

# Oracle Fusion Product Hub Web Services

Details about certain commonly used web services

ORACLE WHITE PAPER



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## Introduction

This white paper is intended to provide details about the public business object Simple Object Access Protocol (SOAP) services supported by Oracle Fusion Product Hub. The details include the internal names of the web services, operation names, sample payloads and so on.

This white paper also provides:

- » A general overview and characteristics of web services
- » A summary about the architecture of Oracle Fusion Applications web services
- » Instructions to look up the public external web services in the Oracle Enterprise Repository (OER).

## About web services

A web service is a program that can be accessed remotely using different standards-based languages. What this program can do (that is, the functionality it implements) is described in a standard vocabulary.

Major benefits of web services include:

- » Interoperability among distributed applications that span diverse hardware and software platforms
- » Easy, widespread access to applications through firewalls using web protocols
- » A cross-platform, cross-language data model (XML) that facilitates developing heterogeneous distributed applications


Web services are characterized by three factors:

- » What they do (the business functionality they expose)
- » Where they are (the web site that exposes that functionality)
- » How they can be accessed (the set of published interfaces necessary to use the exposed functionality)

Web services rely on XML-based and other industry standards:

- » •Extensible Markup Language (XML): A data format that allows uniform communication between the consumers of web services and the providers of web services.
- » •XML schema: A framework that describes XML vocabularies used in business transactions.
- » •Simple Object Access Protocol (SOAP): A protocol for exchanging structured information in the implementation of web services.
- » •Web Services Description Language (WSDL): An XML-based language providing a model for describing SOAP-based web services.
- » •WS-Policy: The WS-Policy framework provides a flexible and extensible grammar for describing the capabilities, requirements, and general characteristics of web services using policies.

In summary, web services are loosely coupled, distributed environments that allow companies to integrate heterogeneous applications within the enterprise or expose business functions to their customers and partners over the Internet. Because you access web services using standard web protocols such as XML and HTTP, the diverse



and heterogeneous applications on the web (which typically already understand XML and HTTP) can automatically access web services and communicate with each other.

## Oracle Fusion Applications web services

Oracle Fusion Applications provides web services as one of many mechanisms to integrate with and extend Oracle Fusion Applications in Oracle Applications Cloud Services. The web services are typically based on business objects and allow the caller to perform operations on the business objects.

### Service Data Objects

The business object, which the service implements, is composed of a hierarchy of service data objects, also known as Oracle Application Development Framework (ADF) service data objects. Each service data object is a logical entity that contains a collection of attributes; these attributes are referred to as service data object attributes.

As an example, the Item Service is defined on the Item business object. The Item business object is comprised of many service data objects such as Item Revisions, Item Catalog Category and Item Supplier.

### The Service Interface

The Service interface is defined in three artifacts:

- » **Service WSDL.** The WSDL contains the standard WSDL elements and annotations that describe the service metadata, display name as well as service, operation as well as operation payload elements and
- » **Service XSD (XML Schema Definition).** The request and response payload types are defined in a separate XSD with the same name as the WSDL but with the .xsd prefix
- » **SDO XSDs.** Each service data object has one XSD that defines the entity as a complex type, and the attributes are elements in the complex type. The XSD additionally includes annotations for the entity display name as well as entity and attribute descriptions.

## Web service Details in OER

The Oracle Enterprise Repository is a hosted repository of assets that describe artifacts in Oracle Fusion Applications for several base releases. In addition to the public external SOAP services that Oracle partners and customers can invoke for a particular release using Oracle Fusion Applications in Oracle Applications Cloud Services, OER includes assets that are applicable only to on-premises customers.

### Navigation tips

- » URL: <https://fusionappsoer.oracle.com>
- » Use the regional panel loaded with search criteria.
- » Specify the type as ADF Service.
- » You can use version filter if you want to search for services applicable for specific versions such as 11.1.8.0.0 or 11.1.9.0.0; default is All versions.
- » You can also provide search string (ex. Item catalog) and perform search
- » You can additional keywords/filter criteria for a narrowed search results.
- » Select the required service row in the results list and find the details about the selected service.

## Details

- » Overview tab provides a description of the service and information about the service life cycle and compatibility.
- » Detail Tab contains information about the operations, tokenized service WSDL, and link to the service abstract WSDL:
- » Taxonomy Tab includes the Asset Type, Relationships, Keywords, Product Families, and Logical Business Objects metadata.
- » Documentation Tab includes the Service Invocation and Reference XSD sections. This tab supports an important feature which lets you download a cookbook; the cookbooks is pdf documentation containing all the information about the specific ADF Service asset and service invocation information
- » The Reference XSD is a list of service XSD and the service data object XSDs with links to the XSD contents. For example, the links in the following Referenced XSD window view are provided for the Opportunity Service. When viewing the Reference XSD, click the File Name links to view the XML schema definition for the service operation payloads and service data object.
- » Privileges Tab contains information about the privileges, also known as entitlements, to invoke the service operations, and the duty roles which have the privilege granted to them.

## Fusion Product Hub web services

This section provides details about some key web services supported by Fusion Product Hub.

### How To Access The Details In This Document

If you want to get the details of a particular service and it's operation, use the Table of Contents; For example, to know about createItem operation of Item web service, click on the corresponding item in the Table of Contents.

This document also provides the details in the context of certain common business use cases. If your use case matches with any of the listed use cases, then click on the respective link to go to the particular section. For example, if you click on create Style Item row in the table, you can go to the section containing the sample payload for creating Style Item

## Common Business Scenarios

The following sections discuss few commonly used use cases and steps to achieve these use case using Services. Links are provided on the service names and operation names; clicking on these links will take you to the respective sections that provide necessary details and a sample payload.

### BUSINESS SCENARIO: ITEM BATCH PROCESSING

Scenario	Steps	Service Name	Operation Name
I want to import a large batch of items	Create a batch	ItemBatchMaintenanceService	<a href="#">CreateBatch</a>
	Update the batch parameters		<a href="#">updateBatch</a>
	Populate the interface table with item records		<a href="#">processItemInterface</a>
	Pre process to check the validation or data quality errors		<a href="#">preProcessBatchData</a>
	Query the batch		<a href="#">findBatch</a>

	Run the batch		<a href="#">submitBatchData</a>
	Check the status of the batch run		<a href="#">getRequestStatus</a>
Delete interface records	Specify the transaction id and perform delete		<a href="#">processItemInterface</a>

#### BUSINESS SCENARIO: ITEM CREATE AND MANAGEMENT 1 – STRUCTURES AND PACKS

Scenario	Steps	Service Name	Operation Name
I want to create item and create structure	Quickly create a single item by providing values for minimum number of attributes	<a href="#">Item Service V2</a>	<a href="#">createItem</a>
	Create a structure for the item	<a href="#">Structure Service Version 2</a>	<a href="#">createStructure</a>
I want to query the pack structure for a given item	Query pack structure	<a href="#">Structure Service Version 2</a>	findPack

#### BUSINESS SCENARIO: ITEM CREATE AND MANAGEMENT 2 – UPDATE EFF

Scenario	Steps	Service Name	Operation Name
I want to create an item with values specified for user-defined attributes (EFF) and then update the item attributes	Create an item by providing values for EFF attributes.	<a href="#">Item Service V2</a>	<a href="#">createItem</a>
	Update item EFF	<a href="#">Item Service V2</a>	<a href="#">updateItem</a>

#### BUSINESS SCENARIO: ITEM CREATE AND MANAGEMENT 3

Scenario	Steps	Service Name	Operation Name
I want to create an item by copying another item	create a single item by copying the values from another item	<a href="#">Item Service V2</a>	<a href="#">createItem</a>
I want to create multiple items	Create two items	<a href="#">Item Service V2</a>	<a href="#">processItem</a>
I want to query an item.	Search for an item using item number	<a href="#">Item Service V2</a>	<a href="#">findItem</a>
I want to create an item by applying an item template	Create an item – apply template	<a href="#">Item Service V2</a>	<a href="#">createItem</a>
I want to create an	Create Item and Revision B	<a href="#">Item Service V2</a>	<a href="#">createItem</a>

item and a new future effective revision in addition to the revision created by default	effective on a future date		
-----------------------------------------------------------------------------------------	----------------------------	--	--

#### BUSINESS SCENARIO: ITEM CREATE AND MANAGEMENT 4 – UPDATE AND ORGANIZATION ASSIGNMENT USING MERGEITEM

Scenario	Steps	Service Name	Operation Name
I have some item data. I am not sure if there is an item exists now in PDH similar to this; If exists, update the item with the data that I supplying now; if not, create new item.	Create/Update	<a href="#">Item Service V2</a>	<a href="#">mergeItem</a>
I want to assign an item to a child inventory organization	assign	<a href="#">Item Service V2</a>	<a href="#">Sample Payload Org assignment:</a>

#### BUSINESS SCENARIO: ITEM CREATE AND MANAGEMENT 5

Scenario	Steps	Service Name	Operation Name
I want to create a Style Item, create variants and associate Supplier with the item	Create Style Item	<a href="#">Item Service V2</a>	<a href="#">createItem</a>
	Create SKU item	<a href="#">Item Service V2</a>	<a href="#">createItem</a>
I want to create an item and associate a supplier organization.	Create Supplier Association	<a href="#">Item Service V2</a>	<a href="#">createItem</a>

#### BUSINESS SCENARIO: ITEM CREATE AND ADD ATTACHMENTS

Scenario	Steps	Service Name	Operation Name
I want to create an item and add an URL attachment	Create item and add URL attachment	<a href="#">Item Service V2</a>	<a href="#">Create Item and add Attachment of Type URL</a>
I want to create an item and add an UCM (WC) file attachment	Create item and add UCM file attachment	<a href="#">Item Service V2</a>	<a href="#">Create Item and add Attachment from WCC (UCM)</a>
I want to create an item revision and add a file attachment to the revision.	Create item, item revision and add attachment to the revision	<a href="#">Item Service V2</a>	<a href="#">Create Item Revision and add</a>





			<a href="#">Attachment of Type File</a>
--	--	--	-----------------------------------------

#### BUSINESS SCENARIO: SEARCH FOR ITEMS

Scenario	Steps	Service Name	Operation Name
I want to search for an item based on EFF attribute values	Search for items and also use EFF attributes in the child criteria as filter	<a href="#">Item Service V2</a>	<a href="#">Sample Payload – EFF criteria</a>
I want to search items using keywords		<a href="#">Item Service V2</a>	<a href="#">Sample Payload keyword search:</a>
I want to search for all the items.		<a href="#">Item Service V2</a>	<a href="#">Sample Payload – find all items:</a>
I want to search for items by specifying Revision as one of the criteria.		<a href="#">Item Service V2</a>	<a href="#">Sample Payload – find items by revision:</a>

#### BUSINESS SCENARIO: DELETING ITEM

Scenario	Steps	Service Name	Operation Name
I want to delete an item	Create Delete Group	Not supported by service	Not supported by service
	Add item to Delete group	<a href="#">Item Service V2</a>	<a href="#">deleteItem</a>
	Run the delete group	Not supported by service	Not supported by service

### Web service: ItemBatchMaintenanceService

This service deals with collection of items and related information, such as supplier feed batch or legacy application consolidation batch, that is staged for import into a master product information repository.

#### Internal Name:

oracle.apps.scm.productHub.itemImport.batches.itemBatchMaintenanceService.ItemBatchMaintenanceService

Service Path: [https://<scm\\_server:PortNumber>/egilItemImport/ItemBatchMaintenanceService?WSDL](https://<scm_server:PortNumber>/egilItemImport/ItemBatchMaintenanceService?WSDL)

#### Abstract WSDL URL:

rep://R9\_FUSIONAPPS\_HOSTEDREP/oracle/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/ItemBatchMaintenanceService.wsdl

Few of the key operations in the web service, their descriptions and sample payloads:

### **createBatch**

A create service operation in the Oracle Fusion Product Hub application for a single Batch object.

#### Sample Payload

A note on the sample payloads (this note is applicable for all the sample payloads provided in this document):

The sample payloads provided in this document does not include the header containing the security information. These public web services, in general, are secured services; so, you have to add appropriate security credentials. Here is a sample header:

```
<soap:Header>

<fmw-context xmlns="http://xmlns.oracle.com/fmw/context/1.0"/> <wsse:Security
soap:mustUnderstand="1" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd"> <wsse:UsernameToken><wsse:Username>UserName</wsse:Username>

<wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-
profile-1.0#PasswordText">pwd</wsse:Password>

</wsse:UsernameToken>

</wsse:Security>

</soap:Header>
```

The following sample payload creates a batch with name Batch\_VendorXYZ\_30MAR15 for the spoke system named TCA.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

  <soap:Body>


    <ns1:createBatch
xmlns:ns1="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/types/"
">

      <ns1:batch
xmlns:ns2="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/batchServiceV2/">

        <ns2:BatchName>Batch_VendorXYZ_30MAR15</ns2:BatchName>

        <ns2:BatchStatusValue>Active</ns2:BatchStatusValue>

        <ns2:SpokeSystemName>TCA</ns2:SpokeSystemName>
```



```

        <ns2:AssignedTo>USER1</ns2:AssignedTo>
        <ns2:DefaultOrganizationCode>V1</ns2:DefaultOrganizationCode>
    </ns1:batch>
</ns1:createBatch>
</soap:Body>
</soap:Envelope>

```

## updateBatch

This operation is used to update a single Batch object.

### Sample Payload

This payload updates the following batch parameters of batch # 2584:

Schedule Date and time = 2015-04-04T17:30:00.000;

Version Policy: Bypass Draft


Version Start Date and time: 2015-04-03T17:30:00.000

Pack Update: Changed Components only

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:updateBatch
xmlns:ns1="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/types/"
">
      <ns1:batch
xmlns:ns2="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/batchServiceV2/">
        <ns2:BatchNumber>2584</ns2:BatchNumber>
        <ns2:BatchOption>
          <ns2:ImportScheduleValue>Specify date and time</ns2:ImportScheduleValue>
          <ns2:ScheduleDateTime>2015-04-04T17:30:00.000</ns2:ScheduleDateTime>
          <ns2:VersionPolicyValue>Bypass draft</ns2:VersionPolicyValue>
          <ns2:VersionStartDateTime>2015-04-03T17:30:00.000</ns2:VersionStartDateTime>
          <ns2:PackUpdateValue>Changed components only</ns2:PackUpdateValue>
        </ns2:BatchOption>
      </ns1:batch>
    </ns1:updateBatch>
  </soap:Body>
</soap:Envelope>

```



```

        </ns2:BatchOption>
    </ns1:batch>
</ns1:updateBatch>
</soap:Body>
</soap:Envelope>

```

## processItemInterface

The bulk load service operation that performs operations on the item interface. The bulk operations include create, delete and update of the interface records.


### Sample Payload

This payload inserts a create (item) record into item interface table.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:processItemInterface
xmlns:ns1="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/types/"
">
      <ns1:changeOperation>Create</ns1:changeOperation>
      <ns1:itemInterface
xmlns:ns2="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemInterfaceService/">
        <ns2:TransactionType>CREATE</ns2:TransactionType>
        <ns2:BatchName> Batch_VendorXYZ_30MAR15</ns2:BatchName>
        <ns2:ProcessStatus>0</ns2:ProcessStatus>
        <ns2:SpokeSystemItem>XYZ_PART_2584</ns2:SpokeSystemItem>
        <ns2:SpokeSystemItemDescription>Motor Assembly -Squirrel cage
motor</ns2:SpokeSystemItemDescription>
        <ns2:OrganizationCode>V1</ns2:OrganizationCode>
        <ns2:ItemClass>Root Item Class</ns2:ItemClass>
      </ns1:itemInterface>
      <ns1:processControl xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">

```



```

        <ns2:returnMode></ns2:returnMode>
        <ns2:exceptionReturnMode></ns2:exceptionReturnMode>
        <ns2:partialFailureAllowed></ns2:partialFailureAllowed>
    </ns1:processControl>
</ns1:processItemInterface>
</soap:Body>
</soap:Envelope>

```

#### Sample Payload

This payload deletes the records corresponding the transaction id 1000000123456 from item interface table.

```


<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:processItemInterface
xmlns:ns1="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/types/"
">
      <ns1:changeOperation>Delete</ns1:changeOperation>
      <ns1:itemInterface
xmlns:ns2="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemInterfaceService/">
        <ns2:ItemTransactionId>1000000123456</ns2:ItemTransactionId>
        </ns1:itemInterface>
        <ns1:processControl
xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
          <ns2:partialFailureAllowed>false</ns2:partialFailureAllowed>
        </ns1:processControl>
      </ns1:processItemInterface>
    </soap:Body>
  </soap:Envelope>

```

#### **preProcessBatchData**

This operation submits an ESS program to pre-process the interface records of a batch.

#### Sample Payload



This payload specifies not to confirm unmatched items as New items, not to confirm single matches and submits a request to preprocess the batch data.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:preprocessBatchData
xmlns:ns1="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/types/"
">
      <ns1:BatchNumber>2584</ns1:BatchNumber>
      <ns1:ConfirmSingleMatch>false</ns1:ConfirmSingleMatch>
      <ns1:ConfirmUnmatchedNew>false</ns1:ConfirmUnmatchedNew>
    </ns1:preprocessBatchData>
  </soap:Body>
</soap:Envelope>
```

## findBatch

A find service operation is used to query a Batch.

### Sample Payload

The below payload queries for a batch with number 2584

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:findBatch
xmlns:ns1="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/types/"
">
      <ns1:findCriteria xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
        <ns2:fetchStart>0</ns2:fetchStart>
        <ns2:fetchSize>-1</ns2:fetchSize>
        <ns2:filter>
          <ns2:conjunction></ns2:conjunction>
          <ns2:group>
            <ns2:conjunction></ns2:conjunction>
            <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
            <ns2:item>
```



```

        <ns2:conjunction></ns2:conjunction>

        <ns2:upperCaseCompare>false</ns2:upperCaseCompare>

        <ns2:attribute>BatchNumber</ns2:attribute>

        <ns2:operator>=</ns2:operator>

        <ns2:value>2584</ns2:value>

    </ns2:item>

</ns2:group>

</ns2:filter>

    <ns2:excludeAttribute>false</ns2:excludeAttribute>

</ns1:findCriteria>

    <ns1:findControl xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">

        <ns2:retrieveAllTranslations>false</ns2:retrieveAllTranslations>

    </ns1:findControl>

</ns1:findBatch>

</soap:Body>

</soap:Envelope>

```

### **submitBatchData**

A service operation that submits an ESS program to process the interface records of a batch.

#### Sample Payload

This payload submits a request to run the batch having batch number 2584

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

    <soap:Body>

        <ns1:submitBatchData

xmlns:ns1="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/types/"
">

            <ns1:BatchNumber>2584</ns1:BatchNumber>

        </ns1:submitBatchData>

    </soap:Body>

</soap:Envelope>

```



## getRequestStatus

This service operation is used to retrieve the current status of the ESS request.

### Sample Payload

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getRequestStatus
      xmlns:ns1="http://xmlns.oracle.com/apps/scm/productHub/itemImport/batches/itemBatchMaintenanceService/types/"
      ">
      <ns1:findCriteria xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
        <ns2:fetchStart>0</ns2:fetchStart>
        <ns2:fetchSize>200</ns2:fetchSize>
        <ns2:filter>
          <ns2:conjunction></ns2:conjunction>
        </ns2:filter>
        <ns2:sortOrder></ns2:sortOrder>
        <ns2:excludeAttribute>>false</ns2:excludeAttribute>
      </ns1:findCriteria>
      <ns1:BINDREQUESTID>27492</ns1:BINDREQUESTID>
      <ns1:findControl xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
        <ns2:retrieveAllTranslations>true</ns2:retrieveAllTranslations>
      </ns1:findControl>
    </ns1:getRequestStatus>
  </soap:Body>
```



</soap:Envelope>

## Other Operations

### THE OTHER OPERATIONS SUPPORTED BY ITEM BATCH MAINTENANCE SERVICE

Operation Name	Description
<a href="#">purgeBatchData</a>	Purges the records of the specific item batch.
<a href="#">deleteBatch</a>	Deletes a batch
<a href="#">findItemSupplierInterface</a>	Queries item supplier interface records
<a href="#">processItemSupplierInterface</a>	A bulk load service operation that performs operations on the item supplier interface. The bulk operations include create, delete and update of the interface records.
<a href="#">findItemCategoryInterface</a>	Queries Item Category interface records
<a href="#">processItemCategoryInterface</a>	A bulk load service operation that performs operations on the item category interface. The bulk operations include create, delete and update of the interface records.
<a href="#">findItemInterface</a>	A find service operation for the item interface entity. The find item interface operation will return item, item EFFs, item DFFs, item suppliers associations, item organizations associations, item revisions, item revision details, item versions and item version details.
<a href="#">findItemRevisionInterface</a>	Queries item revision interface entity. The find item revision interface operation will return item revision details.
<a href="#">processItemRevisionInterface</a>	A bulk load service operation that performs operations on the item revision interface. The bulk operations include create, delete and update of the interface records.
<a href="#">findRelatedItemInterface</a>	Queries related Item interface records
<a href="#">processRelatedItemInterface</a>	The bulk load service operation that performs operations on the related item interface. The bulk operations include create, delete and update of the interface records.
<a href="#">findStyleVariantAttrVsInterface</a>	A find service operation for the style variant attribute value set interface entity.
<a href="#">processStyleVariantAttrVsInterface</a>	The bulk load service operation that performs operations on the style variant attribute valueset interface. The bulk operations include create, delete and update of the interface records.
<a href="#">findTradingPartnerItemInterface</a>	Queries TPI interface records
<a href="#">processTradingPartnerItemInterface</a>	The bulk load service operation that performs operations on TPI interface. The bulk operations include create, delete and update of the interface records
<a href="#">findComponentInterface</a>	Queries Structure Components interface records

Operation Name	Description
<a href="#">processComponentInterface</a>	The bulk load service operation that performs operations on Components interface. The bulk operations include create, delete and update of the interface records
<a href="#">findGTINCrossReferenceInterface</a>	Queries GTIN relationship interface records
<a href="#">processGTINCrossReferenceInterface</a>	The bulk load service operation that performs operations on GTIN interface. The bulk operations include create, delete and update of the interface records
<a href="#">findItemCrossReferenceInterface</a>	Queries Cross-Reference interface records
<a href="#">processItemCrossReferenceInterface</a>	The bulk load service operation that performs operations on the Cross reference interface. The bulk operations include create, delete and update of the interface records
<a href="#">findItemExtensibleAttributeInterface</a>	Queries Item EFF interface records
<a href="#">processItemExtensibleAttributeInterfaces</a>	The bulk load service operation that performs operations on Item EFF interface. The bulk operations include create, delete and update of the fields
<a href="#">findItemExtensibleTranslatableAttributeInterface</a>	Queries Item Translatable EFF interface records
<a href="#">processItemExtensibleTranslatableAttributeInterfaces</a>	The bulk load service operation that performs operations on Item Translatable EFF interface. The bulk operations include create, delete and update of the fields
<a href="#">findItemRevisionExtensibleAttributeInterface</a>	Queries Item Revision EFF interface records
<a href="#">processItemRevisionExtensibleAttributeInterfaces</a>	The bulk load service operation that performs operations on Item Revision EFF interface. The bulk operations include create, delete and update of the fields
<a href="#">findItemRevisionExtensibleTranslatableAttributeInterface</a>	Queries Item Revision Translatable EFF interface records
<a href="#">processItemRevisionExtensibleTranslatableAttributeInterfaces</a>	The bulk load service operation that performs operations on Item Revision Translatable EFF interface. The bulk operations include create, delete and update of the fields
<a href="#">findItemSupplierExtensibleAttributesInterface</a>	Queries Item Supplier Translatable EFF interface records
<a href="#">processItemSupplierExtensibleAttributesInterfaces</a>	The bulk load service operation that performs operations on Item Supplier Translatable EFF interface. The bulk operations include create, delete and update of the fields
<a href="#">findItemSupplierExtensibleTranslatableAttributesInterface</a>	Queries Item Supplier Translatable EFF interface records
<a href="#">processItemSupplierExtensibleTranslatableAttributesInterfaces</a>	The bulk load service operation that performs operations on Item Supplier Translatable EFF interface. The bulk operations include create, delete and update of the fields
<a href="#">findPackComponentInterface</a>	Queries Pack Components interface records
<a href="#">processPackComponentInterface</a>	The bulk load service operation that performs operations on Pack components interface. The bulk operations include create, delete and update of the interface records
<a href="#">findPackInterface</a>	Queries Pack Structure interface records
<a href="#">processPackInterface</a>	The bulk load service operation that performs operations on Pack Structure interface. The bulk operations include create, delete and update of the interface records
<a href="#">findStructureInterface</a>	Queries Structure interface records
<a href="#">processStructureInterface</a>	The bulk load service operation that performs operations on Structure interface. The bulk operations include create, delete and update of the interface records
<a href="#">findTradingPartnerItemRelationshipInterface</a>	Queries TPI Relationship interface records
<a href="#">processTradingPartnerItemRelationshipInterface</a>	The bulk load service operation that performs operations on TPI relationship interface. The bulk operations include create, delete and update of the interface records



Operation Name	Description
<code>findItemInterfaceTranslation</code>	A find service operation for the item interface translation entity. The find item translation interface operation will return item translation details.
<code>processItemInterfaceTranslation</code>	The bulk load service operation that performs operations on the item translation interface. The bulk operations include create, delete and update of the interface records

## Web service: Item Service Version 2

This service supports creation and management of Items.

Internal Name: oracle.apps.scm.productModel.items.itemServiceV2.ItemService

Service Path: https://<scm\_server:PortNumber>/egplItems/ItemServiceV2?WSDL

Abstract WSDL URL:

rep://R9\_FUSIONAPPS\_HOSTEDREP/oracle/apps/scm/productModel/items/itemServiceV2/ItemService.wsdl

Few of the key operations of the web service, their descriptions and sample payloads:

### createItem

This service operation is to create the entry for a single Item object. The create item operation will create standard items, Style Item, SKU Items and Versioned items, Item Organization assignment, item EFFs, item DFFs, item suppliers associations, item organizations associations, item revisions, item revision details, item versions and item version details. New Item Request will be supported for one new item request per item and adding item to an existing new item request is not supported. In addition adding item to a new item request for items created in an item class that does not require new item requests is not supported.

#### Create Single Item

#### Sample Payload

This payload creates an item Compressor10HP\_RP4

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:ns7="http://xmlns.oracle.com/oracle/apps/scm/productCatalogManagement/items/protectedModel/">
```

```

<ns1:createItem>
  <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
    <ns2:OrganizationCode>V1</ns2:OrganizationCode>
    <ns2:PrimaryUOMValue>Each</ns2:PrimaryUOMValue>
    <ns2:ItemNumber>Compressor10HP_RP4</ns2:ItemNumber>
    <ns2:ItemStatusValue>Active</ns2:ItemStatusValue>
    <ns2:ItemDescription>Reciprocating Compressor 10HP</ns2:ItemDescription>
    <ns2:ItemClass>Root Item Class</ns2:ItemClass>
    <ns2:LifecyclePhaseValue>Design</ns2:LifecyclePhaseValue>
    <ns2:UserItemTypeValue>Finished Good</ns2:UserItemTypeValue>
    <ns2:TransactionConversionValue>Item specific</ns2:TransactionConversionValue>
  </ns1:item>
</ns1:createItem>
</soap:Body>
</soap:Envelope>

```

### Create Item by specifying values for EFFs

You need to use appropriate tag names for the EFFs and xsi type values in the payload. You can use the following tips to get the right tag names:

- Refer to the respective schema definition file: You can download the XSDs using Manage Extensible Flexfields task; Navigation: Manage Extensible Flexfields > search for EGO\_ITEM\_EFF and select it > Use the action "Download Flexfield Archive"
- Sample XSD files are provided here:

(1) **j\_ItemCapacitorsDqPrivate.XSD**: (You can find this in the folder path:  
 \oracle\apps\scm\productCatalogManagement\advancedItems\flex\egolItemEff\item\categories)

This is the schema file for an Attribute Group Capacitor\_AG:

```

<?xml version = '1.0'?>
<xsd:schema
xmlns:ns0="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItem
Eff/item/contexts/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:sdoXML="commonj.sdo/xml"
xmlns:sdo="commonj.sdo"
targetNamespace="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/e
golItemEff/item/categories/"
xmlns="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/it
em/categories/" elementFormDefault="qualified">

```

```

<xsd:import schemaLocation="./contexts/ItemEFFBCapacitors_5FAGPrivate.xsd"
namespace="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolte
mEff/item/contexts"/>
<xsd:import schemaLocation="classpath:/xml/sdoXML.xsd" namespace="commonj.sdo/xml"/>
<xsd:import schemaLocation="classpath:/xml/sdoModel.xsd" namespace="commonj.sdo"/>
<xsd:include schemaLocation="j_ItemRootlccPrivate.xsd"/>
<xsd:complexType name="j_ItemCapacitorsDqPrivate">
  <xsd:annotation>
    <xsd:appinfo source="http://xmlns.oracle.com/adf/svc/metadata/">
      <key xmlns="http://xmlns.oracle.com/adf/svc/metadata/">
        <attribute>InventoryItemId</attribute>
        <attribute>OrganizationId</attribute>
      </key>
    </xsd:appinfo>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="j_ItemRootlccPrivate">
      <xsd:sequence>
        <xsd:element name="ItemEFFBCapacitors_5FAGPrivateVO"
type="ns0:ItemEFFBCapacitors_5FAGPrivate" minOccurs="0" sdoXML:dataType="sdo:DataObject"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:element name="j_ItemCapacitorsDqPrivate" type="j_ItemCapacitorsDqPrivate"/>
</xsd:schema>

```

(2) **ItemEFFBCapacitors\_5FAGPrivate.xsd**: (You can find this in the folder path:

\\oracle\apps\scm\productCatalogManagement\advancedItems\flex\egolte\item\contexts\

This schema file contains the details about the attributes of Capacitor Attribute group

```

<?xml version = '1.0'?>
<xsd:schema
xmlns:ns0="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advanced
Items/protectedModel/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://xmlns.oracle.com/apps/scm/productCatalogManagement/ad
vancedItems/flex/egoItemEff/item/contexts/"
xmlns="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItem
s/flex/egoItemEff/item/contexts/" elementFormDefault="qualified"><xsd:include
xml:id="ItemEFFBCapacitors_5FAGPrivate-xsd"
schemaLocation="ItemEFFBCapacitors_5FAGPrivate.xsd"/>
  <xsd:import schemaLocation="../..../protectedModel/ItemEffBase.xsd"
namespace="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advanced
Items/protectedModel"/>
  <xsd:complexType name="ItemEFFBCapacitors_5FAGPrivate">
    <xsd:annotation>
      <xsd:appinfo source="http://xmlns.oracle.com/adf/svc/metadata/">
        <key xmlns="http://xmlns.oracle.com/adf/svc/metadata/">
          <attribute>EffLineId</attribute>
        </key>
      </xsd:appinfo>
    </xsd:annotation>
    <xsd:complexContent>
      <xsd:extension base="ns0:ItemEffBase">
        <xsd:sequence>
          <xsd:element name="RaiseEvent" type="xsd:string"
minOccurs="0" nillable="true"/>

```

```

        <xsd:element name="IsPersistentAttributeUpdated"
type="xsd:boolean" minOccurs="0" nillable="true"/>
        <xsd:element name="IsAddedToChildEntitiesMap"
type="xsd:boolean" minOccurs="0" nillable="true"/>
        <xsd:element name="IsImportCase" type="xsd:boolean"
minOccurs="0" nillable="true"/>
        <xsd:element name="BulkloadRecCreated" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="_Capacitor_case_size"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Capacitor_case_size_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Capacitor_case_size"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Capacitor_case_size_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Capacitor_package_size"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Capacitor_package_size"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="Dielectric" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Dielectric" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="_Esr_type" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Esr_type" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="_Mount" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="_Mount_Display" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Mount" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Mount_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Temp_coefficient" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Temp_coefficient"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="u_CapacitanceUE" type="xsd:decimal"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_CapacitanceUE"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="CapacitanceUEUOM" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_CapacitanceUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_CapacitanceUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_CapacitanceUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="u_Esr_valueUE" type="xsd:decimal"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_Esr_valueUE"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Esr_valueUEUOM" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Esr_valueUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Esr_valueUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>

```

```

        <xsd:element name="RedLine_Esr_valueUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="u_Load_lifeUE" type="xsd:decimal"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_Load_lifeUE"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Load_lifeUEUOM" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Load_lifeUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Load_lifeUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Load_lifeUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="u_Maximum_temperatureUE"
type="xsd:decimal" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_Maximum_temperatureUE"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Maximum_temperatureUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Maximum_temperatureUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Maximum_temperatureUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element
name="RedLine_Maximum_temperatureUEUOM_Display" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="u_Mean_timeUE" type="xsd:decimal"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_Mean_timeUE"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Mean_timeUEUOM" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Mean_timeUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Mean_timeUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Mean_timeUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="u_Min_temperatureUE"
type="xsd:decimal" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_Min_temperatureUE"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Min_temperatureUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Min_temperatureUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Min_temperatureUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Min_temperatureUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="u_Ripple_currentUE" type="xsd:decimal"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_Ripple_currentUE"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Ripple_currentUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_Ripple_currentUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_Ripple_currentUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>

```

```

        <xsd:element name="RedLine_Ripple_currentUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="u_ToleranceUE" type="xsd:decimal"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_ToleranceUE"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_ToleranceUEUOM" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_ToleranceUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_ToleranceUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_ToleranceUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="u_VoltageUE" type="xsd:decimal"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLineu_VoltageUE" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="_VoltageUEUOM" type="xsd:string"
minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_VoltageUEUOM"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="_VoltageUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
        <xsd:element name="RedLine_VoltageUEUOM_Display"
type="xsd:string" minOccurs="0" nillable="true"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:element name="itemEFFBCapacitors_5FAGPrivate"
type="ItemEFFBCapacitors_5FAGPrivate"/>
</xsd:schema>

```

### Sample Payload

You can pick the required element type and tag names for attribute group and attributes from the above schema definition files. These names are used in the sample payload below.

The sample payload below creates an item "12172015-1" and specifies values for the EFF attributes such as Dielectric, Voltage etc.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:typ="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/
types/"
xmlns:item="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/"
xmlns:cat="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advanced
Items/flex/egoItemEff/itemSupplier/categories/"
xmlns:item1="http://xmlns.oracle.com/apps/scm/productModel/items/flex/itemRev
ision/"
xmlns:cat1="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advance
dItems/flex/egoItemEff/itemRevision/categories/"
xmlns:cat2="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advance
dItems/flex/egoItemEff/item/categories/"
xmlns:item2="http://xmlns.oracle.com/apps/scm/productModel/items/flex/item/"
xmlns:item3="http://xmlns.oracle.com/apps/scm/productModel/items/flex/itemGdf
/"
xmlns:ns12="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advance
dItems/flex/egoItemEff/item/categories/"

```



```

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ns0="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/
types/">
  <soapenv:Header/>
  <soapenv:Body>
    <typ:createItem>
      <typ:item>
        <item:OrganizationCode>V1</item:OrganizationCode>
        <item:ItemClass>Capacitors_DQ</item:ItemClass>
        <item:Template>Finished Goods</item:Template>
        <item:ItemNumber>12172015-1</item:ItemNumber>
        <item:ItemDescription>Capacitor_1217Series</item:ItemDescription>

        <item:ItemExtensibleFlexfieldCategoryCode>CapacitorsClass</item:ItemExtensibl
eFlexfieldCategoryCode>
        <item:ItemEffCategory xsi:type="ns12:j_ItemCapacitorsDqPrivate"
xmlns:ns13="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advance
dItems/flex/egoItemEff/item/contexts/">
          <ns12:ItemEFFBCapacitors_5FAGPrivateVO
xmlns:ns9="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advanced
Items/protectedModel/">
            <ns9:ContextCode>Capacitors_AG</ns9:ContextCode>
            <ns9:CategoryCode>Capacitors_DQ</ns9:CategoryCode>
            <ns13:_Dielectric>3.18</ns13:_Dielectric>
            <ns13:u_CapacitanceUE>88</ns13:u_CapacitanceUE>
            <ns13:_CapacitanceUEUOM>uF</ns13:_CapacitanceUEUOM>
            <ns13:u_ToleranceUE>5</ns13:u_ToleranceUE>
            <ns13:_ToleranceUEUOM>%</ns13:_ToleranceUEUOM>
            <ns13:u_VoltageUE>99000</ns13:u_VoltageUE>
            <ns13:_VoltageUEUOM>VLT</ns13:_VoltageUEUOM>
          </ns12:ItemEFFBCapacitors_5FAGPrivateVO>
        </item:ItemEffCategory>
      </typ:item>
    </typ:createItem>
  </soapenv:Body>
</soapenv:Envelope>

```

### Create item by copying another item


#### Sample Payload

This payload creates an item PlasmaTV2584\_XYZ by copying the values from an existing item PlasmaTV1234\_XYZ

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:createItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:ItemClass>Root Item Class</ns2:ItemClass>
        <ns2:ItemNumber>PlasmaTV2584_XYZ</ns2:ItemNumber>
        <ns2:ItemDescription>Description</ns2:ItemDescription>
        <ns2:CopyFromItemValue>PlasmaTV1234_XYZ</ns2:CopyFromItemValue>

```



```

<ns2:OrganizationCode>V1</ns2:OrganizationCode>
<ns2:CopyFromRevisionValue>A</ns2:CopyFromRevisionValue>

    </ns1:item>

</ns1:createItem>

</soap:Body>

</soap:Envelope>

```

### Create item by applying a template

#### Sample Payload:

This payload creates an item by applying Finished Goods template.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:createItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationCode>V1</ns2:OrganizationCode>
        <ns2:ItemClass>Root Item Class</ns2:ItemClass>
        <ns2:Template>Finished Goods</ns2:Template>
        <ns2:ItemNumber>Item_ABC_2584</ns2:ItemNumber>
        <ns2:ItemDescription>Pump Assembly 2584</ns2:ItemDescription>
      </ns1:item>
    </ns1:createItem>
  </soap:Body>
</soap:Envelope>

```

### Create Item and Revision

#### Sample Payload:

This payload creates an item and also a future revision B for the item.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:ns7="http://xmlns.oracle.com/oracle/apps/scm/productCatalogManagement/items/protectedModel/">

```



```

<ns1:createItem>
  <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
    <ns2:OrganizationCode>V1</ns2:OrganizationCode>
    <ns2:PrimaryUOMValue>Each</ns2:PrimaryUOMValue>
    <ns2:ItemNumber>NoteBook_NB2584</ns2:ItemNumber>
    <ns2:ItemStatusValue>Active</ns2:ItemStatusValue>
    <ns2:ItemDescription>Note Book Assembly N Series 2584</ns2:ItemDescription>
    <ns2:ItemClass>Root Item Class</ns2:ItemClass>
    <ns2:LifecyclePhaseValue>Design</ns2:LifecyclePhaseValue>
    <ns2:UserItemTypeValue>Finished Good</ns2:UserItemTypeValue>
    <ns2:TransactionConversionValue>Item specific</ns2:TransactionConversionValue>
  </ns1:item>
</ns1:createItem>
</soap:Body>
</soap:Envelope>

```

### Create Style Item

#### Sample Payload:

This payload creates a style item named Shirt\_Cotton (item # Shirt\_SC2584)

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:ns7="http://xmlns.oracle.com/oracle/apps/scm/productCatalogManagement/items/protectedModel/">
    <ns1:createItem>
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationCode>V1</ns2:OrganizationCode>
        <ns2:PrimaryUOMValue>Each</ns2:PrimaryUOMValue>
        <ns2:ItemNumber>Shirt_SC2584</ns2:ItemNumber>

```

```

<ns2:ItemStatusValue>Active</ns2:ItemStatusValue>
<ns2:ItemDescription>Shirt_Cotton</ns2:ItemDescription>
<ns2:ItemClass>Shirts</ns2:ItemClass>
<ns2:LifecyclePhaseValue>Design</ns2:LifecyclePhaseValue>
<ns2:UserItemValue>Finished Good</ns2:UserItemValue>
<ns2:TransactionConversionValue>Item specific</ns2:TransactionConversionValue>
<ns2:ItemExtensibleFlexfieldCategoryCode>Shirts</ns2:ItemExtensibleFlexfieldCategoryCode>
<ns2:StyleItemFlag>true</ns2:StyleItemFlag>
</ns1:item>

```

```

</ns1:createItem>

```

```

</soap:Body>

```

```

</soap:Envelope>

```

#### Create SKU Item

#### Sample Payload:

This payload creates a SKU item for a style item Shirt\_Cotton with variant values as XL, Blue and Striped.

```

xmlns:ns7="http://xmlns.oracle.com/oracle/apps/scm/productCatalogManagement/items/protectedModel/">

```

```

<ns1:createItem>
  <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
    <ns2:OrganizationCode>V1</ns2:OrganizationCode>
    <ns2:PrimaryUOMValue>Each</ns2:PrimaryUOMValue>
    <ns2:ItemNumber>Shirt_SC_2584_XL-STR_BL</ns2:ItemNumber>
    <ns2:ItemStatusValue>Active</ns2:ItemStatusValue>
    <ns2:ItemDescription>Cotton shirt XL Striped Blue</ns2:ItemDescription>
    <ns2:ItemClass>Shirts</ns2:ItemClass>
    <ns2:LifecyclePhaseValue>Design</ns2:LifecyclePhaseValue>
    <ns2:UserItemValue>Finished Good</ns2:UserItemValue>
    <ns2:TransactionConversionValue>Item specific</ns2:TransactionConversionValue>
    <ns2:StyleItemFlag>false</ns2:StyleItemFlag>

```

```


<ns2:StyleItemNumberValue> Shirt_SC2584</ns2:StyleItemNumberValue>

```

```

    <ns2:ItemExtensibleFlexfieldCategoryCode>Shirts</ns2:ItemExtensibleFlexfieldCategoryCode>

```



```

        <ns2:ItemEffCategory
xmlns:ns4="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egoItemEff/item/categories/"
xsi:type="ns4:j_ItemEffVariantlcPrivate">
            <ns4:ItemEFFBAG_5FNT_5FSR_5FVR_5FIL_5FCHAR_5F3PrivateVO

xmlns:ns3="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egoItemEff/item/con
texts/">
        <ns3:_Color>BLUE</ns3:_Color>
        <ns3:_Size>XL</ns3:_Size>
        <ns3:_Pattern>STRIPED</ns3:_Season>
        </ns4:ItemEFFBAG_5FNT_5FSR_5FVR_5FIL_5FCHAR_5F3PrivateVO>
    </ns2:ItemEffCategory>
    </ns1:item>
    </ns1:createItem>
</soap:Body>
</soap:Envelope>

```

### Create Item and add Attachment of Type URL


#### Sample Payload

This payload creates an item Compressor10HP\_RP4 and adds an attachment of type URL to it.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:createItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationCode>V1</ns2:OrganizationCode>
        <ns2:ItemClass>Root Item Class</ns2:ItemClass>
        <ns2:Template>Finished Goods</ns2:Template>
        <ns2:ItemNumber>Compressor10HP_RP4</ns2:ItemNumber>
        <ns2:ItemDescription>Reciprocating Compressor 10HP</ns2:ItemDescription>
        <ns2:ItemAttachment>
          <ns2:DatatypeCode>WEB_PAGE</ns2:DatatypeCode>
          <ns2:DatabaseDescription>desc</ns2:DatabaseDescription>
        </ns2:ItemAttachment>
      </ns1:item>
    </ns1:createItem>
  </soap:Body>
</soap:Envelope>

```



```

        <ns2:UsageType>S</ns2:UsageType>
        <ns2:URL>https://www.oracle.com</ns2:URL>
        <ns2:DatabaseTitle>title</ns2:DatabaseTitle>
        <ns2:CategoryName>MISC</ns2:CategoryName>
        <ns2:DownloadStatus>N</ns2:DownloadStatus>

    </ns2:ItemAttachment>
</ns1:item>
</ns1:createItem>
</soap:Body>
</soap:Envelope>

```

#### Create Item and add Attachment from WCC (UCM)


##### Sample Payload

This payload creates an item Compressor10HP\_RP4 and adds an attachment that resides in WCC (UCM) to it.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:createItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationCode>V1</ns2:OrganizationCode>
        <ns2:ItemClass>Root Item Class</ns2:ItemClass>
        <ns2:Template>Finished Goods</ns2:Template>
        <ns2:ItemNumber>Compressor10HP_RP4</ns2:ItemNumber>
        <ns2:ItemDescription>Reciprocating Compressor 10HP</ns2:ItemDescription>
        <ns2:ItemAttachment>
          <ns2:DatatypeCode>FILE</ns2:DatatypeCode>
          <ns2:DatabaseDescription>desc</ns2:DatabaseDescription>
          <ns2:FileName>assembly.png</ns2:FileName>
          <ns2:UsageType>S</ns2:UsageType>
          <ns2:DmFolderPath>/Contribution
Folders/PIM</ns2:DmFolderPath>

```



```

<ns2:DatabaseTitle>assembly.png</ns2:DatabaseTitle>

<ns2:DmRepository>FusionAppsContentRepository</ns2:DmRepository>

<ns2:DocumentAttributes></ns2:DocumentAttributes>

<ns2:CategoryName>MISC</ns2:CategoryName>

<ns2:DmType>Document</ns2:DmType>

<ns2:DownloadStatus>N</ns2:DownloadStatus>

</ns2:ItemAttachment>

</ns1:item>

</ns1:createItem>

</soap:Body>

</soap:Envelope>

```

#### Create Item Revision and add Attachment of Type File

##### Sample Payload

This payload creates an item Compressor10HP\_RP4 with revision B and adds an attachment of type File that is residing on desktop as an item revision attachment. To upload a file from desktop, you will need to encode that file in Base64 and enter the encoded string in FileContents attribute.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

  <soap:Body>

    <ns1:createItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">

      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">

        <ns2:OrganizationCode>V1</ns2:OrganizationCode>

        <ns2:ItemClass>Root Item Class</ns2:ItemClass>

        <ns2:Template>Finished Goods</ns2:Template>

        <ns2:ItemNumber>Compressor10HP_RP4</ns2:ItemNumber>

        <ns2:ItemDescription>Reciprocating Compressor 10HP</ns2:ItemDescription>

        <ns2:ItemRevision>

          <ns2:RevisionCode>B</ns2:RevisionCode>

          <ns2:ItemRevisionDescription>New revision</ns2:ItemRevisionDescription>

          <ns2:RevisionReasonValue></ns2:RevisionReasonValue>

```



```

<ns2:EffectivityDate>2099-08-04T22:34:21</ns2:EffectivityDate>

<ns2:RevisionAttachment>

                                <ns2:DatatypeCode>FILE</ns2:DatatypeCode>

    <ns2:DatabaseDescription>desc</ns2:DatabaseDescription>

    <ns2:FileName>image.png</ns2:FileName>

    <ns2:UsageType>S</ns2:UsageType>

    <ns2:DatabaseTitle>Image</ns2:DatabaseTitle>

                                <ns2:CategoryName>MISC</ns2:CategoryName>

    <ns2:DownloadStatus>N</ns2:DownloadStatus>

    <ns2:FileContents>/9j/4AAQSkZJRgABAgEAYABgAAD/7gAOQWRvYmUAZAAAAAAAB/+
...Vem1lJBCmifYPt4kV/ydf/2Q==</ns2:FileContents>

                                </ns2:RevisionAttachment>

</ns2:ItemRevision>

</ns1:item>

</ns1:createItem>

</soap:Body>

</soap:Envelope>

```

#### Create Item and add Supplier association

##### Sample Payload:

This payload creates an item and associates a supplier (KBX\_Inc), Party Site (22409) with the item.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

<soap:Body xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ns7="http://xmlns.oracle.com/oracle/apps/scm/productCatalogManagement/items/protectedModel/">

    <ns1:createItem>

        <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">

            <ns2:OrganizationCode>V1</ns2:OrganizationCode>

            <ns2:PrimaryUOMValue>Each</ns2:PrimaryUOMValue>

            <ns2:ItemNumber>Brake_B2584</ns2:ItemNumber>

            <ns2:ItemStatusValue>Active</ns2:ItemStatusValue>

            <ns2:ItemDescription>Disk Brake LH</ns2:ItemDescription>

            <ns2:ItemClass>Root Item Class</ns2:ItemClass>

```



```

<ns2:LifecyclePhaseValue>Design</ns2:LifecyclePhaseValue>

<ns2:UserItemTypeValue>Finished Good</ns2:UserItemTypeValue>

<ns2:TransactionConversionValue>Item specific</ns2:TransactionConversionValue>

```

```

<ns2:ItemSupplierAssociation

```

```

xmlns:ns3="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/itemSupplier/categories/">

```

```

<ns2:SupplierName>KBX_Inc</ns2:SupplierName>

<ns2:PartySiteNumber>22409</ns2:PartySiteNumber>

```

```

</ns2:ItemSupplierAssociation>

```

```

</ns1:item>

```

```

</ns1:createItem>

```

```

</soap:Body>

```

```

</soap:Envelope>

```

## updateItem

The update item operation will update item, item EFFs, item DFFs, item suppliers associations, item organizations associations, item revisions, item revision details, item versions and item version details. Change Orders will be supported for one change order per item. Adding item to an existing change order and adding item to a change order for a rule that does not require approval are not supported. In addition the update of a version draft item is supported.

### Update Item EFF

To update a value for an item Extensible Flex field

### Sample Payload:

To update an Item EFF, you need to provide the item ID, EFF line ID as shown in the sample payload below.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:typ="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
xmlns:item="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/"
xmlns:cat="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/itemSupplier/categories/" xmlns:item1="http://xmlns.oracle.com/apps/scm/productModel/items/flex/itemRevision/"
xmlns:cat1="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/itemRevision/categories/"
xmlns:cat2="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/item/categories/" xmlns:item2="http://xmlns.oracle.com/apps/scm/productModel/items/flex/item/"
xmlns:item3="http://xmlns.oracle.com/apps/scm/productModel/items/flex/itemGdf/"
xmlns:ns12="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/item/categories/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ns0="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">

```




```

<soapenv:Header/>
<soapenv:Body>
  <typ:updateItem>
    <typ:item>
      <item:ItemId>300100038226994</item:ItemId>
      <item:OrganizationId>204</item:OrganizationId>
      <item:ItemExtensibleFlexfieldCategoryCode>Capacitors_DQ</item:ItemExtensibleFlexfieldCategoryCode>
      <item:ItemEffCategory xsi:type="ns12:j_ItemCapacitorsDqPrivate"
xmlns:ns13="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/advancedItems/egolItemEff/item/co
ntexts/">
        <cat2:InventoryItemId>300100038226994</cat2:InventoryItemId>
        <cat2:OrganizationId>204</cat2:OrganizationId>
        <cat2:StyleItemId>300100038226994</cat2:StyleItemId>
        <cat2:MasterOrganizationId>204</cat2:MasterOrganizationId>
        <cat2:ItemEFFBCapacitors_5FAGPrivateVO
xmlns:ns9="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/protectedModel/">
          <ns9:EffLineId>300100038226995</ns9:EffLineId>
          <ns9:InventoryItemId>300100038226994</ns9:InventoryItemId>
          <ns9:OrganizationId>204</ns9:OrganizationId>
          <ns9:ContextCode>Capacitors_AG</ns9:ContextCode>
          <ns9:CategoryCode>Capacitors_DQ</ns9:CategoryCode>
          <ns13:u_CapacitanceUE>8</ns13:u_CapacitanceUE>
        </cat2:ItemEFFBCapacitors_5FAGPrivateVO>
      </item:ItemEffCategory>
    </typ:item>
  </typ:updateItem>
</soapenv:Body>
</soapenv:Envelope>

```

## processItem

This is a bulk load service operation for Item objects. A list of Item Objects is processed by the operation. The process item operation will process item, item EFFs, item DFFs, item suppliers associations, item organizations




associations, item revisions, item revision details, item versions and item version details. The processItem operation will handle creation and updates, but does not support delete transactions.

Sample Payload:

This Payload creates two items with descriptions MotorAssembly2584 and MotorAssembly1234 respectively.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:processItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">
      <ns1:changeOperation>Create</ns1:changeOperation>
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationCode>V1</ns2:OrganizationCode>
        <ns2:PrimaryUOMValue>Each</ns2:PrimaryUOMValue>
        <ns2:ItemNumber>M25842584</ns2:ItemNumber>
        <ns2:ItemStatusValue>Active</ns2:ItemStatusValue>
        <ns2:ItemDescription>MotorAssembly2584</ns2:ItemDescription>
        <ns2:ItemClass>Root Item Class</ns2:ItemClass>
        <ns2:LifecyclePhaseValue>Design</ns2:LifecyclePhaseValue>
        <ns2:UserItemValue>Finished Good</ns2:UserItemValue>
        <ns2:TransactionConversionValue>Item specific</ns2:TransactionConversionValue>
      </ns1:item>
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationCode>V1</ns2:OrganizationCode>
        <ns2:PrimaryUOMValue>Each</ns2:PrimaryUOMValue>
        <ns2:ItemNumber> M25841234</ns2:ItemNumber>
        <ns2:ItemStatusValue>Active</ns2:ItemStatusValue>
        <ns2:ItemDescription>MotorAssembly1234</ns2:ItemDescription>
        <ns2:ItemClass>Root Item Class</ns2:ItemClass>
        <ns2:LifecyclePhaseValue>Design</ns2:LifecyclePhaseValue>
        <ns2:UserItemValue>Finished Good</ns2:UserItemValue>
        <ns2:TransactionConversionValue>Item specific</ns2:TransactionConversionValue>
      </ns1:item>
      <ns1:processControl xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
        <ns2:partialFailureAllowed>false</ns2:partialFailureAllowed>
      </ns1:processControl>
    </ns1:processItem>
  </soap:Body>
</soap:Envelope>
```



```
</ns1:processControl>
</ns1:processItem>
</soap:Body>
</soap:Envelope>
```

## findItem

This is a find service operation for the item entity. This will return item, item EFFs, item DFFs, item suppliers associations, item organizations associations, item revisions, item revision details, item versions and item version details.

### Sample Payload:

The below payload queries for an item having number AS54888

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:findItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">
      <ns1:findCriteria xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
        <ns2:fetchStart>0</ns2:fetchStart>
        <ns2:fetchSize>100</ns2:fetchSize>
        <ns2:filter>
          <ns2:conjunction></ns2:conjunction>
          <ns2:group>
            <ns2:conjunction></ns2:conjunction>
            <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
            <ns2:item>
              <ns2:conjunction></ns2:conjunction>
              <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
              <ns2:attribute>ItemNumber</ns2:attribute>
              <ns2:operator>=</ns2:operator>
              <ns2:value>AS54888</ns2:value>
            </ns2:item>
          </ns2:group>
        </ns2:filter>
      </ns1:findCriteria>
    </ns1:findItem>
  </soap:Body>
</soap:Envelope>
```



```

    </ns2:filter>
    <ns2:excludeAttribute>false</ns2:excludeAttribute>
  </ns1:findCriteria>
  <ns1:findControl xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
    <ns2:retrieveAllTranslations>true</ns2:retrieveAllTranslations>
  </ns1:findControl>
</ns1:findItem>
</soap:Body>
</soap:Envelope>

```

#### Sample Payload – EFF criteria:

The below payload searches for items, by using an EFF attribute in the filter criteria:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:typ="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
xmlns:typ1="http://xmlns.oracle.com/adf/svc/types/">
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
      <wsse:UsernameToken wsu:Id="UsernameToken-FC9FF34C83A2F233E114853803718152">
        <wsse:Username>username</wsse:Username>
        <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordText">password</wsse:Password>
        <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary">T+8K2nXn92rbJ1AWtu3Guw==</wsse:Nonce>
        <wsu:Created>2017-01-25T21:39:31.815Z</wsu:Created>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>

```



```

<ns1:findItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
  <ns1:findCriteria xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/"
xmlns:ns3="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/item/con
texts/">
  <ns2:fetchStart>0</ns2:fetchStart>
  <ns2:fetchSize>10</ns2:fetchSize>
  <ns2:filter>
    <ns2:group>
      <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
      <ns2:item>
        <ns2:conjunction>And</ns2:conjunction>
        <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
        <ns2:attribute>ItemNumber</ns2:attribute>
        <ns2:operator>=</ns2:operator>
        <ns2:value>M12345XYZ</ns2:value>
      </ns2:item>
      <ns2:item>
        <ns2:conjunction>And</ns2:conjunction>
        <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
        <ns2:attribute>ItemEffCategory</ns2:attribute>
        <ns2:nested>
          <ns2:group>
            <ns2:conjunction>And</ns2:conjunction>
            <ns2:item>
              <ns2:attribute>CategoryCode</ns2:attribute>
              <ns2:operator>=</ns2:operator>
              <ns2:value>Capacitors_DQ</ns2:value>
            </ns2:item>
            <ns2:item>
              <ns2:attribute>ItemEFFBCapacitors_5FAGPrivateVO</ns2:attribute>
            </ns2:item>
          </ns2:nested>
        </ns2:nested>
      </ns2:item>
    </ns2:group>
  </ns2:filter>
</ns1:findItem>

```



```

    <ns2:group>
      <ns2:item>
        <ns2:attribute>_Capacitor_package_size</ns2:attribute>
        <ns2:operator>=</ns2:operator>
        <ns2:value>2584</ns2:value>
      </ns2:item>
    </ns2:group>
  </ns2:nested>
</ns2:item>
</ns2:group>
</ns2:nested>
</ns2:item>
</ns2:group>
</ns2:filter>
<ns2:excludeAttribute>false</ns2:excludeAttribute>
</ns1:findCriteria>
<ns1:findControl xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
  <ns2:retrieveAllTranslations/>
</ns1:findControl>
</ns1:findItem>
</soapenv:Body>
</soapenv:Envelope>

```

#### Sample Payload keyword search:

The below payload searches for items, with keyword that contains Compressor, in the organization M4

```

<ns1:findCriteria
xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/"
  <ns2:fetchStart>0</ns2:fetchStart>
  <ns2:fetchSize>1</ns2:fetchSize>
  <ns2:filter>
    <ns2:conjunction></ns2:conjunction>
  </ns2:group>

```



```
<ns2:conjunction></ns2:conjunction>
<ns2:upperCaseCompare>true</ns2:upperCaseCompare>
<ns2:item>
  <ns2:conjunction></ns2:conjunction>
  <ns2:upperCaseCompare>true</ns2:upperCaseCompare>
  <ns2:attribute>Keyword</ns2:attribute>
  <ns2:operator>CONTAINS</ns2:operator>
  <ns2:value>compressor</ns2:value>
</ns2:item>
</ns2:group>
<ns2:group>
  <ns2:conjunction>And</ns2:conjunction>
  <ns2:upperCaseCompare>true</ns2:upperCaseCompare>
  <ns2:item>
    <ns2:conjunction></ns2:conjunction>
    <ns2:upperCaseCompare>true</ns2:upperCaseCompare>
    <ns2:attribute>OrganizationCode</ns2:attribute>
    <ns2:operator>=</ns2:operator>
    <ns2:value>M4</ns2:value>
  </ns2:item>
</ns2:group>
</ns2:filter>
<ns2:excludeAttribute>false</ns2:excludeAttribute>
</ns1:findCriteria>
<ns1:findControl
xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">

<ns2:retrieveAllTranslations>false</ns2:retrieveAllTranslations>
  </ns1:findControl>
</ns1:findItem>
</soap:Body>
</soap:Envelope>
```



#### Sample Payload – find all items:

The below payload searches for all items.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:typ="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
xmlns:typ1="http://xmlns.oracle.com/adf/svc/types/">

  <soapenv:Body>

    <ns1:findItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"

      <ns1:findCriteria xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/"
xmlns:ns7="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/item/con
texts/"
xmlns:ns8="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/item/cat
egories/">

        <ns2:fetchStart>0</ns2:fetchStart>

        <ns2:fetchSize>1</ns2:fetchSize>

        <ns2:excludeAttribute>>false</ns2:excludeAttribute>

      </ns1:findCriteria>

      <ns1:findControl xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">

        <ns2:retrieveAllTranslations>>false</ns2:retrieveAllTranslations>

      </ns1:findControl>

    </ns1:findItem>

  </soapenv:Body>

</soapenv:Envelope>
```

#### Sample Payload – find items by revision:

The below payload searches for items by specifying revision as one of the criteria.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:typ="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"
xmlns:typ1="http://xmlns.oracle.com/adf/svc/types/">

  <soapenv:Header>

  </soapenv:Header>

  <soapenv:Body>

    <ns1:findItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/"


      <ns1:findCriteria xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/"
xmlns:ns3="http://xmlns.oracle.com/apps/scm/productCatalogManagement/advancedItems/flex/egolItemEff/item/con
texts/">

      </ns1:findCriteria>

    </ns1:findItem>

  </soapenv:Body>

</soapenv:Envelope>
```



```

<ns2:fetchStart>0</ns2:fetchStart>
<ns2:fetchSize>10</ns2:fetchSize>
<ns2:filter>
  <ns2:group>
    <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
    <ns2:item>
      <ns2:conjunction>And</ns2:conjunction>
      <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
      <ns2:attribute>ItemNumber</ns2:attribute>
      <ns2:operator>STARTSWITH</ns2:operator>
      <ns2:value>01234</ns2:value>
    </ns2:item>
    <ns2:item>
      <ns2:conjunction>And</ns2:conjunction>
      <ns2:upperCaseCompare>false</ns2:upperCaseCompare>
      <ns2:attribute>ItemRevision</ns2:attribute>
      <ns2:nested>
        <ns2:group>
          <ns2:conjunction>And</ns2:conjunction>
          <ns2:item>
            <ns2:attribute>RevisionCode</ns2:attribute>
            <ns2:operator>=</ns2:operator>
            <ns2:value>A</ns2:value>
          </ns2:item>
        </ns2:group>
      </ns2:nested>
    </ns2:item>
  </ns2:group>
</ns2:filter>
<ns2:excludeAttribute>false</ns2:excludeAttribute>
</ns1:findCriteria>
<ns1:findControl xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">

```

```

        <ns2:retrieveAllTranslations/>
    </ns1:findControl>
</ns1:findItem>
</soapenv:Body>
</soapenv:Envelope>

```

## mergeItem

The merge service operation is for a single Item object. If the entity exists it will be updated, otherwise a new entity will be created. The merge item operation will merge item, item EFFs, item DFFs, item suppliers associations, item organizations associations, item category associations item revisions, item revision details, item versions and item version details.

Note that you need to use mergeItem to create new rows of child entities of items – this includes EFFs as well.

### Sample Payload:

This Payload passes ItemId as 300100020411786 and Item description as Note Pad Case\_2584.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:mergeItem
      xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types">
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationId>204</ns2:OrganizationId>
        <ns2:ItemId>300100020411786</ns2:ItemId>
        <ns2:ItemDescription>Note Pad Case_2584</ns2:ItemDescription>
      </ns1:item>
    </ns1:mergeItem>
  </soap:Body>
</soap:Envelope>

```

### Sample Payload Org assignment:

This following payload assigns the given item to a child organization with code 207.



```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:mergeItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationId>204</ns2:OrganizationId>

        <ns2:ItemId>300100137412345</ns2:ItemId>
      </ns1:item>
      <ns1:item xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/">
        <ns2:OrganizationId>207</ns2:OrganizationId>
        <ns2:ItemExtensibleFlexfieldCategoryCode>EFF
categoryCOde</ns2:ItemExtensibleFlexfieldCategoryCode>
        <ns2:ItemId>300100137412345</ns2:ItemId>
      </ns1:item>
    </ns1:mergeItem>
  </soap:Body>
</soap:Envelope>

```

### deleteItem

A delete service operation is for the Item entity that adds the Item to delete group. The delete item operation can be used for deletion of item, item EFFs, item DFFs, item suppliers associations, item organizations associations, item revisions, item revision details, item versions and item version details.

#### Sample Payload:

This Payload creates adds an item to a delete group called DeSupportedItems\_2015Q4

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:deleteItem xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/itemServiceV2/types/">
      <ns1:itemId>300100020407796</ns1:itemId>
      <ns1:orgId>204</ns1:orgId>
      <ns1:deleteGroupName>DeSupportedItems_2015Q4</ns1:deleteGroupName>
    </ns1:deleteItem>
  </soap:Body>

```

</soap:Envelope>

## Other Operations

### THE OTHER OPERATIONS SUPPORTED BY ITEM SERVICE

Operation Name	Description
<a href="#">getItemVersions</a>	A get service operation that will return item versions based on the parameters passed. The draft version will also be returned.
<a href="#">releaseVersionItem</a>	An operation that release or remove the version for the item revision specified in the parameters.
<a href="#">cancelVersionItem</a>	An operation for the Item version that cancel the scheduled or pending item version provided in the parameters and the previous version will continue to be effective during the effective period of the cancel version.
<a href="#">deleteItemCategoryAssociation</a>	A delete service operation for the Item Category entity.
<a href="#">deleteSupplierSiteAssociation</a>	Adds the item Association to be deleted to a delete group
<a href="#">getItemForSpokeSystemCrossReference</a>	A service operation to get Item, to which given source system cross reference is associated.
<a href="#">deleteSupplierSiteAssociationMultiRowExtensibleFlexfields</a>	A delete service operation for the extensible flexfields for the Item Supplier Site entity. In cases of specific rules, the multi-Row extensible flexfields may be added to change order or may created a version for versioned items.
<a href="#">deleteItemMultiRowExtensibleFlexfields</a>	A delete service operation for the extensible flexfields for the Item entity.
<a href="#">deleteItemRevisionMultiRowExtensibleFlexfields</a>	A delete service operation for the extensible flexfields for the Item Revision entity.

## Web service: Structure Service Version 2

This service supports creation and management of item structures and pack structures. A set of component items arranged hierarchically to reflect the composition of a parent item, such as the structure of a car or a laptop computer.

Internal Name: oracle.apps.scm.productModel.items.structures.structureServiceV2.StructureService

Service Path: https://<scm\_server:PortNumber>/egpltems/StructureServiceV2?WSDL


Abstract WSDL URL:

rep://R9\_FUSIONAPPS\_HOSTEDREP/oracle/apps/scm/productModel/items/structures/structureServiceV2/StructureService.wsdl

### createStructure

This is a create service operation for a single item structure object. This can be used for creating a structure for an item and add components.

Sample Payload



This payload creates a date-effective primary structure for the item HandsetAssy\_123 and adds a component Chipset\_XYZ at an item sequence of 20.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:createStructure
      xmlns:ns1="http://xmlns.oracle.com/apps/scm/productModel/items/structures/structureServiceV2/types/"
      <ns1:structure
        xmlns:ns2="http://xmlns.oracle.com/apps/scm/productModel/items/structures/structureServiceV2/"
          <ns2:OrganizationCode>V1</ns2:OrganizationCode>
          <ns2:ItemNumber> HandsetAssy_123</ns2:ItemNumber>
          <ns2:StructureName>Primary</ns2:StructureName>
          <ns2:EffectivityControlValue>Date</ns2:EffectivityControlValue>
          <ns2:Component>
            <ns2:ComponentItemNumber>Chipset_XYZ</ns2:ComponentItemNumber>
            <ns2:ItemSequenceNumber>20</ns2:ItemSequenceNumber>
          </ns2:Component>
        </ns1:structure>
      </ns1:createStructure>
    </soap:Body>
  </soap:Envelope>
```

## findPack

The following sample payload queries the pack structure for an item 'CokePallet01XYZ2584MM3327'

```
<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:typ="http://xmlns.oracle.com/apps/scm/productModel/items/structures/structureServiceV2/types/"
  xmlns:typ1="http://xmlns.oracle.com/adf/svc/types/">
  <soapenv:Header/>
  <soapenv:Body>
    <typ:findPack>
      <typ:findCriteria>
        <typ1:fetchStart>0</typ1:fetchStart>
        <typ1:fetchSize>-1</typ1:fetchSize>
        <typ1:filter>
          <typ1:group>
            <typ1:upperCaseCompare>>false</typ1:upperCaseCompare>
          <typ1:item>
            <typ1:upperCaseCompare>>false</typ1:upperCaseCompare>
            <typ1:attribute>ItemNumber</typ1:attribute>
            <typ1:operator>=</typ1:operator>
            <typ1:value>CokePallet01XYZ2584MM3327</typ1:value>
          </typ1:item>
        </typ1:filter>
      </typ:findCriteria>
    </typ:findPack>
  </soapenv:Body>
</soapenv:Envelope>
```

```

        </typ1:item>
      </typ1:group>
    </typ1:filter>
  </typ:findCriteria>
<typ:findControl>

<typ1:retrieveAllTranslations>false</typ1:retrieveAllTranslations>
  </typ:findControl>
</typ:findPack>
</soapenv:Body>
</soapenv:Envelope>

```

## Other Operations

### THE OTHER OPERATIONS SUPPORTED BY STRUCTURE SERVICE

Operation Name	Description
<a href="#">deleteStructure</a>	A delete service operation for the Structure entity that adds the Structure to the delete group.
<a href="#">deleteComponent</a>	A delete service operation for the Structure Component entity that adds the Structure Component to the delete group.
<a href="#">explodeStructure</a>	The service operation is to explode the entity for a structure.
<a href="#">deletePack</a>	A delete service operation for a single pack object.
<a href="#">createStructureFromCopy</a>	The service operation is to copy the entity for a structure
<a href="#">createStructureFromCommon</a>	The service operation is to create a common structure from a source structure.
<a href="#">componentWhereUsed</a>	The service operation is to provide a list of structures where a component is used.
<a href="#">updateStructure</a>	An update service operation for a single item structure object.
<a href="#">mergeStructure</a>	A merge service operation for a single item structure object. If the entity exists it will be updated, otherwise a new entity will be created.
<a href="#">findStructure</a>	A find service operation for the item structure entity.
<a href="#">createPack</a>	A create service operation for a single pack object.
<a href="#">updatePack</a>	An update service operation for a single pack object.
<a href="#">mergePack</a>	A merge service operation for a single pack object. If the entity exists it will be updated, otherwise a new entity will be created.
<a href="#">findPack</a>	A find service operation for the pack entity

## Conclusion

This white paper has discussed certain key SOAP web services and operations supported by Oracle Fusion Product Hub. For the latest details about all the web services, it is recommended to refer to Oracle Enterprise Repository.

## Update Log



Date	Doc Version	Contributor	Content
01-Mar-2015	Initial doc	Magesh Kesavapillai	Initial document
12-Jan-2016	Ver2	Magesh Kesavapillai	Scenario for create item with EFF attributes; added sample XSDs for EFF attributes
20-June-2018	Ver3	Abhijit Rawool	Sample payloads for Attachment operations
27-June-2018	Ver3	Magesh Kesavapillai	Sample payloads for additional finditem usecases, delete interface records, assign to organization



Oracle Corporation, World Headquarters  
500 Oracle Parkway  
Redwood Shores, CA 94065, USA

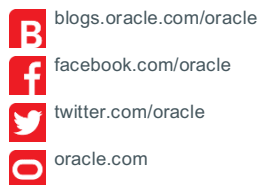
Worldwide Inquiries  
Phone: +1.650.506.7000  
Fax: +1.650.506.7200





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Oracle Fusion Product Hub Web Services  
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Magesh Kesavapillai



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