

## **Oracle® Retail Strategic Store Solutions**

Implementation Guide, Volume 1 – Oracle Retail Strategic Store  
Solutions to Merchandising Products Integration

Release 13.2

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# Preface

## Audience

The Implementation Guide is intended for the Oracle Retail Point-of-Service integrators and implementation staff, as well as the retailer's IT personnel.

## Related Documents

For more information, see the following documents in the Oracle Retail Release 13.2 documentation set:

- Oracle Retail Strategic Store Solutions Licensing Information
- Oracle Retail Back Office documentation set
- Oracle Retail Labels and Tags documentation set
- Oracle Retail Central Office documentation set
- Oracle Retail Point-of-Service documentation set

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

## Review Patch Documentation

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

# Oracle Retail Documentation on the Oracle Technology Network

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

[http://www.oracle.com/technology/documentation/oracle\\_retail.html](http://www.oracle.com/technology/documentation/oracle_retail.html)

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

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

## Conventions

The following text conventions are used in this document:

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

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# Integration Overview

## Data Import from a Merchandising System and a Price Management System

Seed data such as item, price and tax must be updated on an ongoing basis in the Store database as well as Operational Data Store (ODS) to enable daily store operations. Typically the system of truth for such data is an enterprise system, such as a merchandising system, a price management system or a third-party product. The frequency and size of the data feeds varies from customer to customer. Imports are scheduled to be picked up by stores on a nightly basis. This interval is adjustable. See [spring.properties](#).

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**Note:** Data Import (DIMP) is not the system of record for data correctness. All data coming into the data import module is assumed to be correct. This applies at two levels:

- First, the data must conform to the published XSDs. See [Appendix B, Appendix: XSD Files and Data Element Definition Tables](#).
- In addition, the database does not enforce referential integrity on the imported data, so the external system is responsible for not sending data that would create orphaned records in the database.

For example, there is no foreign key constraint enforced between the employee and store entities. A Kill And Fill import of the store hierarchy can result in a new set of stores that does not include a store for some existing employees. The external system that creates this import data must ensure that this type of situation does not occur.

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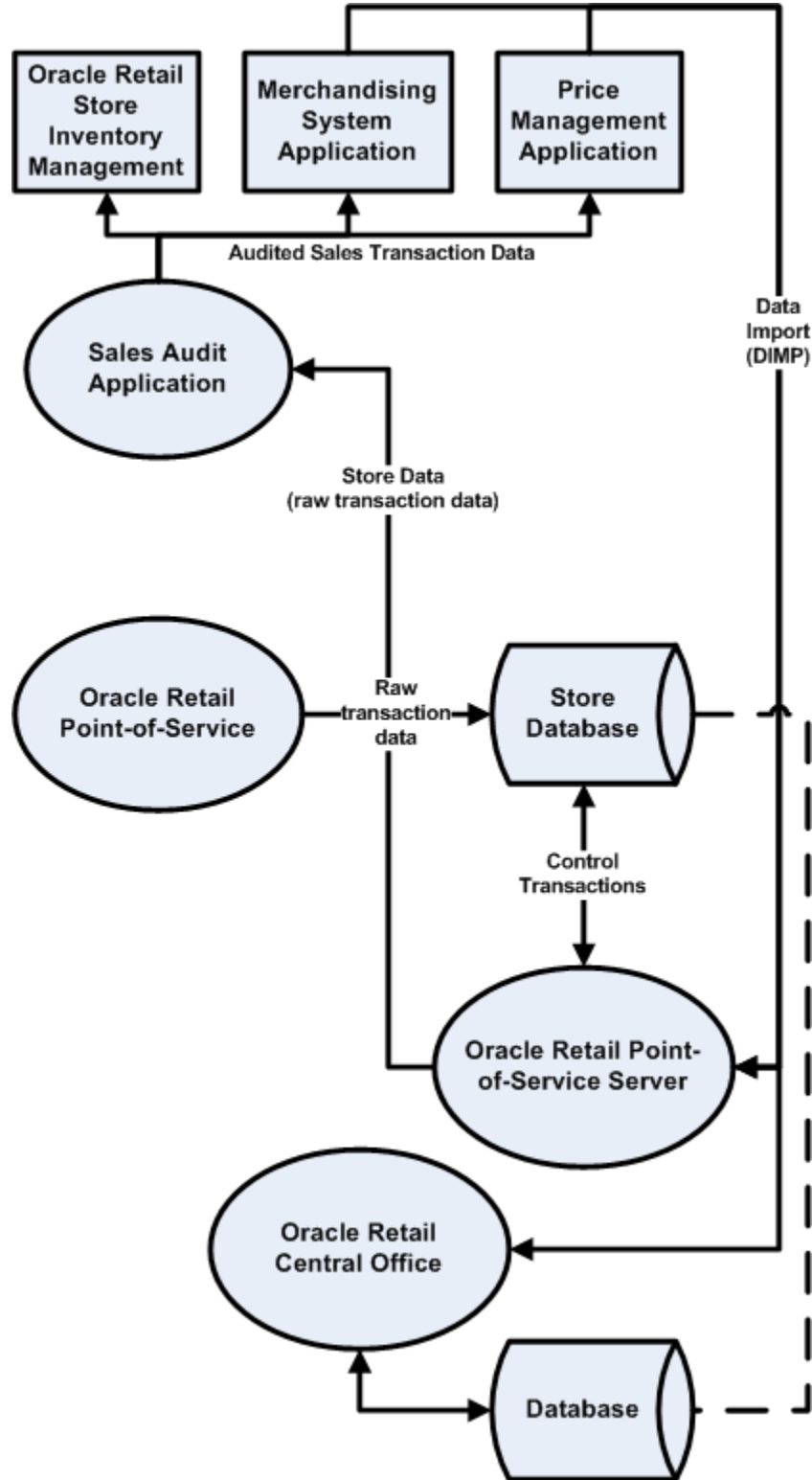
**Note:** The base DIMP modules support parsing XML files only.

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The following is an overview diagram of an integration of Strategic Store Solutions and a merchandising system, including a Data Import logical flow:

Figure 1-1 Integration Overview Including Strategic Store Solutions and a Merchandising System



## Generic Data Import Flow

The following describes the flow of a generic data import:

1. The flow begins with the Quartz Scheduler configured in Spring invoking the ImportIOAdapter of the DIMP Controller module.  
  
An import can be processed by either Central Office or Back Office. Central Office is not configured to process Pricing imports. To get new data to a store, the data must be imported by Back Office.
2. The DIMP Controller picks up the import bundle, which is a compressed archive, and invokes the DIMP Translator.
3. The XML files are processed as input streams in the order specified in the manifest by DIMP translators: one for each import type.
4. The implementation of the ImportTranslatorIfc (as configured by the Spring context) retrieves an instance of an ImportControllerIfc from Spring and creates a new ImportBatch.
5. The translator begins to parse its document and calls initializeImport onto the controller.
6. The translator sets the batch size based upon its configuration.
7. The translator then loops through the elements in the document, creating a Data Transfer Object (DTO) for each complex element. The entity DTOs are processed one at a time in the order they are placed into the ImportBatch, with all Delete DTOs processing first, all Add DTOs second, then all Update DTOs last.
8. The controller retrieves an instance of the specified Data Access Object (DAO) from Spring based upon the key passed to it and calls initializeImport() on the DAO.
9. The translator then loops through the elements in the document, creating a Data Transfer Object (DTO) as each complex element. The entity DTOs are processed one at a time by placing them into the batch.
10. Each batch is processed as a transaction. Any records in the batch with data errors roll back that transaction. The import proceeds with the next batch.  
  
The default batch size is 1000. See [spring.properties](#) in Chapter 3 for more information.
11. The translator gives the ImportController a signal to process the batch after adding each DTO by calling processBatch().
12. If the batch size has been reached, the controller sends the batch to the DAO to be persisted.
13. The ImportDAOIfc loops through each DTO and delegates its data operation to a subordinate DAO.
14. Once the document parsing is complete, the translator notifies the controller, which processes the batch if there are any DTOs left over.
15. Finally, the controller calls completeImport() on the DAO, giving it the opportunity to copy data from temporary to production tables and drop temporary tables in case of a Kill And Fill, or release JDBC resources, and so forth.

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**Note:** If you choose to retain any existing Oracle Retail Back Office or Oracle Retail Point-of-Service item-related functionality that creates or changes data types that are imported from a merchandising system or any third party merchandising systems, you are responsible for handling and addressing any data overwrites performed by the import process.

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## Feed Methods

There are three feed methods:

### Kill And Fill

Temporary tables are created at the beginning of a file's processing. Batches are written to the temporary tables. If the entire file is processed without error (all batches), the temporary table data replaces the production data and the temporary tables are dropped. If an error occurs, it is logged and the entire file import is aborted.

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**Note:** During the data import of any PricingImport that has had its FillType set to **Kill And Fill**, all tables that contain AdvancedPricingRules, PricePromotions, and PriceChanges are cleared and refilled with the new data that is imported only. The PriceLookup mechanism uses the PriceChange tables to calculate the current price of an item. If all the prices are not supplied for existing items during a PricingImport Kill And Fill, then the items without prices have values of **zero**.

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### Full Incremental

Full Incremental is a fill type that performs adds and update, expecting that all data attributes for a particular record are included in the XML element. Any missing attributes are set to default values. Replace operations still only require enough data to properly identify the record.

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**Note:** All columns for a row must be present in the import data.

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For Full Incremental imports, each import XML data element must include all values. If some values are omitted from the import file, then the Data Import still updates the records in question, but uses default values for the omitted elements or attributes. Usually the default value chosen is **null**, **zero** or **false** unless otherwise specified in the XSD.

Consult the TablesMapping spreadsheets and the Data Dictionary for values to which specific columns are defaulted.

### Delta Incremental

Delta Incremental is a fill type that produces dynamic update statements that allow for only those data attributes which are included in the file to be updated, leaving existing data attributes intact.

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**Note:** Only those fields being updated are required in the import data.

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## Data Import Dependencies

Files listed in the manifest without any dependency will be processed first in no particular order. Then those files whose dependencies have already been processed will be processed, until all are completed. The following dependency information dictates the order in which files can be processed:

- Tax depends on nothing.
- Store Hierarchy/Stores depends on Tax (GeoCode).

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**Note:** A price management system and a merchandising system do not provide any tax information, such as Tax Geocodes for stores or TaxGroup IDs for items. It is the responsibility of the implementation team to intercept the following download data and use a third-party tax application to apply the appropriate tax information:

- ItemImport.xml -- tax information for items.
- StoreHierarchyImport.xml -- geocode information for stores.

The implementation team must apply appropriate tax information after every Kill And Fill operation. This ensures that tax information applied to the store database is retained the next time a Kill And Fill operation is conducted.

An alternate tax information option involves the use of database triggers. The implementation team can create a database trigger to repopulate the Store table in the database with hard-coded tax information after every Kill And Fill operation. The implementation team is responsible for implementing the database trigger and providing the hard-coded tax information.

For more information, see [Geocode Tag Missing For Store](#).

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- Employee depends on Store Hierarchy/Stores.
- Merchandise Hierarchy depends on nothing.
- Item depends on Tax and Merchandise Hierarchy.

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**Note:** A price management system and a merchandising system do not provide Tax Geocodes for stores or TaxGroup IDs for items. It is the responsibility of the implementation team to intercept download data and use a third-party tax application to apply the appropriate tax information.

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- Pricing depends on Item and Customer.
- Currency depends on nothing.
- Customer depends on nothing.

## Price Management System to Oracle Retail Strategic Store Solutions Integration Overview

A price management system is a strategy-based pricing solution that suggests and assists with pricing decisions, yielding a more predictable and profitable outcome. A price management system evaluates prices within a broad business context with real-time access to the following:

- Competitive and market data
- Projected sales impact
- Margin
- Pricing-based costs
- Current and projected inventory positions
- Markdown budgets

A price management system provides a well-defined and efficient price change process that allows for aggregated permanent and clearance price change execution. A price management system enables retailers to automate and streamline pricing strategies across the organization. A price management system provides decision support to all pricing-focused business information to validate and approve pricing and markdown suggestions.

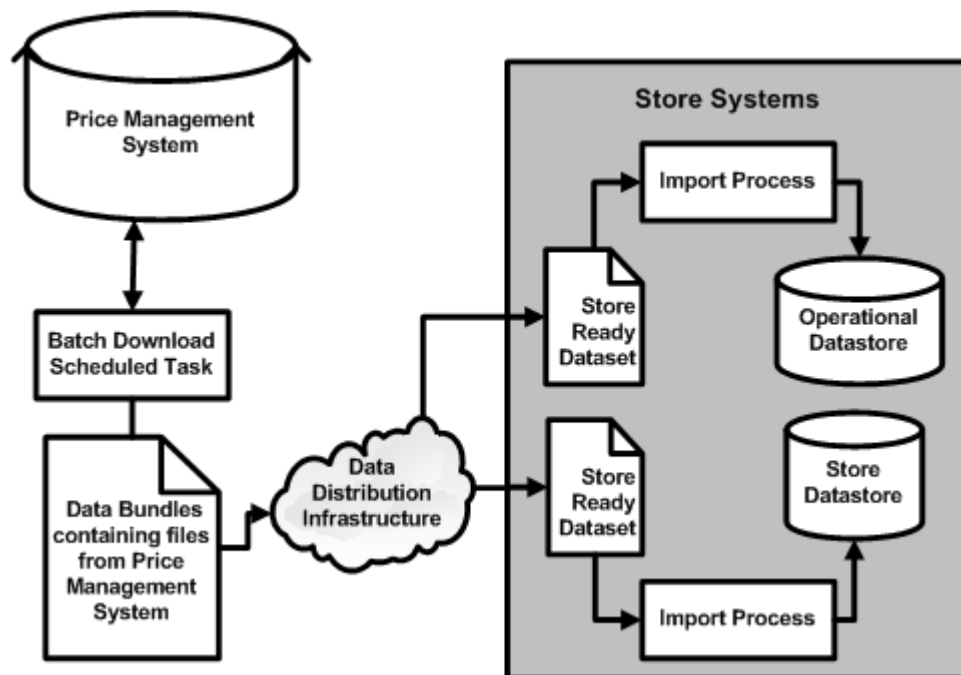
---

**Note:** This integration is one-way only. Oracle Retail Strategic Store Solutions changes are not communicated back up to a price management system.

---

The following figure shows a high level overview of the integration.

**Figure 1–2 Strategic Store Solutions to a Price Management System**





## A Merchandising System to Oracle Retail Strategic Store Solutions Integration Overview

A merchandising system provides for core merchandising activities, including inventory replenishment, purchasing, and vendor management, in a global environment, across multiple retail channels. The solution incorporates three functional areas:

- Business foundation management
- Merchandise management
- Merchandise financial tracking

These functional areas enable retailers to streamline their business systems and unify business practices across their organization.

A merchandising system is the main application for item, item location, merchandise hierarchy, stores and store (organizational) hierarchy data. This data is necessary for store operations and must be updated in the stores on an ongoing basis. Further, this data, particularly item data, can range in size from small incremental updates to large batch loads. The frequency and size of data feeds varies widely from customer to customer.

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**Note:** This integration is one-way only. Oracle Retail Strategic Store Solutions changes are not communicated back up to a merchandising system.

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**Note:** There are some conditions required on data in order to filter out the merchandising system data being extracted to the XML files. This is required mainly because Oracle Retail Point-of-Service has these limitations on data types. Some of these conditions are:

- Store ID length is less than or equal to 5.
- Chain value length is less than or equal to 4.
- Item ID length is less than or equal to 14.
- UOM length is less than or equal to 2.
- Diff\_1 (ColorCode) length is less than or equal to 20.
- Diff\_2 (SizeCode) length is less than or equal to 10.
- Unit retail is less than or equal to 999999.99

For more information, see *Oracle Retail Strategic Store Solutions Relational Integrity Diagrams*.

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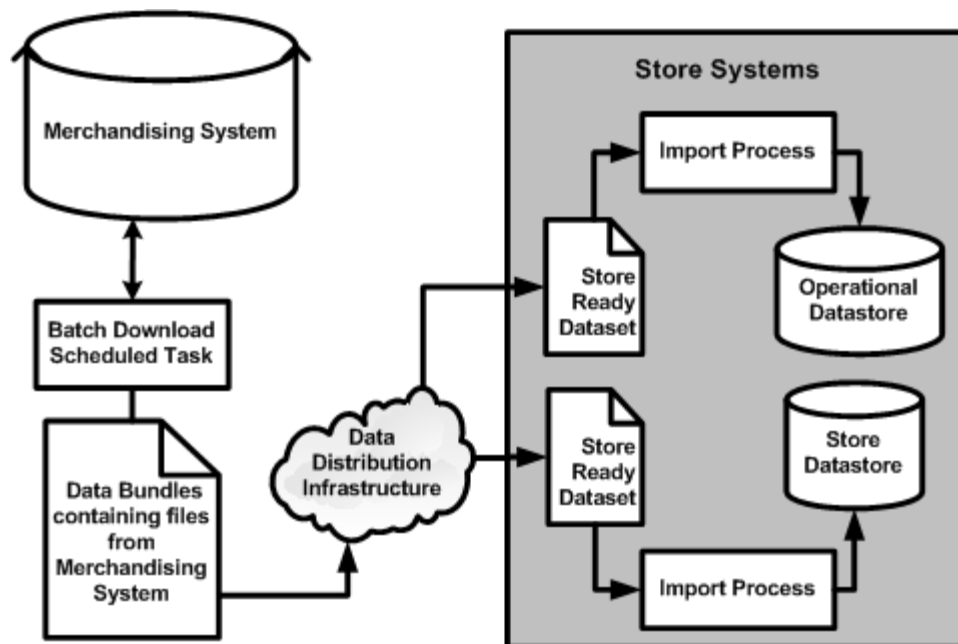
---

**Note:** In the merchandising system, class-level and store-level VAT-inclusive indicators must be set based on the Oracle Retail Point-of-Service configuration:

- When Oracle Retail Point-of-Service is set to **Unit retail tax inclusive**, then all class-level and store-level VAT-inclusive indicators in a merchandising system must be set to **Y**.
- When Oracle Retail Point-of-Service is set to **Unit retail tax exclusive**, then all class-level and store-level VAT-inclusive indicators in a merchandising system must be set to **N**.

The following figure shows a high level overview of the integration.

**Figure 1-3 Strategic Store Solutions and a Merchandising System Integration**



## Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management

### Inventory Inquiry

Oracle Retail Store Inventory Management enables store personnel to quickly and easily perform an array of in-store operations using a high-speed internet connection and portable, handheld wireless devices to receive merchandise, manage physical inventories, conduct stock counts, order stock, or transfer stock.

This integration enables an operator at Oracle Retail Point-of-Service to perform an inventory inquiry to Store Inventory Management.

Oracle Retail Point-of-Service can request inventory information for a single store or for a group of stores. The operator can request inventory numbers of an item in the home store, stores within the related buddy stores (buddy store functionality enables the retailer to set up a group of stores within a transfer zone in Store Inventory Management to which the retailer often transfers items), stores within the related transfer zones (a set of locations where transfers are allowed) or for a specific store. Item inquiry can search on one item at a time. You can perform an item inquiry during a transaction, as well as outside a transaction.

The reply from Store Inventory Management contains item, location and inventory information.

The default topology for Store Inventory Management is centralized multi-store.

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**Note:** If the retailer is using the web service to do a look up from Point-of-Service to Store Inventory Management, the INV\_RESRV\_FROM\_SIM\_IND indicator must always be set to Y in a merchandising system. If not, the retailer runs the risk of putting twice as much inventory in the unavailable bucket as needed.

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## Serial Number

Point-of-Service supports the sale of serial controlled items. The overall processing of a serial controlled item is broken into the following two parts:

- **Serial Number Validation:** When an item is scanned, if the UIN-required flag is set to Yes, the user will be prompted for the serial number. If the UIN capture time is set to Store Receiving, then the serial number will need to be validated from an inventory management application.
- **Serial number status update:** Serial number status will need to be updated in an inventory management application based on the stock movement. All the transactions listed in the validation step will need to be sent to the inventory management application for update. The serial number update process is part of the Real Time Inventory Stock position update integration.

For more information about the support for serialized items, see [Appendix: Serial Numbers](#).

## Realtime Inventory Stock Position Update

Oracle Retail Point-of-Service updates Oracle Retail Store Inventory Management with transaction information on a periodic basis.

Near real time updates in Store Inventory Management will enable the following:

- A near real time interface allows Point-of-Service to transfer transaction information and update inventory.
- Update features for snapshots, physical count quantities and authorized values.
- UOM conversion, to convert from selling UOM to standard UOM.

With near real time updates, Store Inventory Management inventory will be up-to-date with the Point-of-Service sale transactions. Every transaction that takes place at Point-of-Service is posted to Store Inventory Management using a web service. The whole process is near real time. The call from Point-of-Service to Store Inventory Management using a web service will be a blocking call. Therefore, the web service performs minimal processing and persists the transaction data to staging tables.

For more information about the real time inventory status update functionality, see [Appendix: Realtime Point-of-Service-to-Oracle Retail Store Inventory Management Updates](#).

## Customer Order Reservation–Update Inventory Status

To update the inventory status in Store Inventory Management, Point-of-Service needs to send the order information to Store Inventory Management when the items in the sale transaction are identified as one of the following:

- Layaway
- Pickup
- Delivery Items

Point-of-Service also needs to send the order information to Store Inventory Management when the items are picked up by the customer, or delivered by the retailer to the customer.

## Item Basket

Item Basket functionality allows a user to use the handheld to scan a list of items. This list of items can be interfaced to other applications through a web service to aid them in specific tasks. These tasks can range from line busting (Point-of-Service), using the list for wedding list generation or simply identifying trouble items.

For more information about the item basket functionality, see "Item Basket" in the *Oracle Retail Point-of-Service Operations Guide*.

## Network Printing

Provides the retailer with the flexibility of choosing to print from the Point-of-Service to a network printer or to a JPOS receipt printer.

For more information, see the *Oracle Retail Point-of-Service Installation Guide*.

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## Integration Architecture

### Strategic Store Solutions to Sales Audit Application Integration Architecture

The Point-of-Service terminal is the platform that the Point-of-Service client application resides on. The cashier and the store manager interact with the Point-of-Service client application, which generates transaction data. The Point-of-Service client application sends a serialized object structure representing the sales transaction to the Point-of-Service store server residing on the In-Store-Processor (ISP). The ISP is responsible for persisting the raw transaction data to the store database.

The major component of the Strategic Store Solutions to a sales audit application integration is:

- **Export File Generator**

Reads the transactions in the list and formats the export data based on the export configuration files.

### Data Import

Data Import (DIMP) is a set of domain-specific modules within either Oracle Retail Back Office or Oracle Retail Central Office that enable the import of data from both a merchandising system and a price management system. Imports through Oracle Retail Back Office are persisted to the store database, affecting the data available to and read by Oracle Retail Point-of-Service.

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**Note:** When discussing Data Import, functionality applies to both a merchandising system and a price management system.

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The DIMP subsystem and components are designed to enable external systems to send large volumes of data to the Oracle Retail Strategic Store Solutions applications. The primary intent of this functionality is to allow for initial data seeding or routine data loading (and optional purging) to occur for such types of data as:

- Taxation
- Merchandise Hierarchy
- Store Hierarchy
- Employee
- Item

- Pricing
- Customer
- Currency (Exchange Rates)

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**Note:** For more information about the XML format required by any import, refer to its specific XML Schema Definition (XSD). Some attributes are labeled **required**. All attributes listed as required in the XSD must be included in the import XML file. See [Archive File Format](#) in Chapter 3 for more information about import XML format.

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**Note:** Taxation, Employee, Customer and Currency information are not provided by a merchandising system and a price management system. Any of this information would come from third-party systems.

For more information, see [Third-party Tax and Employee Information](#) in Chapter 6.

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## Error Handling

Strategic Store Solutions applications are not the system of record for data correctness. Error handling is limited to logging errors during the import and performing a retry in certain cases. Because the data imports can be interdependent, a failure in one file import may result in an abort of the import of the rest of the files in the import that depend on the failed data.

There were no changes made to the base data model to support the data import subsystem. However, a few tables exist (see [Import Status Logging](#)) to take care of data import error handling and to support any recovery or retry mechanism that might be put in place in the future (that may be custom developed).

For the current implementation, all Kill And Fill imports are applied into temporary tables. Once the import of the complete file is successful, the data is written onto the main tables. If any data operation fails, the entire file import is aborted. A FAILURE status message is logged for each of those files.

Incremental (Delta or Full) file imports continue even if a data operation fails. In that case, only the import batch containing the failure is rolled back and the error is logged. It is the customer's responsibility to decide how to handle the failed operations.

The act of aborting the import is configurable and can be changed based on implementation requirements. The class `ImportErrorHandler` mapped to the Spring key `persistence_ImportErrorHandler` in the Spring context file `PersistenceContext.xml` can be configured to any other custom implementation of an `ImportErrorHandler`.

## Import Status Logging

The following section describes the statuses and three tables in the data model that record Data Import attempts:

- In case of failure in opening the bundle or reading a file in the bundle, the status in the tables is `MA_STS_BNDL_IMP - FAILED`.

No other status is logged in any other table.

- In case of failure in parsing a file, the statuses are:
  - MA\_STS\_BNDL\_IMP – PROCESSED
  - MA\_STS\_FL\_IMP – FAILED for that file and all other files that are dependent on that file.
  - MA\_FL\_IMP\_FLRS – Failure exception details of the file.

- In case of failure while persisting a batch:

- If Kill and Fill then:

MA\_STS\_BNDL\_IMP – PROCESSED

MA\_STS\_FL\_IMP – FAILED for that file and all other files that are dependent on that file.

MA\_FL\_IMP\_FLRS – Failure exception details of the file that has failed.

- If Full Incremental or Delta Incremental then:

MA\_STS\_BNDL\_IMP – PROCESSED

MA\_STS\_FL\_IMP – PARTIALLY PROCESSED for that file only.

MA\_FL\_IMP\_FLRS – Failure exception details of the files that have failed.

## The Logic

### MA\_STS\_BNDL\_IMP

This is the Bundle Import Status table, which has the processing status at the bundle level. In a case where an input/output error occurs, such as unable to open the bundle or read a file from the bundle, the status is logged as FAILED. In all other cases where there is no input/output error, the status is PROCESSED. This is because a bundle can contain more than one file, and it is, from a performance standpoint, degenerative to keep track of how many files there are in the bundle and how many of them have succeeded and how many have failed. Therefore, unless an input/output error is encountered, the status PROCESSED is logged into the table.

### MA\_STS\_FL\_IMP

File Import Status maintains the processing status of each file in a bundle. The status FAILED for a file indicates that there is a parsing exception, or there is a failure while persisting a Kill And Fill file (as complete processing is aborted in case of Kill And Fill). If a failure is logged in this table for a file, then all other files in the bundle that are dependent on the failed file also have a FAILED status.

The status PARTIALLY PROCESSED for a Full Incremental or Delta Incremental import indicates there is a failure in persisting a batch. This status is irrespective of the number of records in the file. In an incremental type of import, a batch of records with no exceptions is persisted to the database and committed. Therefore, to note a FAILED status we must know how many records there are in the file, how many batches do these records form and the processing status of each of the batch. Performance-wise this is not advisable.

Also, if a bundle is re-processed, a FAILED status on an incremental file causes the file to be processed again, generating more exceptions.

### MA\_FL\_IMP\_FLRS

Any failures encountered are logged in this table.

## Reprocessing a Bundle

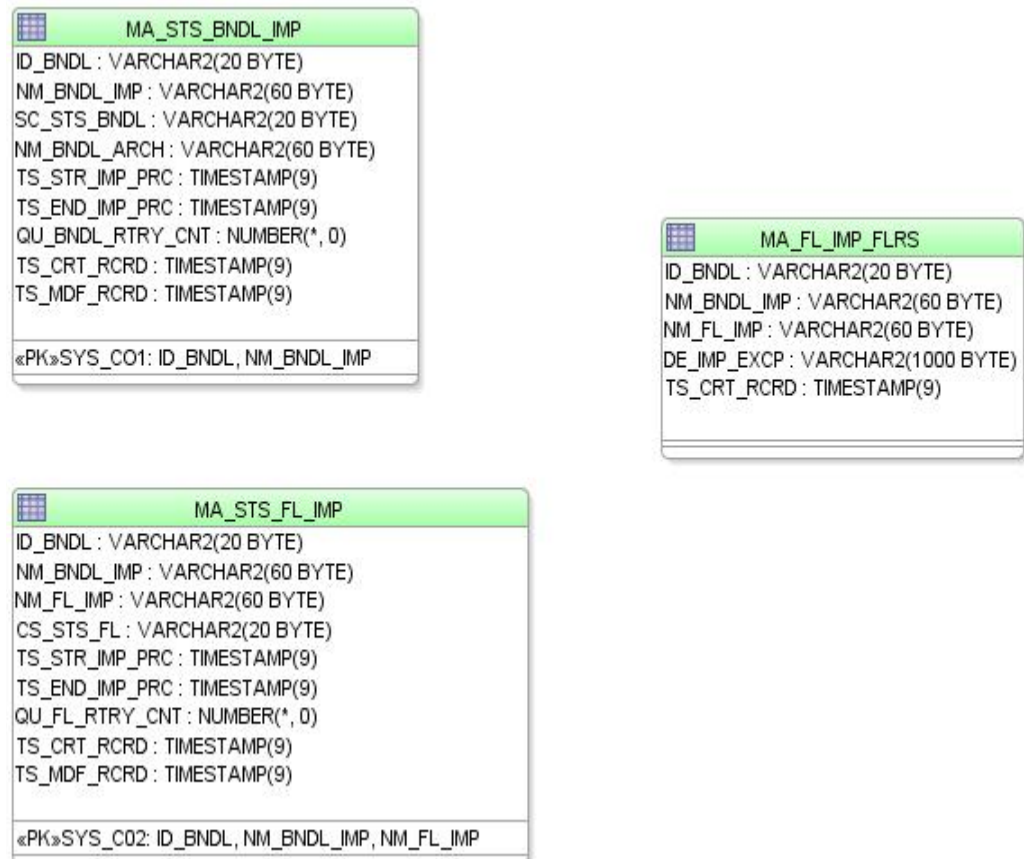
This facility is provided to reprocess any file that failed, that is, has a FAILED status in MA\_STS\_FL\_IMP. No change is needed in the bundle to process a file again. If the same bundle is reprocessed, all the files with a status FAILED in MA\_STS\_FL\_IMP are reprocessed. Therefore, if an incremental file has already crossed the point of parsing, (an exception while persisting) then the status for that file must never be logged as FAILED, as some of the batches might have been persisted and reprocessing the file generates more errors.

## Exception Flow

- If there is a failure in any insert operation for a file of the Kill And Fill variety, the exception is logged and the complete file is aborted. Import of any subsequent file in the sequence that depends upon the failed/aborted file is also aborted. This is done to ensure that partial data inserts from the file are not performed, compromising the integrity of the data in the database. Import of files that do not depend on this particular file is not impacted.
- If an operation (insert, update, delete) fails during the processing of an incremental file, delta or full, the current batch is aborted and subsequent batches are processed. The errors are logged for the failed batch and processing continues, starting with the next batch of the data in the file.

The following figure shows the logical data model for the tables being used in error handling in Data Import.



**Figure 2–1 Data Import Tables Logical Data Model**

The archive file status is logged as CONSISTENT or INCONSISTENT in the table ImportBundleStatus, with the BundleID of the archive.

If an exception is encountered during the import of a file, the record where the problem is encountered is logged in the table ImportRecordStatus.

The exception is then sent up to the Data Import Controller where a FAILED status is logged on to the table ImportFileStatus. If the import has been successful for a file, a status of SUCCESS is inserted in the table.

Instrumentation for application monitoring can be provided by exposing beans to JMX through Spring, which orchestrates the process of creating JMX management interfaces for beans, and removes the need to compile them to the JMX API.

The following example must be configured in the Spring PersistenceContext.xml file:

#### **Example 2–1 Sample JMX Configuration**

```
<bean id="mbeanServer"
class="org.springframework.jmx.support.MBeanServerFactoryBean" />

<bean id="exporter" class="org.springframework.jmx.export.MBeanExporter">
  <property name="beans">
    <map>
      <entry key="bean:name=EmployeeImportDAOKey"
```

```

value-ref="EmployeeImportDAO" />
    </map>
</property>
<property name="server" ref="mbeanServer" />
</bean>

<bean id="EmployeeImportDAO"
class="com._
360commerce.commerceservices.employee.importdata.dao.EmployeeImportDAO" />

```

## Logging

At various points in the import process, exceptions such as `SQLException` and `SAXException` might be generated. They are generally rethrown as `ImportExceptions` and passed up the chain to the DIMP Controller, as well as logged for error tracking and resolution.

DIMP introduces a new Spring-based logging object to provide message consistency and allow retailer customization of messages. The underlying logging uses Apache Commons logging as the interface, and Log4j for the logging implementation. A `MessageLogger` is retrieved from the Spring service context. The logger gets message templates from a property file. Customers can define the layout of these messages to suit their needs, using the following format, where `{x}` is a placeholder for input data from the calling program:

```
Message from {0} with {1} information.
```

The Spring bean ID used for the pluggable message logger component is shown in [Table 3–1, Spring Bean IDs Used For Each Of The Pluggable Components](#). The mapping is shown below.

### **Example 2–2 Message Bean Definition**

```

<bean id="service_MessageBuilder" class="com._
360commerce.commerceservices.importdata.MessageBuilder" singleton="true"
lazy-init="true">
    <property name="prefix"><value>${dimp.prefix}</value></property>
    <property name="texts">
        <list>
            <value>${dimp.text1}</value>
            <value>${dimp.text2}</value>
            <value>${dimp.text3}</value>
        </list>
    </property>
</bean>

```

See [dimplogger.properties](#) for configuration options for the DIMP `MessageBuilder`.

## Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management Architecture Overview

The Oracle Retail Point-of-Service-to-Store Inventory Management integration is intended to provide integration for the Point-of-Service application to interact with Store Inventory Management for inventory information. The following features are supported for integration with an inventory management system:

- **Inventory Inquiry:** This feature is provided to enable Point-of-Service to check the item inventory in Home Store, Buddy Store, Specific Store and Transfer zone. The Item Inventory feature is available to Point-of-Service Client only when the Point-of-Service Client is in the ONLINE mode.
- **Item Basket:** This feature is provided for line busting using the Store Inventory Management handheld. The items in a customer basket are scanned using the Store Inventory Management handheld and staged in the Store Inventory Management database. Point-Of-Service can then look up the basket details and add the line items to the sell item screen.
- **Serial Number Validation and Update:** Point-Of-Service supports serialized items. The operator is prompted to enter/scan the serial number of the serialized item on the Point-of-Service Client. The serial number that is entered is then validated by interfacing with Store Inventory Management. Once the transaction is tendered, the serialized items along with the captured serial number will be sent to Store Inventory Management for updating the status of the particular serial number.
- **Inventory Reservation:** Point-of-Service interfaces with Store Inventory Management to send the order transactions so that the items can be marked as reserved in Store Inventory Management. Also, once the items are picked up or delivered to the customer, the status needs to be updated in Store Inventory Management.
- **Real Time Inventory Status Update:** This interface sends Point-of-Service transactions to Store Inventory Management to update the inventory status based on the transactions.

The following outlines the Point-of-Service-to-Store Inventory Management integration approach:

1. Expose the inventory features from Store Inventory Management in the form of Web service.
2. Provide pluggable inventory Web service interface to integrate Point-of-Service-to-Store Inventory Management.
3. Point-of-Service Client interacts with Point-of-Service Server over RMI as in the existing Point-of-Service architecture. Point-of-Service Server interacts with inventory Web service interface to interact with Store Inventory Management.
4. Point-of-Service uses the connector framework to achieve a pluggable and extendable integration with Store Inventory Management.

The Point-of-Service-to-Store Inventory Management integration system is broken into five main sub-systems:

### **ORPOS Client**

The various functionalities are incorporated in Point-of-Service Client by having new tours and new components, namely the ConnectorManager for interaction with the ConnectorTechnician.

### Oracle Retail Point-of-Service Server

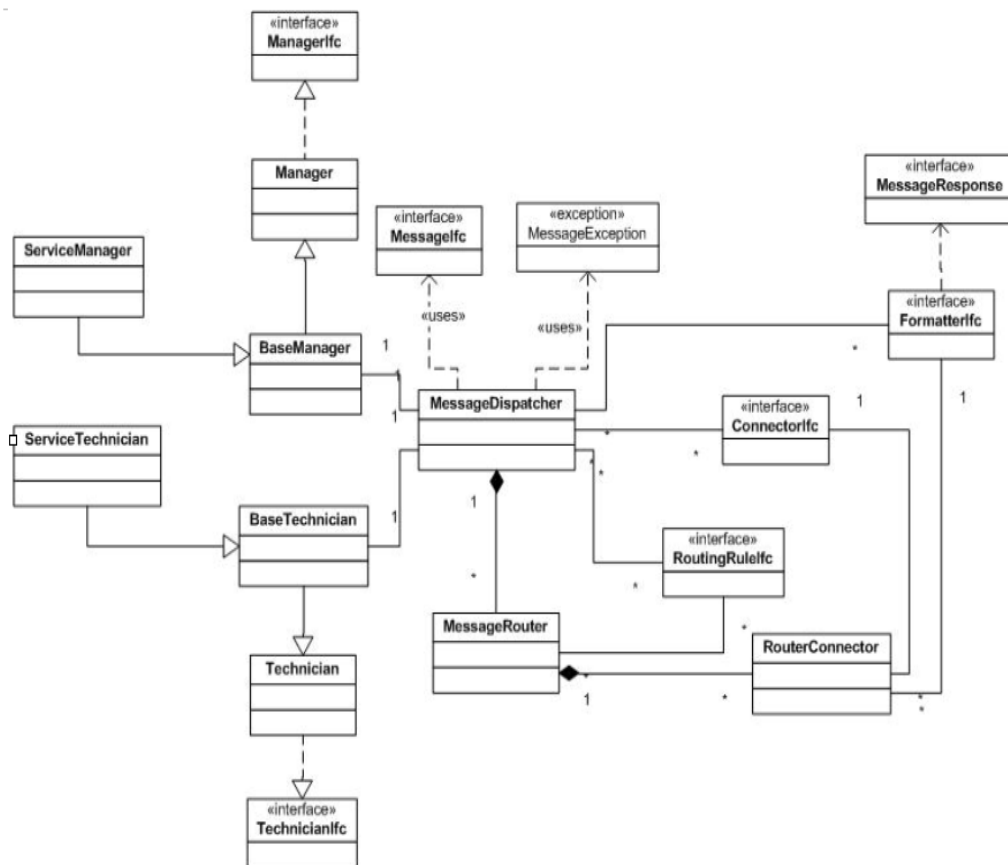
The Point-of-Service Server contains the connector framework which embeds the integration details. The connector framework is exposed through the new ConnectorManager and RetailTransactionTechnician. The connector framework consists of pluggable Formatters (request-response formatting) and Connectors (ORSIMWebServiceConnector) to abstract the connection-specific logic.

New Component ORSIMWebServiceConnector is added in Point-of-Service Server. PSITechnician interacts with PSInventoryWS\_Stub to call InventoryWS over intranet using HTTP/SOAP protocol.

### Point-of-Service Connector Framework

Connector is an out of box integration framework. It provides a very extendable approach to the integrations both online and offline. The Point-of-Service Connector Framework model is as shown in Figure 2-2. The separation of concerns between data structure manipulation or transformation, and handling connectivity to a service is separated between the two components—the formatter and the connector.

Figure 2-2 Point-of-Service Connector Framework Model



The MessageDispatcher is the core of the communication framework. Its primary function is to dispatch messages to mapped routers. In addition, MessageDispatcher performs administrative and control operations on the associated connectors. When invoked, the MessageDispatcher delegates the message handling to a specific MessageRouter.

The MessageRouter coordinates the processing of a message using the associated routing rule and the RouterConnectors.

A RouterConnector provides an association between a message type, connector, and formatter. This decouples the formatting of the message from the chosen connector.

ConnectorIfc handles the communication between the application and the external service. It is responsible for locating the service, establishing a connection, and interacting with the service using appropriate protocols.

FormatterIfc translates the raw data from the message into the format expected by the external service. It also translates the response from the remote service into the format expected by the application.

Once a message has been sent with a request type to the MessageDispatcher it will get the instance of MessageRouter that is configured for that request type from the instantiated list. The processing is then delegated to the MessageRouter. The MessageRouter will route the request message to the list of connectors that are configured for that request. There can be multiple connectors that can be defined to process the same request message.

The connector framework provides all the building blocks to realize any integration requirement with a combination of connectors, formatters, ChainedConnectors, RoutingRules and JMX notifications. The XML configuration ties up the various blocks to implement any integration requirement.

#### **Store Inventory Management Server**

Inventory web service component deployed in Store Inventory Management server provides the entry point into the application for the various functionalities.

#### **Store Inventory Management DB**

Store Inventory Management inventory database.

## **Error Handling**

Error handling is limited to logging errors during the inventory lookup. The exceptions such as IOException and invalidItem that occur during WSService communication are re-thrown as WSException, as well as logged for error tracking and resolution.

## **Logging**

Point-of-Service-to-Store Inventory Management uses Log4J for logging. The following logging levels can be used:

- Info: For logging information messages.
- Debug: For logging all the debug messages.
- Error: For logging application errors.

The logging level can be configured with log4j.xml.



## Implementation Configuration

### Data Import Spring Configurations

The system has been designed to support a pluggable model. The DIMP Controller, ImportTranslator, ImportController, ImportDAO, MessageLogger and scheduler are all designed to be configurable at deployment time. This is accomplished through the use of Spring as a deployment configuration framework. Each of these classes is only accessed through their interface. Therefore, any new implementations only need to support the interfaces to be used by the subsystem. Introducing an alternate implementation is done through updates to the Spring properties or context files. No additional code changes are necessary.

Table 3–1 includes the set of Spring bean IDs used for each of the pluggable components.

---

**Note:** 1 to  $2^{64} - 1$  is the logical range of the batchSize, though database performance may require the upper limit to be much smaller than that. Only the implementation team will be able to determine what the actual upper limit should be based upon database performance.

---

**Table 3–1 Spring Bean IDs Used For Each Of The Pluggable Components**

Spring bean ID	Provided implementation	Default Configuration
service_MerchandiseHierarchyImportTranslator	com._360commerce.commerceservices.item.hierarchy.importdata.MerchandiseHierarchyImportTranslator	batchSize=1000
service_StoreHierarchyImportTranslator	com._360commerce.commerceservices.store.hierarchy.importdata.StoreHierarchyImportTranslator	batchSize=1000
service_TaxImportTranslator	com._360commerce.commerceservices.tax.importdata.TaxImportTranslator	batchSize=100
service_EmployeeImportTranslator	com._360commerce.commerceservices.employee.importdata.EmployeeImportTranslator	batchSize=1000

**Table 3-1 Spring Bean IDs Used For Each Of The Pluggable Components**

Spring bean ID	Provided implementation	Default Configuration
service_CustomerImportTranslator	com._360commerce.commerceservices.customer.importdata.CustomerImportTranslator	batchSize=1000
service_ItemImportTranslator	com._360commerce.commerceservices.item.importdata.ItemImportTranslator	batchSize=1000
service_PricingImportTranslator	com._360commerce.commerceservices.pricing.importdata.PricingImportTranslator	batchSize=1000
service_CurrencyImportTranslator	com._360commerce.commerceservices.currency.importdata.CurrencyImportTranslator	batchSize=1000
service_ImportSequence	com._360commerce.commerceservices.importdata.ImportSequence	
service_ImportInitiator	com._360commerce.commerceservices.importdata.ImportInitiator	executeImport=false
service_ImportTranslatorMap	com._360commerce.commerceservices.importdata.ImportTranslatorMap	
service_ImportIOAdapter	com._360commerce.commerceservices.importdata.EEImportIOAdapter	
service_MessageBuilder	com._360commerce.commerceservices.importdata.MessageBuilder	prefix=***DIMP:
DIMP_Scheduler	org.springframework.scheduling.quartz.SchedulerFactoryBean	triggers=service_ImportJobTriggerAutoStartup=true ApplicationContextSchedulerContextKey=applicationContextWaitForJobsToCompleteOnShutdown=true

These settings can be found in the `ServiceContext.xml` file packaged in the `config.jar` under the `/config/context` package.

The `web.xml` in `WEB-INF` directory has the following configuration under the `web-app` section.

```
<context-param>
<param-name>contextConfigLocation</param-name>
<param-value>/WEB-INF/DataImportScheduler.xml</param-value>
</context-param>
```

The following servlet should also be configured to start up automatically. The servlet loads the context configuration files necessary for starting DIMP's bundle-polling mechanism. Because the `DataImportScheduler.xml` file is configured in the context, this file is loaded by the servlet. In the context, the `SchedulerFactoryBean` is configured to start on load; hence it is invoked and starts the scheduler timer. The timer intervals can be configured from `spring.properties`. See [spring.properties](#).



```

<servlet>
<servlet-name>context</servlet-name>
<servlet-class>org.springframework.web.context.ContextLoaderServlet</servlet-class>
>
<load-on-startup>1</load-on-startup>
</servlet>

```

Table 3–2 includes additional sets of Spring bean IDs used for each of the pluggable components.

**Table 3–2 Additional Spring Bean IDs Used For Each Of The Pluggable Components**

Spring bean ID	Provided implementation	Additional configuration
persistence_ImportController	com._ 360commerce.commerceservices.importdata.ImportController	batchSize=1000
persistence_MerchandiseHierarchyImportDAOTarget	com._ 360commerce.commerceservices.item.hierarchy.importdata.dao.MerchandiseHierarchyImportDAO	dataSource=persistence_dataSource
persistence_StoreHierarchyImportDAOTarget	com._ 360commerce.commerceservices.store.hierarchy.importdata.dao.StoreHierarchyImportDAO	dataSource=persistence_dataSource
persistence_TaxImportDAOTarget	com._ 360commerce.commerceservices.tax.importdata.dao.TaxImportDAO	dataSource=persistence_dataSource
persistence_EmployeeImportDAOTarget	com._ 360commerce.commerceservices.employee.importdata.dao.EmployeeImportDAO	dataSource=persistence_dataSource
persistence_ItemImportDAO	com._ 360commerce.commerceservices.item.item.importdata.dao.ItemImportDAO	dataSource=persistence_dataSource
persistence_PricingImportDAO	com._ 360commerce.commerceservices.pricing.importdata.dao.PricingImportDAO	dataSource=persistence_dataSource
persistence_CurrencyImportDAO	com._ 360commerce.commerceservices.currency.importdata.dao.CurrencyImportDAO	dataSource=persistence_dataSource
persistence_CustomerImportDAO	com._ 360commerce.commerceservices.customer.importdata.dao.CustomerImportDAO	dataSource=persistence_dataSource
persistence_ImportErrorHandler	com._ 360commerce.commerceservices.importdata.ImportErrorHandler	dataSource=persistence_dataSource
persistence_PricingElementsLoader	com._ 360commerce.commerceservices.pricing.importdata.PricingElementsLoader	
persistence_TaxElementsLoader	com._ 360commerce.commerceservices.item.item.importdata.TaxElementsLoader	

These settings can be found in the PersistenceContext.xml file packaged in the config.jar under the /config/context package.

By default, the ImportController's batch size is set to 1000 and all the translators (except TaxImport) are also using the same. Each individual translator can be configured separately to optimize the import per the size of the data operation. Spring sets the batch size value onto the translator when instantiated using the propertyConfigurer. It is the responsibility of the translator to call setBatchSize(int) with that value onto the ImportController.

---

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**Note:** Although the application ships with a default batch size set to 1000, the optimum batch size for every deployment is unknown. Determining the optimum size will depend on critical factors only known at deployment including, but not limited to, application server and database sizing. DIMP will perform faster with fewer batches, for example, a higher batch size, but care must be taken not to raise the size too high and exceed the data transaction timeout controlled by the middleware.

---

---

Notice that the ID of the DAO beans end with Target. This is because the ID that is actually used by the application returns a Proxy Bean configured to intercept method calls to the DAO and associate transactions with them. Upon ImportExceptions thrown by those methods, the transaction is rolled back. This is an example of Aspect Orient Programming whereby Spring has provided the mechanism to handle the transaction management..

Several configuration files exist containing settings specific to DIMP. Properties are read when the server starts, so any changes require a server restart before they take effect.

## spring.properties

Find spring.properties in one of the following locations:

```
<INSTALL_DIR>\profiles\AppSrv01\properties
```

```
<INSTALL_DIR>/10.1.3.4/OracleAS_1/j2ee/orbo-inst/applib/spring.properties
```

The following is an example spring.properties file:

```
#####  
## Global settings (applicable to OC4J and WAS) ##  
#####  
  
# directory in which incoming data import bundles arrive  
importdata.file.path=C:/temp/dataimport/incoming  
  
# directory in which dimp bundles are archived after processing  
importdata.archive.path=C:/temp/dataimport/archive  
  
# true/false whether data import scheduler should scan importdata.file.path  
execute.import=false  
  
# the delay in milliseconds to start the import and price change triggers (900000  
= 15 minutes)  
import.scheduler.startdelay=60000  
  
# the delay between import scheduler executions (86400000 = 24 hours)
```

```

import.scheduler.repeatinterval=86400000

# name of the DIMP logger config file
logger.filename=dimplogger

# default import data batch size for ImportController
importdata.batchsize=1000

# Specific import type batch size to override the default size.
# When the attribute is set with a value of 0 then the default batch size is used.
# The attribute is mandatory to be mentioned along with a non null value. The
value can be 0.

merchandisehierarchy.importdata.batchsize=${importdata.batchsize}
storehierarchy.importdata.batchsize=${importdata.batchsize}
tax.importdata.batchsize=100
currency.importdata.batchsize=${importdata.batchsize}
customer.importdata.batchsize=${importdata.batchsize}
employee.importdata.batchsize=${importdata.batchsize}
item.importdata.batchsize=${importdata.batchsize}
pricing.importdata.batchsize=${importdata.batchsize}

#KeyStore Encryption Properties
keyStoreEncryption.providerName=SunJCE
keyStoreEncryption.hashAlgorithmName=SHA-256
#keyStoreEncryption.jndiName=eis/keystoreconnector
keyStoreEncryption.jndiName=eis/keystoreconnector
keyStoreEncryption.implementationClassName=oracle.retail.stores.simkeystore.simint
erface.SimKeyStoreEncryptionService

```

`importdata.file.path` and `importdata.archive.path` are file-system dependent. Windows systems would use paths such as:

```
C:/temp/dataimport/incoming
```

Linux systems would use paths such as:

```
/tmp/dataimport/incoming
```

---

**Note:** Take care on systems that have more than one Back Office or Central Office or a combination of both: do not configure each to point to the same directory; they will race each other for the incoming bundles.

---

`execute.import` determines whether or not data imports execute in the environment. Its default is **false**. Set this to **true** to enable DIMP.

`import.scheduler.startdelay` is a value, in milliseconds, that determines the interval from when the Quartz scheduler starts and the import process is executed for the first time. For example, a value of 60000 means that the scheduler is delayed for one minute.

`import.scheduler.repeatinterval` is a value, in milliseconds, that determines how often the import process is run.

`logger.filename` points to another properties file containing the string values that can be customized for DIMP messages.

## dimplogger.properties

This is the file referred to by the value, `logger.filename`, in `spring.properties`. It contains text values that can be customized to make DIMP messages easily distinguishable in the `oracleretail` log file.

Every DIMP message appears with the `dimp.prefix`. `dimp.text1`, `dimp.text2` and `dimp.text3` are used depending on how much information is supplied by the underlying system.

## Archive File Format

The Archive File is of the following format:

```
META-INF
  MANIFEST.MF
ItemImport-12345-20032-007.xml
PriceImport-12345-20032-007.xml
StoreHierarchy.xml
... .
```

The suggested file naming convention for the archive is as follows:

```
[arbitrary_portion]-[store_id]-[YYYYMMDD]-[NNN].jar
```

Where `[arbitrary_portion]` can be used by the implementation team for any value, and `[NNN]` is the batch ID in the range of 0 through  $2^{32}-1$ , or 2,147,483,647 (because of the limitations of the XSD `int` datatype). This is a sequential number that is used to allow more than one bundle with the same `[YYYYMMDD]`, if more than one exists on the server at a time. When more than one file does exist, the file creation time is used to determine the order in which they are processed. The date is only available for visual reference. If the file name is not formatted as above, the values in the manifest are used instead. However, if both the archive file name and the file names within the manifest contain a batch ID, the value in the archive file name takes precedence.

There is no restriction on the file names and they can be in any format. But the exact file names have to be listed in the `MANIFEST.MF`.

The format of the `MANIFEST.MF` is as follows

```
Manifest-Version: 1.0

# This manifest describes the contents of an archive referred to as a
# bundle. The following two values list the ID of the batch that
# produced this bundle and the ID of the destination store to receive
# it. The BatchID should be numeric less than 2^32-1.

BatchID: <N>
StoreID: <NNNNN>

# The following section lists the files contained in this bundle archive.
# Each key should begin with "FileN" without quotes and N being a number.
# The value of the key consists of a bundle entry file name followed
# by hard brackets containing a list of files that should be processed
# before it.
#
# e.g. File1: ItemImport.xml[TaxImport.xml,StoreHierarchyImport.xml]
#
# The order of the files or their dependency list is not important.
```

```
File1: <filename1>[<optional dependencies>]
...
FileN: <filenameN>[<optional dependencies>]
```

With the exception of manifest.mf, path names should not be used when creating the manifest. In the figure below, note that the path column is empty except for meta-inf, the path for manifest.mf.

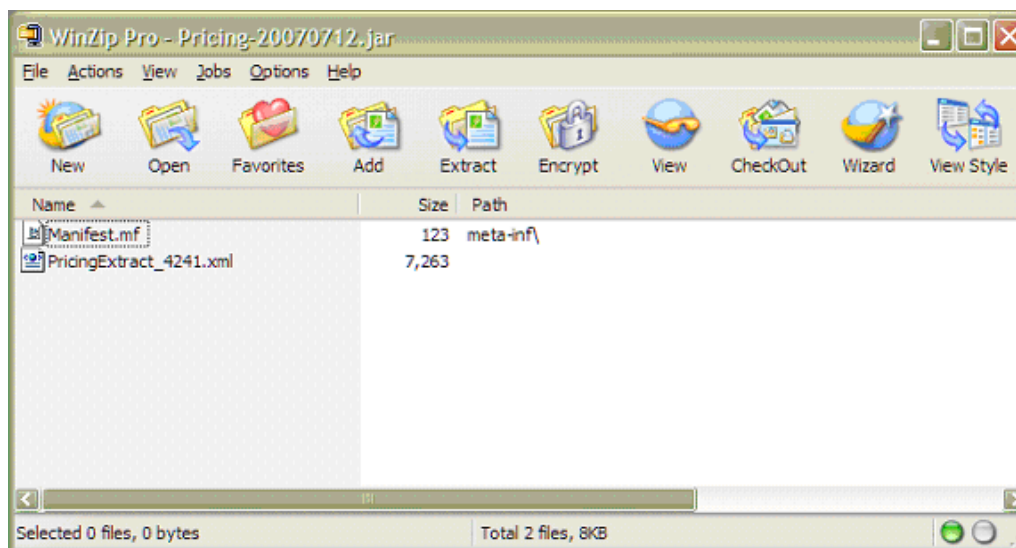
---

**Note:** WinZip can be used to create a bundle, inspect the bundle, as well as add, delete, or modify the XML contents. Care should be taken to use text editors that will not corrupt the contents, as often happens when using Notepad. Alternately, use the following *jar* command line utility (from a Java Standard Development Kit) to create a bundle:

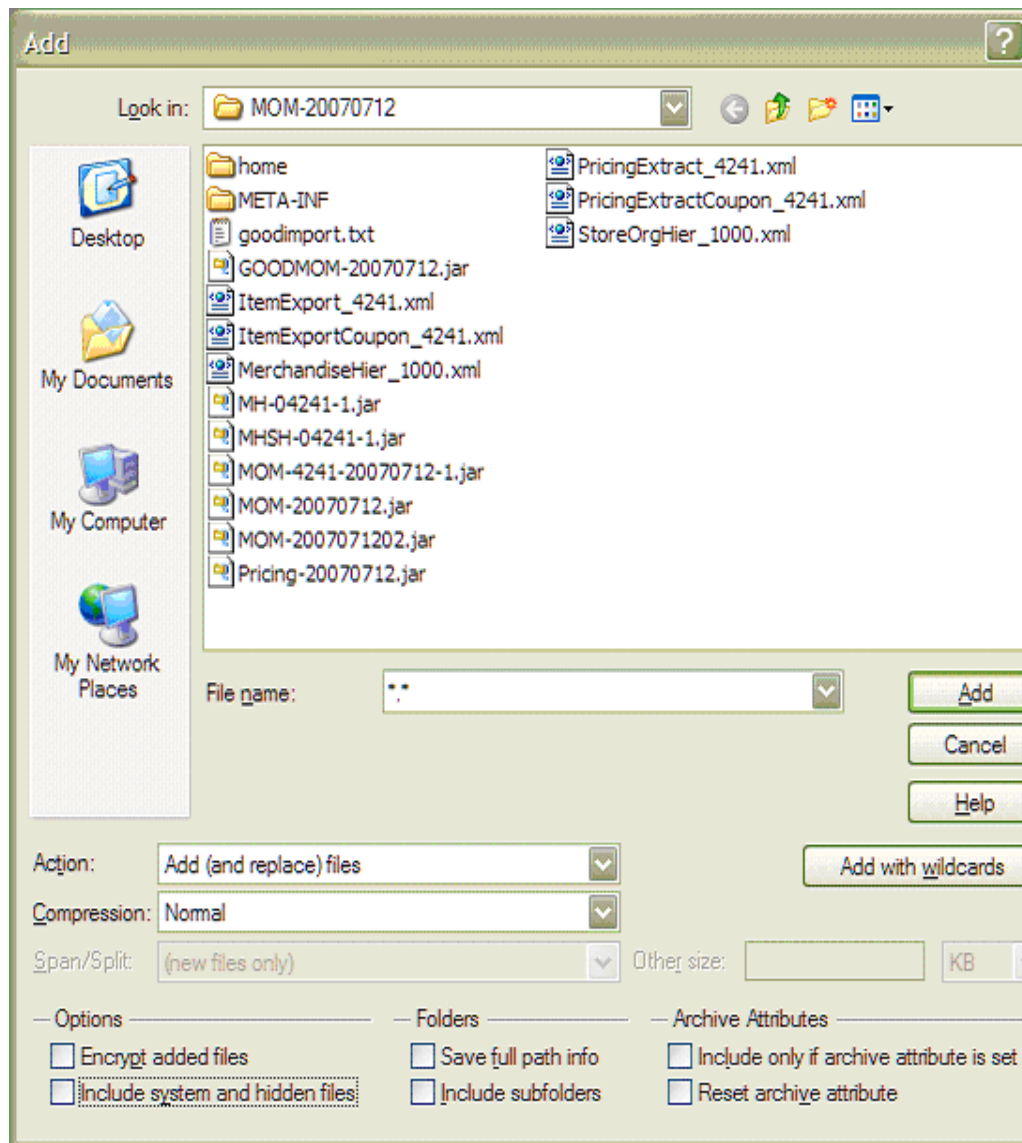
```
C:\temp\dataimport\archive>%JAVA_HOME%\bin\jar -cvfm test_
coupon3.jar manifest_details.txt PricingImportSample_
addCouponDiscount.xml ItemImportSample_addCoupon.xml
```

---

**Figure 3-1 Adding Files To a Jar**



In the following screen shot of the dialog box for adding files to a WinZip archive, note that the **Save full path info** option at the bottom is unchecked.

**Figure 3–2 Adding Files To A WinZip Archive**

The following is an example of a manifest file:

```
Manifest-Version: 1.0
```

```
# This manifest describes the contents of an archive referred to as a
# bundle. The following two values list the ID of the batch that
# produced this bundle and the ID of the destination store to receive
# it. The BatchID should be numeric less than 2^32-1.
```

```
BatchID: 1
StoreID: 04241
```

```
# The following section lists the files contained in this bundle archive.
# Each key should begin with "FileN" without quotes and N being a number.
# The value of the key consists of a bundle entry file name followed
# by hard brackets containing a list of files that should be processed
# before it.
#
```

```
# e.g. File1: ItemImport.xml [TaxImport.xml, StoreHierarchyImport.xml]
```

```
#
# The order of the files or their dependency list is not important.

File1: TaxImport.xml[]
File2: MerchandiseHierarchyImport.xml[]
File3:
ItemImport.xml[TaxImport.xml,MerchandiseHierarchyImport.xml,StoreHierarchyImport.xml]
File4: ItemImport2.xml[ItemImport.xml]
File5: PriceImport.xml[ItemImport2.xml]
File6: StoreHierarchyImport.xml[]
File7: EmployeeImport.xml[StoreHierarchyImport.xml]
```

## Merchandising System Configuration

If the retailer is integrating with a merchandising system, it is assumed that the retailer is setting up items within a merchandising system, and not using this feature in Back Office. If the retailer chooses to add or edit an item within Back Office, then that item data might be overridden by the next download from a merchandising system.

Some data fields are defaulted to the values shown in [Table 3–3](#).

**Table 3–3 Merchandising System Default Values in the Back Office Item Maintenance Screen**

Back Office Data Field	Default Value when Integrating with a Merchandising System or Limitation
Cost	0
Class	Items belong to one class only
Manufacturer	Null
Planogram	Null
Labels/Tags Template Type	Default
Serialized	FALSE
Restocking Fee	FALSE
Activation Required	No
Registry Eligible	No
Employee Discount Eligible	Yes
Damage Discount Eligible	Yes
Size Entry Required	No
Authorized for Sale	Active
Item Department	The first department in the drop down list. If no Item Department is specified, then the value is defaulted to the first value in the drop down list.

Service items (non-merchandise items that are non-inventory) need to be loaded separate from the download process.

In a merchandising system, differentiators 1 and 2 are sent as values and are mapped to COLOR and SIZE in Point-of-Service.

- 1 = COLOR
- 2 = SIZE

## Price Management System Configuration

If the retailer is integrating with a price management system, it is assumed that the retailer is setting up items within a price management system, and not using this feature in Back Office. If the retailer chooses to add or edit an item within Back Office, that item data might be overridden by the next download from a price management system.

---

**Note:** You must edit the Data Definition Language (DDL) before building the store's database when integrating with a price management system.

In the files `CreateTableTemporaryPriceChangeItem.sql` and `CreateTablePriceDerivationRule.sql` there are the following two lines:

```
-- Uncomment and use this index for price management system
integrations
-- CREATE UNIQUE INDEX ITM_TMP_PRM_IDX ON MA_ITM_TMP_PRC_CHN (ID_
PRM, ID_PRM_CMP, ID_PRM_CMP_DTL);
```

Remove the dashes that start the second line so that when the database is built, these three columns (that contain price management system IDs) create a unique index.

---

During this phase of the integration, some data fields are defaulted to the values shown in [Table 3-4](#).

**Table 3-4 Price Management System Default Values**

Back Office Screen	Back Office Data Field	Default Value when Integrating with a Price Management System or Limitation
Discount Rule	Start Time	0:00
Discount Rule	End Time	23:59:59
Discount Rule	Source	A price management system does not support promotions defined at the Department level.
Discount Rule	Target	A price management system does not support promotions defined at the Department level.
Discount Rule	Source Threshold	None
Discount Rule	Source Limit	None
Discount Rule	Target Threshold	None
Discount Rule	Target Limit	None
Discount Rule	Number of Times Per Transaction	-1
Discount Rule	Accounting Method	Discount
Discount Rule	Allow Source to Repeat	Yes
Discount Rule	Deal Distribution	Target
Discount Rule	Target Quantity	1
Price Maintenance	Start Time	0:00



**Table 3–4 Price Management System Default Values (Cont.)**

<b>Back Office Screen</b>	<b>Back Office Data Field</b>	<b>Default Value when Integrating with a Price Management System or Limitation</b>
Price Maintenance	End Time	23:59:59
Price Maintenance	Status	This field is deprecated and no longer used. The status is determined from the effective and expiration dates.
Price Maintenance	Template Type	Default

## Oracle Retail Strategic Store Solutions to a Store Inventory Management System Configurations

See the following for more details on the configuration options for the integration with a Store Inventory Management application:

- [Appendix: Oracle Retail Point-of-Service Inventory Inquiry](#)
- [Appendix: Realtime Point-of-Service-to-Oracle Retail Store Inventory Management Updates](#)
- [Appendix: Serial Numbers](#)



## Capacity Planning

This section lists the approximate hard drive sizes that are required at each store to be able to support the Data Import project.

The following assumptions were made to arrive at an approximate capacity:

- The archival period is one week.
- The frequency is one import bundle per day.
- Tax, Customer and Currency imports where not included in the bundles.
- Peak Load for the EMPLOYEE Import is 30 employees per file.
- The Peak Load Capacity of each file is taken into consideration for the estimation. See [Table 4-1, File Sizes](#).
- The average compression ratio in creating a jar file is considered to be 60%.
- As the frequency is one bundle per day, and the archival period is one week, therefore the maximum number of files on the disk is eight.
- A footprint on the DDI (Data Distribution Interface) on the Store Server is considered to be the size of one bundle and added to the final estimate. The footprint on the DDI is not part of the scope of the DIMP.
- Because the peak load size for Merchandise Hierarchy is not defined, a load of 5000 records is estimated.

[Table 4-1](#) identifies the file sizes for components in the data import at a store.

**Table 4-1 File Sizes**

Type of Import	One-Record Size in Bytes	Peak Load (Number of Records)	Peak File Size in Bytes
Item	950.00	15,000,000.00	14,250,000,000.00
Pricing	1,600.00	820,000.00	1,312,000,000.00
Store	710.00	5,000.00	3,550,000.00
Merchandise	300.00	5,000.00	1,500,000.00
Employee	1,400.00	30.00	42,000.00

**Total Size of Files**

15,567,092,000.00 Bytes

[Table 4-2](#) identifies the sizes of data import bundles.

**Table 4–2 Bundle Size**

Bundle Size (jar Size)	Assuming 60% Compression Ratio in creating a jar	9,340,255,200.00	Bytes
		8,900.00	MB
Approximate Bundle Size		8.69	GB

Table 4–3 identifies the required hard-drive capacities to enable a data import.

**Table 4–3 Hard Drive Capacity**

Seven files in Archive + One File in current		71,200.00	MB
		69.53	GB
Approximate Hard Drive Size to retain the Bundles		70.00	GB
Footprint on DDI Store Server (the DDI remains the responsibility of the implementation team to implement) - assuming size of one Bundle		78.69	GB

**Required Hard Drive Capacity (Approximate)**

80.00 GB

**Table 4–4 Item Import Data Volumes**

<b>Data Volumes</b>		
Item	800,000 – 1.5 million for peak season 5000 – 15,000 for delta	1.5 million
Item Location	See Item	See Item
Item (Merchandise) Hierarchy	number of departments groups number of hierarchies	number of departments number of groups number of hierarchies
Organizational (Store) Hierarchy	5000 stores, 6 levels number of regions number of districts per region number of stores per district.	5000 stores, 6 levels
Tax data	See Item (since any tax information is limited to item-related attributes such as tax group ID) *Tax information does not come from a merchandising system.	See Item (since any tax information is limited to item-related attributes such as tax group ID) *Tax information does not come from a merchandising system.

**Pricing Import Data Volumes**

Data Volumes: 800000 price changes per day per store.

---

---

## Customization Notes

### Data Import Extension Points and Development

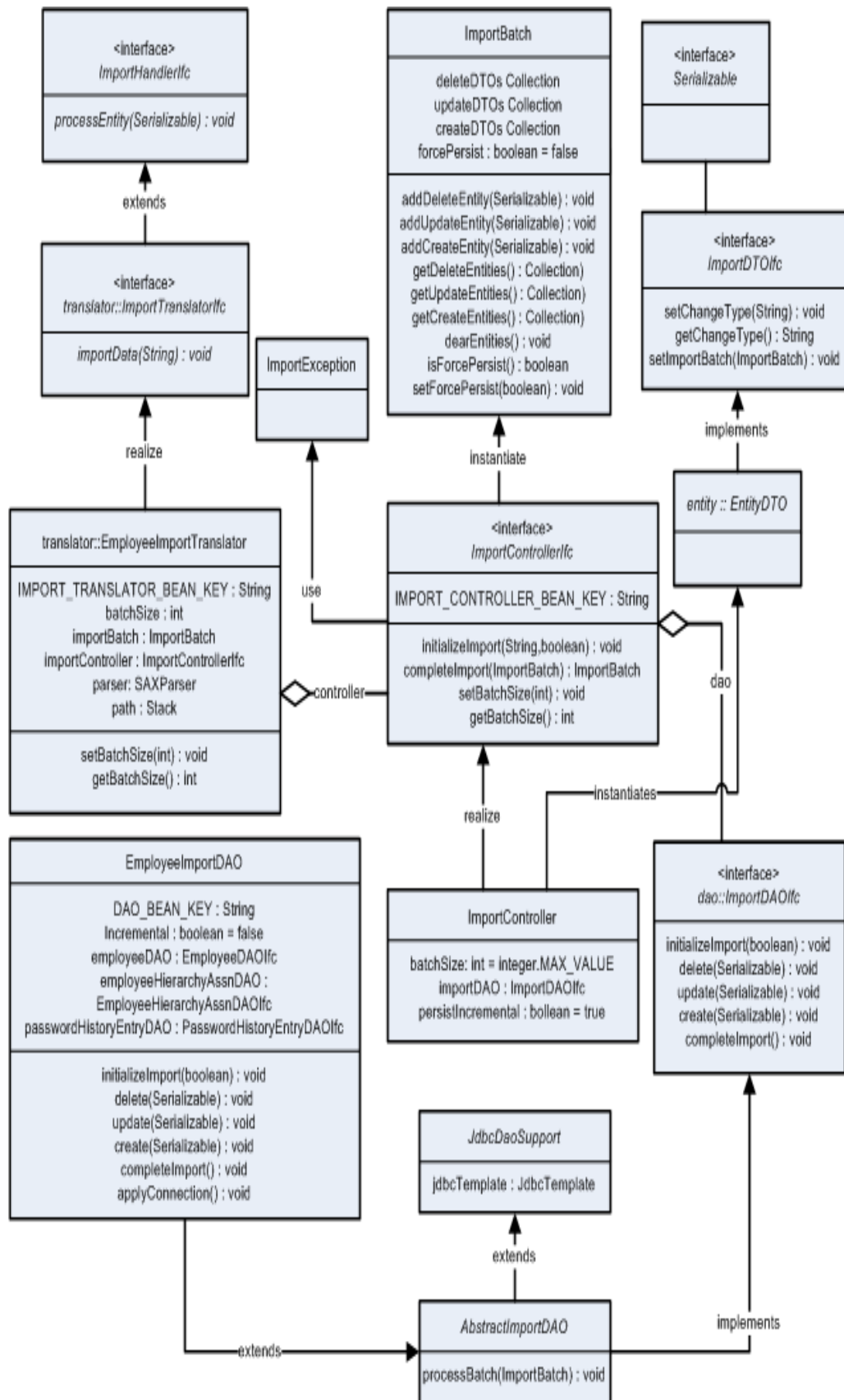
Oracle Store Solutions has provided not only extension points for enhancing or modifying the capabilities of the existing data imports, but there are also tools provided for jump-starting an altogether new data import. Do the following to create a new data import module:

1. Compose an XSD to which the import data conforms. Follow patterns set in existing XSDs for determining order of type declarations.
2. Generate sample XML based on the XSD. This can be done manually or by using a tool such as the Eclipse EMF plug-in. See:  
<http://www.eclipse.org/>
3. Map the XSD to the Data Model.
4. Use SAXParserGenerator with XSD.
5. Use DAOGenerator to generate data access objects (DAO) for tables mapped to.
6. Rename DAO classes to match logical names of tables.
7. Delete duplicate DTOs or DAOs that might exist in other packages and that can be reused.
8. Update DAOIfc method parameters to pass actual DTO objects.
9. Remove column names from UPDATE\_SQL that are not updated during update procedure from DAO and SQLIfc.
10. Update DAO get\*Statement() methods to map DTO fields to PreparedStatement buckets.
11. Create a test that reads the XML and sends it to translator. How the XML is created or read is not important at this time, nor is using Spring or JUnit or AppServer.

The following sections discuss these steps in more detail. Where these steps overlap with steps for enhancement (as opposed to steps for creating new imports), the enhancement steps are identified.

First, extension points are identified, and techniques for enhancing existing data imports are described. Each of the previously mentioned DIMP modules (Taxation, Merchandise Hierarchy, Store Hierarchy, and Employee) follow the same patterns of implementation and vary in minor details only. We concentrate on Employee. The following diagram is the Employee Data Import Static Model.

Figure 5-1 Employee Data Import Static Model



## Import Adapter and Translator

The entry point for data imports is the `ImportIOAdapterIfc`. It is configured through a Spring context as either `EEImportIOAdapter`, for JCA implementations, or `FileImportIOAdapter` for direct file I/O implementations. The IO Adapter retrieves the bundles from the file system, determines the processing order, and passes the XML stream data to the `ImportInitiator`, which determines the import type from the payload and passes the string to a translator. The `ImportInitiator` (as the `BeanLocator`) provides an `ImportTranslatorIfc` from the service context by passing the key `EmployeeImportTranslator.IMPORT_TRANSLATOR_BEAN_KEY`, for example.

The following example shows the `EEImportIOAdapter` implementation in use:

```
<!-- Import IO Adapter Implements com._
360commerce.commerceservices.importdata.ImportIOAdapterIfc -->
<bean id="service_ImportIOAdapter" class="com._
360commerce.commerceservices.importdata.EEImportIOAdapter">
</bean>
<!--<bean id="service_ImportIOAdapter" class="com._
360commerce.commerceservices.importdata.FileImportIOAdapter">
```

## SAXParserGenerator

If creating a new data import module and starting with a defined XSD, a simple utility can be run to generate code for a Translator, SAX handlers, simple DTO, and a skeleton Import DAO. The following is an example of how to run this utility.

### **Example 5–1** *SAXParserGenerator utility command prompt*

```
<root>\modules\utility>java
com._360commerce.codegen.importtranslator.SAXParserGenerator "C:\Data
Import\Design\Employee\EmployeeImport.xsd"
com._360commerce.commerceservices.employee.importdata
../../commerceservices/employee/src
```

This command line example shows that the utility program is Java-based and takes three arguments:

- The location of the XSD file.
- The desired package name for the generated source code.
- The directory in which to place new source code files.

This utility can be configured as an executable target in your favorite Integrated Development Environment (IDE) so this utility can be run again as changes continue to be made to the XSD which defines the format of the new data input.

The code generation uses the Java-based Velocity templates and APIs. See:

<http://jakarta.apache.org/velocity>

The templates can be found at:

```
<root>/modules/utility/templates/
```

## Manually Editing Generated Code

The generated code requires additional manual editing before it can be used. For example, the `ImportDAO` has only the barest of implementations in its methods. Add code to pass various DTOs to the correct DAO that can handle it.

Appropriate DTOs might already exist in the codebase. Examine the attributes of the pre-existing DTO to see if it or the generated DTO should be used. In some cases, additional code might need to be added. For example, if you consider that a single-entity DTO usually represents a single record in the database, the SAX handlers are coded to not process child DTOs passed to the SAX handlers until the DTO that a SAX Handler creates is successfully processed.

**Example 5–2 EmployeeAccessHandler Process DTO Before Children**

```
/**
 * End handling this element. Calls {@link
 * ImportHandlerIfc#processEntity(java.io.Serializable)}
 * @throws SAXException
 */
public void end() throws SAXException
{
    try
    {
        // process this first
        parent.processEntity(employeeAccessDTO);

        // process all its children
        Iterator iter = children.iterator();
        while (iter.hasNext())
        {
            Serializable child = (Serializable)iter.next();
            parent.processEntity(child);
        }
    }
    catch (ImportException e)
    {
        logger.error("Could not end element " + getText(), e);
        throw new SAXException("Could not end element " + getText(), e);
    }
}
```

However, in some cases, such as when there are important attributes that are needed to fill the DTOs, and which need to be persisted immediately, the call to `parent.processEntity(Serializable)` can be commented out of the `end()` method and added to the `start(Attributes)` method. The `start(Attributes)` method is called when parsing the beginning of the XML element. Notice in the following example, the value for "Incremental" defaults to true if it does not exist.

**Example 5–3 EmployeeImportHandler Process DTO During Start**

```
/**
 * Start handling this element by inspecting its attributes, if any.
 * @param attributes the attributes given.
 * @throws SAXException
 */
public void start(Attributes attributes) throws SAXException
{
    String incremental = attributes.getValue("Incremental");
    Boolean bIncremental = (incremental != null)? Boolean.valueOf(incremental)
: Boolean.TRUE;

    employeeImportDTO.setEmployeeImportIncrementalAttribute(bIncremental.booleanValue(
));

    try
```



```

    {
        // process this first
        parent.processEntity(employeeImportDTO);
    }
    catch (ImportException e)
    {
        logger.error("Error starting import" + employeeImportDTO, e);
        throw new SAXException("Error starting import" + employeeImportDTO,
e);
    }
}

```

There also might be a scenario where parent XML element values, such as IDs, are required for child DTO objects. These attributes might have to be added manually to the DTOs and set by the handlers. See the Merchandise Import DTO, LevelDTO as an example, and the handlers that call its set methods.

If it seems that the SAX handlers or the DTOs are missing attributes for defined XML elements, there might be errors in the XSD that the SAXParserGenerator cannot decipher. Ensure that your XSD validates properly based upon the schema at:

<http://www.w3.org/2001/XMLSchema>

## Metadata

The top-level element of each import includes metadata pertaining to the import bundle. Among other possible uses, this data is included in import bundle tracking and error logging. The following is an example XML fragment. Consult the development team for the status of data import schemas beyond this release.

```

<ItemImport
    Priority="0"
    FillType="FullIncremental"
    Version="1.0"
    Batch="1"
    CreationDate="2001-12-17T09:30:47.0Z"
    ExpirationDate="2007-12-17T09:30:47.0Z"
    xsi:noNamespaceSchemaLocation="ItemImport.xsd"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    . . .

```

The metadata attributes are defined as follows:

### Priority

An integer specifying the order, from lowest to highest, in which multiple files of one type in a bundle should be processed.

### FillType

The feed method: Kill And Fill, Delta Incremental, or Full Incremental. The XSD specifies which of these are allowed for an import type. For example, Tax allows only Kill And Fill, while Item allows all three.

### Version

The version of the application processing the data.

### Batch

An integer sequence number, corresponding to the ID of the process that created the file.

**CreationDate**

A timestamp identifying the file's creation time.

**ExpirationDate**

A timestamp beyond which a file has become stale and should not be processed. This attribute does not need to be present.

**ImportControllerIfc**

The current implementation of the `ImportControllerIfc` operates well in most circumstances. However, there might be circumstances that call for a different version of the controller to be plugged in. For example, a new controller might put a parsed batch onto one of many secondary queues instead of passing it synchronously to a DAO, then returning control to the translator to continue parsing the import.

The secondary queue is another thread that takes the incoming batch and passes it to an instance of the import DAO. This enables multiple batches to be processed at once.

## Strategic Store Solutions to Oracle Retail Store Inventory Management Extension Points and Development

Oracle Retail Point-of-Service integrates with Store Inventory Management through Webservice. The Store Inventory Management inventory Web service stub jar file is created and included in the application classpath. The integration with Store Inventory Management is through the connector framework. The framework is used so it can be easily customized to wire new implementations. As mentioned already, the major components of the integration, such as the request-response formatting and the connection to Store Inventory Management, are mentioned in the connector configuration XML. Custom implementation can be wired by changing the connector XML configuration. More information can be found in the following:

- [Appendix: Oracle Retail Point-of-Service Inventory Inquiry](#)
- [Appendix: Realtime Point-of-Service-to-Oracle Retail Store Inventory Management Updates](#)
- [Appendix: Serial Numbers](#)

### Creating a New Web Service Stub jar File

1. Make sure that the axis libraries are installed. If they are not installed, download and unzip axis.

The Axis libraries must be downloaded from Apache site:

<http://ws.apache.org/axis/>

2. Modify `setenv.bat`. Set up the `JAVA_HOME`, `ANT_HOME`, `PATH` and `AXIS_HOME` env variables.

Modify these variables in the `setenv.bat` file with the local installation path.

3. Currently, wsdl is generated from the property `wsdl.url` in `build.xml`. Modify this property to point to inventory Web service WSDL. You can modify this to point to your own or any other Store Inventory Management instance:

```
<property name="wsdl.url"  
value="http://<hostname>:<port>/sim-ws/simWebService?WSDL"/>
```

Change the URL of the `wsdl.url` depending on where the Store Inventory Management application is deployed.

4. In the command prompt, run **setenv.bat**.
5. Run **ant gen.stub** at the command prompt. The jar for the stub `sim-ws.jar` is generated in the same folder.



---

---

## Known Issues and Troubleshooting

### Authorized for Sale

The Oracle Retail Back Office data field **Authorized for Sale** is mapped to the status of an item at a store (item\_loc). If the item is **Active** at that location, then **true** is extracted. Other statuses, such as **Discontinued** and **Delete** cause the value **false** to be extracted.

### Clearance Pricing

Strategic Store Solutions does not support Clearance pricing. Clearance pricing coming from a price management system are considered normal Permanent Price Changes.

### Currency.XML Import Restart

When Currency.XML is imported with Fill Type **KillandFill**, the Foreign Currency Exchange Rates table in the UI is empty even though the import is successful.

Point-of-Service, Back Office and Central Office must be restarted after the currency import.

### Data Import

If an individual batch fails but the rest of the data import completes successfully, there is no retry mechanism to import only the batch that failed.

If the integrity of the incoming data cannot be guaranteed as Data Import expects, it is possible to avoid rolling back valid data within a failed batch by adjusting the size of the import batches from the default size of 1000 to 1 by editing the `spring.properties` file and restarting the application server. Note that this resolution will have a negative impact on performance.

### Data Import Field Width Maximums

All VARCHAR(255) sizes were changed to VARCHAR(250) to match a merchandising system and a price management system sizes.

This was done as of version 12.0.

## Download of Items Currently on Promotion to New Stores

In a new store situation, items currently on promotion may download to Oracle Retail Point-of-Service with the original price on the item, not the promotion price. This occurs because the import process assigns a creation date equal to the current date, but this date is after the start date of the promotion.

## Hardcoded Attributes in Merchandising System Extracts

The following lists identify attributes that are hardcoded in merchandising system extracts:

### Item Extract

- RegistryEligible = **true**
- SizeRequired = **false**
- SerializedItem = **false**
- Discountable = **true**
- DamageDiscountable = **true**
- EmployeeDiscountAllowed = **true**
- MinimumSaleUnitCount = **1**

### ItemCoupon Extract

- ItemCost = **0**
- Taxable = **false**
- Discountable = **false**
- Returnable = **false**
- EmployeeDiscountAllowed = **true**

### CouponPrice Extract

- PromoCompID = **-1**
- PromoCompDetlID = **-1**
- NbrTimesPerTrans = **1**
- AccountingMethod = **Discount**
- AllowSourceToRepeat = **false**

## Item Cost Attribute

In Item Maintenance screen, Item Cost attribute is set to **0.00** by default.

## Jar Extract

Extracts from a merchandising system and a price management system are typically scheduled to happen once per day.

## Multiple Regular Price

When multiple regular prices are passed for an item, the last regular price passed is the regular price that is used.

## Need To Escape Special Characters In XML File

Special characters in an XML file, such as <, >, & and so forth, must be escaped. For more information, see the following:

<http://www.w3.org/TR/REC-xml/>

## POSlog

For more information about the POSlog, see "POSlog Import Service" in the *Oracle Retail Central Office Operations Guide Release* and in the *Oracle Retail Back Office Operations Guide Release*.

## Preload Section of ItemImport

Data in the Preload section of ItemImport is treated as an UPS which stands for **Upsert**. DIMP tries to Update data and if fails to update, then it Inserts data.

## Price Promotion/Discount Rule endDateTime in Pricing Import XSD

A price management system Price Promotion/Discount Rule imported through DIMP that have no specified end dates will default to December 31 at 11:59 PM, 19 years in the future. That is, the endDateTime is set to `12-31-(calendar year+19) 11:59 PM`.

For example, if current year is 2009, the year in the endDateTime of promotion/Discount rule will be 2028 (2009+19):

`12-31-2028 11:59 PM`

HPQC 1384,1501

## Promotion ID Item Not On File

When a Promotion ID that is associated with an item that is greater than the value  $2^{31}$  (2,147,483,647), then that item is considered an item not on file.

Promotion ID, Promotion Component ID and Promotion Component Detail ID cannot have a value greater than the maximum allowed for a Java int datatype ( $2^{31}$ ).

## Reason Codes for Price Discount

A sales audit application is unable to identify the reason codes for a Price Discount transaction.

## RegistryEligible Field

The **RegistryEligible** field is hardcoded with the value **true** in merchandising system extracts.

## **Retail Price Field Size Limitation**

Current ORPOS column length for Unit Retail Price supports six whole digits (Decimal 8,2) only.

## **Special Order Eligible Coupons**

By default, all coupons imported through DIMP will be Special Order Eligible.

## **Store ID Maximum Length**

The Oracle Retail Strategic Store Solutions products support a maximum store ID length of five digits.

Use a store ID that is not greater than five digits in length.

## **Transaction-Level Items**

A merchandising system extracts transaction-level items only.



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## Existing Functionality Gaps

There are certain functionality gaps that exist in the Oracle Retail Strategic Store Solutions to merchandising system integration that are not remedied at this time. This section describes these functional gaps, and the suggested resolution.

### Price Management System

[Table 7-1](#) is a list of functionality gaps that exist for the Promotion data import.

**Table 7-1** *Functionality Gaps for Promotion Data Import*

Identified Functionality Gap	Suggested Resolution
A price management system does not download a start time.	Assume a start time of 00:00:00.
A price management system does not download an end time.	Assume an end time of 23:59:59.
A price management system supports a larger field (Change Value - Number) than does Strategic Store Solutions. This field is the amount, either monetary or percent, to be used to change or replace the current selling price for a sale unit of an item. Could result in loss of data in case of a very large discount amount	Gap to remain unchanged for this release.

**Table 7-1 Functionality Gaps for Promotion Data Import (Cont.)**

<b>Identified Functionality Gap</b>	<b>Suggested Resolution</b>
In a price management system, all applicable price promotions are applied. In Point-of-Service, if price promotion and discount rule apply to the same item, then the best deal is applied. If price change and discount rule or price promo apply to the same item, then both price change and promo or discount rule are applied.	A price management system turns off overlapping promotions. This ensures that only one promotion is applied to an item or location at a time.
The Item Number field is larger in a price management system than Strategic Store Solutions.	Strategic Store Solutions logs an error if the database field is exceeded.
Field for Promotion Price attribute is larger in a price management system.  Multiple promotions can be applied, and the selling price represents the results of each promotion applied in the "Apply Order." One record is downloaded for each promotion applied, and each has the same selling price. The stores system only applies the best deal, and it does so at the time the transaction is rung up.  In addition to the multiple promotions, a price management system can also apply price guides, which might specify the price ends in .99, for example. These price guides are not included in the download file.  The selling price is ignored by Point-of-Service. This results in a possible problem if Point-of-Service does not calculate the same price that a price management system sends as selling price. This discrepancy can result from rounding, price guides, and so forth.	A price management system turns off overlapping promotions. This ensures that only one promotion is applied to an item or location at a time.

[Table 7-2](#) is a list of functionality gaps that exist for the Price Change data import.

**Table 7-2 Functionality Gaps for Price Change Data Import**

<b>Identified Functionality Gap</b>	<b>Suggested Resolution</b>
A price management system supports a longer field (Selling Retail) and more precision.	Gap to remain unchanged for this release.
A price management system Item field is longer.	Item ID length remains the same in Strategic Store Solutions and a price management system. If the item ID is too long in the download file, the record is logged and discarded.
A price management system does not support description field in download file.	Optional Description field is not populated.

[Table 7-3](#) is a list of functionality gaps that exist for the Discount Rule data import.

**Table 7-3 Functionality Gaps for Discount Rule Data Import**

<b>Identified Functionality Gap</b>	<b>Suggested Resolution</b>
A price management system Item field length is longer.	Item ID length remains the same in Strategic Store Solutions and a price management system. If the item ID is too long in the download file, the record is logged and discarded.
A price management system field (Threshold Value) is longer and supports more precision.	Field length remains the same in a price management system and Strategic Store Solutions. If the threshold is a decimal value, it is logged and discarded.
A price management system Item field length is longer.	Item ID length remains the same in Strategic Store Solutions and a price management system.

**Table 7–3 Functionality Gaps for Discount Rule Data Import (Cont.)**

Identified Functionality Gap	Suggested Resolution
A price management system supports larger values and more precision than stores. Meaning of value (% , \$ , or new price) is defined by Change Type.	Field length remains the same in a price management system and Strategic Store Solutions.
A price management system does not download a start time.	Assume a start time of 00:00:00.
A price management system does not download an end time.	Assume an end time of 23:59:59.
A price management system does not support threshold or limit.	Assume no threshold
A price management system does not support the Number Of Times Per Transaction (NbrTimesPerTrans) field.	Assume -1, which means no limit to the number of times the promotion can be applied to a transaction. The NbrTimesPerTrans attribute is in the PricingImport.xsd file.
A price management system does not support the Accounting Method field.	Assume the discount.
A price management system does not directly support the Allow Source to Repeat field.	Allow source to repeat.
A price management system does not directly support the Deal Distribution field.	Assume target only.
Target Quantity field is not supported in a price management system.	Assume target quantity of 1.

## Merchandising System

Table 7–4 is a list of functionality gaps that exist for the Item import.

**Table 7–4 Functionality Gaps for Item Data Import**

Strategic Store Solutions Attribute	Identified Functionality Gap	Suggested Resolution
Cost	Cost data is not included in the Point-of-Service download file, but a merchandising system has this data. However, Point-of-Service does not access item cost data from manufacturer.	Gap to remain unchanged for this release.
Sign/Label	This is not maintained by a merchandising system.	Gap to remain unchanged for this release.
Manufacturer	Not included in the Point-of-Service download, but a merchandising system has this data.	This value is null.
Planogram	Not maintained by a merchandising system. The merchandising system has a generic attribute that could be used for this purpose.	Gap to remain unchanged for this release.
Serialized	Not maintained by a merchandising system. Point-of-Service uses this to prompt for serial number during order pickup.	Default to false for merchandising system imports.
Restocking Fee	Not maintained by a merchandising system. Point-of-Service uses this to prompt for a restocking fee during returns.	Default to false for merchandising system imports.

**Table 7–4 Functionality Gaps for Item Data Import (Cont.)**

<b>Strategic Store Solutions Attribute</b>	<b>Identified Functionality Gap</b>	<b>Suggested Resolution</b>
Activation Required	Not maintained by a merchandising system.	No attribute in a merchandising system. Not used by Point-of-Service.
Registry Eligible	Not maintained by a merchandising system.	No attribute in a merchandising system. Not used by Point-of-Service.
Employee Discount Eligible	Identifies an item as eligible for an employee discount. Not maintained by a merchandising system.	Default to true for a merchandising system imports.
Damage Discount Eligible	Identifies an item as eligible for damage discount. Not maintained by a merchandising system.	Default to true for a merchandising system imports.
Size Entry Required	Not maintained by a merchandising system. Point-of-Service uses this attribute during a sale or return to prompt for item size.	Default to false for a merchandising system imports.
Itemizing	Strategic Store Solutions assumes item data is interpreted as local time. File creation has the local a merchandising system time, but no timezone info.	Assume all Timestamps are relative to GMT.
Localization	A merchandising system data file does not contain localized data for a store.	Accepts one localized text from a merchandising system and use as all three: stores, user, customer.

[Table 7–5](#) is a list of functionality gaps that exist for the Merchandise Hierarchy import.

**Table 7–5 Functionality Gaps for Merchandise Hierarchy Data Import**

<b>Strategic Store Solutions Attribute</b>	<b>Identified Functionality Gap</b>	<b>Suggested Resolution</b>
Merchant ID	A merchandising system does not specify a merchant ID with any of the merchandise classification records sent with the Merchandise Hierarchy download.	Gap to remain unchanged for this release.

[Table 7–6](#) is a list of functionality gaps that exist for the Store Hierarchy import.

**Table 7–6 Functionality Gaps for Store Hierarchy Data Import**

<b>Strategic Store Solutions Attributes</b>	<b>Identified Functionality Gap</b>	<b>Suggested Resolution</b>
Store Class	Strategic Store Solutions does not accept class.	Gap to remain unchanged for this release.
Store Class Description	Strategic Store Solutions does not accept class description.	Gap to remain unchanged for this release.
Store Format	Strategic Store Solutions does not accept format as part of the data import.	Gap to remain unchanged for this release.
Format Name	Store does not accept format name as part of the data import.	Gap to remain unchanged for this release.

## Data Import Field Width Maximums

Some fields can potentially overflow at the database level because the fields are not specifically limited in length by the Data Import XSDs. The following table lists the XML elements that are affected.

**Table 7-7 Affected XML Elements**

Import	Elements	Maximum Column Size
Currency	CurrencyImport/Currency@IssuingCountryCode	VARCHAR(4)
	CurrencyImport/Currency@ISOCODE	VARCHAR(3)
	CurrencyImport/Currency@Name	VARCHAR(250)
	CurrencyImport/Currency@IssuingCountryNationality	VARCHAR(120)
Customer	CustomerImport/Customer@ID	VARCHAR(14)
	CustomerImport/Customer@EmployeeID	VARCHAR(10)
	CustomerImport/Customer@PreferredLanguage	VARCHAR(10)
	CustomerImport/Customer@PreferredCountry	
	CustomerImport/Customer@TaxID	VARCHAR(16)
	CustomerImport/BusinessCustomer@CompanyName	VARCHAR(120)
	CustomerImport/BusinessCustomer@TaxExemptionCertificate	VARCHAR(30)
	CustomerImport/BusinessCustomer@ExceptionReason	VARCHAR(30)
	CustomerImport/Customer@LastName	VARCHAR(120)
	CustomerImport/Customer@FirstName	VARCHAR(120)
	CustomerImport/Customer@MiddleName	VARCHAR(120)
	CustomerImport/Customer@Salutation	VARCHAR(120)
	CustomerImport/Customer@Suffix	VARCHAR(120)
	CustomerImport/Customer@BirthDate	VARCHAR(30)
	CustomerImport/BusinessCustomer@CompanyName	VARCHAR(120)
	CustomerImport/Customer/Address@Type	VARCHAR(30)
	CustomerImport/Customer/Address@Address1	VARCHAR(240)
	CustomerImport/Customer/Address@Address2	VARCHAR(240)
	CustomerImport/Customer/Address@Address3	VARCHAR(240)
	CustomerImport/Customer/Address@City	VARCHAR(120)
	CustomerImport/Customer/Address@State	VARCHAR(30)
	CustomerImport/Customer/Address@PostalCode	VARCHAR(30)
	CustomerImport/Customer/Address@Territory	VARCHAR(120)
CustomerImport/Customer/Address@Country	VARCHAR(30)	
CustomerImport/Customer/Telephone@Type	VARCHAR(30)	
CustomerImport/Customer/Telephone@Number	VARCHAR(30)	

**Table 7-7 Affected XML Elements**

<b>Import</b>	<b>Elements</b>	<b>Maximum Column Size</b>
	CustomerImport/Customer/Telephone@Ext	VARCHAR(30)
	CustomerImport/Customer/Email@Address	VARCHAR(64)
	CustomerImport/Customer@ID	VARCHAR(14)
	CustomerImport/CustomerGroup/Name	VARCHAR(120)
	CustomerImport/CustomerGroup/Description	VARCHAR(250)
	CustomerImport/CustomerGroup/Name or Description@Language	VARCHAR(10)
	CustomerImport/CustomerGroup/Name or Description@Country	
	CustomerImport/CustomerGroup/Name	VARCHAR(120)
	CustomerImport/CustomerGroup/Description	VARCHAR(250)
	CustomerImport/PricingGroup/LocalizedName@Name	VARCHAR(120)
	CustomerImport/PricingGroup/LocalizedName@Description	VARCHAR(250)
	CustomerImport/PricingGroup/LocalizedName@Language	VARCHAR(10)
	CustomerImport/PricingGroup/LocalizedName@Country	
	CustomerImport/PricingGroup/LocalizedName@Name	VARCHAR(120)
	CustomerImport/PricingGroup/LocalizedName@Description	VARCHAR(250)
Employee	Employee > EmployeeFullName	VARCHAR(250)
	Employee > EmployeeLastName	VARCHAR(120)
	Employee > EmployeeFirstName	VARCHAR(120)
	Employee > EmployeeMiddleName	VARCHAR(120)
Item	Item > RetailStoreItem > POSIdentity @SupplierID	VARCHAR(20)
	PreloadData > Color@Code	VARCHAR(20)
	Item@Color	VARCHAR(20)
	PreloadData > Size@Code	VARCHAR(10)
	Item@Size	VARCHAR(10)

**Table 7-7 Affected XML Elements**

<b>Import</b>	<b>Elements</b>	<b>Maximum Column Size</b>
Merchandise Hierarchy	PreloadData > MerchandiseGroup > Description	VARCHAR(250)
	PreloadData > POSDepartment > POSDepartmentID	VARCHAR(14)
	PreloadData > POSDepartment > ParentPOSDepartmentID	VARCHAR(14)
	HierarchyList > Hierarchy@Name	VARCHAR(250)
	HierarchyList > Hierarchy > LevelList > Level@Name	VARCHAR(120)
	HierarchyList > Hierarchy > NodeList > Node@ParentNodeID	VARCHAR(14)
	HierarchyList > Hierarchy > NodeList > Node@ID	VARCHAR(14)
Pricing	PricingImport > PriceChange @ID	VARCHAR(20)
	PricingImport > PriceChange > Item @ID	VARCHAR(14)
	PricingImport > PriceChange > Item @TemplateType	VARCHAR(8)
	PricingImport > PriceChange @TemplateType	VARCHAR(8)
	PricingImport > PricePromotion @ID	VARCHAR(20)
	PricingImport > PricePromotion @TemplateType	VARCHAR(8)
	PricingImport > PricePromotion @TemplateType	VARCHAR(8)
	DiscountRule > Sources > Source @ID	VARCHAR(14)
	DiscountRule > Targets > Target @ID	VARCHAR(14)
Store Hierarchy	PreloadData > StoreRegion > RegionID	VARCHAR(14)
	PreloadData > StoreRegion > RegionName	VARCHAR(120)
	PreloadData > StoreDistrict > DistrictID	VARCHAR(14)
	PreloadData > StoreDistrict > RegionID	VARCHAR(14)
	PreloadData > RetailStore > GeoCode	VARCHAR(10)
	PreloadData > StoreDistrict > DistrictName	VARCHAR(120)
	PreloadData > RetailStore > LocationName	VARCHAR(150)
	PreloadData > RetailStore > DistrictID	VARCHAR(14)
	PreloadData > RetailStore > RegionID	VARCHAR(14)
	PreloadData > RetailStore > GeoCode	VARCHAR(10)
	PreloadData > RetailStore > Address > AddressLine1	VARCHAR(240)
	PreloadData > RetailStore > Address > AddressLine2	VARCHAR(240)

**Table 7-7 Affected XML Elements**

<b>Import</b>	<b>Elements</b>	<b>Maximum Column Size</b>
	PreloadData > RetailStore > Address > AddressLine3	VARCHAR(240)
	PreloadData > RetailStore > Address > City	VARCHAR(120)
	PreloadData > RetailStore > Address > State	VARCHAR(30)
	PreloadData > RetailStore > Address > PostalCode	VARCHAR(30)
	PreloadData > RetailStore > Address > Territory	VARCHAR(120)
	PreloadData > RetailStore > Address > Country	VARCHAR(30)
	PreloadData > RetailStore > Address > TelephoneCountryCode	VARCHAR(30)
	PreloadData > RetailStore > Address > TelephoneAreaCode	VARCHAR(3)
	PreloadData > RetailStore > Address > TelephoneLocalNumber	VARCHAR(30)
	HierarchyList > Hierarchy@Name	VARCHAR(120)
	HierarchyList > Hierarchy > LevelList > Level@Name	VARCHAR(120)
	HierarchyList > Hierarchy > NodeList > Node@Name	VARCHAR(120)
	HierarchyList > Hierarchy > NodeList > Node@Description	VARCHAR(250)
Tax	GEOCode > GeoCodeID	VARCHAR(10)
	GEOCode > TaxJurisdictionName	VARCHAR(120)
	GEOTaxJurisdiction > GeoCodeID	VARCHAR(10)
	TaxAuthority > TaxAuthorityName	VARCHAR(120)
	TaxAuthority > GeoCodeID	VARCHAR(10)
	TaxableGroup > TaxGroupName	VARCHAR(120)
	TaxableGroup > TaxGroupDescription	VARCHAR(250)
	TaxAuthority > AddressLine	VARCHAR(240)
	TaxAuthority > City	VARCHAR(120)
	TaxAuthority > State	VARCHAR(30)
	TaxAuthority > PostalCode	VARCHAR(30)
	TaxAuthority > CountryCode	VARCHAR(30)
	TaxGroupRule > TaxTypeName	VARCHAR(30)
	TaxGroupRule > TaxRuleName	VARCHAR(120)
	TaxGroupRule > TaxRuleDescription	VARCHAR(250)



## Known Integration Gaps

The following are known gaps in the Oracle Retail Strategic Store Solutions to merchandising products integration:

### Branded Debit Card Transactions

Currently the integration for branded debit card transactions fail between Stores and a sales audit application.

### Cancel One Item and Partial Pickup of Other Item in Special Order

Currently with special order initiate, item details are not sent to a sales audit application. Only when the order is picked up or cancelled is the item record sent to a sales audit application. In the case of a partial pickup or cancellation of an existing order, the cancelled item is sent to a sales audit application with item status **S**, which is treated as a sale in the sales audit application. This behavior is not valid and a fix is being worked on to rectify this behavior in Oracle Retail Point-of-Service.

### Character Restrictions for UOMs

Retailers are restricted to only creating and using items with 2 character UOMs (Unit of Measure) as part of this integration.

A merchandising system transforms EA (Each) to UN (Unit) for the UOM in Item extracts to Strategic Store Solutions.

## Data Mismatches in Data Import

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**Note:** See [Appendix B, Appendix: XSD Files and Data Element Definition Tables](#) for more information about mapping the exported XML files to the import XSDs. This appendix contains tables that call out the maximum bytes for any column.

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### Character Restrictions for ContactAddressCity

For the Store Hierarchy Address attribute, a merchandising system extracts 240 characters while DIMP accepts only 120 characters.

HPQC 173, 174

### Character Restrictions for External Event ID

For Pricing External Event ID, a price management system extracts 11 characters while DIMP accepts only 10 characters.

DIMP can only accept  $2^{32}-1$  maximum value for External Event ID. For example, a value of 9999999999, which fits in a NUMBER(10) datatype, is too big for an integer in Java.

HPQC 190

### Character Restrictions for Item Cost/Unit Cost

A merchandising system extracts number(20,4) while DIMP accepts only number(13,4).

HPQC 166, 168

### **Character Restrictions for PriceOverrideAmount**

For Pricing PriceOverrideAmount, A price management systemt extracts absolute of (20,4) while DIMP accepts only up to (13,2).

HPQC 198, 204

### **Character Restrictions for Pricing Coupon**

For Pricing Coupon, A price management systemt extracts 250 characters while DIMP accepts only 160 characters.

HPQC 180

### **Character Restrictions for Pricing Discount Percent, Discount Amount and New Price**

For Pricing Discount Percent, Discount Amount and New Price, a price management system extracts an absolute of (20,4) while DIMP accepts only up to (10,4).

HPQC 201, 202, 211

### **Character Restrictions for PricingGroupID**

DIMP can only accept  $2^{32}-1$  maximum value for PricingGroupID. For example, a value of 9999999999, which fits in a NUMBER(10) datatype, is too big for an integer in Java.

HPQC 151, 206

### **Character Restrictions for Pricing Promo Description and Promo Name**

Promo Description: a price management systemt can extract up to 640 characters, while Oracle Retail Point-of-Service accepts only 250 characters.

Promo Name: a price management system can extract up to 160 characters, while Oracle Retail Point-of-Service accepts only 120 characters.

HPQC 199, 200

### **Character Restrictions for UPC**

DIMP accepts only 14 characters for UPC.

HPQC 179

### **Data Information for UOM**

For the Item Import Preload UOM element, a merchandising system currently uses and displays data code rather than data description in some places.

HPQC 105

### **Geocode Data Missing**

Oracle Retail Point-of-Service crashes if Geocodes are missing, and Geocodes do not exist in the XML from a merchandising system.

HPQC 177, 178

For further information on working with Geocodes, see [Geocode Tag Missing For Store](#).

## DepartmentDefaultTaxGroup

When integrated with a merchandising system, the PreloadData/POSDepartment/DepartmentDefaultTaxGroup field in the MerchandiseHierarchyImport is defaulted to 0 (zero). It is the responsibility of the implementation team to update this value in the bundle with a real TaxGroup ID for the department in question before the bundle reaches Strategic Store Solutions. Otherwise, a primary key violation might occur if zero is not an actual TaxGroup ID in the UDM.

## Discountable Attribute from a Merchandising System

The Discountable attribute for an item imported from a merchandising system is always set to **true**.

## Empty Item Classes Lists for DIMP

In Oracle Retail Back Office, **Available Classes** and **Assigned Classes** lists are empty for an item.

The menu is empty in a merchandising products-integrated environment. The retailer must define these.

## Geocode Tag Missing For Store

A merchandising system does not send GeoCode information to Oracle Retail Point-of-Service and will leave this element intentionally missing. If the GeoCode is missing during import, DIMP will default the store's GeoCode to the PostalCode if the country is **US** or **USA**. Else, the GeoCode will default to the CountryCode.

See *Oracle Retail Merchandising System Operations Guide - Batch Overviews and Designs - Volume 1 Release 12.0.7* for more information.

## Gift Card Error

Items associated with giftcards are not sent from a merchandising system. It is the retailer's responsibility to insert gift card associated item data in the item master to use gift card functionality in Oracle Retail Point-of-Service.

There can be one item number for each card denomination and one for an open amount gift card.

## Item Export: VATCode Datatype Mismatch

XML extracts varchar2(6) while XSD accepts number(38).

## Layaway Deletion Fee

**Layaway Deletion Fee** is sent to a sales audit application as Non-Merchandise-Item which is not accepted by a sales audit application.

A sales audit application expects **Layaway Deletion Fee** to be delivered as a record type TTEND. Instead, it is sent as a record type TITEM.

## Missing Encryption Key For Saencrypt.pc

It is assumed that clients will generate their key. So a key file is not part of the release. Strategic Store Solutions generates the key (file) and a merchandising system reads the key from the file.

For more information about keys see [Extending the RTLog Encryption Model](#) in chapter 5.

## POSDepartmentID

When an item is imported without a POSDepartmentID, that particular item not associated with a POSDepartment. When the item is viewed in Back Office, the POSDepartment list defaults its selection to the first department in the list.

## Postal Code

Strategic Store Solutions permits a store postal code up to 30 characters. But Strategic Store Solutions expects a US postal code to be a five digit number.

Validation in the Strategic Store Solutions backend is done to ensure that US postal code is a five digit number.

Any data created in a merchandising system that does not satisfy these conditions causes the Strategic Store Solutions uploads to fail.

## Predefined Store ID

Store IDs reflect physical store locations. The integration infrastructure must route data objects from a merchandising system to the appropriate physical store location servers using Store ID.

Data created in a merchandising system using store IDs that are not configured as Stores in the Strategic Store Solutions results in this data being ignored by Strategic Store Solutions.

## Price Changes and Price Promotions

Default Value when integrating Oracle Retail Back Office with a price management system:

Attribute	Default Value
Start Time	0:00 AM
End Time	11:59 PM
Status	This field is deprecated. The status will be determined by the effective and expiration dates.
Template Type	Default
Source	Price management system does not support promotions defined at the Department level.
Target	Price management system does not support promotions defined at the Department level.
Source Threshold	None

Attribute	Default Value
Source Limit	None
Target Threshold	None
Target Limit	None
Number of Times Per Transaction	1
Accounting Method	Discount
Allow Source to Repeat	Yes
Deal Distribution	Target
Target Quantity	1

### Pricing Extract: Start Date and End Date Mismatch

XML extracts varchar2(30) while XSD accepts timestamp(9).

### Pricing Extract: Store ID Datatype Mismatch

XML extracts 10 chars while XSD accepts only 5 chars.

### Pricing Group ID: Data Mismatch

XML extracts only number(10) while XSD accepts upto number(22).

Right now, the java data type is int (2^32) and cannot take values greater than 4294967295 (NUMBER 10 in the database).

### Third-party Tax and Employee Information

Currently, all third-party Tax and Employee information must be presented in a specific file format for consumption by Central Office.

Implementation team need to be aware of this file format.

Tax and Employee files each have an XML Schema Definition just like other DIMPs. For more information about Tax and Employee XML Schema Definitions, see [Appendix: XSD Files and Data Element Definition Tables](#).

### Till Opening and Closing

The integration with a sales audit application requires that tills are only opened and closed once per business day.

### UTF-8

UTF-8 is a required character set for the database. DIMP supports multi-byte characters in the XML and puts this data into the database as UTF-8 character set.



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## Appendix: Discount Rules – Any or All

Release 12.0 and previous versions of Oracle Retail Point-of-Service treats a collection of Buy items (also called sources) in a DiscountRule, as well as the collection of Get items (also called targets), as **All required** before that rule's criteria are considered satisfied. This means that all sources and targets of a rule must exist in a purchase before that rule is applied to the transaction. A price management system enables Any item in a collection of sources or Any item in a collection of targets to exist in the transaction for the discount to take affect.

Subsequent enhancements to Stores behavior enable either **Any** or **All**. This provides for much tighter integration to a price management system.

During import of a DiscountRule, a quantity must be specified when an Any qualifier is given for either the source or target. These two new quantities are added as columns to the PriceDerivationRule (RU\_PRDV) table:

```
QU_AN_SRC  
QU_AN_TGT
```

When the Any quantities for source or target are **zero** or less, Oracle Retail Point-of-Service considers this to mean that all sources or targets are required. Otherwise, when the Any quantities for source or target are **one** or greater, that quantity is the minimum required for the source or target to activate the discount.

When left unspecified during import, sources and targets are imported as **Any 1**. The Any quantity should not be confused with the quantity specified by the source or target. For example, the Any quantity can be set to **1**, but the source quantity can be set to **3**. Three items that match the source criteria must exist before that one source will meet the Any 1 qualification..

When a discount rule contains the **Any** option, and the number of available choices of sources or targets exceed the any quantity, the system must determine how to sort the items in order to know which items participate in the discount rule. The sorting algorithm varies based on the discount rule and whether or not the items participate as both sources and targets within that rule (that is, whether the sources are discounted):

- When the same items participate as both sources items and targets (that is, whether the sources receive the discount), the system sorts the source items from most expensive to least expensive to determine which source items should participate in the discount rule.
- When the same items do not participate as both sources and targets, the system sorts the source items from least expensive to most expensive and chooses the first options until the any quantity is met.

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- Targets are always sorted and chosen from most expensive to least expensive and chosen in order, unless the rule specifies `BuyNoGetXgetLowestPricedXatZ%off`, in which case the least expensive target items are chosen first.



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## Appendix: XSD Files and Data Element Definition Tables

This chapter provides the XML Schema Definitions (XSD) of the following Data Import data types:

- [Currency Import](#)
- [Customer Import](#)
- [Employee Import](#)
- [Item Import](#)
- [Merchandise Hierarchy Import](#)
- [Pricing Import](#)
- [Store Hierarchy Import](#)
- [Tax Import](#)

The XSD defines the rules for which external systems may interface with Stores applications through Data Import. An XSD specifies the format for XML documents that are sent to Data Import. Any XML that is imported through Data Import is expected to validate successfully against the appropriate XSD for its type. Data Import does not perform a validity check. It is the responsibility of the sending party to send proper, conforming data. Invalid XML is not parsed correctly and either the invalid parts are ignored or a parsing exception is generated.

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**Note:** For more information about the tables presented in this appendix, see the following documents:

- *Oracle Retail Strategic Store Solutions Entity Relationship Diagrams, Volume 1 - Subject Areas*
  - *Oracle Retail Strategic Store Solutions Entity Relationship Diagrams, Volume 2 - Overviews*
- 
- 

### Currency Import

[Table B-1](#) identifies the XSD elements in the CurrencyImport.xsd file.

**Table B-1 Currency Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
Currency CO_CNY	CurrencyID	ID_CNY_ICD	INTEGER		This ID will be generated by the system.
	IssuingCountryCode	LU_CNY_ISSG_CY	VARCHAR(4)	CurrencyImport/Currency@IssuingCountryCode	
	ISOCountryCode	CD_CNY_ISO	VARCHAR(3)	CurrencyImport/Currency@ISOCode	
	CurrencyDescription	DE_CNY	VARCHAR(250)	CurrencyImport/Currency@Name	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 250/4 = 60.
	IssuingCountryNationality	DE_DNY_ISSG_NAT	VARCHAR(120)	CurrencyImport/Currency@IssuingCountryNationality	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	CurrencyBaseFlag	FL_CNY_BASE	CHAR(1)	CurrencyImport/Currency@IsBaseCurrency	
	CurrencyScale	QU_CNY_SCLE	INTEGER	CurrencyImport/Currency@Scale	
	CurrencyPriority	AI_CNY_PRI	INTEGER	CurrencyImport/Currency@Priority	
	FinancialNetworkCurrencyCode	CD_CNY_FN_NET	VARCHAR(20)	No mapping available	
ExchangeRate CO_RT_EXC	ExchangeRateEffectiveDate	DC_RT_EXC_EF	DATE	CurrencyImport/ExchangeRate@EffectiveDate	
	ExchangeRateExpirationDate	DC_RT_EXC_EP	DATE	CurrencyImport/ExchangeRate@ExpirationDate	
	CurrencyID	ID_CNY_ICD	INTEGER	CurrencyImport/ExchangeRate@CurrencyCode	The CurrencyID is determined by matching the ISOCode in the Currency table.
	MinimumCurrencyAmount	LL_CNY_EXC	DECIMAL(13,2)	CurrencyImport/ExchangeRate@MinimumAmount	
	ToBuyAmount	MO_RT_TO_BUY	DECIMAL(13,6)	CurrencyImport/ExchangeRate@ToBuyAmount	
	ToSellAmount	MO_RT_TO_SL	DECIMAL(13,6)	CurrencyImport/ExchangeRate@ToSellAmount	
	ServiceFeeAmount	MO_FE_SV_EXC	DECIMAL(13,2)	CurrencyImport/ExchangeRate@ServiceFeeAmount	

**Example B-1 CurrencyImport.xsd**

```
<?xml version="1.0" encoding="UTF-8" ?>
```

```

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">

  <xs:annotation><xs:documentation>
Currency Import Schema. Copyright 2008 Oracle. All rights reserved.
</xs:documentation></xs:annotation>

  <xs:include schemaLocation="../common.xsd"></xs:include>
  <xs:element name="CurrencyImport" type="CurrencyImport_type">
  <xs:annotation><xs:documentation>
Top-level element holding a collection of Currency and
ExchangeRate elements.
</xs:documentation></xs:annotation>
</xs:element>

  <xs:complexType name="CurrencyImport_type">
  <xs:sequence>
  <xs:element name="Currency" type="Currency_type" minOccurs="0"
maxOccurs="unbounded" />
  <xs:element name="ExchangeRate" type="ExchangeRate_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
  <xs:attribute name="FillType" type="FillType_subtype" use="required" />
  <xs:attribute name="CreationDate" type="xs:dateTime" />
  <xs:attribute name="ExpirationDate" type="xs:dateTime" />
  <xs:attribute name="Version" type="xs:string" />
  <xs:attribute name="Priority" type="xs:int" />
  <xs:attribute name="Batch" type="xs:int" />
</xs:complexType>

  <xs:complexType name="Currency_type">
  <xs:annotation><xs:documentation>
Represents a single currency's information. Note that IssuingCountryCode
and Priority are required for new adds.
</xs:documentation></xs:annotation>
  <xs:attribute name="ChangeType" type="ChangeType_type" default="ADD"/>
  <xs:attribute name="ISOCCode" type="CurrencyCode_type" use="required"/>
  <xs:attribute name="IssuingCountryCode" type="Code_type"/>
  <xs:attribute name="Name" type="Description_type"/>
  <xs:attribute name="IssuingCountryNationality" type="Name_type"/>
  <xs:attribute name="IsBaseCurrency" type="xs:boolean" default="false"/>
  <xs:attribute name="Scale" type="xs:int" default="2"/>
  <xs:attribute name="Priority" type="xs:int"/>
</xs:complexType>

  <xs:complexType name="ExchangeRate_type">
  <xs:annotation><xs:documentation>
Represents a single exchange rate information. Note that EffectiveDate
and ExpirationDate are required for new adds. Because of the way exchange rate is
queried, the expiration date must be the day after expiration.
</xs:documentation></xs:annotation>
  <xs:attribute name="ChangeType" type="ChangeType_type" default="ADD"/>
  <xs:attribute name="CurrencyCode" type="CurrencyCode_type" use="required"/>
  <xs:attribute name="MinimumAmount" type="Amount_type"/>
  <xs:attribute name="EffectiveDate" type="xs:date"/>
  <xs:attribute name="ExpirationDate" type="xs:date"/>
  <xs:attribute name="ToBuyAmount" type="Rate_type"/>
  <xs:attribute name="ToSellAmount" type="Rate_type"/>
  <xs:attribute name="ServiceFeeAmount" type="Amount_type"/>
</xs:complexType>

```

```

<xs:simpleType name="Rate_type">
<xs:restriction base="xs:decimal">
<xs:totalDigits value="13"/>
<xs:fractionDigits value="6"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="Code_type">
  <xs:annotation><xs:documentation>
ISO-3166 based four character code denoting which country issues
the Currency.
</xs:documentation></xs:annotation>
<xs:restriction base="xs:string">
<xs:maxLength value="4"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="FillType_subtype">
<xs:restriction base="xs:string">
<xs:enumeration value="KillAndFill" />
<xs:enumeration value="FullIncremental" />
</xs:restriction>
</xs:simpleType>

</xs:schema>

```

The following is an example CurrencyImport XML file:

**Example B-2 CurrencyImport.xml**

```

<?xml version="1.0" encoding="UTF-8"?>
<CurrencyImport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="CurrencyImport.xsd" Priority="0"
FillType="FullIncremental" Version="1.0" Batch="1"
CreationDate="2001-12-17T09:30:47.0Z"
ExpirationDate="2027-12-17T09:30:47.0Z">

<!-- Example of deleting a currency by ISO code. -->
<Currency
ChangeType="DEL"
ISOCODE="USD"/>

<!-- Example of adding a Currency. -->
<Currency
ChangeType="ADD"
ISOCODE="USD"
IssuingCountryCode="US"
Name="USD"
IssuingCountryNationality="U.S."
IsBaseCurrency="true"
Scale="2"
Priority="0"/>

<!-- Example of updating a Currency. -->
<Currency
ChangeType="UPD"
ISOCODE="CAD"
IssuingCountryCode="CA"
Name="CAD"

```

```

        IssuingCountryNationality="Canadian"
        IsBaseCurrency="false"
        Scale="2"
    Priority="1"/>

    <!-- An example of deleting all rates for Canadian Dollars -->
    <ExchangeRate
    ChangeType="DEL"
    CurrencyCode="CAD" />

    <!-- An example of deleting a specific rate for Canadian
    Dollars. The dates are part of the primary key. -->
    <ExchangeRate
    ChangeType="DEL"
    CurrencyCode="CAD"
    EffectiveDate="2008-05-26"
    ExpirationDate="2008-06-02" />

    <!-- An example of adding buy/sell rates for Canadian Dollars
    assuming base currency is USD. 1 USD=1.00598 USD. -->
    <ExchangeRate
    ChangeType="ADD"
    CurrencyCode="CAD"
    MinimumAmount="0.00"
    EffectiveDate="2008-05-26"
    ExpirationDate="2008-06-02"
    ToBuyAmount="0.994053"
    ToSellAmount="0.994053"
    ServiceFeeAmount="0.00" />

    <!-- An example of updating buy/sell rates for Euros
    assuming base currency is USD. 1 EUR=1.554 USD. -->
    <ExchangeRate
    ChangeType="UPD"
    CurrencyCode="EUR"
    MinimumAmount="0.00"
    EffectiveDate="2008-05-26"
    ExpirationDate="2008-06-02"
    ToBuyAmount="0.643459"
    ToSellAmount="0.643459"
    ServiceFeeAmount="0.00" />

</CurrencyImport>

```

## Customer Import

Table B–2 identifies the XSD elements in the CustomerImport.xsd file.

Table B-2 Customer Import XSD Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
Party PA_PRTY	PartyID	ID_PRTY	INTEGER		Generated by system for each insert of new customer.
	PartyLegalOrganization Code	LU_ORG_LG	VARCHAR(20)	No mapping available	
	PartyTypeCode	TY_PRTY	VARCHAR(20)		CUST
Customer PA_CT	CustomerID	ID_CT	VARCHAR(14)	CustomerImport/Customer@ID	
	PartyID	ID_PRTY	INTEGER		PartyID generated above.
	CustomerFullName	NM_CT	VARCHAR(250)		Created by system by appending last name to first name.
	EmployeeID	ID_EM	VARCHAR(10)	CustomerImport/Customer@EmployeeID	Should be null if this customer is not an employee of the company.
	CustomerStatusCode	STS_CT	INTEGER	CustomerImport/Customer@Status	<ul style="list-style-type: none"> <li>■ Inactive=0</li> <li>■ Active=1</li> <li>■ Deleted=2</li> </ul>
	EncryptedAccountNumber	ID_NCRPT_ACTN_CRD	VARCHAR(250)	CustomerImport/Customer@EncryptedHouseAccountNumber	The XML value should be a hexadecimal string of the encrypted byte array.
	HashedAccountNumber	ID_HSH_ACNT	VARCHAR(80)	No mapping available	
	MaskedAccountNumber	ID_MSK_ACNT_CRD	VARCHAR(20)	No mapping available	
	CustomerLocale	LCL	VARCHAR(10)	CustomerImport/Customer@PreferredLanguage CustomerImport/Customer@PreferredCountry	The combined XML values should be a string parsable by java.lang.Locale
	CustomerTaxID	ID_TAX	VARCHAR(16)	CustomerImport/Customer@TaxID	
CustomerPricingGroup	ID_PRCGP	INTEGER	CustomerImport/Customer@PricingGroupID	Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.	
CustomerBatchID	ID_CT_BTCH	INTEGER	No mapping available		
BusinessCustomer ORGN_CT	OrganizationID	ID_ORGN	INTEGER		PartyID generated above.
	PartyID	ID_PRTY	INTEGER		PartyID generated above.

Table B-2 Customer Import XSD Element Mapping Table(Cont.)

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	OrganizationName	ORGN_NAME	VARCHAR R(120)	CustomerImport/BusinessCustomer@CompanyName	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	TaxExemptionCertificate	TX_EXM_CF	VARCHAR R(30)	CustomerImport/BusinessCustomer@TaxExemptionCertificate	
	ExceptionReason	EXM_RSN	VARCHAR R(30)	CustomerImport/BusinessCustomer@ExceptionReason	
Contact PA_CNCT	ContactID	ID_CNCT	INTEGER		PartyID generated above.
	ContactTypeCode	TY_CNCT	VARCHAR R(20)		CUST
	PartyID	ID_PRTY	INTEGER		PartyID generated above.
	ContactLastName	LN_CNCT	VARCHAR R(120)	CustomerImport/Customer@LastName	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	ContactFirstName	FN_CNCT	VARCHAR R(120)	CustomerImport/Customer@FirstName	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	ContactMiddleName	MD_CNCT	VARCHAR R(120)	CustomerImport/Customer@MiddleNameString	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	ContactFullName	NM_CNCT	VARCHAR R(250)		Created by system by appending last name to first name.
	ContactSalutation	LU_CNCT_SLN	VARCHAR R(120)	CustomerImport/Customer@SalutationString	For example: <ul style="list-style-type: none"> <li>■ Mr</li> <li>■ Mrs</li> <li>■ Ms</li> </ul>
	ContactSuffix	NM_CNCT_SFX	VARCHAR R(120)	CustomerImport/Customer@SuffixString	For example: <ul style="list-style-type: none"> <li>■ Jr</li> <li>■ III</li> </ul>
	ContactBirthDate	DC_CNCT	VARCHAR R(30)	CustomerImport/Customer@BirthDateDate	
	ContactGender	GNDR_CNCT	INTEGER	CustomerImport/Customer@Gender	<ul style="list-style-type: none"> <li>■ Unspecified=0</li> <li>■ Female=1</li> <li>■ Male=2</li> </ul>
	ContactCompanyName	CO_NM_CNCT	VARCHAR R(120)	CustomerImport/BusinessCustomer@CompanyName	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.

Table B-2 Customer Import XSD Element Mapping Table(Cont.)

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	ContactMail Flag	NO_MAIL_CNCT	CHAR(1)	CustomerImport/Customer@ContactByMail	
	ContactPhoneFlag	NO_PHN_CNCT	CHAR(1)	CustomerImport/Customer@ContactByPhone	
	ContactEmailFlag	NO_EML_CNCT	CHAR(1)	CustomerImport/Customer@ContactByEmail	
	ContactFunctionCode	LU_FNC_CNCT	VARCHAR(20)		No mapping available.
Address LO_ADS	AddressID	ID_ADS	INTEGER	CustomerImport/Customer/Address@Type	<ul style="list-style-type: none"> <li>■ Unspecified=-1</li> <li>■ Home=0</li> <li>■ Work=1</li> <li>■ Other=2</li> <li>■ Mail=3</li> </ul>
	AddressTypeCode	TY_ADS	VARCHAR(30)	CustomerImport/Customer/Address@Type	<ul style="list-style-type: none"> <li>■ Unspecified=-1</li> <li>■ Home=0</li> <li>■ Work=1</li> <li>■ Other=2</li> <li>■ Mail=3</li> </ul>
	PartyID	ID_PRTY	INTEGER		PartyID generated above.
	AddressLine1	A1_CNCT	VARCHAR(240)	CustomerImport/Customer/Address@Address1	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 240/4 = 60.
	AddressLine2	A2_CNCT	VARCHAR(240)	CustomerImport/Customer/Address@Address2	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 240/4 = 60.
	AddressLine3	A3_CNCT	VARCHAR(240)	CustomerImport/Customer/Address@Address3	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 240/4 = 60.
	AddressCity	CI_CNCT	VARCHAR(120)	CustomerImport/Customer/Address@City	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	AddressState	ST_CNCT	VARCHAR(30)	CustomerImport/Customer/Address@State	
	AddressPostalCode	PC_CNCT	VARCHAR(30)	CustomerImport/Customer/Address@PostalCode	
	AddressTerritory	TE_CNCT	VARCHAR(120)	CustomerImport/Customer/Address@Territory	



Table B-2 Customer Import XSD Element Mapping Table(Cont.)

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	AddressCountry	CO_CNCT	VARCHAR(30)	CustomerImport/Customer/Address@Country	
Telephone PA_PHN	PhoneID	ID_PHN	INTEGER	CustomerImport/Customer/Telephone@Type	<ul style="list-style-type: none"> <li>■ Unspecified=-1</li> <li>■ Home=0</li> <li>■ Work=1</li> <li>■ Mobile=2</li> <li>■ Fax=3</li> <li>■ Pager=4</li> <li>■ Other=5</li> </ul>
	PartyID	ID_PRTY	INTEGER		PartyID generated above.
	PhoneType	TY_PHN	VARCHAR(30)	CustomerImport/Customer/Telephone@Type	<ul style="list-style-type: none"> <li>■ Unspecified=-1</li> <li>■ Home=0</li> <li>■ Work=1</li> <li>■ Mobile=2</li> <li>■ Fax=3</li> <li>■ Pager=4</li> <li>■ Other=5</li> </ul>
	ContactArea TelephoneCode	TA_PHN	VARCHAR(30)		No mapping available.
	ContactLocal Telephone Number	TL_CNCT	VARCHAR(30)	CustomerImport/Customer/Telephone@Number	
	ContactExtension	EXT_CNCT	VARCHAR(30)	CustomerImport/Customer/Telephone@Ext	
EmailAddresses LO_EML_ADS	PartyID	ID_PRTY	INTEGER		PartyID generated above.
	EmailAddressType	TY_EM_ADS	INTEGER	CustomerImport/Customer/Email@Type	<ul style="list-style-type: none"> <li>■ Unspecified=-1</li> <li>■ Home=0</li> <li>■ Work=1</li> <li>■ Other=2</li> </ul>
	EmailAddresses	EM_ADS	VARCHAR(64)	CustomerImport/Customer/Email@Address	
CustomerAffiliation CO_CTAF	CustomerID	ID_CT	VARCHAR(14)	CustomerImport/Customer@ID	
	CustomerGroupID	ID_GP_ID	INTEGER	CustomerImport/Customer/CustomerGroupID	
	IdentityVerifiedFlag	FL_IDN_CTAF_VR_RQ	CHAR(1)	CustomerImport/Customer/CustomerGroupID@IdentityVerificationRequired	

**Table B-2 Customer Import XSD Element Mapping Table(Cont.)**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
CustomerGroup PA_GP_CT	CustomerGroupID	ID_GP_ID	INTEGER	CustomerImport/CustomerGroup@ID	Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.
	CustomerGroupName	NM_GP	VARCHAR(120)	CustomerImport/CustomerGroup/Name	Populate if no locale specified.
	CustomerGroupDescription	DE_GP_CT	VARCHAR(250)	CustomerImport/CustomerGroup/DescriptionString250	Populate if no locale specified.
CustomerGroupI18N PA_GP_CT_I18	CustomerGroupID	ID_GP_ID	INTEGER	CustomerImport/CustomerGroup@IDInt	
	Locale	LCL	VARCHAR(10)	CustomerImport/CustomerGroup/Name or Description@Language CustomerImport/CustomerGroup/Name or Description@Country	
	CustomerGroupName	NM_GP	VARCHAR(120)	CustomerImport/CustomerGroup/Name	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	CustomerGroupDescription	DE_GP_CT	VARCHAR(250)	CustomerImport/CustomerGroup/Description	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 250/4 = 60.
PricingGroup CO_PRCGP	PricingGroupID	ID_PRCGP	INTEGER	CustomerImport/PricingGroup@ID	This ID is sent from a merchandising system. Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.
	Name	NM_PRCGP	VARCHAR(120)	CustomerImport/PricingGroup/LocalizedName@Name	
	Description	DE_PRCGRP	VARCHAR(250)	CustomerImport/PricingGroup/LocalizedName@Description	
PricingGroupI18 CO_PRCGP_I18	PricingGroupID	ID_PRCGP	INTEGER	CustomerImport/PricingGroup@ID	

**Table B-2 Customer Import XSD Element Mapping Table(Cont.)**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Locale	LCL	VARCHAR R(10)	"CustomerImport/PricingGroup/LocalizedName@Language  CustomerImport/PricingGroup/LocalizedName@Country	
	Name	NM_ PRCGP	VARCHAR R(120)	CustomerImport/PricingGroup/LocalizedName@Name	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	Description	DE_ PRCGRP	VARCHAR R(250)	CustomerImport/PricingGroup/LocalizedName@Description	The length here is defined as the length of a single byte string. If multibyte characters are used, the max length should be 250/4 = 60.

**Example B-3 CustomerImport.xsd**

```

<?xml version="1.0" encoding="UTF-8" ?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">

  <xs:annotation><xs:documentation>
    Customer Import Schema. Copyright 2008 Oracle. All rights reserved.

    Use this schema in conjunction with a Oracle Store Systems Data Dictionary
    and the relations between the element and attribute names should be
    apparent.
  </xs:documentation></xs:annotation>

  <xs:include schemaLocation="../../../common.xsd" />
  <xs:element name="CustomerImport" type="CustomerImport_type">
    <xs:annotation><xs:documentation>
      Top-level element holding a collection of Customer elements.
    </xs:documentation></xs:annotation>
  </xs:element>

  <xs:complexType name="CustomerImport_type">
    <xs:sequence>
      <xs:element name="CustomerGroup" type="CustomerGroup_type" minOccurs="0"
        maxOccurs="unbounded" />
        <xs:element name="PricingGroup" type="PricingGroup_type" minOccurs="0"
        maxOccurs="unbounded" />
      <xs:element name="Customer" type="Customer_type" minOccurs="0"
        maxOccurs="unbounded" />
      <xs:element name="BusinessCustomer" type="BusinessCustomer_type" minOccurs="0"
        maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="FillType" type="FillType_type" use="required" />
    <xs:attribute name="CreationDate" type="xs:dateTime" />
    <xs:attribute name="ExpirationDate" type="xs:dateTime" />
    <xs:attribute name="Version" type="xs:string" />
    <xs:attribute name="Priority" type="xs:int" />
    <xs:attribute name="Batch" type="xs:int" />
  </xs:complexType>

```

```

<xs:complexType name="CustomerGroup_type">
  <xs:annotation><xs:documentation>
  Represents a group of customers that can be marketed to,
  e.g. seniors, teachers, etc. These groups are typically used
  to trigger transaction-level discounts.
  </xs:documentation></xs:annotation>
  <xs:sequence>
    <xs:element name="LocalizedNameDescription" type="LocalizedNameDescription_type"
    minOccurs="1" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="ChangeType_type" use="required"/>
  <xs:attribute name="ID" type="xs:int" use="required"/>
</xs:complexType>

  <xs:complexType name="PricingGroup_type">
    <xs:choice>
      <xs:element name="LocalizedName" type="LocalizedNameDescription_
      type" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="Name" type="NameDescription_type" minOccurs="1"
      maxOccurs="1"/>
    </xs:choice>
    <xs:attribute name="ID" type="xs:int" />
    <xs:attribute name="ChangeType" type="ChangeType_type" default="ADD"/>
  </xs:complexType>

<xs:complexType name="Customer_type">
  <xs:annotation><xs:documentation>
  Represents a single customer's information. Each Address, Telephone
  and Email should have a different Type because the Type becomes
  part of the primary key for that record.
  </xs:documentation></xs:annotation>
  <xs:sequence>
    <xs:element name="Address" type="Address_type" minOccurs="0" maxOccurs="5"/>
    <xs:element name="Telephone" type="Telephone_type" minOccurs="0" maxOccurs="7"/>
    <xs:element name="Email" type="Email_type" minOccurs="0" maxOccurs="4"/>
    <xs:element name="CustomerGroupID" type="CustomerGroupID_type" minOccurs="0"
    maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="ChangeType_type" use="required"/>
  <xs:attribute name="ID" type="ID_type" use="required"/>
  <xs:attribute name="FirstName" type="xs:string"/>
  <xs:attribute name="LastName" type="xs:string"/>
  <xs:attribute name="MiddleName" type="xs:string"/>
  <xs:attribute name="Salutation" type="xs:string"/>
  <xs:attribute name="Suffix" type="xs:string"/>
  <xs:attribute name="BirthDate" type="xs:date"/>
  <xs:attribute name="Gender" type="Gender_type"/>
  <xs:attribute name="ContactByMail" type="xs:boolean"/>
  <xs:attribute name="ContactByPhone" type="xs:boolean"/>
  <xs:attribute name="ContactByEmail" type="xs:boolean"/>
  <xs:attribute name="EmployeeID" type="EmployeeID_type"/>
  <xs:attribute name="Status" type="Status_type"/>
  <xs:attribute name="EncryptedHouseAccountNumber" type="xs:string"/>
  <xs:attribute name="PricingGroupID" type="xs:int"/>
  <xs:attribute name="PreferredLanguage" type="Language_type"/>
  <xs:attribute name="PreferredCountry" type="Country_type"/>
  <xs:attribute name="TaxID" type="xs:string"/>
</xs:complexType>

<xs:complexType name="BusinessCustomer_type">

```

```

<xs:annotation><xs:documentation>
Represents a single business's information. In this case, setting
any person attributes, like FirstName would be for the company's
contact.
</xs:documentation></xs:annotation>
<xs:complexContent>
<xs:extension base="Customer_type">
<xs:attribute name="CompanyName" type="xs:string" use="required" />
<xs:attribute name="TaxExemptionCertificate" type="xs:string" />
<xs:attribute name="ExceptionReason" type="xs:string" />
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="CustomerGroupID_type">
  <xs:annotation><xs:documentation>
    Its only necessary to specify a ChangeType when updating a customer
    and deleting the specified customer group.
  </xs:documentation></xs:annotation>
  <xs:simpleContent>
  <xs:extension base="xs:int">
    <xs:attribute name="ChangeType" type="xs:string" use="optional"
default="DEL" />
  <xs:attribute name="IdentityVerificationRequired" type="xs:boolean" />
  </xs:extension>
</xs:simpleContent>
</xs:complexType>

<xs:complexType name="Address_type">
<xs:annotation><xs:documentation>
Its only necessary to specify a ChangeType when updating a customer
and deleting the specified address.
</xs:documentation></xs:annotation>
<xs:attribute name="ChangeType" type="xs:string" use="optional" default="DEL" />
<xs:attribute name="Type" type="AddressType_type" use="required" />
<xs:attribute name="Address1" type="xs:string" use="required" />
<xs:attribute name="Address2" type="xs:string" use="optional" />
<xs:attribute name="Address3" type="xs:string" use="optional" />
<xs:attribute name="City" type="xs:string" use="required" />
<xs:attribute name="State" type="xs:string" />
<xs:attribute name="PostalCode" type="xs:string" />
<xs:attribute name="Territory" type="xs:string" />
<xs:attribute name="Country" type="xs:string" />
</xs:complexType>

<xs:complexType name="Telephone_type">
<xs:annotation><xs:documentation>
Its only necessary to specify a ChangeType when updating a customer
and deleting the specified telephone.
</xs:documentation></xs:annotation>
<xs:attribute name="ChangeType" type="xs:string" use="optional" default="DEL" />
<xs:attribute name="Type" type="TelephoneType_type" use="required" />
<xs:attribute name="Number" type="xs:string" use="required" />
<xs:attribute name="Ext" type="xs:string" />
</xs:complexType>

<xs:complexType name="Email_type">
<xs:annotation><xs:documentation>
Its only necessary to specify a ChangeType when updating a customer
and deleting the specified email.

```

```
</xs:documentation></xs:annotation>
<xs:attribute name="ChangeType" type="xs:string" use="optional" default="DEL"/>
<xs:attribute name="Type" type="EmailType_type" use="required"/>
<xs:attribute name="Address" type="xs:string" use="required"/>
</xs:complexType>

<xs:simpleType name="Gender_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Unspecified"/>
<xs:enumeration value="Female"/>
<xs:enumeration value="Male"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="EmployeeID_type">
<xs:restriction base="xs:string">
<xs:maxLength value="10"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="Status_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Inactive"/>
<xs:enumeration value="Active"/>
<xs:enumeration value="Deleted"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="AddressType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Unspecified"/>
<xs:enumeration value="Home"/>
<xs:enumeration value="Work"/>
<xs:enumeration value="Other"/>
<xs:enumeration value="Mail"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="TelephoneType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Unspecified"/>
<xs:enumeration value="Home"/>
<xs:enumeration value="Work"/>
<xs:enumeration value="Mobile"/>
<xs:enumeration value="Fax"/>
<xs:enumeration value="Pager"/>
<xs:enumeration value="Other"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="EmailType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Unspecified"/>
<xs:enumeration value="Home"/>
<xs:enumeration value="Work"/>
<xs:enumeration value="Other"/>
</xs:restriction>
</xs:simpleType>

</xs:schema>
```

The following is an example CustomerImport XML file:

**Example B-4 CustomerImport.xml**

```
<?xml version="1.0" encoding="UTF-8"?>
<CustomerImport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="CustomerImport.xsd"
    Priority="0"
    FillType="FullIncremental"
    Version="1.0"
    Batch="1"
    CreationDate="2001-12-17T09:30:47.0Z"
    ExpirationDate="2027-12-17T09:30:47.0Z">

  <CustomerGroup ID="0" ChangeType="DEL"/>

  <CustomerGroup ID="0" ChangeType="ADD">
    <Name Language="en">Group0 Name</Name>
    <Description Language="en">Customer Group 0 description</Description>
  </CustomerGroup>

  <CustomerGroup ID="1" ChangeType="ADD">
    <Name Language="en">Group1 Name</Name>
    <Name Language="fr">Grouper le Nom</Name>
    <Description Language="en">Customer Group 1 description</Description>
    <Description Language="fr">Ceci est un groupe clientèle importé</Description>
  </CustomerGroup>

  <CustomerGroup ID="2" ChangeType="ADD">
    <Name Language="en">Group2 Name</Name>
    <Description Language="en">Customer Group 2 description</Description>
  </CustomerGroup>

  <CustomerGroup ID="2" ChangeType="UPD">
    <Name Language="fr">Grouper le Nom</Name>
    <Description Language="fr">Ceci est un groupe clientèle importé</Description>
  </CustomerGroup>

  <Customer ChangeType="DEL" ID="04241990" />

  <Customer
    ChangeType="ADD"
    ID="04241990"
    FirstName="Joe"
    LastName="Smith" />

  <Customer
    ChangeType="UPD"
    ID="04241990"
    FirstName="Joe"
    LastName="Smith"
    MiddleName="P"
    Salutation="Mr"
    Suffix="Jr"
    BirthDate="1970-01-01"
    Gender="Male"
    ContactByMail="true"
    ContactByPhone="true"
    ContactByEmail="true"
```

```
EmployeeID="20027"
Status="Active"
EncryptedHouseAccountNumber="cWD4aIA1E4/LyabIBBlJ6+oMDSGhsdBj+DnzjVwr6Pk="
PricingGroupID="2"
TaxID="4444"
PreferredLanguage="en"
PreferredCountry="US">
<Address Type="Home" Address1="1234 River Rd" Address2="Apt 12" City="Round
Rock" State="TX" PostalCode="7878799" Country="US" />
<Address Type="Work" Address1="1111 Potomac Ave" Address2="Suite F"
City="Austin" State="TX" PostalCode="78756" Country="US" />
<Telephone Type="Work" Number="5125551234" Ext="4444" />
<Telephone Type="Home" Number="5125551235" />
<Telephone Type="Mobile" Number="5125551236" />
<Email Type="Home" Address="joe.smith@gmail.com" />
<Email Type="Work" Address="joe.smith@acme.com" />
<CustomerGroupID IdentityVerificationRequired="true">1</CustomerGroupID>
<CustomerGroupID IdentityVerificationRequired="true">2</CustomerGroupID>
</Customer>

<BusinessCustomer
ChangeType="ADD"
ID="04241991"
CompanyName="Acme Inc"
TaxExemptionCertificate="0123456789"
ExceptionReason="1234567890">
<Address Type="Work" Address1="1234 River Rd" Address2="Suite F" City="Austin"
State="TX" PostalCode="78756" Country="US" />
<Telephone Type="Mobile" Number="7125558989" />
</BusinessCustomer>
<BusinessCustomer
ChangeType="ADD"
ID="04241992"
CompanyName="Gizmos Inc"
TaxExemptionCertificate="01234567891"
ExceptionReason="01234567891"
FirstName="Jane"
LastName="Doe"
MiddleName="X"
Salutation="Mrs"
BirthDate="1971-10-10"
Gender="Female"
ContactByMail="true"
ContactByPhone="true"
ContactByEmail="false"
Status="Active"
EncryptedHouseAccountNumber="cWD4aIA1E4/LyabIBBlJ6+oMDSGhsdBj+DnzjVwr6Pk="
PricingGroupID="2"
PreferredLanguage="fr"
PreferredCountry="FR"
TaxID="55555">
<Address Type="Work" Address1="101 Congress Ave" City="Austin" State="TX"
PostalCode="78701" Country="US" />
<Telephone Type="Mobile" Number="7125558989" />
<Email Type="Work" Address="info@gizmos.com" />
<CustomerGroupID IdentityVerificationRequired="true">1</CustomerGroupID>
<CustomerGroupID IdentityVerificationRequired="false">2</CustomerGroupID>
</BusinessCustomer>

</CustomerImport>
```



## Employee Import

Table B-3 identifies the XSD elements in the EmployeeImport.xsd file.

**Table B-3 Employee Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
Employee PA_EM	EmployeeID	ID_EM	VARCHAR(10)	Employee/EmployeeID	
	PartyID	ID_PRTY	INTEGER	Employee/PartyID	Link to PA_PRTY not required by application.
	EmployeeLoginID	ID_LOGIN	VARCHAR(120)	Employee/EmployeeAccess/EmployeeLoginID	
	EmployeeAlternateID	ID_ALT	VARCHAR(120)	Employee/EmployeeAccess/EmployeeAltID	
	EmployeeAccessPassword	PW_ACS_EM	VARCHAR(250)	Employee/EmployeeAccess/AccessPassword	
	EmployeeName	NM_EM	VARCHAR(250)	Employee/EmployeeFullName	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
	EmployeeLastName	LN_EM	VARCHAR(120)	Employee/EmployeeLastName	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	EmployeeFirstName	FN_EM	VARCHAR(120)	Employee/EmployeeFirstName	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	EmployeeMiddleName	MD_EM	VARCHAR(120)	Employee/EmployeeMiddleName	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	EmployeeRole	ROLE_EM	VARCHAR(120)	Employee/EmployeeRole	
	SocialSecurityNumber	UN_NMB_SCL_SCTY	CHAR(9)	Employee/EmployeeSSN	
	EmployeeStatusCode	SC_EM	VARCHAR(20)	Employee/StatusCode	
	WorkGroupID	ID_GP_WRK	INTEGER	Employee/EmployeeAccess/WorkGroupID	
	EmployeeLocale	LCL	VARCHAR(10)	Employee/Locale	

**Table B-3 Employee Import XSD Element Mapping Table(Cont.)**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	NumberOfDaysValidForTempEmployees	NUMB_DYS_VLD	INTEGER	Employee/NumberOfDaysValid	Only applies to temporary employees.
	ExpirationTimeForTempEmployees	DC_EXP_TMP	DATE	Employee/TempEmployeeExpirationDate	Only applies to temporary employees.
	EmployeeType	TYPE_EMP	INTEGER	Employee/EmployeeType	0 means Standard employee. 1 means Temporary employee.
	EmployeeStoreAssignment	ID_STR_RT	VARCHAR(5)	Employee/EmployeeStoreOrHierarchyAssn/EmployeeStoreID	
	NewPasswordRequiredFlag	FL_PW_NW_REQ	CHAR(1)	Employee/EmployeeAccess/NewPasswordRequired	
	PasswordCreatedDate	TS_CRT_PW	TIMESTAMP	Employee/EmployeeAccess/PasswordCreationDate	If date is not specified, a new date is used.
	NumberOfFailedPasswords	NUMB_FLD_PW	INTEGER	0	No failed passwords inserted as it is calculated by each application.
Employee Password History MA_HST_PW_EM	EmployeeID	ID_EM	VARCHAR(10)	Employee/EmployeeID	
	PasswordCreatedDate	TS_CRT_PW	TIMESTAMP	Employee/EmployeeAccess/PasswordHistoryEntry/PasswordCreationDate	If date is not specified, a new date is used.
	EmployeeAccessPassword	PW_ACS_EM	VARCHAR(250)	Employee/EmployeeAccess/PasswordHistoryEntry/AccessPassword	
Employee Hierarchy Association EMPLOYEE_HIERARCHY_ASSN	LoginID	ID_LOGIN	VARCHAR(120)	Employee/EmployeeAccess/EmployeeLoginID	

**Table B-3 Employee Import XSD Element Mapping Table(Cont.)**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	FunctionID	ID_STRGP_FNC	INTEGER	Employee/EmployeeStoreOrHierarchyAssn/EmployeeHierarchyAssn/StoreGroupFunctionID	
	GroupID	ID	VARCHAR(10)	Employee/EmployeeStoreOrHierarchyAssn/EmployeeHierarchyAssn/NoDeID	
	GroupType	TYPE	VARCHAR(10)	Employee/EmployeeStoreOrHierarchyAssn/EmployeeHierarchyAssn/NoDeType	

**Example B-5 EmployeeImport.xsd**

```

<?xml version="1.0" encoding="UTF-8" ?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">

  <xs:annotation><xs:documentation>
  Employee Import Schema. Copyright 2006 Oracle. All rights reserved.
  </xs:documentation></xs:annotation>

  <xs:include schemaLocation="../common.xsd"></xs:include>
  <xs:element name="EmployeeImport" type="EmployeeImport_type">
  <xs:annotation><xs:documentation>
  Top-level element holding a collection of Employee elements.
  </xs:documentation></xs:annotation>
  </xs:element>

  <xs:complexType name="EmployeeImport_type">
  <xs:sequence>
  <xs:element name="Employee" type="Employee_type" minOccurs="1"
  maxOccurs="unbounded" />
  </xs:sequence>
  <xs:attribute name="FillType" type="FillType_type" use="required"/>
  <xs:attribute name="CreationDate" type="xs:dateTime"/>
  <xs:attribute name="ExpirationDate" type="xs:dateTime"/>
  <xs:attribute name="Version" type="xs:string"/>
  <xs:attribute name="Priority" type="xs:int"/>
  <xs:attribute name="Batch" type="xs:int"/>
  </xs:complexType>

  <xs:complexType name="Employee_type">
  <xs:annotation><xs:documentation>
  Represents a single employee's information.
  </xs:documentation></xs:annotation>
  <xs:sequence>
  <xs:element name="ChangeType" type="ChangeType_type" default="ADD" minOccurs="1"
  maxOccurs="1" />
  <xs:element name="EmployeeID" type="EmployeeID_type" minOccurs="1" maxOccurs="1"
  />
  </xs:sequence>

```

```

<xs:element name="EmployeeFirstName" type="xs:string" minOccurs="0" maxOccurs="1"
/>
<xs:element name="EmployeeLastName" type="xs:string" minOccurs="0" maxOccurs="1"
/>
<xs:element name="EmployeeMiddleName" type="xs:string" minOccurs="0" maxOccurs="1"
/>
<xs:element name="EmployeeFullName" type="xs:string" minOccurs="0" maxOccurs="1"
/>
<xs:element name="EmployeeSSN" type="SSN_type" minOccurs="0" maxOccurs="1" />
<xs:element name="EmployeeRole" type="xs:string" minOccurs="0" maxOccurs="1" />
<xs:element name="PartyID" type="xs:int" minOccurs="0" maxOccurs="1" />
<xs:element name="StatusCode" type="StatusCode_type" minOccurs="0" maxOccurs="1"
/>
<xs:element name="Locale" type="ID_type" minOccurs="0" maxOccurs="1" />
<xs:element name="EmployeeAccess" type="EmployeeAccess_type" minOccurs="0"
maxOccurs="1" />
<xs:element name="EmployeeType" type="StatusCode_type">
<xs:annotation><xs:documentation>
0 means 'Standard' employee, 1 means Temporary employee
</xs:documentation></xs:annotation>
</xs:element>
<xs:element name="NumberDaysValid" type="xs:int" minOccurs="0" maxOccurs="1">
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>
</xs:element>
<xs:element name="TempEmployeeExpirationDate" type="xs:date" minOccurs="0"
maxOccurs="1">
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>
</xs:element>
<xs:element name="EmployeeStoreOrHierarchyAssn"
type="EmployeeStoreOrHierarchyAssn_type" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:simpleType name="EmployeeID_type">
<xs:restriction base="xs:string">
<xs:maxLength value="10" />
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="SSN_type">
<xs:restriction base="xs:string">
<xs:maxLength value="9" />
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="StatusCode_type">
<xs:restriction base="xs:string">
<xs:enumeration value="0" />
<xs:enumeration value="1" />
</xs:restriction>
</xs:simpleType>

<xs:complexType name="EmployeeAccess_type">
<xs:annotation><xs:documentation>
Holds all information regarding access to the system.
</xs:documentation></xs:annotation>

```

```

<xs:sequence>
  <xs:element name="EmployeeLoginID" type="xs:string" />
  <xs:element name="AccessPassword" type="xs:string" />
  <xs:element name="WorkGroupID" type="xs:int" />
  <xs:element name="EmployeeAltID" type="xs:string" minOccurs="0" maxOccurs="1" />
  <xs:element name="NewPasswordRequired" type="xs:boolean" />
  <xs:element name="PasswordCreationDate" type="xs:dateTime" />
  <xs:element name="PasswordHistory" type="PasswordHistory_type" minOccurs="0"
maxOccurs="1">
</xs:element>
</xs:sequence>
</xs:complexType>

<xs:complexType name="PasswordHistory_type">
<xs:sequence>
<xs:element name="PasswordHistoryEntry" type="PasswordHistoryEntry_type"
minOccurs="1" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="PasswordHistoryEntry_type">
<xs:annotation><xs:documentation>
  Holds a single password history entry.
</xs:documentation></xs:annotation>
<xs:sequence>
<xs:element name="PasswordCreationDate" type="xs:dateTime" />
<xs:element name="AccessPassword" type="xs:string" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="EmployeeStoreOrHierarchyAssn_type">
<xs:annotation><xs:documentation>
  Holds an employee association to a store and/or a hierarchy node. Generally, only
  one of the
  enclosed elements is provided; however, there may be cases where an employee needs
  both a store
  association and a hierarchy association, so a sequence with optional elements is
  used instead of
  a choice.
</xs:documentation></xs:annotation>
<xs:sequence>
<xs:element name="EmployeeStoreID" type="RetailStoreId_type" minOccurs="0"
maxOccurs="1" />
<xs:element name="EmployeeHierarchyAssn" type="EmployeeHierarchyAssn_type"
minOccurs="0" maxOccurs="1" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="EmployeeHierarchyAssn_type">
<xs:sequence>
<xs:element name="NodeID" type="xs:string" minOccurs="1" maxOccurs="1" />
<xs:element name="NodeType" type="xs:string" minOccurs="1" maxOccurs="1" />
<xs:element name="StoreGroupFunctionID" type="xs:int" minOccurs="1" maxOccurs="1"
/>
</xs:sequence>
</xs:complexType>

</xs:schema>

```

The following is an example Employee Import XML file.

**Example B-6 EmployeeImport.xml**

```

<?xml version="1.0" encoding="UTF-8"?>
<EmployeeImport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="EmployeeImport.xsd"
Priority="0"
FillType="FullIncremental"
Version="1.0"
Batch="1"
CreationDate="2001-12-17T09:30:47.0Z"
ExpirationDate="2027-12-17T09:30:47.0Z">

  <Employee>
    <ChangeType>DEL</ChangeType>
    <EmployeeID>20027</EmployeeID>
  </Employee>

  <Employee>
    <ChangeType>ADD</ChangeType>
    <EmployeeID>20027</EmployeeID>
    <EmployeeFirstName>Guest</EmployeeFirstName>
    <EmployeeLastName>User</EmployeeLastName>
    <EmployeeMiddleName>P</EmployeeMiddleName>
    <EmployeeFullName>Guest User</EmployeeFullName>
    <EmployeeSSN>172372777</EmployeeSSN>
    <EmployeeRole>Administrator</EmployeeRole>
    <PartyID>1</PartyID>
    <StatusCode>1</StatusCode>
    <Locale>en_US</Locale>
    <EmployeeAccess>
      <EmployeeLoginID>pos</EmployeeLoginID>

<AccessPassword>cWD4aIA1E4/LyabIBB1J6+oMDSGhsdBj+DnzjVvr6Pk=</AccessPassword>
      <WorkGroupID>3</WorkGroupID>
      <EmployeeAltID>pos</EmployeeAltID>
      <NewPasswordRequired>true</NewPasswordRequired>
      <PasswordCreationDate>2001-12-31T12:00:00</PasswordCreationDate>
      <PasswordHistory>
        <PasswordHistoryEntry>
          <PasswordCreationDate>2001-12-31T12:00:00</PasswordCreationDate>
        </PasswordHistoryEntry>
      </PasswordHistory>
    </EmployeeAccess>
    <EmployeeType>0</EmployeeType>
    <EmployeeStoreOrHierarchyAssn>
      <EmployeeStoreID>04241</EmployeeStoreID>
      <EmployeeHierarchyAssn>
        <NodeID>04241</NodeID>
        <NodeType>store</NodeType>
        <StoreGroupFunctionID>1</StoreGroupFunctionID>
      </EmployeeHierarchyAssn>
    </EmployeeStoreOrHierarchyAssn>
  </Employee>
</EmployeeImport>

```

**Item Import**

[Table B-4](#) identifies the PreloadData element mapping for the ItemImport.xsd file.

Table B-4 Item Import XSD PreloadData Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
ItemColor CO_CLR	ColorCode	ED_CLR	VARCHAR(20)	PreloadData/Color@Code	
	ColorNames	NM_CLR	VARCHAR(120)	PreloadData/Color@Names	Contains a short list of names given to this color.
	Description	DE_CLR	VARCHAR(250)	PreloadData/Color@Description	
	RecordCreated Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
ItemColor18 N CO_CLR_18	ColorCode	ED_CLR	VARCHAR(20)	PreloadData/Color@Code	
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales
	LocalizedColorName	NM_CLR	VARCHAR(120)	PreloadData/Color/LocalizedNameDescription@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	LocalizedColorDescription	DE_CLR	VARCHAR(250)	PreloadData/Color/LocalizedNameDescription@Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
ItemSize CO_SZ	SizeCode	ED_SZ	VARCHAR(10)	PreloadData/Size@Code	
	ActualSize Proportion Description	DE_PRPTN_ACT_SZ	VARCHAR(250)	PreloadData/Size@ProportionDesc	
	ActualSize Type Description	DE_TYP_ACT_SZ	VARCHAR(250)	PreloadData/Size@TypeDesc	
	ActualSize Code	ED_SZ_ACT	VARCHAR(20)	PreloadSize/Size@ActualSizeCode	
	TableName	NM_TB_SZ	VARCHAR(120)	PreloadSize/Size@TableName	
	TableCode	ED_TB_SZ	VARCHAR(20)	PreloadSize/Size@TableCode	
	Table Description	DE_TB_SZ	VARCHAR(250)	PreloadSize/Size@TableDesc	
	RecordCreated Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	

**Table B-4 Item Import XSD PreloadData Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
ItemSizeI18N CO_SZ_I8	SizeCode	ED_SZ	VARCHAR(10)	PreloadData/Size@Code	
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales
	LocalizedActualSizeProportionDescription	DE_PRPTN_ACT_SZ	VARCHAR(250)	PreloadData/Size/LocalizedSizeData@ProportionDesc	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
	LocalizedActualSizeTypeDescription	DE_TYP_ACT_SZ	VARCHAR(250)	PreloadData/Size/LocalizedSizeData@TypeDesc	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
	LocalizedTableName	NM_TB_SZ	VARCHAR(120)	PreloadData/Size/LocalizedSizeData@TableName	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	LocalizedTableDescription	DE_TB_SZ	VARCHAR(250)	PreloadData/Size/LocalizedSizeData@TableDesc	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
ItemStyle CO_STYL	StyleCode	LU_STYL	VARCHAR(4)	PreloadData/Style@Code	
	StyleName	NM_STYL	VARCHAR(120)	PreloadData/Style@Name	Contains a short list of names given to this color.
	Description	DE_STYL	VARCHAR(250)	PreloadData/Style@Description	
	RecordCreated Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
ItemStyleI18N CO_STYL_I8	StyleCode	LU_STYL	VARCHAR(4)	PreloadData/Style@Code	
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales



Table B-4 Item Import XSD PreloadData Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	LocalizedStyle Name	NM_STYL	VARCHAR(120)	PreloadData/Style/LocalizedNameDescription@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	LocalizedStyle Description	DE_STYL	VARCHAR(250)	PreloadData/Style/LocalizedNameDescription@Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
UnitOf Measure CO_UOM	UnitOf MeasureCode	LU_UOM	VARCHAR(2)	PreloadData/UOM@Code	
	UnitOf MeasureType Code	TY_UOM	VARCHAR(2)	PreloadData/UOM@TypeCode	
	EnglishMetric Flag	FL_UOM_ENG_MC	CHAR(1)	PreloadData/UOM@System	"Metric" = 1
	Name	NM_UOM	VARCHAR(120)	PreloadData/UOM@Name	
	Description	DE_UOM	VARCHAR(250)	PreloadData/UOM@Description	
	DefaultUnitOf MeasureFlag	FL_DFLT_UOM	CHAR(1)	PreloadData/UOM@IsDefault	
	DefaultEntry Code	FL_CD_ENT_DFLT	CHAR(1)	PreloadData/UOM@DefaultEntryCode	
	EnabledFlag	FL_CD_ENT_ENAB	CHAR(1)	PreloadData/UOM@Enabled	
	ListSortIndex	CD_ENT_SRT	SMALLINT	PreloadData/UOM@SortIndex	
UnitOfMeasureI18N CO_UOM_I8	UnitOfMeasureCode	LU_UOM	VARCHAR(2)	PreloadData/UOM@Code	
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales
	UnitOfMeasureName	NM_UOM	VARCHAR(120)	PreloadData/UOM/LocalizedNameDescription@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .

**Table B-4 Item Import XSD PreloadData Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	UnitOfMeasureDescription	DE_UOM	VARCHAR(250)	PreloadData/UOM/LocalizedNameDescription@Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
Manufacturer PA_MF	ManufacturerID	ID_MF	VARCHAR(22)	PreloadData/Manufacturer@ID	
	Name	NM_MF	VARCHAR(120)	PreloadData/Manufacturer@Name	
	PartyID	ID_PRTY	Null value to be stored		
	RecordCreatedTimestamp	TS_CRT_RCRD	TIMESTAMP		
	RecordLastModifiedTimestamp	TS_MDF_RCRD	TIMESTAMP		
ManufacturerID18N PA_MF_I8	ManufacturerID	ID_MF	VARCHAR(22)	PreloadData/Manufacturer@ID	
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales
	LocalizedName	NM_MF	VARCHAR(120)	PreloadData/Manufacturer/LocalizedName@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
Merchandise Classification Code LU_CD_STRC_MR	Merchandise Classification Code	ID_STRC_MR_CD	VARCHAR(10)	PreloadData/Merchandise Classification@Code	
	Merchandise Classification Code Description	DE_STRC_MR_CD	VARCHAR(250)	PreloadData/Merchandise Classification@Description	
	RecordCreatedTimestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
Merchandise Classification Code18N LU_CD_STRC_MR_I8	Merchandise Classification Code	ID_STRC_MR_CD	VARCHAR(10)	PreloadData/Merchandise Classification@Code	

Table B-4 Item Import XSD PreloadData Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales
	LocalizedMerchandiseClassificationCodeDescription	DE_UOM	VARCHAR(250)	PreloadData/MerchandiseClassification/LocalizedDescription@Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 250/4 = 60.
Supplier PA_SPR	Supplier	ID_SPR	VARCHAR(20)	PreloadData/Supplier@ID	
	DUNSNumber	DU_SPR	VARCHAR(9)	PreloadData/Supplier@DUNSNumber	
	Name	NM_SPR	VARCHAR(120)	PreloadData/Supplier@Name	
	SupplierIsManufacturerFlag	FL_MF_SPR_IS	CHAR(1)	PreloadData/Supplier@IsManufacturer	
	PartyRoleTypeCode	TY_RO_PRTY	VARCHAR(20)	No Mapping Found	Null value is entered. Column is not used in database.
	PartyID	ID_PRTY	INTEGER	No Mapping Found	Null value is entered. Column is used in database.
SupplierI18N PA_SPR_I8	Supplier	LU_UOM	VARCHAR(20)	PreloadData/Supplier@ID	
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales
	LocalizedName	NM_SPR	VARCHAR(120)	PreloadData/Supplier/LocalizedName@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
DO_MSG	Message ID	ID_MSG	INTEGER	PreloadData/Message@ID	Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.
ItemMessageI18N DO_MSG_I8	Message ID	ID_MSG	INTEGER	PreloadData/Message@ID	

**Table B-4 Item Import XSD PreloadData Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Locale	LCL	VARCHAR(10)	PreloadData/Message/MsgText@Language	
	MessageDisplayName	NM_MSG_DPLY	VARCHAR(120)	PreloadData/Message/MsgText@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	MessageDisplayText	NA_MSG_DPLY	CLOB	PreloadData/Message/MsgText	

Table B-5 identifies the item element mapping for the ItemImport.xsd file.

**Table B-5 Item Import XSD Item Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
Item AS_ITM	ItemID	ID_ITM	VARCHAR(14)	Item @ID	
	ItemProductID	ID_ITM_PDT	VARCHAR(14)	No Mapping	
	DiscountFlag	FL_ITM_DSC	CHAR(1)	Item @Discountable	true = 1, false= 0
	Damage DiscountFlag	FL_ITM_DSC_DMG	CHAR(1)	Item @Damage Discountable	true = 1, false= 0
	ItemSize RequiredFlag	FL_ITM_SZ_REQ	CHAR(1)	Item @SizeRequired	true = 1, false= 0
	POS DepartmentID	ID_DPT_POS	VARCHAR(14)	Item @POS DepartmentID	
	AuthorizedFor SaleFlag	FL_AZN_FR_SLS	CHAR(1)	Item @Authorized ForSale	true = 1, false= 0
	TaxExempt Code	LU_EXM_TX	VARCHAR(20)	Item @Taxable	true = 1, false= 0
	Description	DE_ITM	VARCHAR(250)	Item/Description	
	Abbreviated Description	DE_ITM_SHRT	VARCHAR(120)	Item/ShortName	Based on the default locale. The ShortName specific to the locale is inserted into the column. When application is i81N aware, locale-specific data is inserted into the locale table.
	TypeCode	TY_ITM	VARCHAR(20)	Item @Type	Stock=STCK Service=SRVC Coupon=SCPN

Table B-5 Item Import XSD Item Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	KitSetCode	LU_KT_ST	VARCHAR(20)	Item @KitSetCode	<p><b>0</b> (Default Value) means item is not part of a kit.</p> <p><b>1</b> means it is a kit and this item is the header of the kit.</p> <p><b>2</b> means this item is one of the component of the kit.</p>
	Merchandise StructureID	ID_STRC_MR	INTEGER	Item/Merchandise Hierarchy @StructureID	Notes: Some question as to whether we are actually using this.
	Merchandise Hierarchy LevelCode	LU_HRC_MR_LV	VARCHAR(4)	Item/Merchandise Hierarchy @Level	
	Merchandise HierarchyID	ID_MRHRC_GP	VARCHAR(14)	Item/Merchandise Hierarchy	
	TaxGroupID	ID_GP_TX	INTEGER	<ul style="list-style-type: none"> <li>▪ RetailStore Item@VatCode</li> <li>▪ RetailStore Item@Tax Group</li> <li>▪ Item@Tax Group</li> </ul>	If the vatcode or the taxgroup attributes are given in the retailstoreitem tag the corresponding value only will be inserted in the ID_GP_TX column. If both of the vatcode and taxgroup attributes are not provided, the Item@taxgroup attribute is considered; otherwise it is ignored.
	Activation RequiredFlag	FL_ACTVN_RQ	CHAR(1)	Item @Activation Required	true = <b>1</b> , false= <b>0</b>
	Registry EligibleFlag	FL_ITM_RGSTRY	CHAR(1)	Item @RegistryEligible	true = <b>1</b> , false= <b>0</b>
	Merchandise Classification Code00	ID_STRC_MR_CD0	VARCHAR(10)	Item @Classification1	
	Merchandise Classification Code01	ID_STRC_MR_CD1	VARCHAR(10)	Item @Classification2	
	Merchandise Classification Code02	ID_STRC_MR_CD2	VARCHAR(10)	Item @Classification3	
	Merchandise Classification Code03	ID_STRC_MR_CD3	VARCHAR(10)	Item @Classification4	
	Merchandise Classification Code04	ID_STRC_MR_CD4	VARCHAR(10)	Item @Classification5	
	Merchandise Classification Code05	ID_STRC_MR_CD5	VARCHAR(10)	Item @Classification6	

**Table B-5 Item Import XSD Item Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Merchandise Classification Code06	ID_STRC_MR_CD6	VARCHAR(10)	Item@Classification7	
	Merchandise Classification Code07	ID_STRC_MR_CD7	VARCHAR(10)	Item@Classification8	
	Merchandise Classification Code08	ID_STRC_MR_CD8	VARCHAR(10)	Item@Classification9	
	Merchandise Classification Code09	ID_STRC_MR_CD9	VARCHAR(10)	Item@Classification10	
	PriceAudit Flag	FL_ADT_ITM_PRC	CHAR(1)	No Mapping	Null value to be entered.
	UsageCode	LU_ITM_USG	VARCHAR(20)	No Mapping	Null value to be entered.
	Name	NM_ITM	VARCHAR(120)	No Mapping	Null value to be entered.
	Substitute IdentifiedFlag	FL_ITM_SBST_IDN	CHAR(1)	No Mapping	Default value of 0.
	Order Collection Code	LU_CLN_ORD	VARCHAR(20)	No Mapping	Null value to be entered.
	PriceLineID	ID_LN_PRC	INTEGER	No Mapping	Null value to be entered.
	BrandName	NM_BRN	VARCHAR(120)	No Mapping	Null value to be entered.
	SeasonCode	LU_SN	VARCHAR(20)	No Mapping	Null value to be entered.
	FiscalYear	FY	VARCHAR(4)	No Mapping	Null value to be entered.
	Subseason Code	LU_SBSN	VARCHAR(20)	No Mapping	Null value to be entered.
	RecordCreated Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
	ManufacturerID	ID_MF	INTEGER		
ItemI18N AS_ITM_I8	ItemID	ID_ITM	VARCHAR(14)	Item@ID	
	Locale	LCL	VARCHAR(10)	No mapping available	System SupportedLocale
	Description	DE_ITM	VARCHAR(250)	Item/LocalizedNameDescription@Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 250/4 = 60.
	ItemName	NM_ITM	VARCHAR(120)	No mapping available	

Table B-5 Item Import XSD Item Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Abbreviated Description	DE_ITM_SHRT	VARCHAR(120)	Item/LocalizedNameDescription@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	BrandName	NM_BRN	VARCHAR(120)	No mapping available	
StockItem AS_ITM_STK	ItemID	ID_ITM	VARCHAR(14)	Item @ID	
	StockItemSale UnitOf MeasureCode	LU_UOM_SLS	VARCHAR(20)	Item @UOMCode	Default to <b>UN</b> for <b>units</b> is not specified.
	ColorCode	ED_CLR	VARCHAR(20)	Item @Color	
	SizeCode	ED_SZ	VARCHAR(10)	Item @Size	
	StyleCode	LU_STYL	VARCHAR(4)	Item @Style	
	SupplierID	ID_SPR	VARCHAR(20)	Item/RetailStoreItem/POIdentity @SupplierID	
	PackItem WeightCount	QW_ITM_PCK	DECIMAL(9,2)	Item @PackItemWeightCount	
	SerializedItem ValidationFlag	FL_VLD_SRZ_ITM	CHAR(1)	Item @SerializedItem	true = 1, false= 0
	RestockingFee Flag	FL_FE_RSTK	CHAR(1)	Item @RestockingFee	true = 1, false= 0
	Record Creation Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
	RetailStoreID	ID_STR_RT	VARCHAR(5)	No mapping available	
	ShelfItem ConsumerPackage Height	QL_HT_PCKG_CNS	DECIMAL(9,2)	No mapping available	
	SerializedItem ModelNumber	NM_NMB_SRZ_ITM_MDL	VARCHAR(40)	No mapping available	
	ShelfItem ConsumerPackage Width	QL_UOM_WD_PCKG_CNS	DECIMAL(9,2)	No mapping available	
	BulkToSelling UnitWasteTypeCode	TY_WST_BLK_SLS	VARCHAR(20)	No mapping available	
	SerializedItem ModelYear	CY_MDL_SRZ_ITM	VARCHAR(4)	No mapping available	

**Table B-5 Item Import XSD Item Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	ShelfItemsHeldCapacityCount	QU_CPC_HLD	DECIMAL(9,2)	No mapping available	
	UnitOfMeasureCode	LU_UOM	VARCHAR(2)	No mapping available	
	DisplayUnitTypeCode	TY_UN_DPLY	VARCHAR(20)	No mapping available	
	PackItemCubeCount	QU_CB_PCK_ITM	DECIMAL(9,2)	No mapping available	
	ShelfItemConsumerPackageDepth	QL_PCKG_CNS	DECIMAL(9,2)	No mapping available	
	SerializedItemManufacturerColorDescription	DE_CLR_MF_SRZ_ITM	VARCHAR(250)	No mapping available	
	StockItemTypeCode	TY_ITM_STK	VARCHAR(20)	No mapping available	
	BulkToSellingUnitWasteFactorPercent	PE_WST_BLK_SLS	DECIMAL(5,2)	No mapping available	
	ShelfItemConsumerPackageDimensionUnitOfMeasureCode	LU_UOM_PCKG_CNS_DMN	VARCHAR(20)	No mapping available	
	StockItemSaleUnitPrimaryMeasurementSystemCode	LU_SYS_PRMRY_MS	VARCHAR(20)	No mapping available	
	SerializedItemManufacturerSizeDescription	DE_SZ_MF_SRZ_ITM	VARCHAR(250)	No mapping available	
	PackItemUnitNumberCount	QU_UN_PCK_ITM	DECIMAL(9,2)	No mapping available	
	DisplayUnitSetUpDate	DC_UN_DPLY_ST_UP	DATE	No mapping available	
	SerializedItemManufacturerWarrantyDescriptionCode	LU_WRTY_MF_SRZ_ITM	VARCHAR(20)	No mapping available	
	ShelfItemConsumerPackageWeight	QW_WT_PCKG_CNS	DECIMAL(9,2)	No mapping available	
	DisplayUnitTakeDownDate	DC_UN_DPLY_TK_DWN	DATE	No mapping available	
	FabricDescription	DE_FBRC	VARCHAR(250)	No mapping available	
	DisplayUnitDispositionCode	DP_UN_DPLY	VARCHAR(20)	No mapping available	



Table B-5 Item Import XSD Item Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	StockItemSaleWeightOrUnitCountCode	LU_CNT_ SLS_WT_UN	VARCHAR(20)	No mapping available	
	SerializedItemStoreWarrantyDescriptionCode	LU_WRTY_ STR_SRZ	VARCHAR(20)	No mapping available	
	ShelfItemConsumerPackageWeightUnitOfMeasureCode	LU_UOM_ WT_PCKG_ CNS	VARCHAR(20)	No mapping available	
	StockItemCustomerPickupTypeCode	TY_PKP_CT_ STK_ITM	VARCHAR(20)	No mapping available	
	ShelfItemConsumerPackageSizeUnitOfMeasureCode	LU_UOM_SZ_ PCKG_CNS	VARCHAR(20)	No mapping available	
	SilhouetteDescription	DE_SLH	VARCHAR(250)	No mapping available	
	StockItemUnitPriceFactor	FA_PRC_UN_ STK_ITM	DECIMAL(9,2)	No mapping available	
	ShelfItemDsdAuthorizedFlag	FL_DSD_AZN	CHAR(1)	No mapping available	
	StockItemShelfLifePeriodDayCount	DI_PRD_SH_ LF	DECIMAL(3)	No mapping available	
	ShelfItemShelfLifeDayCount	DI_LF_SH	DECIMAL(3)	No mapping available	
	ShelfItemBrokerID	ID_BRKR	INTEGER	No mapping available	
	StockItemAvailableForSaleDate	DC_AVLB_ FR_SLS	DATE	No mapping available	
	ShelfItemStaplePerishableTypeCode	TY_ITM_ STPL_PRSH	VARCHAR(20)	No mapping available	
	StockItemEnvironmentTypeCode	TY_ENV_ STK_ITM	VARCHAR(20)	No mapping available	
	ShelfItemAisleLocation	NM_LCN_ ASL	VARCHAR(250)	No mapping available	
	StockItemSecurityRequiredTypeCode	TY_SCTY_RQ	VARCHAR(20)	No mapping available	
	ShelfItemShelfLocation	NM_LCN_SH	VARCHAR(250)	No mapping available	
	ShelfItemSideLocation	NM_LCN_SID	VARCHAR(250)	No mapping available	

**Table B-5 Item Import XSD Item Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	StockItemHazardousMaterialTypeCode	TY_MTR_HZ_STK_ITM	VARCHAR(20)	No mapping available	
	ShelfItemFacingsCount	QU_FCG	DECIMAL(9,2)	No mapping available	
	StockItemSellUnitLastReceivedBaseCostAmount	CP_UN_SL_LS_RCV_BS	DECIMAL(7,3)	No mapping available	
	StockItemSellUnitLastReceivedNetCostAmount	CP_CST_NT_LS_RCV	DECIMAL(7,3)	No mapping available	
	StockItemSellUnitLandedCostAmount	CP_UN_SL_LND	DECIMAL(7,3)	No mapping available	
	StockItemSellUnitLastReceivedCostsEstablishedDate	DC_CST_EST_LS_RCV	DATE	No mapping available	
	StockItemShrinkFlag	FL_SHRK_SH_ITM	CHAR(1)	No mapping available	
	StockItemSwellingFlag	FL_SWL_SH_ITM	CHAR(1)	No mapping available	
	ShelfItemUnitPricingRequiredFlag	FL_RQ_UN_PRC	CHAR(1)	No mapping available	
	DispositionCodeID	ID_DPSN_CD	INTEGER	No mapping available	
	SerializedItemType	TY_SRZ_ITM	VARCHAR(40)	ItemImport/Item@UINTypeString	
	SerializedItemLabelID	ID_SRZ_ITM_LB	INTEGER		
	SerialNumberCaptureTimeCode	CD_SRZ_CPT_TM	VARCHAR(20)	ItemImport/Item@UINCaptureTime	
	ExternalSerialNumberCreateFlag	FL_SRZ_CRT	CHAR(1)	ItemImport/Item@ExternalSystemCreateUIN	true = 1, false= 0
RetailStoreItem	RetailStoreID	ID_STR_RT	VARCHAR(5)	StoreID from the Manifest Meta Data	
AS_ITM_RTL_STR	ItemID	ID_ITM	VARCHAR(14)	Item @ID	

Table B-5 Item Import XSD Item Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	TaxGroupID	ID_GP_TX	INTEGER	Item/RetailStoreItem@TaxGroup Item/RetailStoreItem@VatCode	If VatCode is not provided, then only ID_GP_TX will be filled with the value of the taxgroup attribute. The VatCode will be the VAT Code Name. VatCode will have to be translated from some String (xs:string) to an Integer. The VatCode should match a name specified in RU_TX_GP.NM_RU_TX. The ID_GP_TX of the name will be the ID used to insert into AS_ITM_RTL_STR.ID_GP_TAX for the incoming VatCode.
	PermanentSaleUnitRetailPriceAmount	RP_PR_SLS	DECIMAL(8,2)	Item/RetailStoreItem/RegularPrice@PermanentPrice	
	CompareAtSaleUnitRetailPriceAmount	RP_PRC_CMPR_AT_SLS	DECIMAL(8,2)	Item/RetailStoreItem/RegularPrice@CompareAtPrice	
	SalesAgeRestrictionIdentifier	IDN_SLS_AG_RST	INTEGER	Item/RetailStoreItem@AgeRestrictionID	
	LabelTemplateID	ID_TMPLT_LB	VARCHAR(8)	Item/RetailStoreItem@TemplateID	
	RecordCreationTimestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLastModifiedTimestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
	UpdateStockOnHandFlag	FL_STK_UPT_ON_HD	CHAR(1)	No mapping available	
	SellingStatusCodeEffectiveDate	DC_ITM_SLS	DATE	No mapping available	
	SellingStatusCode	SC_ITM_SLS	VARCHAR(2)	No mapping available	
	ManufacturerSaleUnitRecommendedRetailPriceEffectiveDate	DC_PRC_MF_REC_RT	DATE	No mapping available	
	ManufacturerSaleUnitRecommendedRetailPriceAmount	RP_PRC_MF_REC_RT	DECIMAL(8,2)	No mapping available	

**Table B-5 Item Import XSD Item Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	CurrentSaleUnitRetailPriceExpirationDate	DC_PRC_SLS_EP_CRT	DATE	No mapping available	
	CurrentSaleUnitRetailPriceEffectiveDate	DC_PRC_SLS_EF_CRT	DATE	No mapping available	
	CurrentSaleUnitRetailPricePointAllowedFlag	FL_PRC_RT_PNT_ALW	CHAR(1)	No mapping available	
	CurrentSaleUnitRetailPriceTypeCode	TY_PRC_RT	VARCHAR(2)	No mapping available	
	CurrentSaleUnitRetailPriceAmount	RP_SLS_CRT	DECIMAL(8,2)	No mapping available	
	PermanentRetailPriceEffectiveDate	DC_PRC_EF_PRN_RT	DATE	No mapping available	
	PermanentRetailPricePermanentMarkdownCount	QU_MKD_PR_PRC_PR	DECIMAL(7,3)	No mapping available	
	PermanentSaleUnitRetailPriceOriginalMarkdownFlag	FL_MKD_ORGL_PRC_PR	CHAR(1)	No mapping available	
	StatusCode	SC_ITM	VARCHAR(2)	No mapping available	
POSIdentity ID_IDN_PS	RetailStoreID	ID_STR_RT	VARCHAR(5)	StoreID from the Manifest Meta Data	
	POSItemID	ID_ITM_POS	VARCHAR(14)	ItemImport/Item/RetailStoreItem/POSIdentity@POSItemID	
	ItemID	ID_ITM	VARCHAR(14)	ItemImport/Item@ID	
	ItemDescription	DE_ITM_POS	VARCHAR(250)	No mapping available	
	CurrentSaleUnitPOSRetailPriceAmount	RP_SLS_POS_CRT	DECIMAL(8,2)	No mapping available	
	FrequentShopperPointsEligibleFlag	FL_PNT_FQ_SHPR_EL	CHAR(1)	No mapping available	
	ManufacturerID	ID_MF	INTEGER	ItemImport/Item/RetailStoreItem/POSIdentity@ManufacturerID	

Table B-5 Item Import XSD Item Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Manufacturer UPC	ID_ITM_MF_UPC	VARCHAR(14)	ItemImport/Item/RetailStoreItem/POSIIdentity@UPC	
	ReturnAgentID	ID_AGNT_RTN	INTEGER	No mapping available	
	CustomerAffiliationDiscountAllowedFlag	FL_DSC_AF_DSC_ALW	CHAR(1)	No mapping available	
	CouponValue Code	LU_VT_PS_CPN	CHAR(2)	No mapping available	
	CouponEndOf OfferDate	DT_END_PS_CPN_OFR	VARCHAR(4)	No mapping available	
	MinimumSale UnitCount	QU_UN_BLK_MNM	DECIMAL(5,2)	ItemImport/Item/RetailStoreItemImport/Item/POSIIdentity@MinimumSaleUnitCount	
	MaximumSale UnitCount	QU_UN_BLK_MXM	DECIMAL(5,2)	ItemImport/Item/RetailStoreItemImport/Item/POSIIdentity@MaximumSaleUnitCount	
	MarketBasket DiscountAllowedFlag	FL_DSC_MRK_BSK_ALW	CHAR(1)	No mapping available	
	CustomerAccountDiscountAllowedFlag	FL_DSC_CT_ACNT_ALW	CHAR(1)	No mapping available	
	EmployeeDiscountAllowedFlag	FL_DSC_EM_ALW	CHAR(1)	ItemImport/Item/RetailStoreItem/POSIIdentity@EmployeeDiscountAllowed	true = 1 false= 0
	AllowCoupon MultiplyFlag	FL_CPN_ALW_MULTY	CHAR(1)	ItemImport/Item/RetailStoreItemImport/Item/POSIIdentity@AllowCouponMultiply	true = 1 false= 0
	AllowFoodStampFlag	FL_FD_STP_ALW	CHAR(1)	No mapping available	
	ElectronicCouponFlag	FL_CPN_ELNTC	CHAR(1)	ItemImport/Item/RetailStoreItemImport/Item/POSIIdentity@ElectronicCoupon	true = 1 false= 0
	CouponRestrictedFlag	FL_CPN_RST	CHAR(1)	ItemImport/Item/RetailStoreItemImport/Item/POSIIdentity@CouponRestricted	true = 1 false= 0

**Table B-5 Item Import XSD Item Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	PriceEntryRequiredFlag	FL_ENTR_PRC_RQ	CHAR(1)	ItemImport/Item/RetailStoreItem/POSIentity@PriceEntryRequired	true = <b>1</b> false= <b>0</b>
	WeightEntryRequiredFlag	FL_QR_ENR_WT	CHAR(1)	No mapping available	
	QuantityKeyProhibitFlag	FL_KY_PRH_QTY	CHAR(1)	ItemImport/Item/RetailStoreItem/POSIentity@QuantityModifiable	QuantityModifiable will have values <b>Optional, Required</b> and <b>Prohibited</b> .  For Optional and Required we have to set a value of <b>0</b> which means that Quantity modification is allowed.  For Prohibited we set a value of <b>1</b> which means that quantity modification is not allowed.
	ProhibitReturnFlag	FL_RTN_PRH	CHAR(1)	ItemImport/Item/RetailStoreItemImport/Item/POSIentity@Returnable	true = <b>1</b> false= <b>0</b>
	GiveawayFlag	FL_ITM_GWY	CHAR(1)	No mapping available	
	WICFlag	FL_ITM_WIC	CHAR(1)	No mapping available	
	VisualVerifyPriceFlag	FL_PRC_VS_VR	CHAR(1)	No mapping available	
	ProhibitRepeatKeyFlag	FL_KY_PRH_RPT	CHAR(1)	No mapping available	
	SpecialOrderEligibleFlag	FL_SPO_ITM	CHAR(1)	ItemImport/Item/RetailStoreItemImport/Item/POSIentity@SpecialOrderEligible	true = <b>1</b> false= <b>0</b>
	FrequentShopperPointsCount	QU_PNT_FQ_SHPR	DECIMAL(9,2)	No mapping available	
	ItemTenderRestrictionGroupCode	LU_GP_TND_RST	VARCHAR(20)	No mapping available	
	ManufacturerFamilyCode	FC_FMY_MF	VARCHAR(3)	No mapping available	
	PriceModifiableFlag	FL_MDFR_RT_PRC	CHAR(1)	ItemImport/Item/RetailStoreItemImport/Item/POSIentity@PriceModifiable	true = <b>1</b> false= <b>0</b>
	PromotionID	ID_PRM	INTEGER	No mapping available	

Table B-5 Item Import XSD Item Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	PromotionComponentID	ID_PRM_CMP	INTEGER	No mapping available	
	PromotionComponentDetailID	ID_PRM_CMP_DTL	INTEGER	No mapping available	
	RecordCreationTimestamp	TS_CRT_RCRD	TIMESTAMP		Now()
	RecordLastModifiedTimestamp	TS_MDF_RCRD	TIMESTAMP		Now()
SupplierItemCatalogBaseCostBreak CO_BRK_SPR_ITM_BS	SupplierID	ID_SPR	VARCHAR(20)	Item/RetailStoreItem/POSIdentity@SupplierID	Note that SupplierID is required for deleting items.
	SupplierItemID	ID_ITM_SPR	VARCHAR(20)	Item @ID	
	SupplierItemCostPerUnitTypeCode	TY_UN_CST	VARCHAR(3)		SLU
	SupplierItemUnitBreakPointCount	QU_PNT_UND_BRK	DECIMAL(9,2)		0
	CostPerUnitAmount	CP_PNT_BRK_BS_CST	DECIMAL(13,4)	Item @ItemCost	
	Record Creation Timestamp	TS_CRT_RCRD	TIMESTAMP		Now()
	Record Last Modified Timestamp	TS_MDF_RCRD	TIMESTAMP		Now()
PermanentPriceChange TR_CHN_PRN_PRC	EventID	ID_EV	INTEGER		
	RetailStoreID	ID_STR_RT	VARCHAR(5)		
	SaleUnitAmount	MO_CHN_PRN_UN_PRC	DECIMAL(10,4)	Item/RetailStoreItem/RegularPrice	
	SaleUnitAmountTypeCode	TY_CHN_PRN_UN_PRC	VARCHAR(20)		
	RecordCreated Timestamp	TS_CRT_RCRD	TIMESTAMP		
	RecordLastModifiedTimestamp	TS_CRT_RCRD	TIMESTAMP		
ItemImage AS_ITM_IMG	ItemID	ID_ITM	VARCHAR(14)	Item@ID	

**Table B-5 Item Import XSD Item Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	ImageLocation	ITM_IMG_LO	VARCHAR(200)	Item@ImageLocation	This location should be a valid URL to retrieve the item information.
	ImageFileName	ITM_DET_IMG	BLOB	Item@ImageFileName	This file name is specified in the XML if an image file is present in the bundle.
ItemMessageAssociation AS_ITM_ASCTN_MSG	ItemID	ID_ITM	VARCHAR(14)	Item@ID	
	MessageID	ID_MSG	INTEGER	Item/DisplayMessage/ItemMsgAscnd@ID	
	UsageTransactionType	TY_TRN_USG	INTEGER	Item/DisplayMessage/ItemMsgAscnd@TransactionType	Allowable values are "Sale"=21, "Return"=22
	DisplayLocationType	TY_DPLY_LO	INTEGER	Item/DisplayMessage/ItemMsgAscnd@MessageType	Allowable values are "Screen"=1, "Receipt"=2, "Footer"=3, "Rebate"=4.
SerializedItemLabel AS_ITM_SRZ_LB	SerializedItemLabelID	ID_SRZ_ITM_LB	INTEGER	This ID is generated by the system	
	SerializedItemLabelName	NM_SRZ_ITM_LB	VARCHAR(120)	ItemImport/Item/UINLabel@Name	
SerializedItemLabelI8 AS_ITM_SRZ_LB_I8	SerializedItemLabelID	ID_SRZ_ITM_LB	INTEGER	This ID is generated by the system	
	Locale	LCL	VARCHAR(10)	ItemImport/Item/UINLabel/LocalizedName@Language	
	SerializedItemLabelName	NM_SRZ_ITM_LB	VARCHAR(120)	ItemImport/Item/UINLabel/LocalizedName@Name	

The following is an example Item Import XSD file.

**Example B-7 ItemImport.xsd**

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
  <xs:annotation><xs:documentation>
    Item Import Schema. Copyright 2007 Oracle Inc. All rights reserved.

    Use this schema in conjunction with a Oracle Store Systems Data Dictionary
    and the relations between the element and attribute names should be
    apparent.
  </xs:documentation> </xs:annotation>
```



```

<xs:include schemaLocation="../../../common.xsd"></xs:include>
<xs:element name="ItemImport">
  <xs:annotation><xs:documentation>
    Top-level element holding a collection of Item records.
  </xs:documentation></xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="PreloadData" type="PreloadData_type"
minOccurs="0" maxOccurs="1"/>
      <xs:element name="Item" type="Item_type" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="FillType" type="FillType_type" use="required"/>
    <xs:attribute name="CreationDate" type="xs:dateTime"/>
    <xs:attribute name="ExpirationDate" type="xs:dateTime"/>
    <xs:attribute name="Version" type="xs:string"/>
    <xs:attribute name="Priority" type="xs:int"/>
    <xs:attribute name="Batch" type="xs:int"/>
  </xs:complexType>
</xs:element>

  <xs:complexType name="PreloadData_type">
    <xs:sequence>
      <xs:element name="Color" type="Color_type" minOccurs="0"
maxOccurs="unbounded"/>
      <xs:element name="Size" type="Size_type" minOccurs="0"
maxOccurs="unbounded"/>
      <xs:element name="Style" type="Style_type" minOccurs="0"
maxOccurs="unbounded"/>
      <xs:element name="UOM" type="UOM_type" minOccurs="0"
maxOccurs="unbounded"/>
      <xs:element name="Manufacturer" type="Manufacturer_type" minOccurs="0"
maxOccurs="unbounded"/>
      <xs:element name="MerchandiseClassification"
type="MerchandiseClassification_type" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="Supplier" type="Supplier_type" minOccurs="0"
maxOccurs="unbounded"/>
      <xs:element name="Message" type="DisplayMessage_type" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="DisplayMessage_type">
    <xs:annotation>
      <xs:documentation>Multiple Item Level Messages based on the type of
Transaction</xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:element name="MsgText" type="LocalizedMessageDescription_type"
minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="ID" type="xs:int" use="required"/>
    <xs:attribute name="ChangeType" type="PreLoadChangeType_type"
default="UPS"/>
  </xs:complexType>

  <xs:complexType name="Color_type">
    <xs:sequence>
      <xs:annotation><xs:documentation>

```

```

        A list of names and descriptions in different locale to this
color.
        If attributes Name/Description are defined simultaneously with
        LocalizedNameDescription, they will be ignored.
        The Names and Description attributes are deprecated for 13.1.
        </xs:documentation></xs:annotation>
        <xs:element name="LocalizedNameDescription"
type="LocalizedNameDescription_type" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="ChangeType" type="PreLoadChangeType_type"
default="UPS"/>
        <xs:attribute name="Code" type="Code_type" use="required"/>
        <xs:attribute name="Description" type="Description_type"/>
        <xs:attribute name="Names" type="Name_type"/>
        </xs:complexType>

        <xs:complexType name="Size_type">
        <xs:sequence>
        <xs:annotation><xs:documentation>
        A list of names and descriptions in different locale to this size.
        If attributes TableName, TableDesc, TypeDesc and ProportionDesc
        are defined simultaneously with localizedSizeDescription, they
will be ignored.
        The TableName, TableDesc, TypeDesc and ProportionDesc are
deprecated for 13.1.
        </xs:documentation></xs:annotation>
        <xs:element name="LocalizedSizeData"
type="LocalizedItemSizeDescription_type" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="ChangeType" type="PreLoadChangeType_type"
default="UPS"/>
        <xs:attribute name="Code" use="required">
        <xs:simpleType>
        <xs:restriction base="xs:string">
        <xs:maxLength value="10"/>
        </xs:restriction>
        </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="ProportionDesc" type="Description_type"/>
        <xs:attribute name="TypeDesc" type="Name_type"/>
        <xs:attribute name="ActualSizeCode">
        <xs:simpleType>
        <xs:annotation><xs:documentation>
        This simple code type is restricted to only accepted values
        from 1 to 20 digits long. See NRF Size code documents
        </xs:documentation></xs:annotation>
        <xs:restriction base="Code_type">
        <xs:pattern value="\d+"></xs:pattern>
        </xs:restriction>
        </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="TableName" type="Name_type"/>
        <xs:attribute name="TableCode">
        <xs:simpleType>
        <xs:annotation><xs:documentation>
        Use zero "0" for in-house size codes. See NRF Size code
        documents for valid size table values.
        </xs:documentation></xs:annotation>
        <xs:restriction base="xs:string">
        <xs:length value="1"></xs:length>

```

```

        <xs:pattern value="\d"></xs:pattern>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="TableDesc" type="Description_type"/>
</xs:complexType>

<xs:complexType name="Style_type">
  <xs:annotation><xs:documentation>
    A list of names and descriptions in different locale to this style.
    If attributes Name/Description are defined simultaneously with
    LocalizedNameDescription, they will be ignored.
    The TableName, TableDesc, TypeDesc and ProportionDesc are deprecated
for 13.1.
  </xs:documentation></xs:annotation>
  <xs:sequence>
    <xs:element name="LocalizedNameDescription"
type="LocalizedNameDescription_type" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="PreLoadChangeType_type"
default="UPS"/>
  <xs:attribute name="Code" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="4"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Name" type="Name_type"/>
  <xs:attribute name="Description" type="Description_type"/>
</xs:complexType>

<xs:complexType name="UOM_type">
  <xs:sequence>
    <xs:annotation><xs:documentation>
      A list of names and descriptions in different locale to this uom.
      If attributes Name/Description are defined simultaneously with
      LocalizedNameDescription, they will be ignored.
      The Names and Description attributes are deprecated for 13.1.
    </xs:documentation></xs:annotation>
    <xs:element name="LocalizedNameDescription"
type="LocalizedNameDescription_type" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="PreLoadChangeType_type"
default="UPS"/>
  <xs:attribute name="Code" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="2"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="TypeCode">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="2"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="System">

```

```

    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Standard"/>
        <xs:enumeration value="Metric"/>
        <!-- xs:enumeration value="Imperial"/ -->
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Name" type="Name_type"/>
  <xs:attribute name="Description" type="Description_type"/>
  <xs:attribute name="IsDefault" type="xs:boolean" default="false"/>
  <xs:attribute name="DefaultEntryCode" type="xs:boolean" default="false"/>
  <xs:attribute name="Enabled" type="xs:boolean" default="true"/>
  <xs:attribute name="SortIndex" type="xs:int" use="required"/>
</xs:complexType>

<xs:complexType name="Manufacturer_type">
  <xs:sequence>
    <xs:annotation><xs:documentation>
      A list of localized names defined here. The Description attribute
is not used.
      The Names attribute is deprecated for 13.1.
    </xs:documentation></xs:annotation>
    <xs:element name="LocalizedName" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="PreLoadChangeType_type"
default="UPS"/>
  <xs:attribute name="ID" type="Code_type" use="required"/>
  <xs:attribute name="Name" type="Name_type"/>
</xs:complexType>

<xs:complexType name="MerchandiseClassification_type">
  <xs:sequence>
    <xs:annotation><xs:documentation>
      A list of localized descriptions defined here. The Name attribute
is not used.
      The Description attribute is deprecated for 13.1.
    </xs:documentation></xs:annotation>
    <xs:element name="LocalizedDescription"
type="LocalizedNameDescription_type" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="PreLoadChangeType_type"
default="UPS"/>
  <xs:attribute name="Code" type="Class_type" use="required"/>
  <xs:attribute name="Description" type="Description_type"/>
</xs:complexType>

<xs:complexType name="Supplier_type">
  <xs:sequence>
    <xs:annotation><xs:documentation>
      A list of localized names defined here. The Description attribute
is not used.
      The Name attribute is deprecated for 13.1.
    </xs:documentation></xs:annotation>
    <xs:element name="LocalizedName" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="PreLoadChangeType_type"
default="UPS"/>

```

```

<xs:attribute name="ID" type="Code_type" use="required"/>
<xs:attribute name="DUNSNumber">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="9"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Name" type="Name_type"/>
<xs:attribute name="IsManufacturer" type="xs:boolean" default="false"/>
</xs:complexType>

<xs:complexType name="UINLabel_type">
  <xs:annotation><xs:documentation>
    A list of Unique Identifier labels.
  </xs:documentation></xs:annotation>
  <xs:sequence>
    <xs:annotation><xs:documentation>
      A list of localized names defined here. The Description attribute
is not used.
      The Name attribute is deprecated for 13.1.
    </xs:documentation></xs:annotation>
    <xs:element name="LocalizedName" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="Name" type="Name_type"/>
</xs:complexType>

<xs:complexType name="Item_type">
  <xs:annotation><xs:documentation>
    Upper level item information. This element requires a child element
to specify which store it belongs to. This element can be repeated
if this item should belong to multiple stores. The
LocalizedNameDescription
elements may also be repeated with the intention that each
specifies a different language or country.
  </xs:documentation></xs:annotation>
  <xs:sequence>
    <xs:annotation><xs:documentation>
      This element holds localized ShortName and LongDescription.
      The ShortName and LongDescription elements are deprecated for 13.1
    </xs:documentation></xs:annotation>
    <xs:element name="ShortName" type="LocalizedName_type" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="LongDescription" type="LocalizedDescription_type"
minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="LocalizedNameDescription"
type="LocalizedNameDescription_type" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="MerchandiseHierarchy" type="MerchandiseHierarchy_
type" minOccurs="0"/>
    <xs:element name="RetailStoreItem" type="RetailStoreItem_type"
maxOccurs="unbounded"/>
    <xs:element name="DisplayMessage" type="ItemLevelMessages_type"
minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="UINLabel" type="UINLabel_type" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="ChangeType_subtype" default="ADD"/>
  <xs:attribute name="ID" type="ID_type" use="required"/>
  <xs:attribute name="Type">

```

```

    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Stock"/>
        <xs:enumeration value="Service"/>
        <xs:enumeration value="Coupon"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="POSDepartmentID" type="Class_type"/>
  <xs:attribute name="ItemCost" type="Amount_type"/>
  <xs:attribute name="KitSetCode" type="Code_type" default="0"/>
  <xs:attribute name="UOMCode" type="Code_type"/>
  <xs:attribute name="PackItemWeightCount" type="xs:decimal"/>
  <xs:attribute name="Size">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="10"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Color" type="Code_type"/>
  <xs:attribute name="Style">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="4"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Classification1" type="Class_type"/>
  <xs:attribute name="Classification2" type="Class_type"/>
  <xs:attribute name="Classification3" type="Class_type"/>
  <xs:attribute name="Classification4" type="Class_type"/>
  <xs:attribute name="Classification5" type="Class_type"/>
  <xs:attribute name="Classification6" type="Class_type"/>
  <xs:attribute name="Classification7" type="Class_type"/>
  <xs:attribute name="Classification8" type="Class_type"/>
  <xs:attribute name="Classification9" type="Class_type"/>
  <xs:attribute name="Classification10" type="Class_type"/>
  <xs:attribute name="TaxGroup" type="xs:int"/>
  <xs:attribute name="Taxable" type="xs:boolean" default="true"/>
  <xs:attribute name="Discountable" type="xs:boolean" default="true"/>
  <xs:attribute name="DamageDiscountable" type="xs:boolean" default="true"/>
  <xs:attribute name="RegistryEligible" type="xs:boolean"/>
  <xs:attribute name="AuthorizedForSale" type="xs:boolean"/>
  <xs:attribute name="RestockingFee" type="xs:boolean"/>
  <xs:attribute name="SerializedItem" type="xs:boolean"/>
  <xs:attribute name="UINType" type="xs:string"/>
  <xs:attribute name="UINCaptureTime">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="20"/>
        <xs:enumeration value="Sale"/>
        <xs:enumeration value="StoreReceiving"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="ExternalSystemCreateUIN" type="xs:boolean"
default="true"/>
  <xs:attribute name="SizeRequired" type="xs:boolean"/>
  <xs:attribute name="ActivationRequired" type="xs:boolean"/>

```

```

<xs:attribute name="ImageFileName" type="xs:string">
  <xs:annotation><xs:documentation>
    A file name specified here is expected to be a JPG or other
    image file existing in the same bundle as the XML file. The
    image will be imported as a blob into the database.
  </xs:documentation></xs:annotation>
</xs:attribute>
<xs:attribute name="ImageLocation" type="xs:string">
  <xs:annotation><xs:documentation>
    This locations should be a valid url for use by the application
    in retrieving images.
  </xs:documentation></xs:annotation>
</xs:attribute>
</xs:complexType>

<xs:complexType name="ItemLevelMessages_type">
  <xs:annotation><xs:documentation>
    Associates Item with a Preloaded Message.
  </xs:documentation></xs:annotation>
  <xs:sequence>
    <xs:element name="ItemMsgAscnc" type="Message_type" minOccurs="0"
maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Message_type">
  <xs:annotation><xs:documentation>
    Identifying a particular message and attach it to an item
  </xs:documentation></xs:annotation>
  <xs:attribute name="ID" type="xs:int" use="required" />
  <xs:attribute name="MessageType" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Screen" />
        <xs:enumeration value="Receipt" />
        <xs:enumeration value="Rebate" />
        <xs:enumeration value="Footer" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="TransactionType" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Sale" />
        <xs:enumeration value="Return" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

<xs:complexType name="RetailStoreItem_type">
  <xs:annotation><xs:documentation>
    Item-location information. This element requires a child element to
    specify a store id. This element can be repeated if this same info
    should belong to multiple stores. The price element may be repeated
    to support foreign currency by specifying differnt currency codes.

    Even though RegularPrice can be defined with different currency code,
    Currently only the price in base currency is supported. If a list of
    REgularPrice elements used, the very last one will be picked up.
  </xs:documentation>

```

```

    </xs:documentation></xs:annotation>
    <xs:sequence>
      <xs:element name="RetailStoreID" type="RetailStoreId_type"
maxOccurs="unbounded" />
      <xs:element name="RegularPrice" type="RegularPrice_type" minOccurs="0"
maxOccurs="unbounded" />
      <xs:element name="POSIdentity" type="POSIdentity_type" minOccurs="0"
maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="ChangeType" type="ChangeType_subtype" default="ADD" />
    <xs:attribute name="TaxGroup" type="xs:int" use="optional" />
    <xs:attribute name="VatCode" type="Code_type" />
    <xs:attribute name="AgeRestrictionId" type="xs:int" />
    <xs:attribute name="TemplateId" default="*DEFAULT">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="8" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>

<xs:complexType name="POSIdentity_type">
  <xs:annotation><xs:documentation>
    Multiple POSIdentity elements may be specified when different
    UPCs apply to the same item.
  </xs:documentation></xs:annotation>
  <xs:attribute name="ChangeType" type="ChangeType_subtype" default="ADD" />
  <xs:attribute name="POSItemID" type="ID_type" use="required" />
  <xs:attribute name="UPC" type="ID_type" />
  <xs:attribute name="SupplierID" type="xs:string" />
  <xs:attribute name="ManufacturerID" type="xs:int" />
  <xs:attribute name="QuantityModifiable" default="Optional">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Required" />
        <xs:enumeration value="Prohibited" />
        <xs:enumeration value="Optional" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Returnable" type="xs:boolean" />
  <xs:attribute name="PriceEntryRequired" type="xs:boolean"
default="false" />
  <xs:attribute name="PriceModifiable" type="xs:boolean" />
  <xs:attribute name="AllowCouponMultiply" type="xs:boolean" />
  <xs:attribute name="ElectronicCoupon" type="xs:boolean" />
  <xs:attribute name="CouponRestricted" type="xs:boolean" />
  <xs:attribute name="SpecialOrderEligible" type="xs:boolean" />
  <xs:attribute name="EmployeeDiscountAllowed" type="xs:boolean"
default="true" />
  <xs:attribute name="MinimumSaleUnitCount" type="xs:decimal"
default="1.0" />
  <xs:attribute name="MaximumSaleUnitCount" type="xs:decimal"
default="-1.0" />
</xs:complexType>

<xs:complexType name="MerchandiseHierarchy_type">
  <xs:annotation><xs:documentation>
    This is the ID of the group in the MerchandiseHierarchy that this

```



```

        item belongs to. Usually this is a class or subclass.
    </xs:documentation></xs:annotation>
    <xs:simpleContent>
        <xs:extension base="xs:string">
            <xs:attribute name="StructureID" type="xs:string" default="-1">
                <xs:annotation><xs:documentation>
                    Merchandise Structure ID.
                </xs:documentation></xs:annotation>
            </xs:attribute>
            <xs:attribute name="Level" default="UNDF">
                <xs:annotation><xs:documentation>
                    Merchandise Hierarchy Level Code.
                </xs:documentation></xs:annotation>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="4"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:attribute>
    </xs:extension>
    </xs:simpleContent>
</xs:complexType>

<xs:complexType name="RegularPrice_type">
    <xs:annotation><xs:documentation>
        The regular price is the initial permanent price for a new item.
        This price will effectively become amount of the first
        PermanentPriceChange for this item. Do not attempt to change the
        regular price afterwards through this element. Instead see
        PermanentPriceChange in the PricingImport.xsd. Any effective
        promotions or discounts will override, but not replace, the regular
        price.
    </xs:documentation></xs:annotation>
    <xs:simpleContent>
        <xs:extension base="CurrencyAmount_type">
            <xs:attribute name="CompareAtPrice" type="Amount_type"/>
            <xs:attribute name="IncludesTax" type="xs:boolean"
default="false">
                <xs:annotation><xs:documentation>
                    Attribute reserved for future use. To be implemented at
                    a future date.
                </xs:documentation></xs:annotation>
            </xs:attribute>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>

<xs:simpleType name="Class_type">
    <xs:restriction base="xs:string">
        <xs:maxLength value="10"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="Code_type">
    <xs:restriction base="xs:string">
        <xs:maxLength value="20"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ChangeType_subtype">

```

```

        <xs:restriction base="xs:string">
            <xs:enumeration value="ADD"/>
            <xs:enumeration value="UPD"/>
            <xs:enumeration value="DEL"/>
            <xs:enumeration value="UPS"/>
        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="PreLoadChangeType_type">
        <xs:annotation><xs:documentation>
            UPSERT and DELETE are the only operations supported for
            Preload data. If "DEL" is not specified as ChangeType,
            Then "UPS" is assumed.
        </xs:documentation></xs:annotation>
        <xs:restriction base="xs:string">
            <xs:enumeration value="UPS"/>
            <xs:enumeration value="DEL"/>
        </xs:restriction>
    </xs:simpleType>

</xs:schema>

```

The following is an example Item Import XML file.

**Example B-8 ItemImport.xml**

```

<?xml version="1.0" encoding="UTF-8"?>
<ItemImport
Priority="0"
FillType="FullIncremental"
Version="1.0"
Batch="1"
CreationDate="2001-12-17T09:30:47.0Z"
ExpirationDate="2027-12-17T09:30:47.0Z"
xsi:noNamespaceSchemaLocation="ItemImport.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<PreloadData>
<Color
ChangeType="UPS"
Names="Red"
Description="Red Description"
Code="203"/>
<Size
ChangeType="UPS"
ProportionDesc="XSProportionDesc"
TableName="Basic"
TableCode="BA"
ActualSizeCode="XS"
TableDesc="xsmall"
TypeDesc="XSTypeDesc"
Code="0000"/>
<Style
ChangeType="UPS"
Name="Classic"
Description="Classic"
Code="CLSC"/>
<UOM
ChangeType="UPS"
TypeCode="CD"
IsDefault="false"

```

```

Name="Kilograms"
SortIndex="0"
Description="Kilograms description"
System="Metric"
DefaultEntryCode="false"
Code="KG"
Enabled="true"/>
<!--<Product
ChangeType="ADD"
ID="902"
ManufacturerID="-1"
Description="Nails"/>-->
<MerchandiseClassification
ChangeType="UPS"
Description="Sporting Goods"
Code="SPGD"/>
<Supplier
ChangeType="UPS"
ID="0002"
Name="Gizmos Inc."
IsManufacturer="true"
DUNSNumber="123456789"/>
</PreloadData>
<Item
ChangeType="ADD"
ID="1234"
Type="Stock"
ItemCost="5.12"
Taxable="true"
TaxGroup="100"
POSDepartmentID="1"
KitSetCode="0"
Size="null"
Color="null"
Style="null"
ActivationRequired="false"
RegistryEligible="true"
SizeRequired="false"
AuthorizedForSale="true"
SerializedItem="false"
UINType="Serial"
UINCaptureTime="Sale"
ExternalSystemCreateUIN="true"
Discountable="true"
DamageDiscountable="true"
PackItemWeightCount="1.0"
RestockingFee="true"
UOMCode="UN"
Classification1="null"
Classification2="null"
Classification3="null"
Classification4="null"
Classification5="null"
Classification6="null"
Classification7="null"
Classification8="null"
Classification9="null"
Classification10="null">
<ShortName Language="en" Country="US">CoolBox</ShortName>
<ShortName Language="fr" Country="CA">Boîte Chouette</ShortName>

```

```
<LongDescription Language="en" Country="US">Like a toolbox but
cooler</LongDescription>
<MerchandiseHierarchy
StructureID="1"
Level="DIV">1234</MerchandiseHierarchy>
<RetailStoreItem
TemplateId="SALTEMPL"
TaxGroup="100"
VatCode="A"
AgeRestrictionId="0">
<RetailStoreID>04241</RetailStoreID>
<RetailStoreID>01291</RetailStoreID>
<RegularPrice
CurrencyCode="EUR"
CompareAtPrice="12.00"
IncludesTax="false">9.99</RegularPrice>
<RegularPrice
CurrencyCode="CAD"
CompareAtPrice="13.00"
IncludesTax="false">109.99</RegularPrice>
<POSIDentity
POSItemID="1234"
UPC="1234000000000"
ManufacturerID="0"
SupplierID="0"
MinimumSaleUnitCount="1"
MaximumSaleUnitCount="-1"
QuantityModifiable="Optional"
PriceEntryRequired="false"
PriceModifiable="true"
SpecialOrderEligible="true"
Returnable="false"
EmployeeDiscountAllowed="true"
AllowCouponMultiply="true"
ElectronicCoupon="true"
CouponRestricted="false"/>
</RetailStoreItem>
<UINLabel Name="SERIAL NUMBER">
<LocalizedName Country="US" Language="en" Name="In en SERIAL NUMBER"/>
</UINLabel>
</Item>
</ItemImport>
```

## Merchandise Hierarchy Import

Table B–6 identifies the PreloadData element mapping for the MerchandiseHierarchyImport.xsd file.

**Table B-6 Merchandise Hierarchy Import XSD PreloadData Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
Merchandise HierarchyGroup CO_MRHRC_GP	Merchandise HierarchyGroupID	ID_MRHRC_GP	VARCHAR(14)	PreloadData/MerchandiseGroup/ID	
	Merchant	ID_PST	INTEGER	PreloadData/MerchandiseGroup/MerchantID	
	Name	NM_MRHRC_GP	VARCHAR(120)	PreloadData/MerchandiseGroup/Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	Description	DE_MRHRC_GP	VARCHAR(250)	PreloadData/MerchandiseGroup/Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 250/4 = 60.
	RecordCreate Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModify Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
POSDepartment ID_DPT_PS	POSDepartmentID	ID_DPT_POS	VARCHAR(14)	PreloadData/POS Department/POSDepartmentID	
	ParentPOS DepartmentID	ID_DPT_POS_PRNT	VARCHAR(14)	PreloadData/POS Department/ParentPOS DepartmentID	
	Name	NM_DPT_POS	VARCHAR(120)	PreloadData/POS Department/POSDepartment Name @Text	
	TaxGroupID	ID_GP_TX	INTEGER	PreloadData/POS Department/DepartmentDefaultTax Group	
POSDepartment I18N ID_DPT_PS_I8	POSDepartmentID	ID_DPT_POS	VARCHAR(14)	PreloadData/POS Department/POSDepartmentID	

**Table B-6 Merchandise Hierarchy Import XSD PreloadData Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Locale	LCL	VARCHAR(10)	PreloadData/POS Department/POS Department Name @LanguageCode  PreloadData/POS Department/POS Department Name @CountryCode	Concatenate Lower (Language Code)+ "_"+Upper (Country Code)
	POSDepartment Name	NM_DPT_ POS	VARCHAR(120)	PreloadData/POS Department/POS Department Name @Text	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
RetailStorePOS Department LO_DPT_POS_ RTL_STR	RetailStoreID	ID_STR_RT	VARCHAR(5)	PreloadData/POS Department/Retail StorePOS Department/Retail StoreID	
	POSDepartmentID	ID_DPT_POS	VARCHAR(14)	PreloadData/POS Department/POS DepartmentID	
	DefaultEntryCode	FL_CD_ ENT_DFLT	CHAR(1)	PreloadData/POS Department/Retail StorePOS Department/DefaultEntryCode	
	EnabledFlag	FL_CD_ ENT_ENAB	CHAR(1)	PreloadData/POS Department/Retail StorePOS Department/EnabledFlag	
	ListSortIndex	CD_ENT_ SRT	SMALLINT	PreloadData/POS Department/Retail StorePOS Department/ListSortIndex	

Table B-7 identifies the element mapping for the MerchandiseHierarchyImport.xsd file.

Table B-7 Merchandise Hierarchy Import XSD Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
Merchandise HierarchyFunction CO_MRHRC_FNC	Merchandise Hierarchy FunctionID	ID_MRHRC_FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.
	Name	NM_MRHRC_FNC	VARCHAR(250)	HierarchyList/Hierarchy@Name	
	RecordCreate Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModify Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
Merchandise HierarchyLevel CO_MRHRC_LV	Merchandise Hierarchy FunctionID	ID_MRHRC_FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	
	Merchandise Hierarchy LevelCode	ID_MRHRC_LV	INTEGER	HierarchyList/Hierarchy/LevelList/Level@ID	Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.
	Parent Merchandise Hierarchy LevelID. Merchandise Hierarchy LevelCode	ID_MRHRC_LV_PRNT	INTEGER	HierarchyList/Hierarchy/LevelList/Level@ParentID	
	Name	NM_MRHRC_LV	VARCHAR(120)	HierarchyList/Hierarchy/LevelList/Level@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	RecordCreate Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModify Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
Merchandise Hierarchy Association ST_ASCTN_MRHRC	Merchandise Hierarchy FunctionID	ID_MRHRC_FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	
	Parent Merchandise Hierarchy GroupID	ID_MRHRC_GP_PRNT	VARCHAR(14)	HierarchyList/Hierarchy/NodeList/Node@ParentNodeID	

**Table B-7 Merchandise Hierarchy Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Child Merchandise Hierarchy GroupID	ID_MRHRC_ GP_CHLD	VARCHAR(14)	HierarchyList/Hierarchy/NodeList/Node@ID	
	Parent Merchandise Hierarchy LevelID	ID_MRHRC_ LV	INTEGER	HierarchyList/Hierarchy/NodeList/Node@LevelID	
	RecordCreate Timestamp	TS_CRT_ RCRD	TIMESTAMP	Now()	
	RecordModify Timestamp	TS_MDF_ RCRD	TIMESTAMP	Now()	

The following is an example Merchandise Hierarchy Import XSD file.

**Example B-9 MerchandiseHierarchyImport.xsd**

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
/* =====
* Copyright (c) 2009, 2010, Oracle and/or its affiliates. All rights reserved.
* =====
* $Header:
rgbustores/internal/DIMP/MerchandiseHierarchy/MerchandiseHierarchyImport.xsd
/main/8 2010/01/04 17:53:31 abondala Exp $
* =====
* NOTES
* <other useful comments, qualifications, etc.>
*
* MODIFIED      (MM/DD/YY)
*   abondala 01/02/10 - Update Header date
*
* =====
*/
-->
<!--
/* =====
* Copyright (c) 2008, 2010, Oracle and/or its affiliates. All rights reserved.
* =====
* $Header:
rgbustores/internal/DIMP/MerchandiseHierarchy/MerchandiseHierarchyImport.xsd
/main/8 2010/01/04 17:53:31 abondala Exp $
* =====
* NOTES
* <other useful comments, qualifications, etc.>
*
* MODIFIED      (MM/DD/YY)
*   blarsen 08/13/09 - Renamed ChangeType_type to ChangeType_subtype and
*                   renamed FillType_type to FillType_subtype to avoid
*                   collisions with common.xsd.
*   glwang 02/18/09 - add LocalizedName element
*   cgreene 11/19/08 - migrate common types to ../common.xsd
*
* =====
*/
-->
-->
```



```

* =====
*/
-->
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:include schemaLocation="../common.xsd"></xs:include>
<xs:annotation><xs:documentation>
Merchandise Hierarchy Import Schema. Copyright 2006 Oracle.
All rights reserved.
</xs:documentation></xs:annotation>

<xs:element name="MerchandiseHierarchy">
<xs:annotation><xs:documentation>
Top level element containing the hierarchy and the data that must be
preloaded before the hierarchy.
</xs:documentation></xs:annotation>
<xs:complexType>
<xs:sequence>
<xs:element name="PreloadData" type="PreloadData_type" minOccurs="0"
maxOccurs="1">
<xs:annotation><xs:documentation>
The data that must be preloaded into the datasource before
the actual hierarchy is persisted. Consists of departments
and merchandise groups.
</xs:documentation></xs:annotation>
</xs:element>
<xs:element name="HierarchyList" type="HierarchyList_type" minOccurs="0"
maxOccurs="unbounded">
<xs:annotation><xs:documentation>
The actual merchandise hierarchy data being imported.
Contains a grouping (list) of hierarchies.
</xs:documentation></xs:annotation>
</xs:element>
</xs:sequence>
<xs:attribute name="FillType" type="FillType_subtype" use="required"
fixed="KillAndFill"/>
<xs:attribute name="CreationDate" type="xs:dateTime"/>
<xs:attribute name="ExpirationDate" type="xs:dateTime"/>
<xs:attribute name="Version" type="xs:string"/>
<xs:attribute name="Priority" type="xs:int"/>
<xs:attribute name="Batch" type="xs:int"/>
</xs:complexType>
</xs:element>

<xs:complexType name="PreloadData_type">
<xs:sequence>
<xs:element name="POSDepartment" type="POSDepartment_type" minOccurs="0"
maxOccurs="unbounded" />
<xs:element name="MerchandiseGroup" type="MerchandiseGroup_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="MerchandiseGroup_type">
<xs:sequence>
<xs:element name="ChangeType" type="ChangeType_subtype" minOccurs="1"
maxOccurs="1" />
<xs:element name="ID" type="xs:string" minOccurs="1" maxOccurs="1" />
<xs:element name="Name" minOccurs="0" maxOccurs="1">
<xs:simpleType>

```

```

<xs:restriction base="xs:string">
<xs:maxLength value="120"></xs:maxLength>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="MerchantID" type="xs:int" minOccurs="0" maxOccurs="1" />
<xs:element name="Description" type="xs:string" minOccurs="0" maxOccurs="1" />
<xs:element name="LocalizedNameDescription" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="POSDepartment_type">
<xs:sequence>
<xs:element name="ChangeType" type="ChangeType_subtype" minOccurs="1"
maxOccurs="1" />
<xs:element name="POSDepartmentID" type="xs:string" minOccurs="1" maxOccurs="1" />
<xs:element name="ParentPOSDepartmentID" type="xs:string" minOccurs="0"
maxOccurs="1" />
<xs:choice>
<xs:annotation><xs:documentation>
POSDepartmentName is deprecated as 13.1
</xs:documentation></xs:annotation>
<xs:element name="POSDepartmentName" type="LocalizedPOSDepartmentName_type"
minOccurs="0" maxOccurs="unbounded" />
<xs:element name="LocalizedName" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded" />
</xs:choice>
<xs:element name="DepartmentDefaultTaxGroup" type="xs:int" minOccurs="1"
maxOccurs="1" />
<xs:element name="RetailStorePOSDepartment" type="RetailStorePOSDepartment_type"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="LocalizedPOSDepartmentName_type">
<xs:attribute name="Text" type="Name_type" />
<xs:attribute name="LanguageCode" type="Language_type"/>
<xs:attribute name="CountryCode" type="Country_type"/>
</xs:complexType>

<xs:complexType name="RetailStorePOSDepartment_type">
<xs:sequence>
<xs:element name="ChangeType" type="ChangeType_subtype" minOccurs="1"
maxOccurs="1" />
<xs:element name="RetailStoreId" type="RetailStoreId_type" minOccurs="1"
maxOccurs="1" />
<xs:element name="DefaultEntryCode" type="xs:string" minOccurs="1" maxOccurs="1"
/>
<xs:element name="EnabledFlag" type="xs:boolean" minOccurs="1" maxOccurs="1" />
<xs:element name="ListSortIndex" type="xs:int" minOccurs="1" maxOccurs="1" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="HierarchyList_type">
<xs:sequence>
<xs:element name="Hierarchy" type="Hierarchy_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

```

```

<xs:complexType name="Hierarchy_type">
<xs:sequence>
<xs:element name="LevelList" type="LevelList_type" minOccurs="0" maxOccurs="1" />
<xs:element name="NodeList" type="NodeList_type" minOccurs="0" maxOccurs="1" />
</xs:sequence>
<xs:attribute name="FunctionID" type="xs:int" use="required" />
<xs:attribute name="Name" type="xs:string"/>
</xs:complexType>

<xs:complexType name="LevelList_type">
<xs:sequence>
<xs:element name="Level" type="Level_type" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="NodeList_type">
<xs:sequence>
<xs:element name="Node" type="Node_type" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="Level_type">
<xs:sequence>
<xs:element name="LocalizedName" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="ID" type="xs:int" use="required" />
<xs:attribute name="Name" type="xs:string" />
<xs:attribute name="ParentID" type="xs:int">
<xs:annotation><xs:documentation>
If the parent id is missing, this is assumed to be the root.
</xs:documentation></xs:annotation>
</xs:attribute>
</xs:complexType>

<xs:complexType name="Node_type">
<xs:attribute name="ID" type="xs:string" use="required" />
<xs:attribute name="Name" type="xs:string" />
<xs:attribute name="LevelID" type="xs:int" use="required" />
<xs:attribute name="ParentNodeID" type="xs:string" />
</xs:complexType>

<xs:simpleType name="ChangeType_subtype">
<xs:restriction base="xs:string">
<xs:enumeration value="ADD" />
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="FillType_subtype">
<xs:restriction base="xs:string">
<xs:enumeration value="KillAndFill"/>
</xs:restriction>
</xs:simpleType>

</xs:schema>

```

The following is an example Merchandise Hierarchy Import XML file.

**Example B-10 MerchandiseHierarchyImport.xml**

```

<?xml version="1.0" encoding="UTF-8"?>
<MerchandiseHierarchy xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MerchandiseHierarchyImport.xsd"
  Priority="0"
  FillType="KillAndFill"
  Version="1.0"
  Batch="1"
  CreationDate="2001-12-17T09:30:47.0Z"
  ExpirationDate="2027-12-17T09:30:47.0Z">
  <PreloadData>
    <POSDepartment>
      <ChangeType>ADD</ChangeType>
      <POSDepartmentID>1</POSDepartmentID>
      <ParentPOSDepartmentID>0</ParentPOSDepartmentID>
      <POSDepartmentName Text="Miscellaneous" />
      <!--This is the old format to define POS department name.-->
      <!--deprecated as 13.1-->
      <POSDepartmentName CountryCode="PR" LanguageCode="es" Text="es_PR
Miscellaneous" />
      <POSDepartmentName CountryCode="CA" LanguageCode="fr" Text="fr_CA
Miscellaneous" />
      <DepartmentDefaultTaxGroup>0</DepartmentDefaultTaxGroup>
      <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>01291</RetailStoreId>
        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
      </RetailStorePOSDepartment>
      <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>04241</RetailStoreId>
        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
      </RetailStorePOSDepartment>
      <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>CORP</RetailStoreId>
        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
      </RetailStorePOSDepartment>
    </POSDepartment>
    <POSDepartment>
      <ChangeType>ADD</ChangeType>
      <POSDepartmentID>2</POSDepartmentID>
      <ParentPOSDepartmentID>0</ParentPOSDepartmentID>
      <!--This is what we should use to define POS department names as 13.1
-->
      <LocalizedName Country="US" Language="en" Name="Sporting Goods" />
      <LocalizedName Country="PR" Language="es" Name="es_PR Sporting
Goods" />
      <LocalizedName Country="CA" Language="fr" Name="fr_CA Sporting
Goods" />
      <DepartmentDefaultTaxGroup>0</DepartmentDefaultTaxGroup>
      <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>01291</RetailStoreId>

```

```

        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
    </RetailStorePOSDepartment>
    <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>04241</RetailStoreId>
        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
    </RetailStorePOSDepartment>
    <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>CORP</RetailStoreId>
        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
    </RetailStorePOSDepartment>
</POSDepartment>
<POSDepartment>
    <ChangeType>ADD</ChangeType>
    <POSDepartmentID>3</POSDepartmentID>
    <ParentPOSDepartmentID>0</ParentPOSDepartmentID>
    <POSDepartmentName CountryCode="US" LanguageCode="en" Text="Garden" />
    <POSDepartmentName CountryCode="PR" LanguageCode="es" Text="In es_PR
Garden" />
    <POSDepartmentName CountryCode="CA" LanguageCode="fr" Text="In fr_CA
Garden" />
    <DepartmentDefaultTaxGroup>0</DepartmentDefaultTaxGroup>
    <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>01291</RetailStoreId>
        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
    </RetailStorePOSDepartment>
    <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>04241</RetailStoreId>
        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
    </RetailStorePOSDepartment>
    <RetailStorePOSDepartment>
        <ChangeType>ADD</ChangeType>
        <RetailStoreId>CORP</RetailStoreId>
        <DefaultEntryCode>>false</DefaultEntryCode>
        <EnabledFlag>>true</EnabledFlag>
        <ListSortIndex>0</ListSortIndex>
    </RetailStorePOSDepartment>
</POSDepartment>
<POSDepartment>
    <ChangeType>ADD</ChangeType>
    <POSDepartmentID>4</POSDepartmentID>
    <ParentPOSDepartmentID>0</ParentPOSDepartmentID>
    <POSDepartmentName CountryCode="US" LanguageCode="en" Text="Music" />
    <POSDepartmentName CountryCode="PR" LanguageCode="es" Text="In es_PR
Music" />
    <POSDepartmentName CountryCode="CA" LanguageCode="fr" Text="In fr_CA
Music" />

```

```

<DepartmentDefaultTaxGroup>0</DepartmentDefaultTaxGroup>
<RetailStorePOSDepartment>
  <ChangeType>ADD</ChangeType>
  <RetailStoreId>01291</RetailStoreId>
  <DefaultEntryCode>>false</DefaultEntryCode>
  <EnabledFlag>>true</EnabledFlag>
  <ListSortIndex>0</ListSortIndex>
</RetailStorePOSDepartment>
<RetailStorePOSDepartment>
  <ChangeType>ADD</ChangeType>
  <RetailStoreId>04241</RetailStoreId>
  <DefaultEntryCode>>false</DefaultEntryCode>
  <EnabledFlag>>true</EnabledFlag>
  <ListSortIndex>0</ListSortIndex>
</RetailStorePOSDepartment>
<RetailStorePOSDepartment>
  <ChangeType>ADD</ChangeType>
  <RetailStoreId>CORP</RetailStoreId>
  <DefaultEntryCode>>false</DefaultEntryCode>
  <EnabledFlag>>true</EnabledFlag>
  <ListSortIndex>0</ListSortIndex>
</RetailStorePOSDepartment>
</POSDepartment>
<POSDepartment>
  <ChangeType>ADD</ChangeType>
  <POSDepartmentID>5</POSDepartmentID>
  <ParentPOSDepartmentID>0</ParentPOSDepartmentID>
  <POSDepartmentName CountryCode="US" LanguageCode="en"
Text="Hardware" />
  <POSDepartmentName CountryCode="PR" LanguageCode="es" Text="In es_PR
Hardware" />
  <POSDepartmentName CountryCode="CA" LanguageCode="fr" Text="In fr_CA
Hardware" />
<DepartmentDefaultTaxGroup>0</DepartmentDefaultTaxGroup>
<RetailStorePOSDepartment>
  <ChangeType>ADD</ChangeType>
  <RetailStoreId>01291</RetailStoreId>
  <DefaultEntryCode>>false</DefaultEntryCode>
  <EnabledFlag>>true</EnabledFlag>
  <ListSortIndex>0</ListSortIndex>
</RetailStorePOSDepartment>
<RetailStorePOSDepartment>
  <ChangeType>ADD</ChangeType>
  <RetailStoreId>04241</RetailStoreId>
  <DefaultEntryCode>>false</DefaultEntryCode>
  <EnabledFlag>>true</EnabledFlag>
  <ListSortIndex>0</ListSortIndex>
</RetailStorePOSDepartment>
<RetailStorePOSDepartment>
  <ChangeType>ADD</ChangeType>
  <RetailStoreId>CORP</RetailStoreId>
  <DefaultEntryCode>>false</DefaultEntryCode>
  <EnabledFlag>>true</EnabledFlag>
  <ListSortIndex>0</ListSortIndex>
</RetailStorePOSDepartment>
</POSDepartment>
<POSDepartment>
  <ChangeType>ADD</ChangeType>
  <POSDepartmentID>6</POSDepartmentID>
  <ParentPOSDepartmentID>0</ParentPOSDepartmentID>

```

```

        <POSDepartmentName CountryCode="US" LanguageCode="en" Text="Office"/>
        <POSDepartmentName CountryCode="PR" LanguageCode="es" Text="In es_PR
Office"/>
        <POSDepartmentName CountryCode="CA" LanguageCode="fr" Text="In fr_CA
Office"/>
        <DepartmentDefaultTaxGroup>0</DepartmentDefaultTaxGroup>
        <RetailStorePOSDepartment>
            <ChangeType>ADD</ChangeType>
            <RetailStoreId>01291</RetailStoreId>
            <DefaultEntryCode>>false</DefaultEntryCode>
            <EnabledFlag>>true</EnabledFlag>
            <ListSortIndex>0</ListSortIndex>
        </RetailStorePOSDepartment>
        <RetailStorePOSDepartment>
            <ChangeType>ADD</ChangeType>
            <RetailStoreId>04241</RetailStoreId>
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```

## Pricing Import

Table B-8 identifies the PriceChange element mapping for the PricingImport.xsd file.

**Table B–8 Pricing Import XSD PriceChange Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
Event CO_EV	EventID	ID_EV	INTEGER	Generated at Stores	Generated at Stores.  Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PriceChange/StoreID	
	External EventID	ID_EV_EXT	INTEGER	PricingImport/PriceChange @ID	This value is used as an external index. A price management system prepends a <b>1</b> for regular price changes or a <b>2</b> for clearance price changes when sending price change IDs.
	Name	NM_EV	VARCHAR(120)	PricingImport/PriceChange/Description	
	TypeCode	TY_EV	VARCHAR(20)	PricingImport/PriceChange @Type	PPC = Permanent Price Change IPC = Immediate Price Change  Default value = <b>PPC</b> for Permanent Price Change.
	PlanStartTimeStamp	TS_EV_PL_EF	TIMESTAMP	PricingImport/PriceChange @StartDate	
	StatusCode	SC_EV	VARCHAR(20)	Derived from PricingImport/PriceChange @StartDate	Default = PENDING
	Description	DE_EV	VARCHAR(250)	No mapping available	
	StoreOrHomeOfficeControlCode	CC_EV	VARCHAR(20)	No mapping available	
	OwnerName	NM_EV_OWNER	VARCHAR(120)	No mapping available	
	ScheduledStartDate	DC_DY_BSN_SS	VARCHAR(10)	No mapping available	
	ScheduledEndDate	DC_DY_BSN_SE	VARCHAR(10)	No mapping available	
	ActualStartDate	DC_DY_BSN_AS	VARCHAR(10)	No mapping available	
	ActualEndDate	DC_DY_BSN_AE	VARCHAR(10)	No mapping available	

Table B-8 Pricing Import XSD PriceChange Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	PlanEndTimeStamp	TS_EV_PL_EP	TIMESTAMP	No mapping available	
	ActualStartTimeStamp	TS_EV_ACT_EF	TIMESTAMP	No mapping available	
	ActualEndTimeStamp	TS_EV_ACT_EP	TIMESTAMP	No mapping available	
	RecordCreatedTimestamp	TS_CRT_RCRD	TIMESTAMP	No mapping available	
	RecordLastModifiedTimestamp	TS_CRT_RCRD	TIMESTAMP	No mapping available	
EventI18N CO_EV_I8	EventID	ID_EV	INTEGER	Generated at Stores	
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PriceChange/StoreID	
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales
	LocalizedName	NM_EV	VARCHAR(120)	PricingImport/PriceChange/LocalizedDescription@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	LocalizedDescription	DE_EV	VARCHAR(250)	No mapping available	Not populated
Permanent PriceChange Item MA_ITM_PRN_PRC_ITM	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table
	ItemID	ID_ITM	VARCHAR(14)	PricingImport/PriceChange/Item @ID	
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PriceChange/StoreID	
	PriceOverride Amount	MO_OVRD_PRC	DECIMAL(13,2)	PricingImport/PriceChange/Item/Price	
	Label TemplateID	ID_TMPLT_LB	VARCHAR(8)	PricingImport/PriceChange/Item @TemplateType	
	RecordCreatedTimestamp	TS_CRT_RCRD	TIMESTAMP		
	RecordLastModifiedTimestamp	TS_CRT_RCRD	TIMESTAMP		
ItemPrice Maintenance MA_PRC_ITM	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table

**Table B-8 Pricing Import XSD PriceChange Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Retail StoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PriceChange/StoreID	
	Label TemplateID	ID_TMPLT_LB	VARCHAR(8)	PricingImport/PriceChange@TemplateType	
	TypeCode	TY_PRC_MNT	VARCHAR(20)	No mapping available	PPC = Permanent Price Change IPC = Immediate Price Change
	EventPriority	UN_PRI_EV	INTEGER	No mapping available	
	PriceLastDigit	UN_DG_LS_PRC	CHAR(1)	No mapping available	
	PricingGroupID	ID_PRCGP	INTEGER	No mapping available	
	RecordCreatedTimestamp	TS_CRT_RCRD	TIMESTAMP		
	RecordLastModifiedTimestamp	TS_CRT_RCRD	TIMESTAMP		
Maintenance Event CO_EV_MNT	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PriceChange/StoreID	
	Name	NM_EV_MNT	VARCHAR(120)	PricingImport/PriceChange/Description@Text	
	TypeCode	TY_EV	VARCHAR(20)	No mapping available	PPC = Permanent Price Change IPC = Immediate Price Change
	EffectiveDateTimestamp	TS_EV_MNT_EF	TIMESTAMP	PricingImport/PriceChange@StartDate	
	StatusCode	SC_EV_MNT	VARCHAR(20)	Derived from PricingImport/PriceChange@StartDate	Default = PENDING
	Description	DE_EV_MNT	VARCHAR(250)	No mapping available	
	ExpirationDateTimestamp	TS_EV_MNT_EP	TIMESTAMP	No mapping available	
	ReasonCode	RC_EV_MNT	VARCHAR(20)	No mapping available	
	OriginTypeCode	TY_EV_MNT_ORG	VARCHAR(20)	No mapping available	
	EmployeeID	ID_EM	VARCHAR(10)	No mapping available	

**Table B-8 Pricing Import XSD PriceChange Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	CompetitorID	ID_CMP	INTEGER	No mapping available	
	CreateDateTime stamp	TS_EV_MNT_CRT	TIMESTAMP	No mapping available	
	AppliedTimestamp	TS_EV_MNT_APLY	TIMESTAMP	No mapping available	
	JobStartID	ID_JOB_ST	VARCHAR(12)	No mapping available	
	JobEndID	ID_JOB_END	VARCHAR(12)	No mapping available	
	MaintenanceEventEffectiveStatusCode	SC_EV_MNT_EF	VARCHAR(20)	No mapping available	
	MaintenanceEventExpirationStatusCode	SC_EV_MNT_EP	VARCHAR(20)	No mapping available	
	RecordCreatedTimestamp	TS_CRT_RCRD	TIMESTAMP		
	RecordLastModifiedTimestamp	TS_CRT_RCRD	TIMESTAMP		
MaintenanceEventI18N CO_EV_MNT_I8	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PriceChange/StoreID	
	Locale	LCL	VARCHAR(10)	No mapping available	System Supported Locales
	LocalizedName	NM_EV_MNT	VARCHAR(120)	PricingImport/PriceChange/LocalizedDescription@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	LocalizedDescription	DE_EV_MNT	VARCHAR(250)	No mapping available	
Item Maintenance Event CO_MNT_ITM	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PriceChange/StoreID	
	FunctionCode	LU_EV_ITM_MNT	VARCHAR(20)	No mapping available	Default = PRICE CHANGE
	RecordCreatedTimestamp	TS_CRT_RCRD	TIMESTAMP		

**Table B–8 Pricing Import XSD PriceChange Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RecordLastModifiedTimestamp	TS_CRT_RCRD	TIMESTAMP		
Permanent PriceChange TR_CHN_PRN_PRC	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PriceChange/StoreID	
	SaleUnitAmount	MO_CHN_PRN_UN_PRC	DECIMAL(10,4)	No mapping available	
	SaleUnitAmountTypeCode	TY_CHN_PRN_UN_PRC	VARCHAR(20)	No mapping available	
	RecordCreatedTimestamp	TS_CRT_RCRD	TIMESTAMP		
	RecordLastModifiedTimestamp	TS_CRT_RCRD	TIMESTAMP		

[Table B–9](#) identifies the Price Promotion element mapping for the PricingImport.xsd file.

**Table B-9 Pricing Import XSD Price Promotion Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
Event CO_EV	EventID	ID_EV	INTEGER		The Promotion ID in this column is the Stores Promotion ID that is created in the import process. The price management system promotion ID is not updated in this column.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PricePromotion/StoreID	
	External EventID	ID_EV_EXT	INTEGER	PricingImport/PricePromotion @ID	The price management system promotion ID will be used to derive the stores promotion ID. Stores DB will be altered to accommodate the price management system promotion ID. Field size is NUMBER(10), or Java int. price management system pass through value.
	Name	NM_EV	VARCHAR(160)	PricingImport/PricePromotion/Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	Description	DE_EV	VARCHAR(640)	PricingImport/PricePromotion/Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
	PlanStartDateTimestamp	TS_EV_PL_EF	TIMESTAMP	PricingImport/PricePromotion @StartDateTime	
	PlanEndDateTimestamp	TS_EV_PL_EP	TIMESTAMP	PricingImport/PricePromotion @EndDateTime	

**Table B-9 Pricing Import XSD Price Promotion Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	StatusCode	SC_EV	VARCHAR(20)	No mapping found	Derived from Start Date.
	TypeCode	TY_EV	VARCHAR(20)	No mapping found	Default value = TPC (Temporary PriceChange)
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
	StoreOrHomeOfficeControlCode	CC_EV	VARCHAR(20)	No mapping available	
	OwnerName	NM_EV_OWNER	VARCHAR(120)	No mapping available	
	ScheduledStartDate	DC_DY_BSN_SS	VARCHAR(10)	No mapping available	
	ScheduledEndDate	DC_DY_BSN_SE	VARCHAR(10)	No mapping available	
	ActualStartDate	DC_DY_BSN_AS	VARCHAR(10)	No mapping available	
	ActualEndDate	DC_DY_BSN_AE	VARCHAR(10)	No mapping available	
EventI18N CO_EV_I18	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PricePromotion/StoreID	
	Locale	LCL	VARCHAR(10)		System Supported Locales
	LocalizedName	NM_EV	VARCHAR(120)	PricingImport/PricePromotion/LocalizedNameDescription@Name	
	LocalizedDescription	DE_EV	VARCHAR(250)	PricingImport/PricePromotion/LocalizedNameDescription@Description	
Maintenance Event CO_EV_MNT	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PricePromotion/StoreID	



**Table B-9 Pricing Import XSD Price Promotion Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Promotion Name	NM_EV_MNT	VARCHAR(120)	PricingImport/PricePromotion/Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	PromotionDescription	DE_EV_MNT	VARCHAR(250)	PricingImport/PricePromotion/Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
	EffectiveDateTimestamp	TS_EV_MNT_EF	TIMESTAMP	PricingImport/PricePromotion/@StartDateTime	
	ExpirationDateTimestamp	TS_EV_MNT_EP	TIMESTAMP	PricingImport/PricePromotion/@EndDateTime	If left null, will default to 2009-12-31 23:59:59.000
	StatusCode	SC_EV_MNT	VARCHAR(20)	No mapping found	Derived from start date.
	TypeCode	TY_EV_MNT	VARCHAR(20)	No mapping found	Default value = TPC for Temporary PriceChange
	RecordCreationTimestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLastModifiedTimestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
	ReasonCode	RC_EV_MNT	VARCHAR(20)	No mapping available	
	OriginTypeCode	TY_EV_MNT_ORG	VARCHAR(20)	No mapping available	
	EmployeeID	ID_EM	VARCHAR(10)	No mapping available	
	CompetitorID	ID_CMP	INTEGER	No mapping available	
	CreateDateTimestamp	TS_EV_MNT_CRT	TIMESTAMP	No mapping available	
	AppliedTimestamp	TS_EV_MNT_APLY	TIMESTAMP	No mapping available	
	JobStartID	ID_JOB_ST	VARCHAR(12)	No mapping available	
	JobEndID	ID_JOB_END	VARCHAR(12)	No mapping available	

**Table B-9 Pricing Import XSD Price Promotion Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	MaintenanceEventEffectiveStatusCode	SC_EV_MNT_EF	VARCHAR(20)	No mapping available	
	MaintenanceEventExpirationStatusCode	SC_EV_MNT_EP	VARCHAR(20)	No mapping available	
MaintenanceEventI18N CO_EV_MNT_I18	EventID	ID_EV	INTEGER	Generated at Stores	
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PricePromotion/StoreID	
	Locale	LCL	VARCHAR(10)	No mapping available	
	LocalizedName	NM_EV_MNT	VARCHAR(120)	PricingImport/PricePromotion/LocalizedNameDescription@Name	
	LocalizedDescription	DE_EV_MNT	VARCHAR(250)	PricingImport/PricePromotion/LocalizedNameDescription@Description	
Item Maintenance Event CO_MNT_ITM	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PricePromotion/StoreID	
	FunctionCode	LU_EV_ITM_MNT	VARCHAR(20)	No mapping found	Default value = <b>PRICE CHANGE</b>
	RecordCreationTimestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLastModifiedTimestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
TemporaryPrice Change TR_CHN_TMP_PRC	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PricePromotion/StoreID	

Table B-9 Pricing Import XSD Price Promotion Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	SaleUnit Amount	MO_UN_TMP_PRC_CHN	DECIMAL(10,4)	PricingImport/PricePromotion/DiscountPercent PricingImport/PricePromotion/DiscountAmount PricingImport/PricePromotion/NewPrice	It can be any of the following: <ul style="list-style-type: none"> <li>Discount amount</li> <li>Discount percent</li> <li>New price</li> </ul>
	SaleUnit AmountType Code	TY_UN_TMP_PRC_CHN	VARCHAR(20)	PricingImport/PricePromotion @Type	Indicator to denote: <ul style="list-style-type: none"> <li>0= AmountOff</li> <li>1= PercentOff</li> <li>2= New Price</li> </ul>
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
ItemPrice Maintenance MA_PRC_ITM	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PricePromotion/StoreID	
	EventPriority	UN_PRI_EV	INTEGER	PricingImport/PricePromotion @Priority	
	LabelTemplateID	ID_TMPLT_LB	VARCHAR(8)	PricingImport/PricePromotion @TemplateType	"DEFAULT"
	TypeCode	TY_PRC_MNT	VARCHAR(20)	No mapping found	Default value = TPC for Temporary Price Change
	PriceLastDigit	UN_DG_LS_PRC	CHAR(1)	No mapping found	
	PricingGroupID	ID_PRCGP	INTEGER	PricingImport/PricePromotion@PricingGroupID	Maximum allowable value is Number(10)
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
TemporaryPrice ChangeItem MA_ITM_TMP_PRC_CHN	EventID	ID_EV	INTEGER	Generated at Stores	Same ID as Event table.

**Table B-9 Pricing Import XSD Price Promotion Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RetailStoreID	ID_STR_RT	VARCHAR(5)	PricingImport/PricePromotion/StoreID	
	Item ID	ID_ITM	VARCHAR(14)	PricingImport/PricePromotion/Item@ID	Here Item ID is required, but Item occurrence can be <b>zero</b> , in this case the promotion details are stored without storing the item details.
	LabelTemplateID	ID_TMPLT_LB	VARCHAR(8)	PricingImport/PricePromotion@TemplateType	Default value = <b>DEFAULT</b>
	Price Override Amount	MO_OVRD_PRC	DECIMAL(13,2)	PricingImport/PricePromotion/Item/Price/Amount	
	PromotionID	ID_PRM	INTEGER	PricingImport/PricePromotion@ID	Price management system pass through value - max allowed value is Number(10).
	Promotion ComponentID	ID_PRM_CMP	INTEGER	PricingImport/PricePromotion@PromoCompID	Price management system pass through value - max allowed value is Number(10). Defaults to <b>Zero</b> .
	Promotion Component DetailID	ID_PRM_CMP_DTL	INTEGER	PricingImport/PricePromotion@PromoCompDetailID	Price management system pass through value - max allowed value is Number(10). Defaults to <b>Zero</b> .
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	

Table B-10 identifies the Discount Rule element mapping for the PricingImport.xsd file.

**Table B-10 Pricing Import XSD Discount Rule Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
PriceDerivationRule RU_PRDV	PriceDerivationRuleID	ID_RU_PRDV	INTEGER		ID from the stores system. This is not the price management system promotion ID
	RetailStoreID	ID_STR_RT	VARCHAR(5)	DiscountRule/PricingRule/StoreID	
	PromotionID	ID_PRM	INTEGER	DiscountRule/PricingRule @ID	Price management system pass through value - max allowed value is Number(10)
	PromotionComponentID	ID_PRM_CMP	INTEGER	DiscountRule/PricingRule @PromoCompID	Price management system pass through value - max allowed value is Number(10)
	PromotionComponentDetailID	ID_PRM_CMP_DTL	INTEGER	DiscountRule/PricingRule @PromoCompDetlID	Price management system pass through value - max allowed value is Number(10)
	EffectiveDate	DC_RU_PRDV_EF	TIMESTAMP	DiscountRule/PricingRule @StartDateTime	
	ExpirationDate	DC_RU_PRDV_EP	TIMESTAMP	DiscountRule/PricingRule @EndDateTime	If left null, will default to 2009-12-31 23:59:59.000
	Description	DE_RU_PRDV	VARCHAR(250)	DiscountRule/PricingRule @Type	
	AssignmentBasisCode	CD_BAS_PRDV	INTEGER	DiscountRule/Sources@Type	3=Coupon 2=Other  Default it to 2
	SourceComparisonBasisCode	CD_BAS_CMP_SRC	VARCHAR(20)	DiscountRule/Sources@Type	0=Item 1=Department 2=Class 3=Coupon.  Default it to 0.
	TargetComparisonBasisCode	CD_BAS_CMP_TGT	VARCHAR(20)	DiscountRule/Targets@Type	0=Item, 1=Department, 2=Class.  Default it to 0.
	ApplicationLimit	QU_LM_APLY	SMALLINT	DiscountRule/PricingRule @NbrTimesPerTrans	

**Table B-10 Pricing Import XSD Discount Rule Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Department LedgerStock Modifier	DP_LDG_STK_MDFR	VARCHAR(20)	DiscountRule/PricingRule@AccountingMethod	1 = Markdown, 0 = Discount
	AllowRepeating SourcesFlag	FL_ALW_RPT_SRC	CHAR(1)	DiscountRule/PricingRule@AllowSourceToRepeat	0= false, 1= true
	Deal Distribution Flag	FL_DL_DST	CHAR(1)	DiscountRule/PricingRule@DealDistribution	1=SourceTarget, 0=Target
	PriceDerivation RuleName	NM_RU_PRDV	VARCHAR(160)	DiscountRule/PricingRule/Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	Source Threshold Amount	MO_TH_SRC	DECIMAL(13,2)	DiscountRule/PricingRule/SourceThreshold	
	SourceLimit Amount	MO_LM_SRC	DECIMAL(13,2)	DiscountRule/PricingRule/SourceLimit	
	TargetThreshold Amount	MO_TH_TGT	DECIMAL(13,2)	DiscountRule/PricingRule/TargetThreshold	
	TargetLimit Amount	MO_LM_TGT	DECIMAL(13,2)	DiscountRule/PricingRule/TargetLimit	
	SourceAnyQuantity	QU_AN_SRC	SMALLINT	DiscountRule/Sources@Qty	The Any Quantity is only populated if Sources@Qualifier is set to <b>Any</b> .
	TargetAnyQuantity	QU_AN_TGT	SMALLINT	DiscountRule/Targets@Qty	The Any Quantity is only populated if Targets@Qualifier is set to <b>Any</b> .
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
	TransactionControlBreakCode	LU_CBRK_PRDV_TRN	VARCHAR(2)	No mapping available	
	StatusCode	SC_RU_PRDV	VARCHAR(20)	No mapping available	
	TypeCode	TY_RU_PRDV	VARCHAR(2)	No mapping available	

**Table B-10 Pricing Import XSD Discount Rule Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	EventID	ID_EV	INTEGER	No mapping available	
	PriceDerivation RuleName	NM_RU_PRDV	VARCHAR(120)	No mapping available	
	ReasonCode	RC_RU_PRDV	INTEGER	No mapping available	
	AdvancedDeal AppliedFlag	FL_DL_ADVN_APLY	CHAR(1)	No mapping available	
	ScopeCode	CD_SCP_PRDV	INTEGER	PricingImport/DiscountRule/PricingRule@Scope	Transaction = 0, Item = 1, Group = 2
	MethodCode	CD_MTH_PRDV	INTEGER	No mapping available	
	DefaultEntryCode	FL_CD_ENT_DFLT	CHAR(1)	No mapping available	
	ListSortIndex	CD_ENT_SRT	SMALLINT	No mapping available	
	PriceDerivation ThresholdType Code	CD_TY_TH_PRDV	VARCHAR(4)	No mapping available	
	DiscountTypeID	ID_TY_DISC	INTEGER	No mapping available	
	PricingGroupID	ID_PRCGP	INTEGER	PricingImport/DiscountRule/PricingRule@PricingGroupID	Maximum allowable value is Number(10)
PriceDerivationRuleI18N RU_PRDV_I8	RetailStoreID	ID_RU_PRDV	INTEGER	ID from the stores system	This will not be the price management system promotion ID
	PriceDerivation RuleID	ID_STR_RT	VARCHAR(5)	PricingImport/DiscountRule/PricingRule/StoreID	
	Locale	LCL	VARCHAR(10)	No mapping available	System supported locale
	LocalizedName	NM_RU_PRDV	VARCHAR(120)	PricingImport/DiscountRule/PricingRule/LocalizedName@Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
ItemPrice Derivation RuleEligibility CO_EL_PRDV_ITM	ItemID	ID_ITM	VARCHAR(14)	DiscountRule/Sources/Source@ID	

**Table B-10 Pricing Import XSD Discount Rule Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	PriceDerivationRuleEligibilityID	ID_RU_PRDV	INTEGER	DiscountRule/PricingRule @ID	
	RetailStoreID	ID_STR_RT	VARCHAR(5)	DiscountRule/PricingRule/StoreID	
	ThresholdQuantity	QU_TH	INTEGER	DiscountRule/Sources/Source @Qty	
	ThresholdAmount	MO_TH	DECIMAL(13,2)	DiscountRule/Sources/Source/SourceAmount	
	EffectiveDateTimestamp	TS_RU_DRV_N_EF	TIMESTAMP	DiscountRule/PricingRule @StartDateTime	
	ExpirationDateTimestamp	TS_RU_DRV_N_EP	TIMESTAMP	DiscountRule/PricingRule @EndDateTime	
	RecordCreationTimestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLastModifiedTimestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
	StoreFinancialLedgerAccountID	ID_ACTN_LDG	INTEGER	No mapping available	
	EventID	ID_EV	INTEGER	No mapping available	
	AccountingDispositionCode	DP_RU_PRC_DRV_N	VARCHAR(4)	No mapping available	
	QuantityLimit	QU_UL	DECIMAL(9,2)	No mapping available	
	AmountLimit	MO_UL	DECIMAL(13,2)	No mapping available	
MixAndMatchPriceDerivationItem TR_ITM_MXMH_PRDV	PriceDerivationRuleID	ID_RU_PRDV	INTEGER	DiscountRule/PricingRule @ID	
	RetailStoreID	ID_STR_RT	VARCHAR(5)	DiscountRule/PricingRule/StoreID	
	PromotionalProductID	ID_PRM_PRD	VARCHAR(14)	DiscountRule/Targets/Target @ID	
	ReductionMonetaryAmount	MO_RDN_PRC_MXMH	DECIMAL(13,2)	DiscountRule/Targets/DiscountAmount	
	ReductionPercent	PE_RDN_PRC_MXMH	DECIMAL(5,2)	DiscountRule/Targets/DiscountPercent	
	ReductionPricePoint	PNT_PRC_RDN_MXMH	DECIMAL(13,2)	DiscountRule/Targets/NewPrice	



**Table B-10 Pricing Import XSD Discount Rule Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	MixAndMatch LimitCount	QU_LM_MXMH	INTEGER	DiscountRule/Targets/Target @Qty	
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
	ComparisonBasisCode	CD_BAS_CMP	VARCHAR(20)	No mapping available	
ItemPrice Derivation CO_PRDV_ITM	RetailStoreID	ID_STR_RT	VARCHAR(5)	DiscountRule/PricingRule/StoreID	
	PriceDerivation RuleID	ID_RU_PRDV	INTEGER	DiscountRule/PricingRule @ID	
	Reduction Amount	MO_UN_ITM_PRDV	DECIMAL(13,2)	DiscountRule/Targets/DiscountAmount	
	Reduction Percent	PE_UN_ITM_PRDV	DECIMAL(5,2)	DiscountRule/Targets/DiscountPercent	
	DiscountPrice Point	PNT_PRC_UN_ITM_PRDV	DECIMAL(13,2)	DiscountRule/Targets/NewPrice	
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
MixAndMatch PriceDerivation Rule RU_PRDV_MXMH	RetailStoreID	ID_STR_RT	VARCHAR(5)	DiscountRule/PricingRule/StoreID	
	PriceDerivation RuleID	ID_RU_PRDV	INTEGER	DiscountRule/PricingRule @ID	
	MixAndMatch LimitCount	QU_LM_MXMH	INTEGER	DiscountRule/Targets/Target @Qty	
DepartmentPrice Derivation RuleEligibility CO_EL_PRDV_DPT	POSDepartment ID	ID_DPT_POS	VARCHAR(14)	DiscountRule/Sources/Source @ID	Might be derived from the table ID_DPT_PS column ID_DPT_POS
	Populated only if DiscountRule/Sources/Source @type is <b>Department</b>				

**Table B–10 Pricing Import XSD Discount Rule Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	PriceDerivation RuleID	ID_RU_PRDV	INTEGER	No mapping available	ID from the stores system. This is not the price management system promotion ID.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	DiscountRule/PricingRule/StoreID	
	StoreFinancial Ledger AccountID	ID_ACTN_LDG	INTEGER	No mapping available	
	EventID	ID_EV	INTEGER	No mapping available	
	Accounting Disposition Code	DP_ACNT_DPT_PRDV	VARCHAR(4)	No mapping available	
	Threshold Amount	MO_TH	DECIMAL(13,2)	DiscountRule/Sources/Source/SourceAmount	
	Threshold Quantity	QU_TH	INTEGER	DiscountRule/Sources/Source @Qty	
	LimitQuantity	QU_UL	DECIMAL(9,2)	No mapping available	
	LimitAmount	MO_UL	DECIMAL(13,2)	No mapping available	
	Effective Timestamp	TS_RU_MRST_EF	TIMESTAMP	DiscountRule/PricingRule @StartDateTime	
	Expiration Timestamp	TS_RU_MRST_EP	TIMESTAMP	DiscountRule/PricingRule @EndDateTime	
	RecordCreated Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
Merchandise StructurePrice Derivation RuleEligibility CO_EL_MRST_PRDV Populated only if DiscountRule/Sources/Source @type is "Class"	PriceDerivation RuleID	ID_RU_PRDV	INTEGER	ID from the stores system.	This is not the price management system promotion ID.
	RetailStoreID	ID_STR_RT	VARCHAR(5)	Store ID	

**Table B-10 Pricing Import XSD Discount Rule Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Merchandise Classification Code	ID_STRC_MR_CD	VARCHAR(10)	DiscountRule/Sources/Source @ID	Might be derived from the table LU_CD_STRC_MR column ID_STRC_MR_CD
	StoreFinancial Ledger AccountID	ID_ACTN_LDG	INTEGER	No mapping available	
	EventID	ID_EV	INTEGER	No mapping available	
	EffectiveDate Timestamp	TS_RU_MRST_EF	TIMESTAMP	DiscountRule/PricingRule @StartDateTime	
	ExpirationDate Timestamp	TS_RU_MRST_EP	TIMESTAMP	DiscountRule/PricingRule @EndDateTime	
	Accounting Disposition Code	DP_ACNT_MRST	VARCHAR(4)	No mapping available	
	Threshold Amount	MO_TH	DECIMAL(13,2)	DiscountRule/Sources/Source/SourceAmount	
	Quantity Threshold	QU_TH	INTEGER	DiscountRule/Sources/Source @Qty	
	AmountLimit	MO_UL	DECIMAL(13,2)	No mapping available	
	QuantityLimit	QU_UL	DECIMAL(9,2)	No mapping available	
	RecordCreated Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	

The following is an example Pricing Import XSD file.

**Example B-11 PricingImport.xsd**

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
/* =====
* Copyright (c) 2008, 2010, Oracle and/or its affiliates. All rights reserved.
* =====
* $Header: rgbustores/internal/DIMP/Pricing/PricingImport.xsd /main/13 2010/01/04
21:35:18 abondala Exp $
* =====
* NOTES
* <other useful comments, qualifications, etc.>
*
* MODIFIED (MM/DD/YY)
*   abondala 01/04/10 - fix header
*   cgreene 12/18/09 - per Eatal reqs, default template to DEFAULT
```

```

*   masahu   03/17/09 - Pricing Group import moved to Customer imports
*   vikini   03/06/09 - Adding a choice between Name and LocalizedName for
*                   PricingGroup_type
*   glwang   02/13/09 - DIMP doc updates
*   npoola   02/04/09 - removed the Name attribute from added the
*                   localization for PricingGroup
*   npoola   02/04/09 - refreshed with the base line
*   npoola   02/04/09 - PricingGroup Dimp localization added
*   npoola   01/30/09 - Pricing Group Localization
*   lslepeti 01/29/09 - change co.id_ev_ext to int
*   cgreene  11/19/08 - migrate common types to ../common.xsd
*
* =====
*/
-->
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">

<xs:annotation><xs:documentation>
Pricing Import Schema. Copyright 2007 Oracle Inc. All rights reserved.

Use this schema in conjunction with a Oracle Store Systems Data Dictionary
and the relations between the element and attribute names should be
apparent.
</xs:documentation></xs:annotation>

<xs:include schemaLocation="../common.xsd"></xs:include>
<xs:element name="PricingImport">
<xs:annotation><xs:documentation>
Top-level element holding a collection of Price records.
</xs:documentation></xs:annotation>
<xs:complexType>
<xs:sequence>
<xs:element name="PriceChange" type="PriceChange_type" minOccurs="0"
maxOccurs="unbounded" />
<xs:element name="PricePromotion" type="PricePromotion_type" minOccurs="0"
maxOccurs="unbounded" />
<xs:element name="DiscountRule" type="DiscountRule_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="FillType" type="FillType_type" use="required" />
<xs:attribute name="CreationDate" type="xs:dateTime" />
<xs:attribute name="ExpirationDate" type="xs:dateTime" />
<xs:attribute name="Version" type="xs:string" />
<xs:attribute name="Priority" type="xs:int" />
<xs:attribute name="Batch" type="xs:int" />
</xs:complexType>
</xs:element>

<xs:complexType name="PriceChange_type">
<xs:sequence>
<xs:choice>
<xs:element name="Description" type="LocalizedDescription_type"
minOccurs="0" maxOccurs="1" />
<xs:element name="LocalizedDescription" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded" />
</xs:choice>
<xs:element name="Item" type="ItemAndPrice_type" minOccurs="1"
maxOccurs="unbounded" />
<xs:element name="StoreID" type="RetailStoreId_type" minOccurs="0"

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maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="ChangeType" type="ChangeType_type" default="ADD" />
<xs:attribute name="ID" type="xs:int" use="required" />
<xs:attribute name="StartDate" type="xs:date" use="required" />
<xs:attribute name="TemplateType" default="*DEFAULT">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="8" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

<xs:complexType name="ItemAndPrice_type">
<xs:sequence>
<xs:element name="Price" type="CurrencyAmount_type" minOccurs="1"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="ID" type="xs:string" use="required" />
<xs:attribute name="TemplateType" default="*DEFAULT">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="8" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

<xs:group name="DiscountTypeChoice">
<xs:choice>
<xs:element name="DiscountPercent" type="xs:decimal" />
<xs:element name="DiscountAmount" type="CurrencyAmount_type" />
<xs:element name="NewPrice" type="CurrencyAmount_type" />
</xs:choice>
</xs:group>

<xs:attributeGroup name="PromotionComponentAttributes">
<xs:attribute name="PromoCompID" type="xs:int" use="optional" />
<xs:attribute name="PromoCompDetlID" type="xs:int" use="optional" />
</xs:attributeGroup>

<xs:complexType name="PricePromotion_type">
<xs:sequence>
  <xs:choice>
    <xs:sequence>
      <xs:element name="Name" type="LocalizedName_type" minOccurs="1"
maxOccurs="1" />
      <xs:element name="Description" type="LocalizedDescription_type" minOccurs="0"
maxOccurs="1" />
    </xs:sequence>
    <xs:element name="LocalizedNameDescription" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded" />
  </xs:choice>
  <xs:group ref="DiscountTypeChoice" minOccurs="0" maxOccurs="1" />
  <xs:element name="Item" type="ItemAndPrice_type" minOccurs="0"
maxOccurs="unbounded" />
  <xs:element name="StoreID" type="RetailStoreId_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>

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<xs:attribute name="ChangeType" type="ChangeType_type" default="ADD"/>
<xs:attribute name="ID" type="xs:int" use="required"/>
<xs:attributeGroup ref="PromotionComponentAttributes"/>
<xs:attribute name="StartDateTime" type="xs:dateTime" use="required"/>
<xs:attribute name="EndDateTime" type="xs:dateTime" use="optional">
<xs:annotation><xs:documentation>
If the EndDateime is not specified, it will be assumed that it
was intentionally left blank to denote an never-ending
pricing rule. The value will then be persisted as
'2099-12-31 11:59:59.000'
</xs:documentation></xs:annotation>
</xs:attribute>
<xs:attribute name="Type" type="PricePromotionType_type" use="required"/>
<xs:attribute name="Priority" type="xs:int" default="0"/>
<xs:attribute name="TemplateType" default="*DEFAULT">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="8"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="PricingGroupID" type="xs:int"/>
</xs:complexType>

<xs:simpleType name="PricePromotionType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="AmountOff"/>
<xs:enumeration value="PercentOff"/>
<xs:enumeration value="NewPrice"/>
</xs:restriction>
</xs:simpleType>

<xs:complexType name="DiscountRule_type">
<xs:sequence>
<xs:element name="PricingRule" type="PricingRule_type" minOccurs="1"
maxOccurs="1"/>
<xs:element name="Sources" type="Sources_type" minOccurs="1" maxOccurs="1"/>
<xs:element name="Targets" type="Targets_type" minOccurs="1" maxOccurs="1"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="PricingRule_type">
<xs:sequence>
  <xs:choice>
    <xs:element name="Name" type="LocalizedName_type" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="LocalizedName" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded"/>
  </xs:choice>
  <xs:element name="SourceThreshold" type="CurrencyAmount_type" minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element name="SourceLimit" type="CurrencyAmount_type" minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element name="TargetThreshold" type="CurrencyAmount_type" minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element name="TargetLimit" type="CurrencyAmount_type" minOccurs="0"
maxOccurs="unbounded"/>
  <xs:element name="StoreID" type="RetailStoreId_type" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>

```

```

<xs:attribute name="ChangeType" type="ChangeType_type" default="ADD"/>
<xs:attribute name="ID" type="xs:int" use="required"/>
<xs:attributeGroup ref="PromotionComponentAttributes"/>
<xs:attribute name="StartDateTime" type="xs:dateTime" use="required"/>
<xs:attribute name="EndDateTime" type="xs:dateTime" use="optional">
<xs:annotation><xs:documentation>
If the EndDate is not specified, it will be assumed that it
was intentionally left blank to denote an never-ending
pricing rule. The value will then be persisted as
'2099-12-31 11:59:59.000'
</xs:documentation></xs:annotation>
</xs:attribute>
<xs:attribute name="Type" type="RuleType_type" use="required"/>
<xs:attribute name="NbrTimesPerTrans" type="xs:int" default="-1"/>
<xs:attribute name="AccountingMethod" type="AccountingMethodType_type"
default="Discount" />
<xs:attribute name="AllowSourceToRepeat" type="xs:boolean" default="true"/>
<xs:attribute name="DealDistribution" type="DealDistributionType_type"
default="Target"/>
<xs:attribute name="Scope" type="ScopeType_type" default="Item" />
<xs:attribute name="PricingGroupID" type="xs:int"/>
</xs:complexType>

<xs:attributeGroup name="SourceTargetAttributes">
<xs:attribute name="Type" type="SourceTargetType_type" default="Item" />
<xs:attribute name="Qualifier" type="QualifierType_type" default="Any">
<xs:annotation><xs:documentation>
If not specified, it is assumed that the Qualifier is Any.
</xs:documentation></xs:annotation>
</xs:attribute>
<xs:attribute name="Qty" type="xs:int" default="1">
<xs:annotation><xs:documentation>
It is only necessary to specify Qty if Qualifier has been
set to Any. If not specified, it is assumed that Qty for
Any is one (1).
</xs:documentation></xs:annotation>
</xs:attribute>
</xs:attributeGroup>

<xs:complexType name="Sources_type">
<xs:sequence>
<xs:element name="Source" minOccurs="1" maxOccurs="unbounded">
<xs:complexType>
<xs:sequence>
<xs:element name="SourceAmount" type="CurrencyAmount_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="ID" type="xs:string" use="required" />
<xs:attribute name="Qty" type="xs:int" use="required" />
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attributeGroup ref="SourceTargetAttributes"/>
</xs:complexType>

<xs:complexType name="Targets_type">
<xs:sequence>
<xs:group ref="DiscountTypeChoice" minOccurs="1" maxOccurs="1"/>
<xs:element name="Target" minOccurs="0" maxOccurs="unbounded">
<xs:complexType>

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```

<xs:attribute name="ID" type="xs:string" use="required"/>
<xs:attribute name="Qty" type="xs:int" default="1"/>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attributeGroup ref="SourceTargetAttributes"/>
</xs:complexType>

<xs:simpleType name="RuleType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="BuyNofXgetYatZ%off"/>
<xs:enumeration value="BuyNofXgetYatZ$off"/>
<xs:enumeration value="BuyNofXgetYatZ$"/>
<xs:enumeration value="BuyNofXgetHighestPricedXatZ%off"/>
<xs:enumeration value="BuyNofXgetLowestPricedXatZ%off"/>
<xs:enumeration value="Buy$NorMoreOfXgetYatZ$off"/>
<xs:enumeration value="Buy$NorMoreOfXgetYatZ%off"/>
<xs:enumeration value="Buy$NorMoreOfXgetYatZ$"/>
<xs:enumeration value="BuyNofXforZ$"/>
<xs:enumeration value="BuyNofXforZ%off"/>
<xs:enumeration value="BuyNofXforZ$off"/>
<xs:enumeration value="BuyNorMoreOfXforZ%off"/>
<xs:enumeration value="BuyNorMoreOfXforZ$Each"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="AccountingMethodType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Discount"/>
<xs:enumeration value="Markdown"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="DealDistributionType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Target"/>
<xs:enumeration value="SourceTarget"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="ScopeType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Item"/>
<xs:enumeration value="Group"/>
<xs:enumeration value="Transaction"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="SourceTargetType_type">
<xs:restriction base="xs:string">
<xs:enumeration value="Item"/>
<xs:enumeration value="Coupon"/>
<xs:enumeration value="Class"/>
<xs:enumeration value="Department"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="QualifierType_type">
<xs:annotation><xs:documentation>
Used to qualify a list whereby Any element in the list must be

```



```

used versus requiring All elements in the list.
</xs:documentation></xs:annotation>
<xs:restriction base="xs:string">
<xs:enumeration value="Any"></xs:enumeration>
<xs:enumeration value="All"></xs:enumeration>
</xs:restriction>
</xs:simpleType>

</xs:schema>

```

The following is an example Pricing Import XML file.

**Example B-12 PricingImport.xml**

```

<?xml version="1.0" encoding="UTF-8"?>
<PricingImport
  Priority="0"
  FillType="FullIncremental"
  Version="1.0"
  Batch="1"
  CreationDate="2001-12-17T09:30:47.0Z"
  ExpirationDate="2027-12-17T09:30:47.0Z"
  xsi:noNamespaceSchemaLocation="PricingImport.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <!-- Price Change, multiple stores -->

  <PriceChange
    ChangeType="ADD"
    ID="40000859"
    StartDate="2007-01-28"
    TemplateType="Default">
    <Description>Board Games</Description>
    <Item ID="20020002"
      TemplateType="Default">
      <Price>199.99</Price>
      <Price CurrencyCode="CAD">299.99</Price>
    </Item>
    <Item ID="40040004"
      TemplateType="Default">
      <Price>299.99</Price>
      <Price CurrencyCode="CAD">399.99</Price>
    </Item>
    <StoreID>04241</StoreID>
    <StoreID>04242</StoreID>
    <StoreID>04243</StoreID>
  </PriceChange>

  <PriceChange
    ChangeType="ADD"
    StartDate="2007-01-28"
    ID="40000860"
    TemplateType="Default">
    <Description>Board Games</Description>
      <Item ID="40020002"
        TemplateType="Default">
          <Price>199.99</Price>
          <Price CurrencyCode="CAD">299.99</Price>
        </Item>
      <Item ID="80080008"

```

```
        TemplateType="Default">
        <Price>299.99</Price>
        <Price CurrencyCode="CAD">399.99</Price>
    </Item>
    <StoreID>04241</StoreID>
    <StoreID>04242</StoreID>
</PriceChange>

<!-- Promotion - Percent Off -->

<PricePromotion
  ChangeType="ADD"
  ID="40000113"
  PromoCompID="123"
  PromoCompDetlID="456"
  StartDateTime="2007-09-10T00:00:00"
  EndDateTime="2007-09-24T23:59:50"
  Type="PercentOff"
  Priority="1"
  TemplateType="Default">
  <Name>Boy's Polo's</Name>
  <Description>BTS - All PK and knit boy's polos on promo</Description>
  <DiscountPercent>15</DiscountPercent>
  <Item ID="1234">
    <Price>4.25</Price>
    <Price CurrencyCode="CAD">5.25</Price>
  </Item>
  <Item ID="3333"
    TemplateType="Default">
    <Price>4.99</Price>
  </Item>
  <StoreID>04241</StoreID>
  <StoreID>04242</StoreID>
  <StoreID>04243</StoreID>
</PricePromotion>

<!-- Promotion - Amount Off -->

<PricePromotion
  ChangeType="ADD"
  ID="40000113"
  PromoCompID="123"
  PromoCompDetlID="456"
  StartDateTime="2007-09-10T00:00:00"
  EndDateTime="2007-09-24T23:59:50"
  Type="AmountOff"
  Priority="1"
  TemplateType="Default">
  <Name>Boy's Polo's</Name>
  <Description>BTS - All PK and knit boy's polos on promo</Description>
  <DiscountAmount>10.00</DiscountAmount>
  <Item ID="1234">
    <Price>4.25</Price>
    <Price CurrencyCode="CAD">5.25</Price>
  </Item>
  <Item ID="3333"
    TemplateType="Default">
    <Price>4.99</Price>
  </Item>
  <StoreID>04241</StoreID>
```

```

        <StoreID>04242</StoreID>
        <StoreID>04243</StoreID>
    </PricePromotion>

<!-- Promotion - New Price -->

    <PricePromotion
        ChangeType="ADD"
        ID="40000113"
        PromoCompID="123"
        PromoCompDetlID="456"
        StartDateTime="2007-09-10T00:00:00"
        EndDateTime="2007-09-24T23:59:50"
        Type="NewPrice"
        Priority="1"
        TemplateType="Default">
        <Name>Boy's Polo's</Name>
    <Description>BTS - All PK and knit boy's polos on promo</Description>
    <Item ID="1234"
        TemplateType="Default">
        <Price>4.25</Price>
        <Price CurrencyCode="CAD">5.25</Price>
    </Item>
    <StoreID>04241</StoreID>
    <StoreID>04242</StoreID>
    <StoreID>04243</StoreID>
    </PricePromotion>

<!-- Discount Rules -->

<!-- BuyNofXgetYatZ%off - Multiple source items, multiple target items. -->
<DiscountRule>
    <PricingRule
        ChangeType="ADD"
        ID="11150335"
        PromoCompID="123"
        PromoCompDetlID="456"
        StartDateTime="2007-01-28T00:00:00"
        EndDateTime="2007-01-28T23:59:59"
        Type="BuyNofXgetYatZ%off"
        NbrTimesPerTrans="1"
        AccountingMethod="Discount"
        AllowSourceToRepeat="true"
        DealDistribution="Target">
    <Name>Bootcut Jean/Sweater Rule</Name>
        <SourceThreshold>5.00</SourceThreshold>
        <SourceLimit>100.00</SourceLimit>
        <TargetThreshold>5.00</TargetThreshold>
        <TargetLimit>100.00</TargetLimit>
        <StoreID>04241</StoreID>
        <StoreID>04242</StoreID>
        <StoreID>04243</StoreID>
    </PricingRule>
    <Sources
        Type="Item">
        <Source ID="1234"
            Qty="2"/>
        <Source ID="4567"
            Qty="2"/>
    </Sources>

```

```

    <Targets
      Type="Item">
        <DiscountPercent>10</DiscountPercent>
        <Target ID="1234"
          Qty="1" />
        <Target ID="20020002"
          Qty="1" />
      </Targets>
</DiscountRule>

<!-- BuyNofXgetYatZ$off - Multiple source items, multiple target items. -->
<DiscountRule>
  <PricingRule
    ChangeType="ADD"
    ID="11150335"
    PromoCompID="123"
    PromoCompDetlID="456"
    StartDateTime="2007-01-28T00:00:00"
    EndDateTime="2007-01-28T23:59:59"
    Type="BuyNofXgetYatZ$off"
    NbrTimesPerTrans="1"
    AccountingMethod="Discount"
    AllowSourceToRepeat="true"
    DealDistribution="Target">
    <Name>Bootcut Jean/Sweater Rule</Name>
    <SourceThreshold>5.00</SourceThreshold>
    <SourceLimit>100.00</SourceLimit>
    <TargetThreshold>5.00</TargetThreshold>
    <TargetLimit>100.00</TargetLimit>
    <StoreID>04241</StoreID>
    <StoreID>04242</StoreID>
    <StoreID>04243</StoreID>
  </PricingRule>
  <Sources
    Type="Item">
      <Source ID="1234"
        Qty="2" />
      <Source ID="4567"
        Qty="2" />
    </Sources>
  <Targets
    Type="Item">
      <DiscountAmount>1.00</DiscountAmount>
      <Target ID="1234"
        Qty="1" />
      <Target ID="20020002"
        Qty="1" />
    </Targets>
</DiscountRule>

<!-- BuyNofXgetYatZ$ - One source item, one target item. -->
<DiscountRule>
  <PricingRule
    ChangeType="ADD"
    ID="11150335"
    PromoCompID="123"
    PromoCompDetlID="456"
    StartDateTime="2007-01-28T00:00:00"
    EndDateTime="2007-01-28T23:59:59"
    Type="BuyNofXgetYatZ$"

```

```

        NbrTimesPerTrans="1"
        AccountingMethod="Discount"
        AllowSourceToRepeat="true"
        DealDistribution="Target">
            <Name>Bootcut Jean/Sweater Rule</Name>
            <SourceThreshold>5.00</SourceThreshold>
            <SourceLimit>100.00</SourceLimit>
            <TargetThreshold>5.00</TargetThreshold>
            <TargetLimit>100.00</TargetLimit>
        </PricingRule>
    </Sources>
        <Source ID="1234"
            Qty="2" />
    </Sources>
    <Targets>
        <NewPrice>10.00</NewPrice>
        <Target ID="5678"
            Qty="1" />
    </Targets>
</DiscountRule>

<!-- BuyNofXgetLowestPricedXatZ%off - Multiple source items -->
<DiscountRule>
    <PricingRule
        ChangeType="ADD"
        ID="11150335"
        PromoCompID="123"
        PromoCompDetlID="456"
        StartDateTime="2007-01-28T00:00:00"
        EndDateTime="2007-01-28T23:59:59"
        Type="BuyNofXgetLowestPricedXatZ%off"
        NbrTimesPerTrans="1"
        AccountingMethod="Discount"
        AllowSourceToRepeat="true"
        DealDistribution="Target">
            <Name>Bootcut Jean/Sweater Rule</Name>
            <SourceThreshold>5.00</SourceThreshold>
            <SourceLimit>100.00</SourceLimit>
        </PricingRule>
    <Sources>
        <Source ID="1234"
            Qty="2" />
        <Source ID="20020002"
            Qty="2" />
    </Sources>
    <Targets>
        <DiscountPercent>10</DiscountPercent>
    </Targets>
</DiscountRule>

<!-- BuyNofXgetHighestPricedXatZ%off - Multiple source items -->
<DiscountRule>
    <PricingRule
        ChangeType="ADD"
        ID="11150335"
        PromoCompID="123"
        PromoCompDetlID="456"
        StartDateTime="2007-01-28T00:00:00"
        EndDateTime="2007-01-28T23:59:59"
        Type="BuyNofXgetHighestPricedXatZ%off"

```

```
NbrTimesPerTrans="1"
AccountingMethod="Discount"
AllowSourceToRepeat="true"
DealDistribution="Target">
  <Name>Bootcut Jean/Sweater Rule</Name>
  <SourceThreshold>5.00</SourceThreshold>
  <SourceLimit>100.00</SourceLimit>
</PricingRule>
<Sources>
  Type="Item">
    <Source ID="1234"
      Qty="2"/>
    <Source ID="20020002"
      Qty="2"/>
  </Sources>
<Targets>
  <DiscountPercent>10</DiscountPercent>
</Targets>
</DiscountRule>

<!-- BuyNofXforZ%off - Multiple source items. -->
<DiscountRule>
  <PricingRule
    ChangeType="ADD"
    ID="11150335"
    PromoCompID="123"
    PromoCompDetlID="456"
    StartDateTime="2007-01-28T00:00:00"
    EndDateTime="2007-01-28T23:59:59"
    Type="BuyNofXforZ%off"
    NbrTimesPerTrans="1"
    AccountingMethod="Discount"
    AllowSourceToRepeat="true"
    DealDistribution="Target">
      <Name>Bootcut Jean/Sweater Rule</Name>
      <SourceThreshold>5.00</SourceThreshold>
      <SourceLimit>100.00</SourceLimit>
    </PricingRule>
    <Sources>
      <Source ID="1234"
        Qty="2"/>
      <Source ID="20020002"
        Qty="2"/>
    </Sources>
    <Targets>
      <DiscountPercent>10</DiscountPercent>
    </Targets>
  </DiscountRule>

<!-- BuyNofXforZ$off - Multiple source items. -->
<DiscountRule>
  <PricingRule
    ChangeType="ADD"
    ID="11150335"
    PromoCompID="123"
    PromoCompDetlID="456"
    StartDateTime="2007-01-28T00:00:00"
    EndDateTime="2007-01-28T23:59:59"
    Type="BuyNofXforZ$off"
    NbrTimesPerTrans="1"
```

```

        AccountingMethod="Discount "
        AllowSourceToRepeat="true"
        DealDistribution="Target">
            <Name>Bootcut Jean/Sweater Rule</Name>
            <SourceThreshold>5.00</SourceThreshold>
            <SourceLimit>100.00</SourceLimit>
        </PricingRule>
    </Sources>
    <Sources>
        <Source ID="1234"
            Qty="2"/>
        <Source ID="20020002"
            Qty="2"/>
    </Sources>
    <Targets>
        <DiscountAmount>2.00</DiscountAmount>
    </Targets>
</DiscountRule>

<!-- BuyNofXforZ$ - Multiple source items. -->
<DiscountRule>
    <PricingRule
        ChangeType="ADD"
        ID="11150335"
        PromoCompID="123"
        PromoCompDetlID="456"
        StartDateTime="2007-01-28T00:00:00"
        EndDateTime="2007-01-28T23:59:59"
        Type="BuyNofXforZ$"
        NbrTimesPerTrans="1"
        AccountingMethod="Discount "
        AllowSourceToRepeat="true"
        DealDistribution="Target">
            <Name>Bootcut Jean/Sweater Rule</Name>
            <SourceThreshold>5.00</SourceThreshold>
            <SourceLimit>100.00</SourceLimit>
        </PricingRule>
    <Sources>
        <Source ID="1234"
            Qty="2"/>
        <Source ID="20020002"
            Qty="2"/>
    </Sources>
    <Targets>
        <NewPrice>2.00</NewPrice>
    </Targets>
</DiscountRule>

<!-- Buy$NorMoreOfXgetYatZ$off - Single department source, single item target
-->
<DiscountRule>
    <PricingRule
        ChangeType="ADD"
        ID="11150335"
        PromoCompID="123"
        PromoCompDetlID="456"
        StartDateTime="2007-01-28T00:00:00"
        EndDateTime="2007-01-28T23:59:59"
        Type="Buy$NorMoreOfXgetYatZ$off"
        NbrTimesPerTrans="1"
        AccountingMethod="Discount "

```

```

        AllowSourceToRepeat="true"
        DealDistribution="Target">
            <Name>Bootcut Jean/Sweater Rule</Name>
            <SourceThreshold>5.00</SourceThreshold>
            <SourceLimit>100.00</SourceLimit>
            <TargetThreshold>5.00</TargetThreshold>
            <TargetLimit>100.00</TargetLimit>
        </PricingRule>
    <Sources>
        Type="Department">
            <Source ID="Women's Apparel" Qty="1">
                <SourceAmount>100.00</SourceAmount>
            </Source>
        </Sources>
    <Targets>
        <DiscountAmount>10.00</DiscountAmount>
        <Target ID="1234"
            Qty="1"/>
    </Targets>
</DiscountRule>

<!-- Buy$NorMoreOfXgetYatZ%off - Single class source, single item target -->
<DiscountRule>
    <PricingRule
        ChangeType="ADD"
        ID="11150335"
        PromoCompID="123"
        PromoCompDetlID="456"
        StartDateTime="2007-01-28T00:00:00"
        EndDateTime="2007-01-28T23:59:59"
        Type="Buy$NorMoreOfXgetYatZ%off"
        NbrTimesPerTrans="1"
        AccountingMethod="Discount"
        AllowSourceToRepeat="true"
        DealDistribution="Target">
            <Name>Bootcut Jean/Sweater Rule</Name>
            <SourceThreshold>5.00</SourceThreshold>
            <SourceLimit>100.00</SourceLimit>
            <TargetThreshold>5.00</TargetThreshold>
            <TargetLimit>100.00</TargetLimit>
        </PricingRule>
    <Sources>
        Type="Class">
            <Source ID="Jeans" Qty="1">
                <SourceAmount>100.00</SourceAmount>
            </Source>
        </Sources>
    <Targets>
        <DiscountPercent>10</DiscountPercent>
        <Target ID="1234"
            Qty="1"/>
    </Targets>
</DiscountRule>

<!-- Buy$NorMoreOfXgetYatZ$ - Single class source, single item target -->
<DiscountRule>
    <PricingRule
        ChangeType="ADD"
        ID="11150335"
        PromoCompID="123"

```



```

PromoCompDetlID="456"
StartDateTime="2007-01-28T00:00:00"
EndDateTime="2007-01-28T23:59:59"
Type="Buy$NorMoreOfXgetYatZ$"
NbrTimesPerTrans="1"
AccountingMethod="Discount"
AllowSourceToRepeat="true"
DealDistribution="Target">
  <Name>Bootcut Jean/Sweater Rule</Name>
  <SourceThreshold>5.00</SourceThreshold>
  <SourceLimit>100.00</SourceLimit>
  <TargetThreshold>5.00</TargetThreshold>
  <TargetLimit>100.00</TargetLimit>
</PricingRule>
<Sources
  Type="Class">
  <Source ID="Jeans" Qty="1">
    <SourceAmount>100.00</SourceAmount>
  </Source>
</Sources>
<Targets>
  <NewPrice>10.00</NewPrice>
  <Target ID="1234"
    Qty="1"/>
</Targets>
</DiscountRule>

</PricingImport>

```

## Store Hierarchy Import

Table B-11 identifies the PreloadData element mapping for the StoreHierarchyImport.xsd file.

**Table B-11 Store Hierarchy Import XSD Preload Data Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
StoreRegions LO_STR_RGN	RegionID	ID_STR_RGN(LO_STR_DSTRCT, PA_STR_RTL)	VARCHAR(14)	PreloadData/StoreRegion/RegionID	
	RegionName	NM_STR_RGN	VARCHAR(120)	PreloadData/StoreRegion/RegionName PreloadData/StoreRegion/LocalizedRegionName@Name	NM_* is either <Name> or <Localized*Name@Name>. If a <Localized*Name@Name> element is not found for a supported language (locale), the last <Localized*Name@Name> in the list is used for that language.
	RecordCreate Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	

**Table B–11 Store Hierarchy Import XSD Preload Data Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RecordModify Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
StoreRegionsI18N LO_STR_RGN_I8	RegionID	ID_STR_RGN	VARCHAR(14)	PreloadData/StoreRegion/RegionID	
	Locale	LCL	VARCHAR(10)	PreloadData/StoreRegion/LocalizedRegionName@Language	LCL is a supported language in the system, for example, "en" or "en_US". If an exact match is not found in the <Localized*Name> list, the best match, or last value in the list is used.
	RegionName	NM_STR_RGN	VARCHAR(120)	PreloadData/StoreRegion/RegionName PreloadData/StoreRegion/LocalizedRegionName@Name	NM_* is either <*Name> or <Localized*Name@Name>. If a <Localized*Name@Name> element is not found for a supported language (locale), the last <Localized*Name@Name> in the list is used for that language.  The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
StoreDistricts LO_STR_DSTRCT	DistrictID	ID_STR_DISTRCT	VARCHAR(14)	PreloadData/StoreDistrict/DistrictID	
	RegionID	ID_STR_RGN	VARCHAR(14)	PreloadData/StoreDistrict/RegionID	
	DistrictName	NM_STR_DSTRCT	VARCHAR(120)	PreloadData/StoreDistrict/DistrictName PreloadData/StoreDistrict/LocalizedDistrictName@Name	NM_* is either <*Name> or <Localized*Name@Name>. If a <Localized*Name@Name> element is not found for a supported language (locale), the last <Localized*Name@Name> in the list is used for that language.
	RecordCreate Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	

**Table B-11 Store Hierarchy Import XSD Preload Data Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RecordModify Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
StoreDistrictsI18N LO_STR_DSTRCT_I8	DistrictID	ID_STR_DISTRICT	VARCHAR(14)	PreloadData/StoreDistrict/DistrictID	
	Locale	LCL	VARCHAR(10)	PreloadData/StoreDistrict/LocalizedDistrictName@Language	LCL is a supported language in the system, for example, en or en_US. If an exact match is not found in the <Localized*Name> list, the best match, or last value in the list is used.
	DistrictName	NM_STR_DSTRCT	VARCHAR(120)	PreloadData/StoreDistrict/DistrictName PreloadData/StoreDistrict/LocalizedDistrictName@Name	NM_* is either <Name> or <Localized*Name@Name>. If a <Localized*Name@Name> element is not found for a supported language (locale), the last <Localized*Name@Name> in the list is used for that language.  The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
RetailStore PA_STR_RTL	RetailStoreID	ID_STR_RT	VARCHAR(5)	PreloadData/RetailStore/RetailStoreID	
	LocationName	NM_LOC	VARCHAR(150)	PreloadData/RetailStore/LocationName PreloadData/RetailStore/LocalizedLocationName@Name	NM_* is either <Name> or <Localized*Name@Name>. If a <Localized*Name@Name> element is not found for a supported language (locale), the last <Localized*Name@Name> in the list is used for that language.
	DistrictID	ID_STR_DSTRCT	VARCHAR(14)	PreloadData/RetailStore/DistrictID	

**Table B-11 Store Hierarchy Import XSD Preload Data Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RegionID	ID_STR_RGN	VARCHAR(14)	PreloadData/RetailStore/RegionID	
	GeoCode	ID_CD_GEO	VARCHAR(10)	PreloadData/RetailStore/GeoCode	
	RecordCreate Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModify Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
RetailStoreI18N PA_STR_RTL_I8	RetailStoreID	ID_STR_RT	VARCHAR(5)	PreloadData/RetailStore/RetailStoreID	
	Locale	LCL	VARCHAR(10)	PreloadData/RetailStore/LocalizedLocationName@Language	LCL is a supported language in the system, for example, en or en_US.  If an exact match is not found in the <Localized*Name> list, the best match, or last value in the list is used.
	LocationName	NM_LOC	VARCHAR(150)	PreloadData/RetailStore/LocationName  PreloadData/RetailStore/LocalizedLocationName	NM_* is either <*Name> or <Localized*Name@Name>.  If a <Localized*Name@Name> element is not found for a supported language (locale), the last <Localized*Name@Name> in the list is used for that language.  The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
Address LO_ADS	AddressID	ID_ADS	INTEGER	PreloadData/RetailStore/Address/AddressID	
	AddressType Code	TY_ADS	VARCHAR(30)	PreloadData/RetailStore/Address/AddressTypeCode	Home=0 Work=0 Mail=3 Other=2
	PartyID	ID_PRTY	INTEGER		Derive from TY_ADS
	ContactAddress Line1	A1_CNCT	VARCHAR(240)	PreloadData/RetailStore/Address/AddressLine1	

**Table B–11 Store Hierarchy Import XSD Preload Data Mapping Table**

<b>Log/Physical table</b>	<b>Target</b>	<b>Physical Column Name</b>	<b>Data Type</b>	<b>XSD Element/Attribute Path</b>	<b>Notes</b>
	ContactAddress Line2	A2_CNCT	VARCHAR(240)	PreloadData/RetailStore/Address/AddressLine2	
	ContactAddress Line3	A3_CNCT	VARCHAR(240)	PreloadData/RetailStore/Address/AddressLine3	
	ContactAddress City	CI_CNCT	VARCHAR(120)	PreloadData/RetailStore/Address/City	
	ContactAddress State	ST_CNCT	VARCHAR(30)	PreloadData/RetailStore/Address/State	
	ContactAddress PostalCode	PC_CNCT	VARCHAR(30)	PreloadData/RetailStore/Address/PostalCode	
	ContactAddress Territory	TE_CNCT	VARCHAR(120)	PreloadData/RetailStore/Address/Territory	
	ContactAddress Country	CO_CNCT	VARCHAR(30)	PreloadData/RetailStore/Address/Country	
	Contact Telephone CountryCode	CC_CNCT	VARCHAR(30)	PreloadData/RetailStore/Address/TelephoneCountryCode	
	Contact Telephone AreaCode	TA_CNCT	VARCHAR(3)	PreloadData/RetailStore/Address/TelephoneAreaCode	
	Contact Telephone LocalNumber	TL_CNCT	VARCHAR(30)	PreloadData/RetailStore/Address/TelephoneLocalNumber	

Table B–12 identifies the element mapping for the StoreHierarchyImport.xsd file.

**Table B-12 Store Hierarchy Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
RetailStoreGroup Function CO_STRGP_FNC	RetailStore Group FunctionID	ID_ STRGP_ FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	
	RetailStore GroupFunction Name	NM_ STRGP_ FNC	VARCHAR(120)	HierarchyList/Hierarchy@Name HierarchyList/Hierarchy/LocalizedName@Name	NM_STRGP_FNC is either <Hierarchy@Name> or <LocalizedName@Name>; <LocalizedName@Name> takes precedence.  If a <LocalizedName@Name> element is not found for a supported language (locale), the last <LocalizedName@Name> in the list is used for that language.
	MultipleStore GroupParentCode	CD_ STRGP_ MULT_ PRNT	INTEGER	No mapping available	
	RecordCreate Timestamp	TS_CRT_ RCRD	TIMESTAMP	Now()	
	RecordModify Timestamp	TS_MDF_ RCRD	TIMESTAMP	Now()	
RetailStoreGroup FunctionI18N CO_STRGP_FNC_I8	RetailStoreGroupFunctionID	ID_ STRGP_ FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	
	Locale	LCL	VARCHAR(10)	HierarchyList/Hierarchy/LocalizedName@Language	LCL is a supported language in the system, e.g., "en" or "en_US".  If an exact match is not found in the <Localized*Name> list, the best match, or last value in the list is used.

Table B-12 Store Hierarchy Import XSD Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RetailStoreGroupFunctionName	NM_STRGP_FNC	VARCHAR(120)	HierarchyList/Hierarchy@Name HierarchyList/Hierarchy/LocalizedName@Name	NM_STRGP_FNC is either <Hierarchy@Name> or <LocalizedName@Name>; <LocalizedName@Name> takes precedence.  If a <LocalizedName@Name> element is not found for a supported language (locale), the last <LocalizedName@Name> in the list is used for that language.  The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
RetailStoreGroupLevel CO_STRGP_LV	RetailStoreGroupFunctionID	ID_STRGP_FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	
	StoreHierarchyLevelID	ID_STRGP_LV	INTEGER	HierarchyList/Hierarchy/LevelList/Level@ID	
	RetailStoreGroupLevelParent	ID_STRGP_LV_PRNT	INTEGER	HierarchyList/Hierarchy/LevelList/Level@ParentID	
	RetailStoreGroupLevelName	NM_STRGP_LV	VARCHAR(120)	HierarchyList/Hierarchy/LevelList/Level@Name HierarchyList/Hierarchy/LevelList/Level/LocalizedName@Name	NM_STRGP_LV is either <Level@Name> or <LocalizedName@Name>; <LocalizedName@Name> takes precedence.  If a <LocalizedName@Name> element is not found for a supported language (locale), the last <LocalizedName@Name> in the list is used for that language.
	RecordCreateTimestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModifyTimestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
AssociatedRetailStoreGroup ST_ASCTN_STRGP	RetailStoreGroupFunctionID	ID_STRGP_FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	

**Table B-12 Store Hierarchy Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RetailStoreGroupParentID	ID_STRGP_PRNT	VARCHAR(14)	HierarchyList/Hierarchy/NodeList/Node@ParentNodeID	
	RetailStoreGroupChildID	ID_STRGP_CHLD	VARCHAR(14)	HierarchyList/Hierarchy/NodeList/Node@ID	
	RecordCreateTimestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModifyTimestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
AssociatedRetailStoreStoreGroup	RetailStoreID	ID_STR_RT	VARCHAR(5)	HierarchyList/Hierarchy/NodeList/RetailStoreID	
ST_ASCNT_STRGP_STR	RetailStoreGroupID	ID_STRGP	VARCHAR(14)	HierarchyList/Hierarchy/NodeList/Node@ID	
	RetailStoreGroupFunctionID	ID_STRGP_FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	
	RecordCreateTimestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModifyTimestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
RetailStoreGroupCO_STRGP	RetailStoreGroupID	ID_STRGP	VARCHAR(14)	HierarchyList/Hierarchy/NodeList/Node@ID	
	RetailStoreGroupFunctionID	ID_STRGP_FNC	INTEGER	HierarchyList/Hierarchy@FunctionID	
	ParentStoreHierarchyLevelID	ID_STRGP_LV	INTEGER	HierarchyList/Hierarchy/NodeList/Node@LevelID	
	RetailStoreGroupName	NM_STRGP	VARCHAR(120)	HierarchyList/Hierarchy/NodeList/Node@Name HierarchyList/Hierarchy/NodeList/Node/LocalizedNameDescription@Name	NM_STRGRP is either <Node@Name> or <LocalizedDescriptionName@Name>; <LocalizedDescriptionName@Name> takes precedence. If a <LocalizedDescriptionName@Name> element is not found for a supported language (locale), the last <LocalizedDescriptionName@Name> in the list is used for that language.



**Table B–12 Store Hierarchy Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	RetailStore Group Description	DE_STRGP	VARCHAR(250)	HierarchyList/Hierarchy/NodeList/Node@Description	
	RecordCreate Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModify Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	
StoreHierarchy ST_STR_HRY	StoreHierarchy GroupID	ID_STRGP	VARCHAR(14)	HierarchyList/Hierarchy/NodeList/Node@ID	
	RetailStoreID	ID_STR_RT	VARCHAR(5)	HierarchyList/Hierarchy/NodeList/RetailStoreID	
	RecordCreate Timestamp	TS_CRT_RCRD	TIMESTAMP	Now()	
	RecordModify Timestamp	TS_MDF_RCRD	TIMESTAMP	Now()	

The following is an example Store Hierarchy Import XSD file.

**Example B–13 StoreHierarchyImport.xsd**

```
<?xml version="1.0" encoding="UTF-8" ?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">

  <xs:annotation><xs:documentation>
Store Hierarchy Import Schema. Copyright 2008 Oracle Inc. All rights reserved.

Use this schema in conjunction with a Oracle Store Systems Data Dictionary
and the relations between the element and attribute names should be
apparent.
</xs:documentation></xs:annotation>

  <xs:include schemaLocation="../common.xsd"/>

  <xs:element name="StoreHierarchy">
  <xs:annotation><xs:documentation>
Top level element containing the hierarchy and the data that must be
preloaded before the hierarchy.
</xs:documentation></xs:annotation>
  <xs:complexType>
  <xs:sequence>
  <xs:element name="PreloadData" type="PreloadData_type" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
  <xs:documentation>
The data that must be preloaded into the datasource
before the actual hierarchy is persisted.
Consists of regions, districts and stores.
</xs:documentation>
  </xs:annotation>
  </xs:sequence>
  </xs:complexType>
  </xs:element>
</xs:schema>
```

```

</xs:element>
<xs:element name="HierarchyList" type="HierarchyList_type" minOccurs="0"
maxOccurs="unbounded">
<xs:annotation>
<xs:documentation>
The actual store hierarchy data being imported. Contains
a grouping (list) of hierarchies.
</xs:documentation>
</xs:annotation>
</xs:element>
</xs:sequence>
<xs:attribute name="FillType" type="FillType_subtype" use="required"/>
<xs:attribute name="CreationDate" type="xs:dateTime"/>
<xs:attribute name="ExpirationDate" type="xs:dateTime"/>
<xs:attribute name="Version" type="xs:string"/>
<xs:attribute name="Priority" type="xs:int"/>
<xs:attribute name="Batch" type="xs:int"/>
</xs:complexType>
</xs:element>

<xs:complexType name="PreloadData_type">
<xs:sequence>
<xs:element name="StoreRegion" type="StoreRegion_type" minOccurs="0"
maxOccurs="unbounded" />
<xs:element name="StoreDistrict" type="StoreDistrict_type" minOccurs="0"
maxOccurs="unbounded" />
<xs:element name="RetailStore" type="RetailStore_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="StoreRegion_type">
<xs:sequence>
<xs:element name="ChangeType" type="ChangeType_type" maxOccurs="1" minOccurs="1"
/>
<xs:element name="RegionID" type="xs:string" maxOccurs="1" minOccurs="1"/>
<xs:choice>
<xs:element name="RegionName" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="LocalizedRegionName" type="LocalizedNameDescription_type"
maxOccurs="unbounded" minOccurs="0"/>
</xs:choice>
</xs:sequence>
</xs:complexType>

<xs:complexType name="StoreDistrict_type">
<xs:sequence>
<xs:element name="ChangeType" type="ChangeType_type" maxOccurs="1" minOccurs="1"
/>
<xs:element name="DistrictID" type="xs:string" maxOccurs="1" minOccurs="1"/>
<xs:element name="RegionID" type="xs:string" maxOccurs="1" minOccurs="1"/>
<xs:choice>
<xs:element name="DistrictName" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="LocalizedDistrictName" type="LocalizedNameDescription_type"
maxOccurs="unbounded" minOccurs="0"/>
</xs:choice>
</xs:sequence>
</xs:complexType>

<xs:complexType name="RetailStore_type">

```

```

<xs:sequence>
<xs:element name="ChangeType" type="ChangeType_type" maxOccurs="1" minOccurs="1"
/>
<xs:element name="RetailStoreID" type="RetailStoreId_type" maxOccurs="1"
minOccurs="1"/>
<xs:choice>
<xs:element name="LocationName" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="LocalizedLocationName" type="LocalizedNameDescription_type"
maxOccurs="unbounded" minOccurs="0"/>
</xs:choice>
<xs:element name="DistrictID" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="RegionID" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="GeoCode" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="Address" type="Address_type" maxOccurs="1" minOccurs="0" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="Address_type">
<xs:sequence>
<xs:element name="AddressID" type="xs:int" maxOccurs="1" minOccurs="1"/>
<xs:element name="AddressTypeCode" maxOccurs="1" minOccurs="1">
<xs:simpleType>
<xs:restriction base="xs:string">
<xs:enumeration value="Home"></xs:enumeration>
<xs:enumeration value="Work"></xs:enumeration>
<xs:enumeration value="Mail"></xs:enumeration>
<xs:enumeration value="Other"></xs:enumeration>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="AddressLine1" type="xs:string" maxOccurs="1" minOccurs="1"/>
<xs:element name="AddressLine2" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="AddressLine3" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="City" type="xs:string" maxOccurs="1" minOccurs="1"/>
<xs:element name="State" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="PostalCode" type="xs:string" maxOccurs="1" minOccurs="1"/>
<xs:element name="Territory" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="Country" type="xs:string" maxOccurs="1" minOccurs="0"/>
<xs:element name="TelephoneCountryCode" type="xs:string" maxOccurs="1"
minOccurs="0"/>
<xs:element name="TelephoneAreaCode" type="xs:string" maxOccurs="1"
minOccurs="0"/>
<xs:element name="TelephoneLocalNumber" type="xs:string" maxOccurs="1"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="HierarchyList_type">
<xs:sequence>
<xs:element name="Hierarchy" type="Hierarchy_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="Hierarchy_type">
<xs:sequence>
<xs:element name="LocalizedName" type="LocalizedNameDescription_type"
maxOccurs="unbounded" minOccurs="0"/>
<xs:element name="LevelList" type="LevelList_type" minOccurs="0" maxOccurs="1" />
<xs:element name="NodeList" type="NodeList_type" minOccurs="0" maxOccurs="1" />

```

```

</xs:sequence>
<xs:attribute name="FunctionID" type="xs:int" use="required" />
<xs:attribute name="Name" type="xs:string"/>
</xs:complexType>

<xs:complexType name="LevelList_type">
<xs:sequence>
<xs:element name="Level" type="Level_type" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="NodeList_type">
<xs:sequence>
<xs:element name="Node" type="Node_type" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="Level_type">
<xs:sequence>
<xs:element name="LocalizedName" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="ID" type="xs:int" use="required">
<!--
=====
RESTRICTION 1:
The following restriction may be imposed if we want to limit the number of level
IDs in the store
hierarchy. The enumeration will contain the level IDs starting from zero, and will
correspond with
the number of levels within the store hierarchy.
=====
<xs:simpleType>
<xs:restriction base="xs:NMTOKEN">
<xs:enumeration value="0"/>
<xs:enumeration value="1"/>
<xs:enumeration value="2"/>
<xs:enumeration value="3"/>
</xs:restriction>
</xs:simpleType>
-->
</xs:attribute>
<xs:attribute name="Name" type="xs:string">
<!--
=====
RESTRICTION 2:
The following restriction may be imposed if we want to limit the number of levels
in the store
hierarchy. The enumeration will contain the store hierarchy level names, which
should have a
corresponding level ID in the attribute, above.
=====
<xs:simpleType>
<xs:restriction base="xs:NMTOKEN">
<xs:enumeration value="Level1"/>
<xs:enumeration value="Level2"/>
<xs:enumeration value="Level3"/>
<xs:enumeration value="root"/>
</xs:restriction>
</xs:simpleType>

```

```

-->
</xs:attribute>
<xs:attribute name="ParentID" type="xs:int">
<xs:annotation><xs:documentation>
If the parent id is missing, this is assumed to be the root.
</xs:documentation></xs:annotation>
<!--
=====
RESTRICTION 3:
The following restriction may be imposed to tie a specific parent level to the
current node
within the store hierarchy. Ensure that the IDs defined in RESTRICTION 1 will
correspond to the
IDs defined in the enumeration of this restriction.
=====
<xs:simpleType>
<xs:restriction base="xs:NMTOKEN">
<xs:enumeration value="0" />
<xs:enumeration value="1" />
<xs:enumeration value="2" />
</xs:restriction>
</xs:simpleType>
-->
</xs:attribute>
</xs:complexType>

<xs:complexType name="Node_type">
<xs:sequence>
<xs:element name="LocalizedNameDescription" type="LocalizedNameDescription_type"
minOccurs="0" maxOccurs="unbounded" />
<xs:element name="RetailStoreId" type="RetailStoreId_type" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="ID" type="xs:int" use="required" />
<xs:attribute name="Name" type="xs:string" />
<xs:attribute name="Description" type="xs:string" />
<xs:attribute name="LevelID" type="xs:int" use="required">
<!--
=====
RESTRICTION 4:
The following restriction may be imposed if we want to limit the number of levels
within
the store hierarchy. The number of levels should correspond with the number of
level
IDs imposed by RESTRICTION 1.
=====
<xs:simpleType>
<xs:restriction base="xs:NMTOKEN">
<xs:enumeration value="0" />
<xs:enumeration value="1" />
<xs:enumeration value="2" />
<xs:enumeration value="3" />
</xs:restriction>
</xs:simpleType>
-->
</xs:attribute>
<xs:attribute name="ParentNodeID" type="xs:int" />
</xs:complexType>

<xs:simpleType name="FillType_subtype">

```

```

<xs:restriction base="xs:string">
<xs:enumeration value="KillAndFill"/>
<xs:enumeration value="FullIncremental">
<xs:annotation><xs:documentation>
Usage of FullIncremental with a StoreHierarchyImport is
strictly restricted to the PreloadData elements. This means
only Regions, Districts and Stores can be ADDED, UPdated
or DELETED via FullIncremental. No HierarchyList elements
may be processed in this way.
</xs:documentation></xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>

</xs:schema>

```

The following is an example Store Hierarchy Import XML file.

**Example B-14 StoreHierarchyImport.xml**

```

<?xml version="1.0" encoding="UTF-8"?>
<StoreHierarchy xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="StoreHierarchyImport.xsd"
Priority="0"
FillType="KillAndFill"
Version="1.0"
Batch="1"
CreationDate="2001-12-17T09:30:47.0Z"
ExpirationDate="2027-12-17T09:30:47.0Z">
<PreloadData>
<StoreRegion>
<ChangeType>ADD</ChangeType>
<RegionID>00001</RegionID>
<RegionName>Texas</RegionName>
</StoreRegion>
<StoreRegion>
<ChangeType>ADD</ChangeType>
<RegionID>00002</RegionID>
<LocalizedRegionName Name="in zh Florida" Description="in zh Florida desc"
Language="zh" Country="CH"/>
<LocalizedRegionName Name="in fr Florida" Language="fr" Country="FR"/>
</StoreRegion>
<StoreRegion>
<ChangeType>ADD</ChangeType>
<RegionID>00003</RegionID>
<LocalizedRegionName Name="in en Louisiana" Language="en" Country="US"/>
<LocalizedRegionName Name="in zh Louisiana" Language="zh" Country="CH"/>
<LocalizedRegionName Name="in fr Louisiana" Language="fr" Country="FR"/>
</StoreRegion>
<StoreRegion>
<ChangeType>ADD</ChangeType>
<RegionID>00004</RegionID>
<LocalizedRegionName Name="in en New Mexico" Language="en" Country="US"/>
<LocalizedRegionName Name="in zh New Mexico" Language="zh" Country="CH"/>
<LocalizedRegionName Name="in fr New Mexico" Language="fr" Country="FR"/>
</StoreRegion>
<StoreDistrict>
<ChangeType>ADD</ChangeType>
<DistrictID>00001</DistrictID>
<RegionID>00001</RegionID>

```

```

<DistrictName>Round Rock</DistrictName>
</StoreDistrict>
<StoreDistrict>
<ChangeType>ADD</ChangeType>
<DistrictID>00002</DistrictID>
<RegionID>00001</RegionID>
<LocalizedDistrictName Name="in zh Austin" Description="in zh Austin desc"
Language="zh" Country="CH"/>
<LocalizedDistrictName Name="in fr Austin" Language="fr" Country="FR"/>
</StoreDistrict>
<StoreDistrict>
<ChangeType>ADD</ChangeType>
<DistrictID>00003</DistrictID>
<RegionID>00001</RegionID>
<LocalizedDistrictName Name="in en Cedar Park" Language="en" Country="US"/>
<LocalizedDistrictName Name="in zh Cedar Park" Language="zh" Country="CH"/>
<LocalizedDistrictName Name="in fr Cedar Park" Language="fr" Country="FR"/>
</StoreDistrict>
<StoreDistrict>
<ChangeType>ADD</ChangeType>
<DistrictID>00004</DistrictID>
<RegionID>00002</RegionID>
<LocalizedDistrictName Name="in en Boca Raton" Language="en" Country="US"/>
<LocalizedDistrictName Name="in zh Boca Raton" Language="zh" Country="CH"/>
<LocalizedDistrictName Name="in fr Boca Raton" Language="fr" Country="FR"/>
</StoreDistrict>
<StoreDistrict>
<ChangeType>ADD</ChangeType>
<DistrictID>00005</DistrictID>
<RegionID>00002</RegionID>
<LocalizedDistrictName Name="in en Boynton Beach" Language="en" Country="US"/>
<LocalizedDistrictName Name="in zh Boynton Beach" Language="zh" Country="CH"/>
<LocalizedDistrictName Name="in fr Boynton Beach" Language="fr" Country="FR"/>
</StoreDistrict>
<StoreDistrict>
<ChangeType>ADD</ChangeType>
<DistrictID>00006</DistrictID>
<RegionID>00004</RegionID>
<LocalizedDistrictName Name="in en Lea" Language="en" Country="US"/>
<LocalizedDistrictName Name="in zh Lea" Language="zh" Country="CH"/>
<LocalizedDistrictName Name="in fr Lea" Language="fr" Country="FR"/>
</StoreDistrict>
<StoreDistrict>
<ChangeType>ADD</ChangeType>
<DistrictID>00007</DistrictID>
<RegionID>00004</RegionID>
<LocalizedDistrictName Name="in en Eddy" Language="en" Country="US"/>
<LocalizedDistrictName Name="in zh Eddy" Language="zh" Country="CH"/>
<LocalizedDistrictName Name="in fr Eddy" Language="fr" Country="FR"/>
</StoreDistrict>
<StoreDistrict>
<ChangeType>ADD</ChangeType>
<DistrictID>00008</DistrictID>
<RegionID>00004</RegionID>
<LocalizedDistrictName Name="in en Chaves" Language="en" Country="US"/>
<LocalizedDistrictName Name="in zh Chaves" Language="zh" Country="CH"/>
<LocalizedDistrictName Name="in fr Chaves" Language="fr" Country="FR"/>
</StoreDistrict>
<RetailStore>
<ChangeType>ADD</ChangeType>

```

```
<RetailStoreID>04241</RetailStoreID>
<LocationName>Lakeline Mall</LocationName>
<DistrictID>00003</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>8876 Piney Point</AddressLine1>
<AddressLine2>Suite 220A</AddressLine2>
<City>Austin</City>
<State>TX</State>
<PostalCode>78729</PostalCode>
<Country>USA</Country>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04242</RetailStoreID>
<LocalizedLocationName Name="in zh Barton Creek Square Mall" Description="in zh
BCS Mall desc" Language="zh" Country="CH" />
<LocalizedLocationName Name="in fr Barton Creek Square Mall" Language="fr"
Country="FR" />
<DistrictID>00002</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>2901 S. Capitol of Texas Hwy</AddressLine1>
<AddressLine2>Suite 60</AddressLine2>
<City>Austin</City>
<State>TX</State>
<PostalCode>78746-8100</PostalCode>
<Country>USA</Country>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>01291</RetailStoreID>
<LocalizedLocationName Name="in en Cactus Shopping Emporium" Language="en"
Country="US" />
<LocalizedLocationName Name="in zh Cactus Shopping Emporium" Language="zh"
Country="CH" />
<LocalizedLocationName Name="in fr Cactus Shopping Emporium" Language="fr"
Country="FR" />
<DistrictID>00001</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>1201 Second Avenue</AddressLine1>
<AddressLine2>Suite 201</AddressLine2>
<City>Notrees</City>
<State>TX</State>
<PostalCode>79759-0002</PostalCode>
<Country>USA</Country>
<TelephoneAreaCode>915</TelephoneAreaCode>
<TelephoneLocalNumber>2701200</TelephoneLocalNumber>
</Address>
</RetailStore>
<RetailStore>
```



```

<ChangeType>ADD</ChangeType>
<RetailStoreID>01232</RetailStoreID>
<LocalizedLocationName Name="in en Rattlesnake Mall" Language="en" Country="US" />
<LocalizedLocationName Name="in zh Rattlesnake Mall" Language="zh" Country="CH" />
<LocalizedLocationName Name="in fr Rattlesnake Mall" Language="fr" Country="FR" />
<DistrictID>00003</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>1305 Pecos Highway</AddressLine1>
<City>Pyote</City>
<State>TX</State>
<PostalCode>79777-2783</PostalCode>
<Country>USA</Country>
<TelephoneAreaCode>915</TelephoneAreaCode>
<TelephoneLocalNumber>4313501</TelephoneLocalNumber>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>01445</RetailStoreID>
<LocalizedLocationName Name="in en Gaines Square Mall" Language="en"
Country="US" />
<LocalizedLocationName Name="in zh Gaines Square Mall" Language="zh"
Country="CH" />
<LocalizedLocationName Name="in fr Gaines Square Mall" Language="fr"
Country="FR" />
<DistrictID>00002</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>10200 Airline Road</AddressLine1>
<City>Odessa</City>
<State>TX</State>
<PostalCode>79761-0302</PostalCode>
<Country>USA</Country>
<TelephoneAreaCode>915</TelephoneAreaCode>
<TelephoneLocalNumber>2732000</TelephoneLocalNumber>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>01502</RetailStoreID>
<LocalizedLocationName Name="in en Horsehead Center" Language="en" Country="US" />
<LocalizedLocationName Name="in zh Horsehead Center" Language="zh" Country="CH" />
<LocalizedLocationName Name="in fr Horsehead Center" Language="fr" Country="FR" />
<DistrictID>00004</DistrictID>
<RegionID>00002</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>1235 Main Street</AddressLine1>
<City>Odessa</City>
<State>TX</State>
<PostalCode>79760-0552</PostalCode>
<Country>USA</Country>
<TelephoneAreaCode>915</TelephoneAreaCode>
<TelephoneLocalNumber>2734100</TelephoneLocalNumber>

```

```
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>02991</RetailStoreID>
<LocalizedLocationName Name="in en Courthouse Square" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Courthouse Square" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Courthouse Square" Language="fr" Country="FR"/>
<DistrictID>00001</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>1207 Avenue B</AddressLine1>
<City>North Zulch</City>
<State>TX</State>
<PostalCode>77872-0001</PostalCode>
<Country>USA</Country>
<TelephoneAreaCode>409</TelephoneAreaCode>
<TelephoneLocalNumber>2990100</TelephoneLocalNumber>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>01234</RetailStoreID>
<LocalizedLocationName Name="in en La Frontera" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh La Frontera" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr La Frontera" Language="fr" Country="FR"/>
<DistrictID>00001</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>>null</AddressLine1>
<City>>null</City>
<State>TX</State>
<PostalCode>>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>01235</RetailStoreID>
<LocalizedLocationName Name="in en Lake Creek Plaza" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Lake Creek Plaza" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Lake Creek Plaza" Language="fr" Country="FR"/>
<DistrictID>00001</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
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<City>>null</City>
<State>TX</State>
<PostalCode>>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>01236</RetailStoreID>
<LocalizedLocationName Name="in en Gateway Plaza" Language="en" Country="US"/>
```

```

<LocalizedLocationName Name="in zh Gateway Plaza" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Gateway Plaza" Language="fr" Country="FR"/>
<DistrictID>00002</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>TX</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>01237</RetailStoreID>
<LocalizedLocationName Name="in en The Arboretum" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh The Arboretum" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr The Arboretum" Language="fr" Country="FR"/>
<DistrictID>00002</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
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<AddressLine1>null</AddressLine1>
<City>null</City>
<State>TX</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>01238</RetailStoreID>
<LocalizedLocationName Name="in en The Crossings" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh The Crossings" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr The Crossings" Language="fr" Country="FR"/>
<DistrictID>00002</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>TX</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>02345</RetailStoreID>
<LocalizedLocationName Name="in en Town Centre" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Town Centre" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Town Centre" Language="fr" Country="FR"/>
<DistrictID>00003</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>

```

```
<State>TX</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>02346</RetailStoreID>
<LocalizedLocationName Name="in en Palmetto Mall" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Palmetto Mall" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Palmetto Mall" Language="fr" Country="FR"/>
<DistrictID>00003</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>TX</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>02347</RetailStoreID>
<LocalizedLocationName Name="in en Boynton Mall" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Boynton Mall" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Boynton Mall" Language="fr" Country="FR"/>
<DistrictID>00004</DistrictID>
<RegionID>00002</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>FL</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>02348</RetailStoreID>
<LocalizedLocationName Name="in en Buena Vista Plaza" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Buena Vista Plaza" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Buena Vista Plaza" Language="fr" Country="FR"/>
<DistrictID>00004</DistrictID>
<RegionID>00002</RegionID>
<Address>
<AddressID>0</AddressID>
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<AddressLine1>null</AddressLine1>
<City>null</City>
<State>FL</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04332</RetailStoreID>
<LocalizedLocationName Name="in en Red Crow Center" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Red Crow Center" Language="zh" Country="CH"/>
```

```

<LocalizedLocationName Name="in fr Red Crow Center" Language="fr" Country="FR"/>
<DistrictID>00006</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>NM</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04335</RetailStoreID>
<LocalizedLocationName Name="in en Buckeye Mall" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Buckeye Mall" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Buckeye Mall" Language="fr" Country="FR"/>
<DistrictID>00006</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>NM</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04337</RetailStoreID>
<LocalizedLocationName Name="in en Monument Center" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Monument Center" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Monument Center" Language="fr" Country="FR"/>
<DistrictID>00006</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>NM</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04339</RetailStoreID>
<LocalizedLocationName Name="in en Caverns Center" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Caverns Center" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Caverns Center" Language="fr" Country="FR"/>
<DistrictID>00007</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>NM</State>

```

```
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04343</RetailStoreID>
<LocalizedLocationName Name="in en Yucca Crossing" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Yucca Crossing" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Yucca Crossing" Language="fr" Country="FR"/>
<DistrictID>00007</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>NM</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04349</RetailStoreID>
<LocalizedLocationName Name="in en Chaparral Mall" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Chaparral Mall" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Chaparral Mall" Language="fr" Country="FR"/>
<DistrictID>00007</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
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<AddressLine1>null</AddressLine1>
<City>null</City>
<State>NM</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04350</RetailStoreID>
<LocalizedLocationName Name="in en Coyote Place" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Coyote Place" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Coyote Place" Language="fr" Country="FR"/>
<DistrictID>00008</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>NM</State>
<PostalCode>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04352</RetailStoreID>
<LocalizedLocationName Name="in en Goddard Mall" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Goddard Mall" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Goddard Mall" Language="fr" Country="FR"/>
```

```

<DistrictID>00008</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>>null</AddressLine1>
<City>>null</City>
<State>NM</State>
<PostalCode>>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>04357</RetailStoreID>
<LocalizedLocationName Name="in en Artesia" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Artesia" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Artesia" Language="fr" Country="FR"/>
<DistrictID>00008</DistrictID>
<RegionID>00004</RegionID>
<Address>
<AddressID>0</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>>null</AddressLine1>
<City>>null</City>
<State>NM</State>
<PostalCode>>null</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>03233</RetailStoreID>
<LocalizedLocationName Name="in en NorthCross Mall" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh NorthCross Mall" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr NorthCross Mall" Language="fr" Country="FR"/>
<DistrictID>00003</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>1</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>>null</AddressLine1>
<City>>null</City>
<State>TX</State>
<PostalCode>78729</PostalCode>
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>03234</RetailStoreID>
<LocalizedLocationName Name="in en Hidden Cove Plaza" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Hidden Cove Plaza" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Hidden Cove Plaza" Language="fr" Country="FR"/>
<DistrictID>00003</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>1</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>>null</AddressLine1>
<City>>null</City>
<State>TX</State>
<PostalCode>78729</PostalCode>

```

```
</Address>
</RetailStore>
<RetailStore>
<ChangeType>ADD</ChangeType>
<RetailStoreID>03235</RetailStoreID>
<LocalizedLocationName Name="in en Limestone Court" Language="en" Country="US"/>
<LocalizedLocationName Name="in zh Limestone Court" Language="zh" Country="CH"/>
<LocalizedLocationName Name="in fr Limestone Court" Language="fr" Country="FR"/>
<DistrictID>00003</DistrictID>
<RegionID>00001</RegionID>
<Address>
<AddressID>1</AddressID>
<AddressTypeCode>Other</AddressTypeCode>
<AddressLine1>null</AddressLine1>
<City>null</City>
<State>TX</State>
<PostalCode>78729</PostalCode>
</Address>
</RetailStore>
</PreloadData>
<HierarchyList>
<Hierarchy FunctionID="1" Name="Default Hierarchy Group" >
<LevelList>
<Level ID="0">
<LocalizedName Name="in en root" Description="in en root desc" Language="en"
Country="US"/>
<LocalizedName Name="in zh root" Language="zh" Country="CH"/>
<LocalizedName Name="in fr root" Language="fr" Country="FR"/>
</Level>
<Level ID="1" Name="Corporate" ParentID="0">
</Level>
<Level ID="2" Name="Region" ParentID="1">
<LocalizedName Name="in en Region" Language="en" Country="US"/>
<LocalizedName Name="in zh Region" Language="zh" Country="CH"/>
<LocalizedName Name="in fr Region" Language="fr" Country="FR"/>
</Level>
<Level ID="3" Name="District" ParentID="2">
<LocalizedName Name="in en District" Language="en" Country="US"/>
<LocalizedName Name="in zh District" Language="zh" Country="CH"/>
<LocalizedName Name="in fr District" Language="fr" Country="FR"/>
</Level>
<Level ID="4" Name="City" ParentID="3">
<LocalizedName Name="in en City" Language="en" Country="US"/>
<LocalizedName Name="in zh City" Language="zh" Country="CH"/>
<LocalizedName Name="in fr City" Language="fr" Country="FR"/>
</Level>
</LevelList>
<NodeList>
<Node ID="1" LevelID="0" Name="360Commerce Hierarchy" Description="360C H desc">
</Node>
<Node ID="2" LevelID="1" Name="360Enterprise" ParentNodeID="1" >
<LocalizedNameDescription Name="in en 360Enterprise" Description="in en
Description" Language="en" Country="US"/>
<LocalizedNameDescription Name="in zh 360Enterprise" Description="in zh
Description" Language="zh" Country="CH"/>
<LocalizedNameDescription Name="in fr 360Enterprise" Description="in fr
Description" Language="fr" Country="FR"/>
</Node>
<Node ID="3" LevelID="2" Name="North" ParentNodeID="2">
<LocalizedNameDescription Name="in en North" Description="in en Description"
```



```

Language="en" Country="US"/>
<LocalizedNameDescription Name="in zh North" Description="in zh Description"
Language="zh" Country="CH"/>
<LocalizedNameDescription Name="in fr North" Description="in fr Description"
Language="fr" Country="FR"/>
<RetailStoreId>04242</RetailStoreId>
</Node>
<Node ID="4" LevelID="2" Name="South" ParentNodeID="2" >
<LocalizedNameDescription Name="in en South" Description="in en Description"
Language="en" Country="US"/>
<LocalizedNameDescription Name="in zh South" Description="in zh Description"
Language="zh" Country="CH"/>
<LocalizedNameDescription Name="in fr South" Description="in fr Description"
Language="fr" Country="FR"/>
</Node>
<Node ID="5" LevelID="3" Name="New York" ParentNodeID="3" >
<LocalizedNameDescription Name="in en New York" Description="in en Description"
Language="en" Country="US"/>
<LocalizedNameDescription Name="in zh New York" Description="in zh Description"
Language="zh" Country="CH"/>
<LocalizedNameDescription Name="in fr New York" Description="in fr Description"
Language="fr" Country="FR"/>
</Node>
<Node ID="6" LevelID="3" Name="Texas" ParentNodeID="4" >
<LocalizedNameDescription Name="in en Texas" Description="in en Description"
Language="en" Country="US"/>
<LocalizedNameDescription Name="in zh Texas" Description="in zh Description"
Language="zh" Country="CH"/>
<LocalizedNameDescription Name="in fr Texas" Description="in fr Description"
Language="fr" Country="FR"/>
</Node>
<Node ID="7" LevelID="4" Name="Austin" ParentNodeID="6">
<LocalizedNameDescription Name="in en Austin" Description="in en Description"
Language="en" Country="US"/>
<LocalizedNameDescription Name="in zh Austin" Description="in zh Description"
Language="zh" Country="CH"/>
<LocalizedNameDescription Name="in fr Austin" Description="in fr Description"
Language="fr" Country="FR"/>
<RetailStoreId>04241</RetailStoreId>
</Node>
<Node ID="8" LevelID="4" Name="Dallas" ParentNodeID="6">
<LocalizedNameDescription Name="in en Dallas" Description="in en Description"
Language="en" Country="US"/>
<LocalizedNameDescription Name="in zh Dallas" Description="in zh Description"
Language="zh" Country="CH"/>
<LocalizedNameDescription Name="in fr Dallas" Description="in fr Description"
Language="fr" Country="FR"/>
<RetailStoreId>01291</RetailStoreId>
</Node>
</NodeList>
</Hierarchy>
</HierarchyList>
</StoreHierarchy>

```

## Tax Import

Table B-13 identifies the element mapping for the TaxImport.xsd file.

**Table B-13 Tax Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
GeoCode CD_GEO	GeoCodeID	ID_CD_GEO	VARCHAR(10)	GEOCode/GeoCodeID	
	TaxJurisdiction Name	NM_TX_JUR	VARCHAR(120)	GEOCode/TaxJurisdiction Name	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
GeoTax Jurisdiction GEO_TX_JUR	GeoCodeID	ID_CD_GEO	VARCHAR(10)	GEOTax Jurisdiction/GeoCodeID	
	PostalCode	TS_CRT_PW	VARCHAR(30)	GEOTax Jurisdiction/Postal Code	
TaxAuthority PA_ATHY_TX	TaxAuthorityID	ID_ATHY_TX	INTEGER	TaxAuthority/Tax AuthorityID	Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.
	PartyRole TypeCode	TY_RO_PRTY	VARCHAR(20)	<null>	could be CITY, STATE, VAT
	PartyID	ID_PRTY	INTEGER	select ID_CNT_GEN from CO_ID_GEN where NM_CNT_GEN = PA_PRTY	
	TaxAuthorityName	NM_ATHY_TX	VARCHAR(120)	TaxAuthority/Tax AuthorityName	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	RoundingCode	SC_RND	INTEGER	TaxAuthority/RoundingCode	
	RoundingDigits Quantity	QU_DGT_RND	DECIMAL(9,3)	TaxAuthority/RoundingDigits Quantity	
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	NOW()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	NOW()	

Table B-13 Tax Import XSD Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
TaxJurisdiction AuthLink CO_TX_JUR_ATHY_LNK	GeoCodeID	ID_CD_GEO	VARCHAR(10)	TaxAuthority/GeoCodeID	
	TaxAuthorityID	ID_ATHY_TX	INTEGER	TaxAuthority/TaxAuthorityID	
TaxableGroup CO_GP_TX_ITM	TaxGroupID	ID_GP_TX	INTEGER	TaxableGroup/TaxGroupID	Maximum field size for INTEGER is typically NUMBER(10) to support Java INT datatype in application.
	TaxGroupName	NM_GP_TX	VARCHAR(120)	TaxableGroup/TaxGroupName	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $120/4 = 30$ .
	ReceiptPrintCode	CD_RCV_PRT	INTEGER	TaxableGroup/ReceiptPrintCode	
	TaxGroup Description	DE_GP_TX	VARCHAR(250)	TaxableGroup/TaxGroup Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be $250/4 = 60$ .
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	NOW()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	NOW()	
Party PA_PRTY	PartyID	ID_PRTY	INTEGER	TaxAuthority.PartyID	Same value from select statement above.
	PartyLegal OrganizationCode	LU_ORG_LG	VARCHAR(20)	Tax	
	PartyTypeCode	TY_PRTY	VARCHAR(20)	"JURISDICTION"	
Address LO_ADS	AddressID	ID_STR_RT	INTEGER	0	
	AddressTypeCode	ID_DPT_POS	VARCHAR(30)	TAX ADDRESS	
	PartyID	ID_PRTY	INTEGER	TaxAuthority.PartyID	Same value from select statement above.

**Table B-13 Tax Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	AddressLine1	A1_CNCT	VARCHAR(240)	TaxAuthority / AddressLine	
	AddressLine2	A2_CNCT	VARCHAR(240)	No mapping available	
	AddressLine3	A3_CNCT	VARCHAR(240)	No mapping available	
	City	CI_CNCT	VARCHAR(30)	TaxAuthority / City	
	State	ST_CNCT	VARCHAR(30)	TaxAuthority / State	
	PostalCode	PC_CNCT	VARCHAR(30)	TaxAuthority / PostalCode	
	Country	CO_CNCT	VARCHAR(30)	TaxAuthority / CountryCode	
TaxType PA_TY_TX	TaxTypeID	TY_TX	INTEGER	TaxGroupRule / TaxTypeID	
	TaxTypeName	NM_TY_TX	VARCHAR(30)	TaxGroupRule / TaxTypeName	
TaxGroupRule RU_TX_GP	TaxAuthorityID	ID_ATHY_TX	INTEGER	TaxGroupRule / TaxAuthorityID	
	TaxGroupID	ID_GP_TX	INTEGER	TaxGroupRule / TaxGroupID	
	TaxType	TY_TX	INTEGER	TaxGroupRule / TaxTypeID	
	TaxHolidayFlag	FLG_TX_HDY	CHAR(1)	TaxGroupRule / TaxHolidayFlag	false=0, true=1
	TaxRuleName	NM_RU_TX	VARCHAR(120)	TaxGroupRule / TaxRuleName	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 120/4 = 30.
	TaxRule Description	DE_RU_TX	VARCHAR(250)	TaxGroupRule / TaxRule Description	The length here is defined as the length of single byte string. If multibyte characters are used, the max length should be 250/4 = 60.
	Compound Sequence Number	AI_CMPND	SMALLINT	TaxGroupRule / CompoundRate SequenceNumber	
	TaxOnGross AmountFlag	FL_TX_GS_AMT	CHAR(1)	TaxGroupRule / TaxOnGross AmountFlag	false=0, true=1

Table B-13 Tax Import XSD Element Mapping Table

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	CalculationMethod Code	CD_CAL_MTH	INTEGER	TaxGroupRule/CalculationMethodCode	LineItem=1 Transaction=2
	TaxRateRuleUsage Code	CD_TX_RT_RU_USG	INTEGER	TaxGroupRule/TaxRateRuleUsageCode	PercentageOrAmount=1 DeriveFromTaxTable=2 UseThresholdAmount=3
	InclusiveTaxFlag	FL_TX_INC	CHAR(1)	TaxGroupRule/InclusiveTaxFlag	
	RecordCreation Timestamp	TS_CRT_RCRD	TIMESTAMP	NOW()	
	RecordLast Modified Timestamp	TS_MDF_RCRD	TIMESTAMP	NOW()	
TaxRateRule RU_TX_RT	TaxAuthorityID	ID_ATHY_TX	INTEGER	TaxGroupRule/TaxAuthorityID	
	TaxGroupID	ID_GP_TX	INTEGER	TaxGroupRule/TaxGroupID	
	TaxType	TY_TX	INTEGER	TaxGroupRule/TaxTypeID	
	TaxHolidayFlag	FLG_TX_HDY	CHAR(1)	TaxGroupRule/TaxHolidayFlag	
	TaxRateRuleSequenceNumber	AI_TX_RT_RU	SMALLINT	Element position (First element = 1). If not specified, defaults to 1.	
	TypeCode	CD_TYP	INTEGER	TaxGroupRule/TaxRateRule/RateTypeCode	Percentage=1 Amount=2
	TaxPercentage	PE_TX	DECIMAL(8,5)	TaxGroupRule/TaxRateRule/TaxPercentageRate	
	TaxAmount	MO_TX	DECIMAL(8,2)	TaxGroupRule/TaxRateRule/TaxAmount	
	TaxAbove Threshold AmountFlag	FL_TX_ABV_TH_MO	CHAR(1)	TaxGroupRule/TaxRateRule/TaxAboveThresholdAmountFlag	0=Full Threshold - tax applied on full taxable amount, once the threshold is met  1=Partial Threshold - tax applied to taxable amount above threshold, once the threshold is met
	TaxThreshold Amount	MO_TX_TH	DECIMAL(8,2)	TaxGroupRule/TaxRateRule/ThresholdAmount	

**Table B-13 Tax Import XSD Element Mapping Table**

Log/Physical table	Target	Physical Column Name	Data Type	XSD Element/Attribute Path	Notes
	Minimum Taxable Amount	MO_TXBL_MIN	DECIMAL(8,2)	TaxGroupRule/TaxRateRule/MinimumTaxableAmount	
	Maximum Taxable Amount	MO_TXBL_MAX	DECIMAL(8,2)	TaxGroupRule/TaxRateRule/MaximumTaxableAmount	
	TaxRateEffectiveTimestamp	TS_RT_TX_EF	TIMESTAMP	TaxGroupRule/TaxRateRule/TaxRateEffectiveTimestamp	
	TaxRateExpirationTimestamp	TS_RT_TX_EP	TIMESTAMP	TaxGroupRule/TaxRateRule/TaxRateExpirationTimestamp	
	RecordCreationTimestamp	TS_CRT_RCRD	TIMESTAMP	NOW()	
	RecordLastModifiedTimestamp	TS_MDF_RCRD	TIMESTAMP	NOW()	

The following is an example Tax Import XSD file.

**Example B-15 TaxImport.xsd**

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:include schemaLocation="../common.xsd"></xs:include>
  <xs:element name="TaxImport" type="TaxImport_type">
    <xs:annotation><xs:documentation>
      Copyright (c) 2006, 2010, Oracle and/or its affiliates. All rights reserved.
      XML Schema for data import of Tax Information. For Oracle Retail Store and
      Enterprise Applications.
      Contains Tax Authorities, Taxable Groups, Tax Rules and Rates data.
    </xs:documentation></xs:annotation>
  </xs:element>

  <xs:complexType name="TaxImport_type">
    <xs:sequence>
      <xs:element name="GEOCode" type="GEOCode_type" minOccurs="0"
        maxOccurs="unbounded"/>
      <xs:element name="GEOJurisdiction" type="GEOJurisdiction_type" minOccurs="0"
        maxOccurs="unbounded"/>
      <xs:element name="TaxAuthority" type="TaxAuthority_type" minOccurs="0"
        maxOccurs="unbounded"/>
      <xs:element name="TaxableGroup" type="TaxableGroup_type" minOccurs="0"
        maxOccurs="unbounded"/>
      <xs:element name="TaxGroupRule" type="TaxGroupRule_type" minOccurs="0"
        maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="FillType" type="FillType_subtype" use="required"
      fixed="KillAndFill"/>
    <xs:attribute name="CreationDate" type="xs:dateTime"/>
  </xs:complexType>
</xs:schema>
```

```

<xs:attribute name="ExpirationDate" type="xs:dateTime"/>
<xs:attribute name="Version" type="xs:string"/>
<xs:attribute name="Priority" type="xs:int"/>
<xs:attribute name="Batch" type="xs:int"/>
</xs:complexType>

<xs:complexType name="TaxAuthority_type">
<xs:sequence>
<xs:element name="TaxAuthorityID" type="xs:integer"/>
<xs:element name="TaxAuthorityName" type="xs:string"/>
<xs:element name="RoundingCode">
<xs:simpleType>
<xs:restriction base="xs:integer">
<xs:minInclusive value="1"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="RoundingDigitsQuantity" type="xs:integer" minOccurs="0"/>
<xs:element name="AddressLine" type="xs:string"/>
<xs:element name="City" type="xs:string"/>
<xs:element name="State" type="xs:string"/>
<xs:element name="PostalCode" type="xs:string"/>
<xs:element name="CountryCode" type="xs:string"/>
<xs:element name="GeoCodeID" type="xs:string" maxOccurs="unbounded"/>
<xs:element name="JurisdictionTypeCode" type="xs:string">
  <xs:annotation><xs:documentation>
    When a store is set up to use US Sales Tax and the Oracle
    Merchandising
    Application, JurisdictionTypeCode with be sent to ReSA as the TaxCode.
  </xs:documentation></xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>

<xs:complexType name="TaxableGroup_type">
<xs:sequence>
<xs:element name="TaxGroupID" type="xs:integer"/>
<xs:element name="TaxGroupName" type="xs:string" minOccurs="1" maxOccurs="1"/>
<xs:element name="TaxGroupDescription" type="xs:string"/>
<xs:element name="ReceiptPrintCode" type="xs:integer" minOccurs="0"/>
<xs:element name="LocalizedTaxGroupNameDescription"
type="LocalizedNameDescription_type" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="TaxGroupRule_type">
<xs:sequence>
<xs:element name="TaxAuthorityID" type="xs:integer"/>
<xs:element name="TaxGroupID" type="xs:string"/>
<xs:element name="TaxTypeID" type="xs:integer"/>
<xs:element name="TaxTypeName" type="xs:string" minOccurs="0">
  <xs:annotation><xs:documentation>
    When a store is set up to use VAT and the Oracle Merchandising
    Application, TaxTypeName with be sent to ReSA as the TaxCode.
  </xs:documentation></xs:annotation>
</xs:element>
<xs:element name="TaxHolidayFlag" type="xs:boolean"/>
<xs:element name="TaxRuleName" type="xs:string"/>
<xs:element name="TaxRuleDescription" type="xs:string"/>
<xs:element name="CompoundRateSequenceNumber" type="xs:integer" minOccurs="0"/>

```

```

<xs:element name="TaxOnGrossAmountFlag" type="xs:boolean" minOccurs="0"/>
<xs:element name="CalculationMethodCode" minOccurs="0">
  <xs:simpleType>
    <xs:restriction base="xs:NMTOKEN">
      <xs:enumeration value="LineItem"/>
      <xs:enumeration value="Transaction"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="TaxRateRuleUsageCode">
  <xs:simpleType>
    <xs:restriction base="xs:NMTOKEN">
      <xs:enumeration value="PercentageOrAmount"/>
      <xs:enumeration value="DeriveFromTaxTable"/>
      <xs:enumeration value="UseThresholdAmount"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="InclusiveTaxFlag" type="xs:boolean"/>
<xs:element name="TaxRateRule" type="TaxRateRule_type" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="TaxRateRule_type">
  <xs:sequence>
    <xs:element name="RateTypeCode" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
          <xs:enumeration value="Percentage"/>
          <xs:enumeration value="Amount"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:choice>
      <xs:element name="TaxAmount" type="Amount_type"/>
      <xs:element name="TaxPercentageRate">
        <xs:simpleType>
          <xs:restriction base="xs:decimal">
            <xs:fractionDigits value="5"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:choice>
    <xs:element name="TaxAboveThresholdAmountFlag" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
          <xs:enumeration value="TaxAboveThresholdAmount"/>
          <xs:enumeration value="TaxEntireAmount"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="ThresholdAmount" type="Amount_type" minOccurs="0"/>
    <xs:element name="TaxRateEffectiveTimestamp" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="TaxRateExpirationTimestamp" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="MinimumTaxableAmount" type="Amount_type" minOccurs="0"/>
    <xs:element name="MaximumTaxableAmount" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:decimal">
          <xs:fractionDigits value="2"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```



```

</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>

<xs:complexType name="GEOCode_type">
<xs:sequence>
<xs:element name="GeoCodeID" type="xs:string"/>
<xs:element name="TaxJurisdictionName" type="xs:string"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="GEOTaxJurisdiction_type">
<xs:sequence>
<xs:element name="GeoCodeID" type="xs:string"/>
<xs:element name="PostalCode" type="xs:string"/>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="FillType_subtype">
<xs:restriction base="xs:string">
<xs:enumeration value="KillAndFill"/>
</xs:restriction>
</xs:simpleType>
</xs:schema>

```

The following is an example Tax Import XML file.

**Example B-16 TaxImport.xml**

```

<?xml version="1.0" encoding="UTF-8"?>
<TaxImport
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="TaxImport.xsd"
  Priority="0"
  FillType="KillAndFill"
  Version="1.0"
  Batch="1"
  CreationDate="2001-12-17T09:30:47.0Z"
  ExpirationDate="2027-12-17T09:30:47.0Z">

  <GEOCode>
    <GeoCodeID>0015</GeoCodeID>
    <TaxJurisdictionName>Austin Tax Jurisdiction</TaxJurisdictionName>
  </GEOCode>

  <GEOTaxJurisdiction>
    <GeoCodeID>0015</GeoCodeID>
    <PostalCode>78759</PostalCode>
  </GEOTaxJurisdiction>

  <TaxAuthority>
    <TaxAuthorityID>4440</TaxAuthorityID>
    <TaxAuthorityName>Updated Bubba's Tax Authority</TaxAuthorityName>
    <RoundingCode>4</RoundingCode>
    <RoundingDigitsQuantity>3</RoundingDigitsQuantity>
    <AddressLine>Updated 2538 Elm St.</AddressLine>
    <City>Updated Houston</City>
    <State>Updated Texas</State>
    <PostalCode>78777</PostalCode>

```

```
<CountryCode>USA</CountryCode>
<GeoCodeID>0015</GeoCodeID>
<JurisdictionTypeCode>CITY</JurisdictionTypeCode>
</TaxAuthority>

<TaxableGroup>
  <TaxGroupID>444</TaxGroupID>
  <TaxGroupName/>
  <TaxGroupDescription>Tax Group 444 description</TaxGroupDescription>
</TaxableGroup>

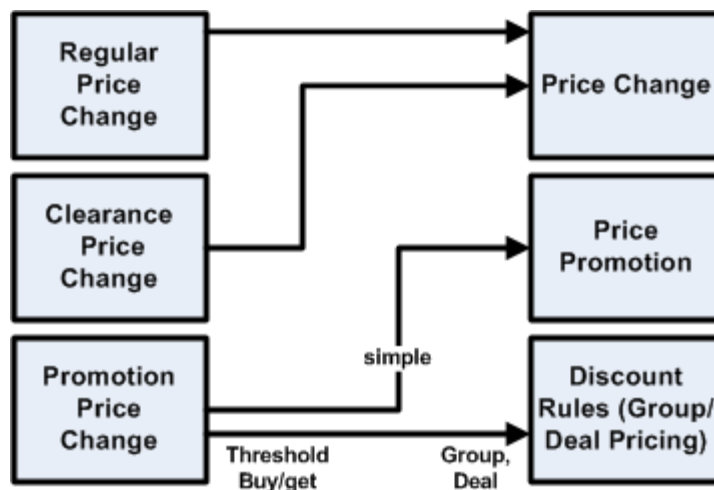
<!-- Sample Tax Group Rule using Tax Percentage Rate -->
<TaxGroupRule>
  <TaxAuthorityID>4440</TaxAuthorityID>
  <TaxGroupID>444</TaxGroupID>
  <TaxTypeID>111</TaxTypeID>
  <TaxTypeName>Tax Type 111</TaxTypeName>
  <TaxHolidayFlag>>false</TaxHolidayFlag>
  <TaxRuleName>Updated Cigarette Tax Rule</TaxRuleName>
  <TaxRuleDescription>Updated Cigarette Tax Rule</TaxRuleDescription>
  <CompoundRateSequenceNumber>0</CompoundRateSequenceNumber>
  <TaxOnGrossAmountFlag>>false</TaxOnGrossAmountFlag>
  <CalculationMethodCode>LineItem</CalculationMethodCode>
  <TaxRateRuleUsageCode>PercentageOrAmount</TaxRateRuleUsageCode>
  <InclusiveTaxFlag>>true</InclusiveTaxFlag>
  <TaxRateRule>
    <RateTypeCode>Percentage</RateTypeCode>
    <TaxPercentageRate>10.99</TaxPercentageRate>
  </TaxRateRule>
</TaxGroupRule>
</TaxImport>
```

## Appendix: Pricing Rules

The following are assumptions about the behavior of a price management system with regard to Pricing Rules:

- The price management system supports promotions that are against regular retails, clearance retails, or both.
- The price management system allows for overlapping promotions where multiple discounts can apply. The price management system is not restrictive to a "best-deal".
- Discounts are applied to individual items, not the entire transaction.
- The price management system does not have item attributes that define if an item is eligible for discounts or markdowns.

**Figure C-1 The Price Management System to Strategic Stores Solutions Pricing Map**



The following are price management system definitions related to Pricing Rules:

- Regular Price Change – Permanent change in retail selling price for an item. Begins on effective date, but does not define an expiration date. New price is explicitly defined, not defined in terms of amount or percent off.
- Clearance Price Change – Change in retail selling price for an item for the purposes of inventory clearance. Begins on effective date, but does not define an expiration date. New price is explicitly defined, not defined in terms of amount or percent off.

- Promotion Price Change – Definition of pricing rules to enable a retail promotional, or temporary, price. Comes in three flavors:
  - Simple – get **Z%** off **X**
  - Threshold – buy **N** of **X** get **Z%** off **X**
  - Buy/Get – buy **N** of **X** get **Y** at **Z%** off
- Threshold – minimum dollar amount or quantity of the source to buy in order to trigger the discount; **N** in the promotion definition.

The following are Strategic Stores Solutions definitions related to Pricing Rules:

- Price Change – Permanent change in retail selling price. Begins on effective date, but does not define an expiration date. New price is explicitly defined, not defined in terms of amount or percent off.
- Price Promotion – Temporary change in retail selling price. Begins on effective date; ends on expiration date. Can be expressed in terms of amount off, percent off, or new price.
- Discount Rules – Definition of pricing rules to enable a retail promotional, or temporary, price. Comes in two flavors:
  - Group pricing – buy **N** of **X** get **Z%** off **X**
  - Deal pricing – buy **N** of **X** get **Y** at **Z%** off
- Threshold – The minimum price allowed for a source or target to be part of a promotion. This is a separate concept from the source quantity, **N**.
- Limit – The maximum price allowed for a source or target to be part of a promotion.

The following is true for all tables in this chapter:

- **N** = quantity or value
- **X** = Source items or items in a list
- **Y** = Target item or item in a list of items
- **Z** = price or discount

## Buy/Get

### Price Management System Buy/Get Assumptions

- If **Y** is a group of items, only one item in the group qualifies for the discount even if the customer purchased multiple items in the **Y** target group.
- Funding of promotion applies only to the item in the **Y** target group that received the discount.
- The price management system and merchandising system do not spread the discount out to items in **Y** and **X** groups at the time of the sale. The Deal Distribution Indicator is always set to **Target**.
- **X** and **Y** can be the same items. Buy/Get Cycles Indicator and Allow Repeating Sources Indicator are two separate entities:
  - Buy Get Cycles Indicator -- when items in the buy list (**X**) are the same items in the Get list (**Y**)

- Allow Repeating Sources Indicator -- specifies that the same item cannot be used to qualify the buy list (*N* of *X*), for example, if you buy two pairs of jeans, and get a sweater for free, the jeans purchased must be different items. The price management system promotions would always have an Allow Repeating Sources Indicator set to *Y*.

**Table C-1 Buy/Get**

Promotion Type	Example	The Price Management System Promotion Type	The Price Management System Setup	Compatible	Comments	Resolution to Make Compatible
Buy <i>N</i> of <i>X</i> , Get <i>Y</i> at <i>Z</i> % off regular Price.	Buy two pairs of jeans, get a sweater at 50% off.	Multi-Buy	Buy Type = Qty, Reward %off, Buy Value = <i>N</i>	Yes		
Buy <i>N</i> of <i>X</i> , Get <i>Y</i> at <i>Z</i> \$ off regular Price.	Buy two pairs of jeans, get \$10 off of a sweater.	Multi-Buy	Buy Type = Qty, Reward Amount off, Buy Value = <i>N</i>	Yes		
Buy <i>N</i> of <i>X</i> , Get <i>Y</i> at <i>Z</i> \$ .	Buy two pairs of jeans, get a sweater for \$20.	Multi-Buy	Buy Type = Qty, Reward Fixed Amount, Buy Value = <i>N</i>	Yes	Oracle Retail Price Management can change the selling UOM when discount is fixed amount.	
Buy \$ <i>N</i> of <i>X</i> , Get <i>Y</i> at <i>Z</i> % off regular Price.	Buy \$40 worth of jeans, get a sweater at 50% off.	Multi-Buy	Buy Type = Amount, Reward % Off, Buy Value = <i>N</i>	Yes		
Buy \$ <i>N</i> of <i>X</i> , Get <i>Y</i> at <i>Z</i> \$ off regular Price.	Buy \$40 worth of jeans, get \$10 off of a sweater.	Multi-Buy	Buy Type = Amount, Reward Amount Off, Buy Value = <i>N</i>	Yes		
Buy \$ <i>N</i> of <i>X</i> , Get <i>Y</i> at <i>Z</i> \$.	Buy \$40 worth of jeans, get a sweater for \$20.	Multi-Buy	Buy Type = Amount, Reward Fixed Price, Buy Value = <i>N</i>	Yes		
Buy <i>N</i> of <i>X</i> , Get Lowest Priced <i>Y</i> at <i>Z</i> %off.				No		

Table C-1 Buy/Get

Promotion Type	Example	The Price Management System Promotion Type	The Price Management System Setup	Compatible	Comments	Resolution to Make Compatible
Buy N of A and N of B, Get Y at Z% off	Buy a cap and a glove, get a scarf 10% off.  The buy and reward lists may use a combination of AND and OR conditions.	Multi-Buy	Buy Type = Qty, Reward %off, Buy Value = N	Yes		
Buy N of A and N of B, Get Y at \$Z off	Buy a cap and a glove, get a scarf \$2 off.  The buy and reward lists may use a combination of AND and OR conditions.	Multi-Buy	Buy Type = Qty, Reward Amount off, Buy Value = N	Yes		
Buy N of A and N of B, Get Y for \$Z.	Buy a cap and a glove, get a scarf for \$10.00.  The buy and reward lists may use a combination of AND and OR conditions.	Multi-Buy	Buy Type = Qty, Reward Fixed Amount, Buy Value = N	Maybe	RPM can change the selling UOM when discount is fixed amount.	
Buy N of X, get the cheapest free.	Buy four pair of shoes, get the cheapest pair free  .	Multi-Buy	Buy Type = Qty, Reward Cheapest Free, Buy Value = N			
Buy N of A and N of B, get the cheapest free.	Buy a shirt and a tie, get the cheapest item free.	Multi-Buy	Buy Type = Qty AND Qty, Reward Cheapest Free, Buy Value = N			
	Buy one pair of jeans at regular price over \$45 and get a T-Shirt regular priced at \$25 or less for free.			Maybe	This same scenario could be executed by building specific item lists and selecting them for the buy and get scenarios within ORPM.	

## Threshold

### Threshold assumptions

For example, if you buy six pairs of jeans, you get 10% off. The discount applies to all items if six or more are purchased. The customer does not need to purchase twelve items to get the discount on items seven through twelve.

**Table C-2 Threshold**

Promotion Type	Example	The Price Management System Promotion Type	The Price Management System Setup	Compatible
Buy <i>N</i> of <i>X</i> , get <i>Z</i> % off.	Buy six pairs of jeans, get 10% off each of the jeans.	Threshold	Qualification Type = Threshold Level Threshold Type = Quantity Discount Type = % off	No
Buy <i>N</i> of <i>X</i> , Get \$ <i>Z</i> off.	Buy six pairs of jeans, get \$10 off each of the jeans.	Threshold	Qualification Type = Threshold Level Threshold Type = Quantity Discount Type = Amount off	No
Buy <i>N</i> of <i>X</i> , Get items for \$ <i>Z</i> .	Buy two pairs of jeans and get them for \$45 each.	Threshold	Qualification Type = Threshold Level Threshold Type = Quantity Discount Type = Fixed Amount	No
Buy \$ <i>N</i> of <i>X</i> , get <i>Z</i> % off.	Buy \$100 worth of jeans, get 10% off each pair of jeans.	Threshold	Qualification Type = Threshold Level Threshold Type = Amount Discount Type = % off	
Buy \$ <i>N</i> of <i>X</i> , Get \$ <i>Z</i> off.	Buy \$100 worth of jeans, get \$10 off each pair of jeans.	Threshold	Qualification Type = Threshold Level Threshold Type = Amount Discount Type = Amount off	
Buy \$ <i>N</i> of <i>X</i> , get items for \$ <i>Z</i>	Buy \$100 worth of jeans and get them for \$45 each.	Threshold	Qualification Type = Threshold Level Threshold Type = Amount Discount Type = Fixed Amount	
Buy <i>N</i> of <i>X</i> , get <i>Z</i> % off.	Buy six pairs of jeans, get 10% off each of the jeans. Each item on the promotion must meet the threshold to have the discount applied.	Threshold	Qualification Type = Item Level Threshold Type = Quantity Discount Type = % off	
Buy <i>N</i> of <i>X</i> , get \$ <i>Z</i> off.	Buy six pairs of jeans, get \$10 off each of the jeans. Each item on the promotion must meet the threshold to have the discount applied.	Threshold	Qualification Type = Item Level Threshold Type = Quantity Discount Type = Amount off	

**Table C-2 Threshold**

<b>Promotion Type</b>	<b>Example</b>	<b>The Price Management System Promotion Type</b>	<b>The Price Management System Setup</b>	<b>Compatible</b>
Buy <i>N</i> of <i>X</i> , get items for \$ <i>Z</i>	Buy two pairs of jeans and get them for \$45 each. Each item on the promotion must meet the threshold to have the discount applied.	Threshold	Qualification Type = Item Level Threshold Type = Quantity Discount Type = Fixed Amount	
Buy \$ <i>N</i> of <i>X</i> , get <i>Z</i> % off.	Buy \$100 worth of jeans, get 10% off each pair of jeans. Each item on the promotion must meet the threshold to have the discount applied.	Threshold	Qualification Type = Item Level Threshold Type = Amount Discount Type = % off	
Buy \$ <i>N</i> of <i>X</i> , Get \$ <i>Z</i> off.	Buy \$100 worth of jeans, get \$10 off each pair of jeans. Each item on the promotion must meet the threshold to have the discount applied.	Threshold	Qualification Type = Item Level Threshold Type = Amount Discount Type = Amount off	
Buy \$ <i>N</i> of <i>X</i> , Get items for \$ <i>Z</i> .	Buy \$100 worth of jeans and get them for \$45 each. Each item on the promotion must meet the threshold to have the discount applied.	Threshold	Qualification Type = Item Level Threshold Type = Amount Discount Type = Fixed Amount	

## Simple

**Table C-3 Simple**

<b>Promotion Type</b>	<b>Example</b>	<b>The Price Management System Promotion Type</b>	<b>The Price Management System Setup</b>	<b>Compatible</b>
Fixed Price	Buy <i>X</i> , get <i>X</i> for \$15.	Simple	Fixed Amount	
Percent Off	Buy <i>X</i> , get <i>X</i> for 10% off.	Simple	% off	
Amount Off	Buy <i>X</i> , get \$10 off of <i>X</i> .	Simple	Amount off	



## Kits

**Table C-4 Kits**

Promotion Type	Example	The Price Management System Promotion Type	The Price Management System Setup	Compatible
Buy <i>N</i> of <b>X1</b> , <i>N</i> of <b>X2</b> , <i>N</i> of <b>X3</b> for a flat price <b>\$Z</b> .	Buy hamburger, Coke and fries for 5.00	Multi-buy	Qualification Type = Multi-buy Multi-buy = Quantity (with AND connector) Reward Type = Fixed Price	No
Buy <i>N</i> of <b>X1</b> , <i>N</i> of <b>X2</b> , <i>N</i> of <b>X3</b> for <b>\$Z</b> off of purchase.	Buy hamburger, Coke and fries, receive 1.00 off purchase	Multi-buy	Qualification Type = Multi-buy Multi-buy = Quantity (with AND connector) Reward Type = Amount Off	No
Buy <i>N</i> of <b>X1</b> , <i>N</i> of <b>X2</b> , <i>N</i> of <b>X3</b> for <b>Z%</b> off of purchase.	Buy hamburger, Coke and fries, save 15% off purchase	Multi-buy	Qualification Type = Multi-buy Multi-buy = Quantity (with AND connector) Reward Type = % off	No

## Finance Promotion

**Table C-5 Finance**

Promotion Type	Example	The Price Management System Promotion Type	The Price Management System Setup	Compatible
Buy <i>N</i> of <b>X</b> with promoted card, get promotional interest % for <b>Z</b> duration	Purchase \$1,000 of Electronics using Visa and receive promotion percentage of 0%, with a duration of 18 months (for no interest payments if paid in full within 18 months).	Finance	Card Details Threshold Amount \$ Promotion Amount % Duration in Months Items	No



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## Appendix: Default Tax Handling

The DefaultTaxAmount in the application.xml file is the fourth choice from which to get the tax rule information. Here is the order in which the application gets the tax rule information. Once the application finds one or more tax rules, it stops looking:

1. Retrieves tax rules as defined by the Tax Group ID associated with Item, and Tax Authority IDs associated with sale location (usually the store).
2. Retrieves tax rules as defined by the Tax Group ID associated with Item's Department, and Tax Authority ID associated with sale location (usually the store).
3. Retrieves tax rule as defined by the Default Tax Group ID parameter and the Default Tax Authority ID parameter.
4. Creates tax rule based on the Default Tax Rate Parameter

The defaults for the Tax Group ID and Tax Authority ID are:

- DefaultTaxAuthorityID = 11111111
- DefaultTaxGroupID = -1

The application uses these two parameters to read the default tax rule from the database. This works offline because the Derby database (which resides on the client) contains the tax rules.

### The Default Tax Rate

The first choice for the default tax rate now resides in the Tax Rate Rule Table (RU\_TX\_RT). When you query this table (where Auth ID = 11111111), you receive the following:

ID_ATHY_TX	11111111
ID_GP_TX	-1
TY_TX	0
FLG_TX_HDY	0
AI_TX_RT_RU	1
CD_TYP	1
PE_TX	<b>8.25</b>
MO_TX	(null)
FL_TX_ABV_TH_MO	0

MO_TX_TH	0
MO_TXBL_MIN	(null)
MO_TXBL_MAX	(null)

The tax rate in this file is 8.25 percent.

## The Default Tax Type Indicator (VAT)

For VAT, the tax type comes from the Tax Rule Group Table (RU\_TX\_GP) and resides in the Tax Rule Name (NM\_RU\_TX) column. When you query this table (where Auth ID = 11111111), you receive the following:

ID_ATHY_TX	11111111
ID_GP_TX	-1
TY_TX	0
FLG_TX_HDY	0
NM_RU_TX	T
DE_RU_TX	Default Tax
AI_CMPND	0
FL_TX_GS_AMT	0
CD_CAL_MTH	1
CD_TX_RT_RU_USG	1
FL_TX_INC	1

The default tax type indicator for VAT items is **T**.

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## Appendix: Oracle Retail Point-of-Service Inventory Inquiry

Oracle Retail Point-of-Service can request inventory information for a single store or for a group of stores. The operator can request inventory numbers of an item in the home store, stores within the related buddy stores (buddy store functionality enables the retailer to set up a group of stores within a transfer zone in Store Inventory Management to which the retailer often transfers items), stores within the related transfer zones (a set of locations where transfers are allowed) or for a specific store. Item inquiry can search on one item at a time. You can perform an item inquiry during a transaction, as well as outside a transaction.

The reply from Store Inventory Management contains item, location and inventory information.

Store Inventory Management enables store personnel to quickly and easily perform an array of in-store operations using a high-speed internet connection and portable, handheld wireless devices to receive merchandise, manage physical inventories, conduct stock counts, order stock, or transfer stock.

The default topology for Store Inventory Management is centralized multi-store.

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**Note:** Communication to Store Inventory Management over HTTPS is not supported.

Communication is unidirectional. Store Inventory Management sends inventory information only. Oracle Retail Point-of-Service does not send transaction information to Store Inventory Management.

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## Configuration

### Enabling or Disabling Inventory Inquiry Functionality

The property **PSIEnabled=false** in the `application.properties` file controls enabling or disabling of the feature. The Point-of-Service Server installer sets the value **true** or **false** based on whether the user selects the Inventory Inquiry functionality.

The configuration XML for the connector for this feature is in `DefaultConnectorTechnician.XML`. The installer uncomments the XML tags for the router, connector and formatter for this feature if the user selects the Inventory Inquiry functionality when installing the Oracle Retail Point-of-Service Server.

The following is the connector configuration in DefaultConnectorTechnician.xml:

```
<CONNECTOR name="InventoryInquiryConnector"
javaclass="oracle.retail.stores.connector.GenericWebServiceConnector">
  <PROPERTY propname="passwdEnabled" propvalue="NO" />
  <PROPERTY propname="userID" propvalue="" />
  <PROPERTY propname="alias" propvalue="$PSI_WS_UI" />
  <PROPERTY propname="rampartFileLocation"
propvalue="classpath://config/rampart-policy.xml" />
  <PROPERTY propname="action" propvalue="urn:processMultiplePostTxns" />
  <PROPERTY propname="endPtURL" propvalue="$PSI_URL" />
  <PROPERTY propname="svcName" propvalue="LookupInventoryRequest" />
  <PROPERTY propname="securityModule" propvalue="rampart" />
</CONNECTOR>
```

The following is the formatter configuration in DefaultConnectorTechnician.xml:

```
<FORMATTER name="InvEnquiryFormatter"
javaclass="oracle.retail.stores.pos.formatter.PSIInventoryInquiryFormatter">
  <PROPERTY propname="operationNameSpace"
propvalue="http://retail.oracle.com/SIM/InventoryLookup/v1" />
  <PROPERTY propname="OperationLocalPart" propvalue="LookupInventoryRequest" />
  <PROPERTY propname="nameSpace" propvalue="ns1" />
</FORMATTER>
```

The following is the Message Router configuration in DefaultConnectorTechnician.xml:

```
<MSGROUTER type="INVENTORY_INQUIRY" rule="retryRule">
  <MSGCONNECTOR connector="InventoryInquiryConnector"
formatter="InvEnquiryFormatter" />
</MSGROUTER>
```

## Inventory Reservation for Customer Orders

To update the inventory status in Store Inventory Management, Point-of-Service needs to send the order information to Store Inventory Management when the items in the sale transaction are identified as one of the following:

- Layaway
- Pickup
- Delivery Items

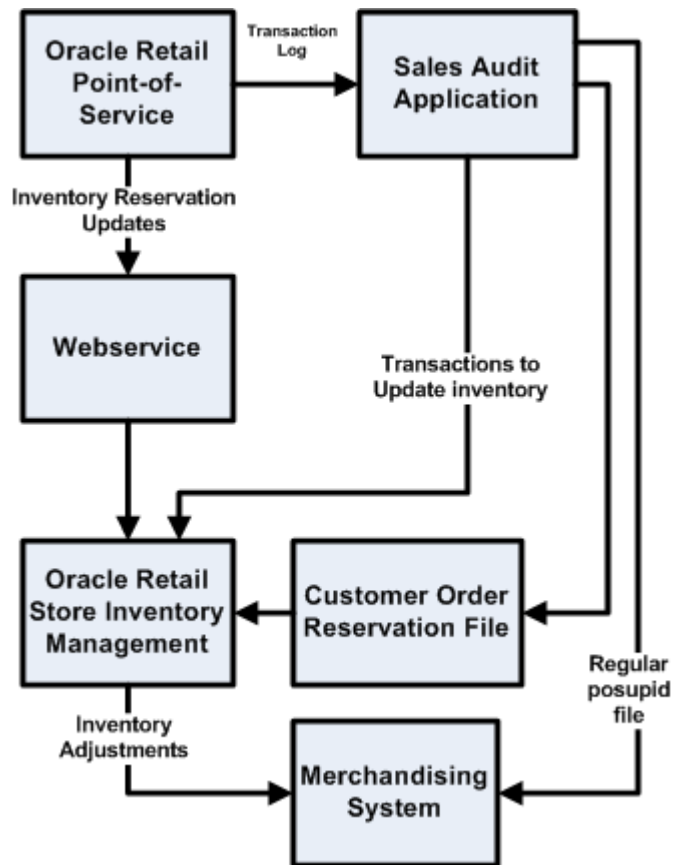
Point-of-Service also needs to send the order information to Store Inventory Management when the items are picked up by the customer, or delivered by the retailer to the customer.

Point-of-Service uses the external interface to send the following to update the inventory status in Store Inventory Management:

- Layaway New
- Layaway Pickup
- Layaway Delete
- Order initiate
- Order Cancel
- Order Complete

Inventory reservations for customer orders gets reflected in the inventory buckets of Store Inventory Management based on the transaction type received from Point-of-Service.

**Figure E-1 High-Level Model for Oracle Retail Point-of-Service Inventory Updates to Oracle Retail Store Inventory Management Integration**



## Enabling or Disabling Inventory Reservation Functionality

The property `InventoryReservationEnabled=false` in `application.properties` file controls enabling or disabling of this feature. The Point-of-Service Server installer sets the value `true` or `false` based on whether the user selects the Inventory Reservation functionality.

## Item Basket

Item Basket functionality allows the user on the handheld to scan a list of items. This list of items can be interfaced to other applications through a web service to aid them in specific tasks. These tasks can range from line busting (Point-of-Service), using it for wedding list generation or simply identifying trouble items. The reason code and technical web service architecture attached to it allows the retailer to truly use this feature in a very creative way.

Specific features include:

- Identifying a specific type of basket
- Scanning or entering quantity for the item

- Entering or auto generating a unique ID for calling it up
- Edit, delete and add functionality
- Print ticket functionality for register scanning

Items are scanned into the Store Inventory Management handheld and the basket is created in Store Inventory Management. The customer is presented with a printed ticket containing a barcode, which can then be presented at checkout at a Point-of-Service terminal.

At a Point-of-Service terminal, the operator must enter the unique ID from the ticket printed by the Store Inventory Management handheld, and the basket details are retrieved from Store Inventory Management and displayed on Point-of-Service for item tender.

## Enabling or Disabling Item Basket Functionality

The property **ItemBasketEnabled=false** in `application.properties` file controls enabling or disabling of the feature. The Point-of-Service Server installer sets the value **true** or **false** based on whether the user selects the Item Basket functionality.

The configuration XML for the connector for this feature is in `DefaultConnectorTechnician.XML`. The installer uncomments the XML tags for the router, connector and formatter for this feature if the user selects the Item Basket functionality when installing the Point-of-Service Server.

The following is the connector configuration in `DefaultConnectorTechnician.xml`:

```
<CONNECTOR name="InventoryService"
javaclass="oracle.retail.stores.connector.GenericWebServiceConnector">
  <PROPERTY propname="passwdEnabled" propvalue="NO" />
  <PROPERTY propname="userID" propvalue="$PSI_WS_UID" />
  <PROPERTY propname="alias" propvalue="simWSUser" />
  <PROPERTY propname="rampartFileLocation"
propvalue="classpath://config/rampart-policy.xml" />
  <PROPERTY propname="action" propvalue="urn:processMultiplePosTxns" />
  <PROPERTY propname="endPtURL" propvalue="$PSI_URL" />
  <PROPERTY propname="svcName" propvalue="LookupItemBasketRequest" />
  <PROPERTY propname="securityModule" propvalue="rampart" />
</CONNECTOR>
```

The following is the formatter configuration in `DefaultConnectorTechnician.xml`:

```
<FORMATTER name="itemBasketFormatter"
javaclass="oracle.retail.stores.pos.services.inventoryconnector.ItemBasketFormatte
r">
  <PROPERTY propname="operationNameSpace"
propvalue="http://retail.oracle.com/SIM/ItemBasket/v1" />
  <PROPERTY propname="OperationLocalPart" propvalue="LookupItemBasketRequest"/>
  <PROPERTY propname="nameSpace" propvalue="ns1" />
</FORMATTER>
```

The following is the Message Router configuration in `DefaultConnectorTechnician.xml`:

```
<MSGROUTER type="ITEM_BASKET" rule="retryRule">
  <MSGCONNECTOR connector="InventoryService" formatter="itemBasketFormatter" />
</MSGROUTER>
```



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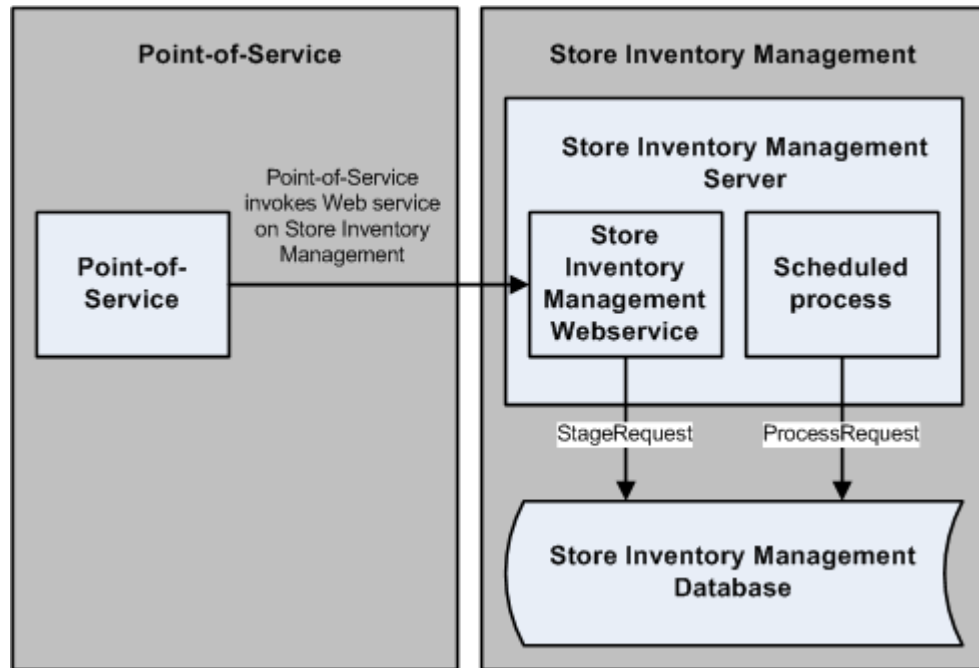
## Appendix: Realtime Point-of-Service-to-Oracle Retail Store Inventory Management Updates

Oracle Retail Point-of-Service updates Oracle Retail Store Inventory Management with transaction information on a periodic basis.

Near real time updates in Store Inventory Management will enable the following:

- A near real time interface allows Point-of-Service to transfer transaction information and update inventory.
- Update features for snapshots, physical count quantities and authorized values.
- UOM conversion, to convert from selling UOM to standard UOM.

With near real time updates, Store Inventory Management inventory will be up-to-date with the Point-of-Service sale transactions. Every transaction that takes place at Point-of-Service is posted to Store Inventory Management using a web service. The whole process is near real time. The call from Point-of-Service to Store Inventory Management using a web service will be a blocking call. Therefore, the web service performs minimal processing and persists the transaction data to staging tables.

**Figure F-1 Realtime Updates Process Flow**

## Configuration

The following configuration options are available.

### Enabling or Disabling Inventory Update Functionality

The property `InventoryUpdateEnabled=false` in `application.properties` file controls enabling or disabling of the feature. The Point-of-Service Server installer sets the value `true` or `false` based on whether the user selects the InventoryUpdate functionality.

### Saving Transaction Object through Retail Transaction Technician

Add `RemoteTransactionTechnician` to `StoreServerConduit.xml` as in the following:

```
<TECHNICIAN name="RemoteTT" class = "RetailTransactionTechnician"
  package = "oracle.retail.stores.platform.server.transaction"
  export = "Y" >
  <PROPERTY propName="dataScript"
propvalue="classpath://config/manager/RetailTransactionTechnician.xml"/>
</TECHNICIAN>
```

Modify the data technician reference type `datatech` from `RemotedT` to `RemoteTT` in `PosDataManager.xml` as follows,

```
<TRANSACTION name="TransactionWriteDataTransaction"
  queue="TransactionQueue"
  pollinterval="20"
  timeout="19">
  <DATATECHREF datatech="RemoteTT"/>
</TRANSACTION>
```

## FileQueueConnector Configuration

The following example shows how to configure the FileQueueConnector for storing transaction object in queue before broadcasting:

```
<CONNECTOR name="TransactionFileQueueConnector" javaclass="
oracle.retail.stores.connector.FileQueueConnector">
  <PROPERTY propname="queueFileName" proptype="STRING"
propvalue="DefaultTrnFileQueue"/>
  <PROPERTY propname="queueMonitorInterval" proptype="STRING"
propvalue="30000"/>
  <PROPERTY propname="executionInterval" proptype="STRING" propvalue="1000"/>
</CONNECTOR>
```

## BatchedFileQueueConnector Configuration

The following example shows how to configure the BatchedFileQueueConnector for storing transaction object in queue before sending to Store Inventory Management:

```
<CONNECTOR name="PSITransactionFileQueueConnector" javaclass="
oracle.retail.stores.connector.BatchedFileQueueConnectorFileQueueConnector">
  <PROPERTY propname="batchSize" proptype="STRING" propvalue="10"/>
  <PROPERTY propname="queueMonitorInterval" proptype="STRING"
propvalue="30000"/>
  <PROPERTY propname="executionInterval" proptype="STRING" propvalue="1000"/>
</CONNECTOR>
```

## TransactionFilterConnector Configuration

The following example shows how transactions to be filtered out can be configured in PSITransactionFilterConfig.xml:

```
<!-- The Transaction Names should be same as provided in
TransactionConstantsIfc -->

  <INTEGRATIONTYPE name="InventoryUpdates">
    <!-- Enter Transaction Names which have to be exported for Inventory
Updates -->
    <TRANSACTION name="SALE"/>
    <TRANSACTION name="RETURN"/>
    <TRANSACTION name="VOID"/>
    <TRANSACTION name="EXCHANGE"/>
    <TRANSACTION name="LAYAWAY_COMPLETE"/>
    <TRANSACTION name="LAYAWAY_DELETE"/>
    <TRANSACTION name="ORDER_COMPLETE"/>
    <TRANSACTION name="ORDER_CANCEL"/>
    <TRANSACTION name="ORDER_PARTIAL"/>
    <TRANSACTION name="SEND"/>
    <STATUS name="COMPLETED"/>
  <STATUS name="VOIDED"/>
</INTEGRATIONTYPE>

  <INTEGRATIONTYPE name="InventoryReservation">
    <!-- Enter Transaction Names which have to be exported for Inventory
Reservation -->
    <TRANSACTION name="LAYAWAY"/>
    <TRANSACTION name="LAYAWAY_PICKUP"/>
    <TRANSACTION name="LAYAWAY_DELETE"/>
    <TRANSACTION name="ORDER"/>
    <TRANSACTION name="ORDER_INITIATE"/>
    <TRANSACTION name="ORDER_COMPLETE"/>
```

```
<TRANSACTION name="ORDER_CANCEL" />
<TRANSACTION name="ORDER_PARTIAL" />
<TRANSACTION name="SPECIAL_ORDER" />
<TRANSACTION name="SPECIAL_ORDER_COMPLETE" />
<TRANSACTION name="SPECIAL_ORDER_CANCEL" />
<TRANSACTION name="SPECIAL_ORDER_PARTIAL" />

<STATUS name="COMPLETED" />
<STATUS name="VOIDED" />
</INTEGRATIONTYPE>
```

## Logging/Auditing

Point-of-Service-to-Store Inventory Management Realtime Updates uses log4j for logging. The following logging levels can be used:

- Info: logging information messages.
- Debug: logging all the debug messages.
- Error: logging application errors.

The logging level can be configured with log4j.xml.

Any exception in sending the transaction information to Store Inventory Management will be logged in orpos.log in the <OracleRetailStore>\Server\pos\logs folder.

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## Appendix: Serial Numbers

Serial numbering is a system used by manufacturers to be able to trace the history of any finished good that reaches the customers. When customer complains of defective goods, knowing the serial number enables the manufacturer to find out where the raw materials were purchased, who was involved in each production step, as well as which distributors the goods were channeled by.

Retailers that sell such high-valued or high-risk items have to track unique numbers or attributes for a single item or a group of items. This enables the retailer to have a tight control over every unit of every item in the inventory. The sale/return process needs to capture the serial number of the items, reserve/reverse status of item in Oracle Retail Store Inventory Management and transmit the serial number to mark the item as sold to Store Inventory Management. The serial number of the sold item will also need to be transmitted with the transaction data to all the downstream applications that require Point-of-Service transaction data.

Point-of-Service will need to support sale of serial controlled items. The overall processing of a serial controlled item is broken into the following two parts:

- **Serial Number Validation:** When an item is scanned, if the UIN-required flag is set to **Yes**, the user will be prompted for the serial number. If the UIN capture time is set to **StoreReceiving**, then the serial number will need to be validated from Store Inventory Management. This process will need to be followed for the following transactions:
  - Normal Sale
  - Non-Receipted return transaction
  - Layaway Initiate
  - Sale initiated Pickup and Delivery
  - Special Order Pickup
  - Layaway Pickup if UIN was not captured at the initiation
  - Transaction Re-entry mode for all the above listed transaction
- **Serial number status update:** Serial number status will need to be updated in Store Inventory Management based on the stock movement. All the transactions listed in the validation step will need to be sent to Store Inventory Management for update. The following transactions must be sent as well:
  - Post void of the transactions listed in the validation step
  - Layaway delete
  - Pickup/Delivery order cancel

- Post void of partial pickup of Layaway
- Return with receipt

The impacts of the requirement are as listed below:

- The item scan process in the transaction listed for the serial number validation process will need to prompt the user for the serial number if the item is a serial controlled item. The serial number entered will need to be validated and inventory reserved in Store Inventory Management. For erroneous serial numbers entered, facility for creating new serial numbers or manager override will need to be supported
- On completing the transactions listed in serial number update process, the serial number will need to be transmitted as part of the transaction information to all downstream applications such as to Central Office, a sales audit application, Store Inventory Management, and so forth.
- Point-of-Service will need to handle the scenarios when Store Inventory Management is offline.

## Configuration

### Enabling or Disabling Serialization Functionality

The property `SerializationEnabled=false` in `application.properties` file controls enabling or disabling of the feature. The Point-of-Service Client installer sets the value `true` or `false` based on whether the user selects the serialization functionality.

### Serial Number Validation Process

The serial number validation process require the Point-of-Service Client to connect to the connector framework using the Point-of-Service-to-Store Inventory Management Serial Validation Connector service.

The ConnectorManager in the Point-of-Service Client will delegate the validation request to the ConnectorTechnician (Entry point to the connector framework) that will integrate with Store Inventory Management Web service through the Point-of-Service-to-Store Inventory Management Serial Validation Connector service to get the serial number validated.

- On a scan of an item that is serial controlled, the user is prompted to enter/scan the serial number.
- The new validation tour will invoke the ConnectorManager. The connector framework is used for integration with Store Inventory Management and getting the result back to the tour. If the validation is successful the item is added to the **Sell item** screen. The transaction is marked as having serial controlled items. If the validation fails, the exception flow is executed.

For Sale Reversal flow (Return/Post Void) there will be no validation of serial numbers even when there is modification to the serial number.

The response from Store Inventory Management will result in one of the following actions in Point-of-Service:

- Allowed to Sell
- Not Allowed to Sell
- Conditional Sell – driven from the item attribute **External System create UIN**. If the attribute is set to not allow the creation of UIN then the process falls back to Not Allowed to Sell.

The statuses and errors sent from Store Inventory Management will map to one of the above actions in Point-of-Service.

## IMEI Scan

The user can also scan the serial number directly on the sell item/return item/item inventory inquiry screen. IMEI scan increases the complexity of the item lookup process:

- The Sale and Return without receipt process prompts the user to enter/scan the item ID.
- The Point-of-Service Client will have a configuration to enable/disable the IMEI scan.
- The user enters/scans the IMEI number on the Sell item/Returns without receipt screen. The IMEI number will be assumed as an Item ID and the normal lookup in stores database will be done. The item lookup will fail if the number entered/scanned is an IMEI number.
- Both the processes will now be modified to check if the IMEI scan is enabled. If it is not enabled then the existing unknown item process flow executes.
- If the IMEI scan is enabled the control then moves to the new serial validation tour.
- The serial validation tour will invoke Store Inventory Management with just the IMEI number and Store Inventory Management will return with either one specific item ID or return the list of item Ids if more than one item is found with the same IMEI.
- If Store Inventory Management is offline then the control moves to a display error to the user and instructing the user to scan the item ID and then the serial number. Else the control moves to check if there is even one item that has a Sellable status. If none of the items returned from Store Inventory Management have a Sellable status then the control moves to a display error to the user and instructing the user to scan the item ID and then the serial number.
- If there are items in the returned response that have Sellable status then those items are looked up from the stores database. If none of the items are found in database then the control moves to a display error to the user and instructing the user to scan the item ID and then the serial number.
- If multiple items are returned a screen with the various items will be displayed to the user and the user will need to select the specific item.
- If only one item is returned or if the user chooses a specific item from the list the process will again execute the item lookup process.

The IMEI scan is also enabled for the item inventory inquiry process. The process to enable IMEI scan is as shown below:

- The current process prompts the user for item details to be entered and then does an item lookup in stores database. If the item is not found then the user can choose to search for the item in the Buddy Store or the Transfer Zone.
- The change to the process will be done to check if IMEI scan is enabled when the item lookup fails. If IMEI scan is enabled then the serial validation tour is invoked to get the items corresponding to IMEI from Store Inventory Management. The rest of the process is as already mentioned for the sale and returns without receipt process.

### Enabling or Disabling IMEI Functionality

The property `IMEIEnabled=false` in `application.properties` file controls enabling or disabling of the feature. This feature is not set by the installer and needs to be configured post-installation.

### Serial Number Update Process

The serial number update process is a background process. The process runs once the transaction is tendered and persisted to the stores database. The process requires the Point-of-Service Server to connect to the connector framework through the RetailTransactionTechnician (entry point to the connector framework for transaction object).

- The transaction data is posted by the Point-of-Service Client to the Server for saving the data to the database. The transaction data is received by the RetailTransactionTechnician (RTT) in the Point-of-Service Server. The RTT forms the entry point into the connector framework (CommExt).
- The RTT persists the data to the database and then queues the data for later delivery to Store Inventory Management. Once the data is read from the queue it is then picked up by the Point-of-Service-to-Store Inventory Management Transaction Update connector service. The formatter associated with the service creates the transaction post request in the format Store Inventory Management requires. If a serial number was captured by Point-of-Service for any item within the transaction, those items are sent along with the serial number.
- Store Inventory Management updates the status of the serial numbers once the data is received at Store Inventory Management.



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# Glossary

## **Batch**

A collection of data operations that are processed during import at one time. The size is determined by a configurable parameter.

## **Bundle**

A collection of import files, one file per data type, stored as a compressed archive containing a manifest. It is expected that the retailer or implementation team is responsible for delivering to the Store the bundle along with manifest for all data feeds to the Store. MOM applications can package the bundle but do not provide delivery functions.

## **Corporate**

Used interchangeably with *enterprise*. The enterprise environment of the retailer where enterprise applications are deployed. Oracle Retail Central Office is deployed in the enterprise.

## **Data Access Object (DAO)**

A Java class that can retrieve and persist data to and from a data source. DAO is well-known JEE development pattern.

## **Data Distribution Infrastructure (DDI)**

The infrastructure and application components that are responsible for distributing seed data from enterprise applications to Store applications, ODS at Corporate (or enterprise), and Store Database at the stores.

## **Data Transfer Object (DTO)**

A class that contains data records from a received payload. The DTO's attributes are populated with the parsed data.

## **DIMP**

Data Import

## **Incremental**

There are two types of update operation, full incremental and delta incremental. Full incremental assumes that all the fields for a data type are supplied in the XML. A delta incremental import contains only the fields that are being changed.

## **ISP**

In-Store-Processor

**JEE/J2EE**

Java Enterprise Edition (formerly Java 2 Enterprise Edition) is a set of APIs designed to support tier 1 type business models.

**Java Database Connectivity (JDBC)**

An API used to communicate with relational databases.

**Kill And Fill**

Kill And Fill refers to a data operation where all the existing data in a table is deleted (kill) and then replaced with new data (fill).

**Limit (discount rule)**

The maximum price allowed for a source or target to be part of a deal. Used most often when the source or target is a classification or department where many different priced items exist.

**Manifest**

A file within a bundle that lists the data files in the bundle and their interdependencies.

**Minimum Data**

Minimum Data is defined as the minimum set of data necessary to support the deployment of Stores applications only.

If the user attempts to select any function or log in, an error may occur in the application without Sample Data loaded. See [Sample Data](#).

**Operational Data Store (ODS)**

The corporate data repository that services Oracle Retail Central Office.

**ORBO**

Oracle Retail Back Office

**ORCO**

Oracle Retail Central Office

**ORLT**

Oracle Retail Labels and Tags

**ORPOS**

Oracle Retail Point of Service

**ORRM**

Oracle Retail Returns Management

**ORSIM**

Oracle Retail Store Inventory Management

**ReSA**

Oracle Retail Sales Audit

**RMS**

Oracle Retail Merchandising System

**RPM**

Oracle Retail Price Management

**RTLog**

Retail Transaction Log

**Sample Data**

A set of data used to demonstrate application features.

**Store Applications**

Oracle Retail applications that run in the store environment. This includes:

- Oracle Retail Back Office
- Oracle Retail Point-of-Service
- Oracle Retail Strategic Store Solutions
- Oracle Retail Labels and Tags
- Oracle Retail Store Inventory Management
- Oracle Retail Central Office
- Oracle Retail Returns Management.

It must be noted that even though Oracle Retail Central Office runs in the corporate environment, it is classified as a store application.

**Store Database (SDB)**

The data repository for store applications.

**Strategic Store Solutions**

The Oracle Retail business unit that assumes responsibility for applications running in the Store environment.

**Threshold (discount rule)**

The minimum price allowed for a source or target to be part of a deal. Used most often when the source or target is a classification or department where many different priced items exist.



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