntegInbound		Business object code pass to WAM for Receipt Transactional Sync
SyncShipmentReceiptRespOUWAMUtilitiesReq ABCImpl	Default.SystemID		OUWAM_01	
Blanket Contract (Purchase Agreement) Synchronization Process				
SyncBlanketPurchaseAgreementERPReqABCImpl			ERP_01	
SyncBlanketPurchaseAgreementRespOUWAMUtilitiesReqA BCImpl	Default.SystemID		OUWAM_01	
SyncBlanketPurchaseAgreementOUWAMUtilitiesProv ABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.W1-BlanketContractIntegInbound .Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-BlanketContractIntegInbound		Endpoint URL for the WAM inbound service used for Blanket Contract Transaction Inbound Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver.
	OUWAM.BlanketContract.Target.MO	W1-BCHEADER		Maintenance object code, pass to WAM for Blanket Contract Transactional Sync.
	OUWAM.BlanketContract.BO	W1-BlanketContractIntegInbound		Business object code pass to WAM for Blanket Contract Transactional Sync
Invoice Payment (Disbursement) Synchronization Process				
SyncDisbursementPaymentERPReqABCImpl	Default.SystemID		ERP_01	
SyncDisbursementPaymentRespOUWAMUtilitiesReq ABCImpl			OUWAM_01	

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
	OUWAM.W1-InvoicePaymentIntegInbound.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-InvoicePaymentIntegInbound		Endpoint URL for the WAM inbound service used for Invoice Transaction Inbound Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.InvoicePayment.Target.MO	W1-INVCHDR		Maintenance object code, pass to WAM for Invoice Payment Sync.
	OUWAM.InvoicePayment.BO	W1-InvoicePaymentIntegInbound		Business object code pass to WAM for Invoice Payment Transactional Sync
Invoice Synchronization Process				
SyncInvoiceERPReqABCImpl	Default.SystemID		ERP_01	
SyncInvoiceRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
SyncInvoiceOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.W1-InvoiceIntegInbound.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-InvoiceIntegInbound		Endpoint URL for the WAM inbound service used for Invoice Transaction. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.Invoice.Target.MO	W1-INVCHDR		
	OUWAM.Invoice.BO	W1-InvoiceIntegInbound		
Item Balance (Stock Transaction) Synchronization Process				
SyncItemBalanceERPReqABCImpl	Default.SystemID		ERP_01	
SyncItemBalanceOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.W1-StockTransIntegInbound.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-StockTransIntegInbound		Endpoint URL for the WAM inbound service used for Stock Transaction Transactional Inbound Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.StockTransaction.Target.MO	W1-STOCKTRAN		Maintenance object code, pass to WAM for Stock Transaction Transactional Sync.
	OUWAM.StockTransaction.BO	W1-StockTransIntegInbound		Business object code pass to WAM for Stock Transaction Transactional Sync
SyncItemBalanceRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
GL Transaction (Accounting Entry) Synchronization Process				
SyncAccountingEntryERPReqABCImpl (ERP to WAM)	Default.SystemID		ERP_01	
SyncAccountingEntryOUWAMUtilitiesProvABCImpl (ERP to WAM)	Default.SystemID		OUWAM_01	
	OUWAM.W1-FinancialTransaction .Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-FinancialTransIntegInbound		Endpoint URL for the WAM inbound service used for Stock Transaction Transactional Inbound Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.FT.MO	W1-FT		Maintenance object code, pass to WAM for Financial Transaction Transactional Sync.
	OUWAM.FT.BO	W1-FinancialTransIntegInbound		Business object code pass to WAM for Financial Transaction Transactional Sync
	OUWAM.FT.DistributionCode	DSCNT-DC		
SyncAccountingEntryRespOUWAMUtilitiesReq ABCImpl (ERP to WAM)	Default.SystemID		OUWAM_01	
Material Issue - Inventory Transaction Synchronization Process				
SyncMatIssueInventoryTxnERPReqABCImpl	Default.SystemID		ERP_01	
SyncMatIssueInventoryTxnRespOUWAMUtilitiesReq ABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.W1-MaterialIssueIntegInbound .Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-MaterialIssueIntegInbound		Endpoint URL for the WAM inbound service used for Material Issue Transactional Inbound Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.MaterialIssue.Target.MO	W1-MATISSLIN		Business object code pass to WAM for Material Issue Transactional Sync
	OUWAM.MaterialIssue.BO	W1-MaterialIssueIntegInbound		Maintenance object code, pass to WAM for Material Issue Transactional Sync.

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
SyncMatIssueInventoryTxnRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
Material Return – Inventory Transaction Synchronization Process				
SyncMatReturnInventoryTxnERPReqABCImpl	Default.SystemID		ERP_01	
SyncMatReturnInventoryTxnOUWAMUtilitiesProvABCImpl			OUWAM_01	Endpoint URL for the WAM inbound service used for Material Return Transactional Inbound Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.W1-MaterialReturnIntegInbound.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-MaterialReturnIntegInbound		
	OUWAM.MaterialReturn.BO	W1-MATRTNLIN		Business object code pass to WAM for Material Return Transactional Sync
	OUWAM.MaterialReturn.Target.MO	W1-MaterialReturnIntegInbound		Maintenance object code, pass to WAM for Material Return Transactional Sync.
	OUWAM.MaterialReturn.Percentage	100		
SyncMatReturnInventoryTxnRespOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
Purchase Return – Inventory Transaction Synchronization Process				
SyncPurReturnInventoryTxnERPReqABCImpl	Default.SystemID		ERP_01	
SyncPurReturnInventoryTxnOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.PurchaseReturnIntegInbound.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ W1-PurchaseReturnIntegInbound		Endpoint URL for the WAM inbound service used for Purchase Return Transactional Inbound Sync. @wam_ctx1 can be ouaf/webservices or ouaf/XAIAApp/xaiserver
	OUWAM.PurchaseReturn.BO	W1-RTNLIN		Business object code pass to WAM for Purchase Return Transactional Sync
	OUWAM.PurchaseReturn.Target.MO	W1-PurchaseReturnIntegInbound		Maintenance object code, pass to WAM for Purchase Return Transactional Sync.

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
	Ouwam.ReturnType	W1EX		Possible WAM values are credit or exchange. Defaulted to credit value.
	Ouwam.AdjustmentType	W1IN		Possible WAM values are Inventory (W1IN) or In Receipt (W1IR). Defaulted to In receipt value.
SyncPurReturnInventoryTxnRespOuwamUtilitiesReqABCImpl	Default.SystemID		Ouwam_01	
GL Transaction (Accounting Entry) Synchronization Process (WAM to ERP)				
SyncAccountingEntryOuwamUtilitiesReqABCImpl (WAM to ERP)	Default.SystemID		Ouwam_01	Code set for Activity ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	Ouwam.ActivityId.Code	ActivityId		
	Ouwam.TimesheetDetailId.Code	TimesheetDetailId		Code set for Timesheet Detail ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	Ouwam.OtherDirectChargesId.Code	OtherDirectChargesId		Code set for Other Direct Charges ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	Ouwam.MaterialIssueLineId.Code	MaterialIssueLineId		Code set for Material Issue Line ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	Ouwam.MaterialReturnLineId.Code	MaterialReturnLineId		Code set for Material Return Line ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	Ouwam.InventoryCountLineId.Code	InventoryCountLineId		Code set for Inventory Count Line ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
	OUWAM.AcceptLineId.Code	AcceptLineId		Code set for Accept Line ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	OUWAM.InvoiceLineId.Code	InvoiceLineId		Code set for Invoice Line ID coming from Oracle Utilities Work and Asset Management for the message going into the Enterprise Resource Planning system.
	OUWAM.ReturnId.Code	ReturnId		Code set for Return ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	OUWAM.InventoryAdjustmentId.Code	InventoryAdjustmentId		Code set for Inventory Adjustment ID coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	OUWAM.CostCenter.Code	CostCenter		Code set GL Element value coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
	OUWAM.ExpenseCode.Code	ExpenseCode		Code set for Expense code value coming from Oracle Utilities Work and Asset Management for the message going into Enterprise Resource Planning system.
SyncAccountingEntryRespERPReqABCImpl	Default.SystemID		ERP_01	
SyncAccountingEntryRespOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.F1-UpdateAndTransitionSyncRequest.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ F1-UpdateAndTransitionSyncRequest		Endpoint URL for the WAM inbound service used to handle responses. @wam_ctx1 can be ouaf/webservices or ouaf/XAIApp/xaiserver

Service Name	Property Name	Default / Shipped Value	Default System ID (Initiating System)	Description
Purchase Requisition Synchronization Process				
SyncRequisitionRespERPReqABCImpl	Default.SystemID		ERP_01	
SyncRequisitionOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
SyncRequisitionRespOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.F1-UpdateAndTransitionSyncRequest.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ F1-UpdateAndTransitionSyncRequest		Endpoint URL for the WAM inbound service used to handle responses. @wam_ctx1 can be ouaf/webservices or ouaf/XAIApp/xaiserver
Supplier Party (Vendor/Vendor Location) Synchronization Process (WAM to ERP)				
SyncSupplierPartyOUWAMUtilitiesReqABCImpl (WAM to ERP)	Default.SystemID		OUWAM_01	
SyncSupplierPartyRespERPReqABCImpl (WAM to ERP)	Default.SystemID		ERP_01	
SyncSupplierPartyRespOUWAMUtilitiesProvABCImpl (WAM to ERP)	Default.SystemID		OUWAM_01	
	OUWAM.F1-UpdateAndTransitionSyncRequest.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ F1-UpdateAndTransitionSyncRequest		Endpoint URL for the WAM inbound service used to handle responses. @wam_ctx1 can be ouaf/webservices or ouaf/XAIApp/xaiserver.
Material Requisition Synchronization Process				
SyncMaterialRequisitionOUWAMUtilitiesReqABCImpl	Default.SystemID		OUWAM_01	
SyncMaterialRequisitionRespERPReqABCImpl	Default.SystemID		ERP_01	
SyncMaterialRequisitionRespOUWAMUtilitiesProvABCImpl	Default.SystemID		OUWAM_01	
	OUWAM.F1-UpdateAndTransitionSyncRequest.Endpoint.URL	@wam_protocol://@wam_host/ @wam_port/@wam_ctx1/ F1-UpdateAndTransitionSyncRequest		Endpoint URL for the WAM inbound service used to handle responses. @wam_ctx1 can be ouaf/webservices or ouaf/XAIApp/xaiserver.

Appendix C

Domain Value Maps (DVMs)

The following table lists the DVMs included for the integration.

For information on creating DVMs refer to the “[Domain Value Maps](#)” section in [Chapter 4: Configuration Guidelines](#). For more information about on working with DVMs, see the section “Working with Domain Value Maps” in Oracle® Fusion Middleware Developing SOA Applications with Oracle SOA Suite documentation.

DVM	Integration Points	Description
OUWAMERP_AccountingEntryType	Sync Accounting Entry	Maps the Enterprise Resource Planning system Accounting Entry type to the Oracle Utilities Work and Asset Management Accounting Entry type (GL Transaction type) and vice versa.
OUWAMERP_AllowanceCode	Sync Invoice	Maps the Enterprise Resource Planning system Allowance Code to the Integration Allowance Code to determine where to map the corresponding Enterprise Resource Planning system allowance amount to the correct Oracle Utilities Work and Asset Management specific allowance amount fields (Example: overrideDiscountAmount).
OUWAMERP_AssetClassificationCode	Sync Stock Item	Maps the Enterprise Resource Planning system Asset Classification Code to the Oracle Utilities Work and Asset Management Stock Category and vice versa.
OUWAMERP_AutoPayFlag	Sync Supplier Party Storeroom	Maps the Enterprise Resource Planning system Payment Method Code to the Oracle Utilities Work and Asset Management Auto Pay Flag and vice versa.
OUWAMERP_BinType	Sync Storeroom Item	Maps the Enterprise Resource Planning system Payment Method Code to the Oracle Utilities Work and Asset Management Auto Pay Flag and vice versa.
OUWAMERP_BlanketContractStatusCode	Sync Blanket Contract	Maps the Enterprise Resource Planning system Blanket Contract Status to the Oracle Utilities Work and Asset Management Blanket Contract Status Code and vice versa.
OUWAMERP_BlanketContractLineStatusCode	Sync Blanket Contract	Maps the Enterprise Resource Planning system Blanket Contract Line Status to the Oracle Utilities Work and Asset Management Blanket Contract Line Status Code and vice versa.
OUWAMERP_Buyer	Sync Requisition Sync Purchase Order Sync Invoice	Maps Enterprise Resource Planning system Buyer to the Oracle Utilities Work and Asset Management Buyer and vice versa.
OUWAMERP_ChargeCode	Sync Invoice	Maps the Enterprise Resource Planning system Charge Code to the Integration Charge Code to determine where to map the corresponding Enterprise Resource Planning system charge amount to the correct Oracle Utilities Work and Asset Management specific charge amount fields (Example: freightAmount).

DVM	Integration Points	Description
OUWAMERP_ChartOfAccountsStatus	Sync Chart of Accounts	Maps the Enterprise Resource Planning system Chart of Accounts status to the Oracle Utilities Work and Asset Management Cost Center status and vice versa
OUWAMERP_CheckType	Sync Invoice Payment	Maps Enterprise Resource Planning system Check Type to Oracle Utilities Work and Asset Management Check Type and vice versa.
OUWAMERP_CommodityCategory	Sync Item	Maps Enterprise Resource Planning system Commodity Category to the Oracle Utilities Work and Asset Management Commodity Category and vice versa.
OUWAMERP_CommodityName	Sync Item	Maps Enterprise Resource Planning system Commodity Name to the Oracle Utilities Work and Asset Management Commodity Name and vice versa.
OUWAMERP_CommodityType	Sync Item	Maps Enterprise Resource Planning system Commodity Type to the Oracle Utilities Work and Asset Management Commodity Type and vice versa. Maps Enterprise Resource
OUWAMERP_Composition	Sync Item	Maps Enterprise Resource Planning system Composition to the Oracle Utilities Work and Asset Management Composition and vice versa.
OUWAMERP_Country	Sync Supplier Party Sync Worker Sync Blanket Contract Sync Purchase Requisition Sync Purchase Order	Maps Enterprise Resource Planning system Country to Oracle Utilities Work and Asset Management Country and vice versa.
OUWAMERP_CurrencyCode	Sync Accounting Entry Sync Supplier Party Sync Purchase Requisition Sync Purchase Order	Maps the Enterprise Resource Planning system currency code to the Oracle Utilities Work and Asset Management currency code and vice versa.
OUWAMERP_FOB	Sync Supplier Party Sync Blanket Contract Sync Purchase Order	Maps Enterprise Resource Planning system FOB code to Oracle Utilities Work and Asset Management FOB code and vice versa.
OUWAMERP_HazardousFlag	Sync Item	Maps Enterprise Resource Planning system Hazardous flag to Oracle Utilities Work and Asset Management Hazardous flag and vice versa.
OUWAMERP_HazardousType	Sync Item	Maps Enterprise Resource Planning system Hazardous Code to Oracle Utilities Work and Asset Management Hazardous Type and vice versa.
OUWAMERP_InventoryAssetFlag	Sync Item	Maps Enterprise Resource Planning system Inventory Asset Flag to Oracle Utilities Work and Asset Management Capital Spare Flag and vice versa.
OUWAMERP_InvoiceAutoPayIndicator	Sync Invoice	ERP Invoice Auto Pay Indicator to WAM Invoice Auto Pay Indicator
OUWAMERP_InvoiceItemType	Sync Invoice	ERP Invoice Item Type to WAM Invoice Item Type. The invoice line items are cost Differently and some possible Item cost types are Credit, Freight, Normal and , Extra Cost.
OUWAMERP_InvoiceLineStatusCode	Sync Invoice	Maps Enterprise Resource Planning system Invoice Line Status Code to Oracle Utilities Work and Asset Management Invoice Line Status Code and vice versa.

DVM	Integration Points	Description
OUWAMERP_InvoiceStatusCode	Sync Invoice	Maps Enterprise Resource Planning system Invoice Status Code to Oracle Utilities Work and Asset Management Invoice Line Status Code and vice versa.
OUWAMERP_ItemType	Sync Requisition Sync Purchase Order	Maps Enterprise Resource Planning system Hazardous Code to Oracle Utilities Work and Asset Management Hazardous Type and vice versa.
OUWAMERP_JobCode	Sync Worker	Maps Enterprise Resource Planning system Job code to combination of Oracle Utilities Work and Asset Management Job code and Principal craft and vice versa.
OUWAMERP_JournalSourceCode	Sync Accounting Entry	Maps the Enterprise Resource Planning system Journal Source Code to the Integration Journal Source Code to determine where to map the Enterprise Resource Planning system Ledger Identification Id to the correct Oracle Utilities Work and Asset Management specific ledger id (invoiceLineId or materialIssueLineId).
OUWAMERP_LocationId	Sync Requisition Sync Purchase Order Sync Material Request	Maps Enterprise Resource Planning system Job code to combination of Oracle Utilities Work and Asset Management Job code and Principal craft and vice versa.
OUWAMERP_ManufacturerCode		Convert ERP Manufacturer Code to WAM Manufacturer Code
OUWAMERP_MaterialRequestStatusCode	Sync Material Request	Maps Enterprise Resource Planning system Material Request Status Code to Oracle Utilities Work and Asset Management Material Request Status Code and vice versa.
OUWAMERP_OrganizationUnitID	Sync Supplier Party Sync Worker	Maps Enterprise Resource Planning system Organization unit ID to Oracle Utilities Work and Asset Management organization unit ID and vice versa
OUWAMERP_PaymentTerm	Sync Supplier Party Sync Blanket Contract Sync Purchase Order	Maps Enterprise Resource Planning system payment term to Oracle Utilities Work and Asset Management payment term and vice versa.
OUWAMERP_PhoneType	Sync Supplier Party Sync Worker	Maps Enterprise Resource Planning system Phone type to Oracle Utilities Work and Asset Management phone type and vice versa.
OUWAMERP_PmntRemittanceAllowedFlag	Sync Supplier Party	Maps Enterprise Resource Planning system payment remittance allowed flag to Oracle Utilities Work and Asset Management Pay To Flag and vice versa.
OUWAMERP_POLineStatusCode	Sync Purchase Order	Maps Enterprise Resource Planning system Purchase Order Line Status Code to Oracle Utilities Work and Asset Management Purchase Order Line Status Code and vice versa.
OUWAMERP_POStatusCode	Sync Purchase Order	Maps Enterprise Resource Planning system Purchase Order Status Code to Oracle Utilities Work and Asset Management Purchase Order Status Code and vice versa.
OUWAMERP_PurchasingEnabledFlag	Sync Supplier Party	Maps Enterprise Resource Planning system purchasing enabled flag to Oracle Utilities Work and Asset Management purchasing enabled flag and vice versa.
OUWAMERP_State	Sync Supplier Party Sync Worker Sync Blanket Contract Sync Purchase Requisition Sync Purchase Order	Maps Enterprise Resource Planning system State to Oracle Utilities Work and Asset Management State and vice versa.

DVM	Integration Points	Description
OUWAMERP_SupplierPartyLocStatus	Sync Supplier Party	Maps Enterprise Resource Planning system supplier party location status to Oracle Utilities Work and Asset Management supplier party (Vendor) location status and vice versa.
OUWAMERP_TaxType	Sync Purchase Order Sync Invoice	Maps Enterprise Resource Planning tax type to Oracle Utilities Work and Asset Management (OUWAM) tax type. Example: City or State Tax Type. Tax type is defined as a characteristic type in OUWAM.
OUWAMERP_TaxTypeValue	Sync Purchase Order Sync Invoice	Maps Enterprise Resource Planning tax type value to Oracle Utilities Work and Asset Management tax type value. Example: SF City Tax or CA State Tax. Tax type value is defined as a characteristic type value in OUWAM.
OUWAMERP_UsageExpenseCode	Sync Item	Maps Enterprise Resource Planning system Usage Expense Code to Oracle Utilities Work t and Asse Management Usage Expense Code and vice versa.
OUWAMERP_WorkerStatus	Sync Worker	Maps Enterprise Resource Planning system Worker status to Oracle Utilities Work and Asset Management worker status and vice versa.
OUWAMERP_WorkerType	Sync Worker	Maps Enterprise Resource Planning system Worker type to Oracle Utilities Work and Asset Management worker type and vice versa.