Oracle® Retail Strategic Store Solutions
Implementation Guide
Oracle Retail Strategic Store Solutions to Oracle Retail
Merchandising Products Integration
Release 13.0.3

September 2009
Value-Added Reseller (VAR) Language

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## Contents

### Preface
- Audience.................................................................................................................................................. xv
- Related Documents................................................................................................................................... xv
- Customer Support ..................................................................................................................................... xv
- Review Patch Documentation ................................................................................................................ xvi
- Oracle Retail Documentation on the Oracle Technology Network ....................................................... xvi
- Conventions ............................................................................................................................................... xvi

### 1 Integration Overview
- Data Import from Oracle Retail Merchandising System and Oracle Retail Price Management...... 1-1
  - Generic Data Import Flow ..................................................................................................................... 1-3
  - Feed Methods....................................................................................................................................... 1-4
  - Data Import Dependencies ..................................................................................................................... 1-5
- Oracle Retail Price Management to Oracle Retail Strategic Store Solutions Integration Overview 1-6
- Oracle Retail Merchandising System to Oracle Retail Strategic Store Solutions Integration Overview .............................................................................................................................. 1-8
- Oracle Retail Strategic Store Solutions to Oracle Retail Sales Audit Overview ........................... 1-10
  - Oracle Retail Strategic Store Solutions ............................................................................................... 1-10
  - Oracle Retail Strategic Store Solutions RTLog Files ........................................................................ 1-10
  - Transport Middleware .......................................................................................................................... 1-11
  - Oracle Retail Sales Audit ...................................................................................................................... 1-11
  - Preconditions ....................................................................................................................................... 1-12
  - System Flow Description ...................................................................................................................... 1-13
- Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management Overview ........... 1-13
- Existing Functionality Gaps.................................................................................................................... 1-16
  - Oracle Retail Price Management ......................................................................................................... 1-16
  - Oracle Retail Merchandising System ................................................................................................. 1-18
  - Data Import Field Width Maximums .................................................................................................... 1-20

### 2 Integration Architecture
- Strategic Store Solutions to Oracle Retail Sales Audit Integration Architecture ............................ 2-1
  - RTLog Batch Generator ......................................................................................................................... 2-2
6 Known Issues and Troubleshooting

Known Issues and Troubleshooting

Configuration: 5-13
The Store Server Conduit File: 5-13
The Export Format Configuration File: 5-13
The Entity Reader Configuration File: 5-14
The Mapping Configuration File: 5-14
Development and Testing Tools: 5-15
Classes: 5-15
Executables in the bin Directory: 5-16

Strategic Store Solutions to Oracle Retail Store Inventory Management Extension Points and Development: 5-17
Creating a New Web Service Stub jar File: 5-17
Extending the RTLog Encryption Model: 5-17

Known Issues and Troubleshooting

DepartmentDefaultTaxGroup: 6-1
Character Restrictions for UOMs: 6-1
POSlng: 6-1
Preload Section of ItemImport: 6-1
UTF-8: 6-1
Transaction Level Items: 6-1
Need To Escape Special Characters In XML File: 6-2
Geocode Tag Missing For Store: 6-2
Missing Encryption Key For Saencrypt.pc: 6-2
Clearance Pricing: 6-2
Oracle Retail Price Management Price Promotion endDateTime in Pricing Import XSD: 6-2
Data Import Failure: 6-2
Integration with Oracle Retail Sales Audit: 6-2
Total ID in the RTLog: 6-2
Duplicate Discount Rules After Import: 6-2
Data Import Field Width Maximums: 6-3
Price Change Applied Before Start Date: 6-3
Special Order Eligible Coupons: 6-3
Bank Deposit Details: 6-3
Discountable Attribute from Oracle Retail Merchandising System: 6-3
Authorized for Sale: 6-3
Gift Card Error: 6-3
CatchWeight Item in RTLog: 6-3
Empty Item Classes Lists for DIMP: 6-3
Item Cost Attribute: 6-3
RegistryEligible Field: 6-4
ReasonCodes for Discount Rules: 6-4
Reason Codes for Price Discount: 6-4
Layaway Deletion Fee: 6-4
Customer-Specific Pricing in Pricing Data Import: 6-4
CTILL Records in the RTLog: 6-4
Hardcoded Attributes in Oracle Retail Merchandising System Extracts: 6-4
Third-party Tax and Employee Information: 6-5
Cancel One Item and Partial Pickup of Other Item in Special Order ............................................ 6-5
Data Mismatches in Data Import ...................................................................................................... 6-5
  Character Restrictions for ContactAddressCity ........................................................................ 6-6
  Character Restrictions for External Event ID ............................................................................. 6-6
  Character Restrictions for Item Cost/Unit Cost ......................................................................... 6-6
  Character Restrictions for PriceOverrideAmount ................................................................. 6-6
  Character Restrictions for Pricing Coupon .............................................................................. 6-6
  Character Restrictions for Pricing Discount Percent, Discount Amount and New Price .......... 6-6
  Character Restrictions for Pricing GroupID ............................................................................. 6-6
  Character Restrictions for Pricing Promo Description and Promo Name .............................. 6-6
  Character Restrictions for UPC .................................................................................................. 6-7
Data Information for UOM ............................................................................................................. 6-7
Geocode Data Missing .................................................................................................................... 6-7
Postal Code ................................................................................................................................... 6-7

Glossary

A  Appendix: Discount Rules – Any or All

B  Appendix: XSD Files and Data Element Definition Tables
  Employee Import ......................................................................................................................... B-1
  Item Import ................................................................................................................................. B-8
  Merchandise Hierarchy Import .................................................................................................. B-32
  Pricing Import ............................................................................................................................. B-62
  Store Hierarchy Import ............................................................................................................. B-96
  Tax Import ................................................................................................................................ B-114

C  Appendix: Pricing Rules
  Buy/Get ........................................................................................................................................ C-3
    RPM Buy/Get Assumptions ........................................................................................................ C-3
  Threshold .................................................................................................................................... C-5
    Threshold assumptions .............................................................................................................. C-5
  Simple ......................................................................................................................................... C-6
  Kits .............................................................................................................................................. C-6
  Preferred Customer ....................................................................................................................... C-6
  Store Coupon ............................................................................................................................... C-6

Index
List of Figures

1–1 Integration Overview Including Strategic Store Solutions and Oracle Retail Merchandising Products 1-2
1–2 Strategic Store Solutions to Oracle Retail Price Management Integration .......................... 1-7
1–3 Strategic Store Solutions and Oracle Retail Merchandising System Integration .................. 1-9
1–4 High-Level Model for Oracle Retail Strategic Store Solutions-Oracle Retail Sales Audit Integration 1-12
1–5 High-Level Model for Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management Integration 1-15
2–1 Data Import Tables Logical Data Model ................................................................................ 2-6
2–2 Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management Architecture ... 2-15
3–1 Adding Files To a Jar ............................................................................................................... 3-7
3–2 Adding Files To A WinZip Archive ..................................................................................... 3-8
5–1 Employee Data Import Static Model .................................................................................. 5-2
C–1 RPM to Strategic Stores Solutions Pricing Map ............................................................... C-1
List of Tables

1–1 Functionality Gaps for Promotion Data Import .......................................................... 1-16
1–2 Functionality Gaps for Price Change Data Import ...................................................... 1-17
1–3 Functionality Gaps for Discount Rule Data Import .................................................... 1-17
1–4 Functionality Gaps for Item Data Import .................................................................. 1-18
1–5 Functionality Gaps for Merchandise Hierarchy Data Import ..................................... 1-19
1–6 Functionality Gaps for Store Hierarchy Data Import ................................................ 1-19
1–7 Affected XML Elements ......................................................................................... 1-20
2–1 TransactionType (TRAT) ......................................................................................... 2-8
2–2 ReasonCode (REAC) ............................................................................................... 2-9
2–3 OverrideReasonCodes (ORRC) .............................................................................. 2-10
2–4 ReturnReasonCodes (SARR) .................................................................................. 2-10
2–5 SADT ...................................................................................................................... 2-11
2–6 TaxCode (TAXC) ................................................................................................... 2-11
2–7 TenderTypes (TENT) ............................................................................................ 2-11
2–8 TenderType ID (POS_TENDER_TYPE_HEAD) ......................................................... 2-12
2–9 CCEM .................................................................................................................... 2-13
2–10 Unit of Measure .................................................................................................... 2-13
2–11 Total ID for TOTAL type transactions ................................................................... 2-13
2–12 PRMT .................................................................................................................... 2-14
3–1 Spring Bean IDs Used For Each Of The Pluggable Components ............................. 3-1
3–2 Additional Spring Bean IDs Used For Each Of The Pluggable Components .......... 3-2
3–3 Spring Bean IDs Used For Each of the Pluggable Components .............................. 3-5
3–4 Oracle Retail Merchandising System Default Values in the Back Office Item Maintenance Screen 3-9
3–5 Oracle Retail Price Management Default Values ..................................................... 3-11
4–1 File Sizes .............................................................................................................. 4-1
4–2 Bundle Size .......................................................................................................... 4-2
4–3 Hard Drive Capacity .............................................................................................. 4-2
4–4 Item Import Data Volumes .................................................................................... 4-2
5–1 Store Server Conduit File ...................................................................................... 5-10
5–2 EntityMappingObjectFactory Classes ................................................................ 5-11
5–3 RecordFormatObjectFactory Classes .................................................................. 5-12
5–4 Store Server Conduit File ...................................................................................... 5-13
5–5 Exportfile Utility Classes ...................................................................................... 5-16
5–6 bin Directory BAT Files ....................................................................................... 5-16
B–1 Employee Import XSD Element Mapping Table .................................................... B-1
B–2 Item Import XSD PreloadData Element Mapping Table ........................................ B-8
B–3 Item Import XSD Item Element Mapping Table .................................................... B-11
B–4 Item Import XSD Oracle Retail Merchandising System Export Files Mapping Table... B-17
B–5 Merchandise Hierarchy Import XSD PreloadData Element Mapping Table ............ B-32
B–6 Merchandise Hierarchy Import XSD Element Mapping Table ............................... B-33
B–7 Merchandise Hierarchy Import XSD Oracle Retail Merchandising System Export Files Mapping Table B-35
B–8 Pricing Import XSD PriceChange Element Mapping Table .................................... B-62
B–9 Pricing Import XSD Price Promotion Element Mapping Table ............................ B-64
B–10 Pricing Import XSD Discount Rule Element Mapping Table .................................. B-68
B–11 Pricing Import XSD Oracle Retail Merchandising System Export Files Mapping Table..... B-74
B–12 Store Hierarchy Import XSD Preload Data Mapping Table .................................... B-96
B–13 Store Hierarchy Import XSD Element Mapping Table ......................................... B-98
B–14 Tax Import XSD Element Mapping Table ............................................................ B-115
C–1 Buy/Get ............................................................................................................... C-3
C–2 Threshold ............................................................................................................ C-5
C–3  Simple ........................................................................................................................................ C-6
C–4  Kits ............................................................................................................................................ C-6
# List of Examples

1–1  Sample excerpted from StoreServerConduit.xml ................................................. 1-10
1–2  Sample excerpted from StoreServerConduit.xml ................................................. 1-13
2–1  Sample JMX Configuration ................................................................................. 2-7
2–2  Message Bean Definition .................................................................................... 2-7
5–1  SAXParserGenerator utility command prompt .................................................... 5-3
5–2  EmployeeAccessHandler Process DTO Before Children .................................... 5-4
5–3  EmployeeImportHandler Process DTO During Start ......................................... 5-4
B–1  EmployeeImport.xsd ............................................................................................ B-4
B–2  EmployeeImport.xml ............................................................................................ B-7
B–3  ItemImport.xsd .................................................................................................... B-21
B–4  ItemImport.xml .................................................................................................... B-29
B–5  MerchandiseHierarchyImport.xsd ....................................................................... B-36
B–6  MerchandiseHierarchyImport.xml ..................................................................... B-40
B–7  PricingImport.xsd .............................................................................................. B-81
B–8  PricingImport.xml .............................................................................................. B-87
B–9  StoreHierarchyImport.xsd .................................................................................. B-100
B–10 StoreHierarchyImport.xml ................................................................................ B-105
B–11 TaxImport.xsd ................................................................................................... B-119
B–12 TaxImport.xml ................................................................................................... B-121
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 13.0.3 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
- Oracle Retail Mobile Point-of-Service documentation set

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

- https://metalink.oracle.com

When contacting Customer Support, please provide the following:

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

If you are installing the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.3). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release and code changes that have been made since the base release.

Oracle Retail Documentation on the Oracle Technology Network

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

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

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

Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Data Import from Oracle Retail Merchandising System and Oracle Retail Price Management

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 Oracle Retail Merchandising System, Oracle Retail Price Management 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".

---

**Note:** 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.

---

**Note:** The base DIMP application supports parsing XML files only.

The following is an overview diagram of an integration of Strategic Store Solutions and Oracle Retail Merchandising Products, including a Data Import logical flow:
Figure 1–1 Integration Overview Including Strategic Store Solutions and Oracle Retail Merchandising Products
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 also be processed by Central Office. However, this information is for-your-information only. 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 order by DIMP translators: one for each import type.

4. The implementation of the ImportTranslatorIfc (as configured by Spring) 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.
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.

**Full Incremental**
Full Incremental is a fill type that performs adds, updates, or deletes expecting that all data attributes for a particular record are included in the file. Any missing attributes are provided default values.

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

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.

**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.

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

---

**Note:** Oracle Retail Price Management and Oracle Retail 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.

---

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

---

**Note:** Oracle Retail Price Management and Oracle Retail 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.

---

- Pricing depends on Item
Oracle Retail Price Management to Oracle Retail Strategic Store Solutions Integration Overview

Oracle Retail Price Management is a strategy-based pricing solution that suggests and assists with pricing decisions, yielding a more predictable and profitable outcome. Oracle Retail Price Management 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

Oracle Retail Price Management provides a well-defined and efficient price change process that allows for aggregated permanent and clearance price change execution. Oracle Retail Price Management enables retailers to automate and streamline pricing strategies across the organization. Oracle Retail Price Management 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 Oracle Retail Price Management.

The following figure shows a high level overview of the integration.
Figure 1–2  Strategic Store Solutions to Oracle Retail Price Management Integration
Oracle Retail Merchandising System to Oracle Retail Strategic Store Solutions Integration Overview

Oracle Retail 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.

Oracle Retail 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.

---

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

---

**Note:** There are some conditions required on data in order to filter out the Oracle Retail 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.

---

The following figure shows a high level overview of the integration.
Figure 1–3 Strategic Store Solutions and Oracle Retail Merchandising System Integration

[Diagram showing the integration process between Oracle Retail Merchandising System and Strategic Store Solutions, including data bundles, batch download, scheduled task, and import process.]
Oracle Retail Strategic Store Solutions to Oracle Retail Sales Audit Overview

The integration of the Oracle Retail Strategic Store Solutions products with the Oracle Retail Sales Audit (ReSA) application involves the following components:

Oracle Retail Strategic Store Solutions

The Oracle Retail Strategic Store Solutions logical component is comprised of Oracle Retail Point-of-Service, Back Office, and Central Office. RTLog data is created from Point-of-Service.

Oracle Retail Strategic Store Solutions RTLog Files

The RTLog file is the communication mechanism for providing data from the Oracle Retail Strategic Store Solutions to Oracle Retail Sales Audit. The RTLog is a transaction log file that is formatted specifically for Oracle Retail Sales Audit. Raw transaction data in the RTLog file is meant to update other Oracle Retail Merchandising Products applications, and is populated from Oracle Retail Strategic Store Solutions. The file is written to the physical file system by Oracle Retail Strategic Store Solutions for consumption by the transportation middleware.

Oracle Retail Strategic Store Solutions is responsible for writing the RTLog files to a configurable physical directory on the Store Server.

Note: RTLog files are encrypted. See Oracle Retail Merchandising System Operations Guide - Batch Overviews and Designs - Volume 1 Release 12.0.7.

In previous releases, the Point-of-Service application used a hard-coded encryption key, known and used by both Strategic Store Solutions and ReSA to encrypt and decrypt the RTLog file. For this release, Strategic Store Solutions uses a key store to get the encryption key. The encryption key identifier is embedded in the RTLog file.

The propname="outputAdapterClassName" class in the StoreServerConduit.xml file controls the writing of the RTLog to a file. This particular implementation encrypts the file using the Key Store configured with the application.

Example 1–1 Sample excerpted from StoreServerConduit.xml

```
<TECHNICIAN name="RTLogExportDaemonTechnician" class="RTLogExportDaemonTechnician" package="com.extendyourstore.domain.manager.rtlog" export="Y">
    <PROPERTY propname="daemonClassName" propvalue="com.extendyourstore.domain.manager.rtlog.RTLogExportDaemonThread"/>
    <PROPERTY propname="daemonName" propvalue="RTLogExportDaemon"/>
    <PROPERTY propname="sleepInterval" propvalue="600"/>
    <PROPERTY propname="exportDirectoryName" propvalue="POSLog"/>
    <PROPERTY propname="databaseAdapterClassName" propvalue="com.extendyourstore.domain.manager.rtlog.RTLogDatabaseAdapter"/>
    <PROPERTY propname="encryptionAdapterClassName"/>
```
ReSA does not currently support the key store approach to decrypting RTLog files. As of the current release, it is the implementer’s responsibility to enhance the decryption functionality in ReSA.

**Transport Middleware**

The transport middleware is a component that is responsible for polling the RTLog file produced by the Oracle Retail Strategic Store Solutions. This component has the following responsibilities:

- Polling the physical file system at a specified directory.
- Writing the RTLog file to a location that Oracle Retail Sales Audit expects.
- Cleaning and archiving the RTLog file once Oracle Retail Sales Audit has consumed the RTLog file.
- Error notification if the RTLog file is not able to be extracted successfully from a physical directory.

---

**Note:** Transport middleware is not provided by Oracle Retail. It is the responsibility of the implementation team to provide the integration middleware of their choice.

**Oracle Retail Sales Audit**

Oracle Retail Sales Audit is the gateway for transaction data updates to merchandising and inventory systems. The Oracle Retail Sales Audit consumes the RTLog file written to a specific directory by the integration middleware. Oracle Retail Sales Audit also sends audited data files to other Oracle Retail Merchandising Products applications for consumption.

The following figure depicts the two domains that are involved when integrating transaction data within the Oracle Retail suite.
Preconditions

The following preconditions must be observed for the system flow to function correctly:

1. Transport middleware requires read and write access to the physical file system to which Oracle Retail Strategic Store Solutions writes the RTLog file.
2. Transport middleware requires read and write access to the physical file system from which Oracle Retail Sales Audit reads the RTLog files.
3. Oracle Retail Strategic Store Solutions requires access to a physical file system to produce the RTLog file.
System Flow Description

The Point-of-Service client application generates transaction data and sends the transaction object structure to the Point-of-Service store server. The Point-of-Service store server populates the JDBC statement type and commits the transaction data to the store database. The time increment at which data is sent to Oracle Retail Sales Audit is dictated by the retailer by editing the propname="sleepInterval" property in the StoreServerConduit.xml file:

Example 1–2  Sample excerpted from StoreServerConduit.xml

```
<TECHNICIAN name="RTLogExportDaemonTechnician"
    class="RTLogExportDaemonTechnician"
    package="com.extendyourstore.domain.manager.rtlog"
    export="Y">
    <PROPERTY propname="daemonClassName"
        propvalue="com.extendyourstore.domain.manager.rtlog.RTLogExportDaemonThread"/>
    <PROPERTY propname="daemonName"
        propvalue="RTLogExportDaemon"/>
    <PROPERTY propname="sleepInterval"
        propvalue="600"/>
    <PROPERTY propname="exportDirectoryName"
        propvalue="POSLog"/>
</TECHNICIAN>
```

See Table 5–1, "Store Server Conduit File" in chapter 5 for more information.

The overall flow shown in Figure 1–4 is summarized in the following sequence:

1. Oracle Retail Strategic Store Solutions creates and encrypts RTLog files.
   If the RTLog is not successfully created due to unsupported mappings, the transaction identifier and exceptional condition is logged in detail on the Point-of-Service store server.

2. Transport middleware scans directory that Oracle Retail Strategic Store Solutions writes the RTLog file to and reads in unprocessed RTLog files.

3. Transport middleware moves the RTLog file from the physical directory written to by Oracle Retail Strategic Store Solutions to a physical directory on an enterprise server defined by Oracle Retail Sales Audit.

4. Oracle Retail Sales Audit consumes the RTLog file written to a pre-defined directory by the transport middleware, decrypts, and executes data cleansing operations to produce audited transaction data. See Oracle Retail Strategic Store Solutions RTLog Files, this chapter.

5. Oracle Retail Sales Audit outputs audited RTLog-formatted transaction batch files and places the files into directories accessible by Oracle Retail Merchandising Products applications.

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

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 Oracle Retail 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 Oracle Retail Store Inventory Management contains item, location and inventory information.

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

The following figure depicts the interaction of the Oracle Point-of-Service Client and Server with Oracle Retail Store Inventory Management.
ItemLookupSite and StoreDetailSite use existing DataManager/DataTechnician components for item lookup and Store information respectively. InventoryLookupSite uses PSIInventoryManager to get item inventory information. The item information is passed to PSIInventoryTechnician through Valet. PSIInventoryTechnician gets item inventory information from InventoryWS Web service deployed in Oracle Retail Store Inventory Management.
Existing Functionality Gaps

For this release, there are certain functionality gaps that exist that are not remedied at this time. This section describes theses functional gaps, and the suggested resolution.

Oracle Retail Price Management

Table 1–1 is a list of functionality gaps that exist for the Promotion data import.

<table>
<thead>
<tr>
<th>Identified Functionality Gap</th>
<th>Suggested Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Retail Price Management does not download a start time.</td>
<td>Assume a start time of 00:00:00.</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not download an end time.</td>
<td>Assume an end time of 23:59:59.</td>
</tr>
<tr>
<td>Oracle Retail Price Management 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</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
<tr>
<td>In Oracle Retail Price Management, 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.</td>
<td>Oracle Retail Price Management turns off overlapping promotions. This ensures that only one promotion is applied to an item or location at a time.</td>
</tr>
<tr>
<td>The Item Number field is larger in Oracle Retail Price Management than Strategic Store Solutions.</td>
<td>Strategic Store Solutions logs an error if the database field is exceeded.</td>
</tr>
<tr>
<td>Field for Promotion Price attribute is larger in Oracle Retail Price Management.</td>
<td>Oracle Retail Price Management turns off overlapping promotions. This ensures that only one promotion is applied to an item or location at a time.</td>
</tr>
</tbody>
</table>

In addition to the multiple promotions, Oracle Retail Price Management 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 Oracle Retail Price Management sends as selling price. This discrepancy can result from rounding, price guides, and so forth.
Table 1–2 is a list of functionality gaps that exist for the Price Change data import.

### Table 1–2 Functionality Gaps for Price Change Data Import

<table>
<thead>
<tr>
<th>Identified Functionality Gap</th>
<th>Suggested Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Retail Price Management supports a longer field (Selling Retail) and more precision.</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
<tr>
<td>Oracle Retail Price Management Item field is longer.</td>
<td>Item ID length remains the same in Strategic Store Solutions and Oracle Retail Price Management. If the item ID is too long in the download file, the record is logged and discarded.</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not support description field in download file.</td>
<td>Optional Description field is not populated.</td>
</tr>
</tbody>
</table>

Table 1–3 is a list of functionality gaps that exist for the Discount Rule data import.

### Table 1–3 Functionality Gaps for Discount Rule Data Import

<table>
<thead>
<tr>
<th>Identified Functionality Gap</th>
<th>Suggested Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Retail Price Management Item field length is longer.</td>
<td>Item ID length remains the same in Strategic Store Solutions and Oracle Retail Price Management. If the item ID is too long in the download file, the record is logged and discarded.</td>
</tr>
<tr>
<td>Oracle Retail Price Management field (Threshold Value) is longer and supports more precision.</td>
<td>Field length remains the same in Oracle Retail Price Management and Strategic Store Solutions. If the threshold is a decimal value, it is logged and discarded.</td>
</tr>
<tr>
<td>Oracle Retail Price Management Item field length is longer.</td>
<td>Item ID length remains the same in Strategic Store Solutions and Oracle Retail Price Management.</td>
</tr>
<tr>
<td>Oracle Retail Price Management supports larger values and more precision than stores. Meaning of value (%, $, or new price) is defined by Change Type.</td>
<td>Field length remains the same in Oracle Retail Price Management and Strategic Store Solutions.</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not download a start time.</td>
<td>Assume a start time of 00:00:00.</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not download an end time.</td>
<td>Assume an end time of 23:59:59.</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not support threshold or limit.</td>
<td>Assume no threshold</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not support the Number Of Times Per Transaction (NbrTimesPerTrans) field.</td>
<td>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.</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not support the Accounting Method field.</td>
<td>Assume the discount.</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not directly support the Allow Source to Repeat field.</td>
<td>Allow source to repeat.</td>
</tr>
<tr>
<td>Oracle Retail Price Management does not directly support the Deal Distribution field.</td>
<td>Assume target only.</td>
</tr>
<tr>
<td>Target Quantity field is not supported in Oracle Retail Price Management.</td>
<td>Assume target quantity of 1.</td>
</tr>
</tbody>
</table>
## Oracle Retail Merchandising System

Table 1–4 is a list of functionality gaps that exist for the Item import.

**Table 1–4  Functionality Gaps for Item Data Import**

<table>
<thead>
<tr>
<th>Strategic Store Solutions Attribute</th>
<th>Identified Functionality Gap</th>
<th>Suggested Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>Cost data is not included in the Point-of-Service download file, but Oracle Retail Merchandising System has this data. However, Point-of-Service does not access item cost data from manufacturer.</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
<tr>
<td>Sign/Label</td>
<td>This is not maintained by Oracle Retail Merchandising System.</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Not included in the Point-of-Service download, but Oracle Retail Merchandising System has this data.</td>
<td>This value is null.</td>
</tr>
<tr>
<td>Planogram</td>
<td>Not maintained by Oracle Retail Merchandising System. Oracle Retail Merchandising System has a generic attribute that could be used for this purpose.</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
<tr>
<td>Serialized</td>
<td>Not maintained by Oracle Retail Merchandising System. Point-of-Service uses this to prompt for serial number during order pickup.</td>
<td>Default to false for Oracle Retail Merchandising System imports.</td>
</tr>
<tr>
<td>Restocking Fee</td>
<td>Not maintained by Oracle Retail Merchandising System. Point-of-Service uses this to prompt for a restocking fee during returns.</td>
<td>Default to false for Oracle Retail Merchandising System imports.</td>
</tr>
<tr>
<td>Activation Required</td>
<td>Not maintained by Oracle Retail Merchandising System.</td>
<td>No attribute in Oracle Retail Merchandising System. Not used by Point-of-Service.</td>
</tr>
<tr>
<td>Registry Eligible</td>
<td>Not maintained by Oracle Retail Merchandising System.</td>
<td>No attribute in Oracle Retail Merchandising System. Not used by Point-of-Service.</td>
</tr>
<tr>
<td>Special Order Eligible</td>
<td>Prevents certain items from being placed on a special order. Not maintained by Oracle Retail Merchandising System.</td>
<td>Default to false for Oracle Retail Merchandising System imports.</td>
</tr>
<tr>
<td>Employee Discount Eligible</td>
<td>Identifies an item as eligible for an employee discount. Not maintained by Oracle Retail Merchandising System.</td>
<td>Default to true for Oracle Retail Merchandising System imports.</td>
</tr>
<tr>
<td>Damage Discount Eligible</td>
<td>Identifies an item as eligible for damage discount. Not maintained by Oracle Retail Merchandising System.</td>
<td>Default to true for Oracle Retail Merchandising System imports.</td>
</tr>
</tbody>
</table>
Table 1–5 is a list of functionality gaps that exist for the Merchandise Hierarchy import.

<table>
<thead>
<tr>
<th>Strategic Store Solutions Attribute</th>
<th>Identified Functionality Gap</th>
<th>Suggested Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Entry Required</td>
<td>Not maintained by Oracle Retail Merchandising System. Point-of-Service uses this attribute during a sale or return to prompt for item size.</td>
<td>Default to false for Oracle Retail Merchandising System imports.</td>
</tr>
<tr>
<td>Itemizing</td>
<td>Strategic Store Solutions assumes item data is interpreted as local time. File creation has the local Oracle Retail Merchandising System time, but no timezone info.</td>
<td>Assume all Timestamps are relative to GMT.</td>
</tr>
<tr>
<td>Localization</td>
<td>Oracle Retail Merchandising System data file does not contain localized data for a store.</td>
<td>Accepts one localized text from Oracle Retail Merchandising System and use as all three: stores, user, customer.</td>
</tr>
</tbody>
</table>

Table 1–6 is a list of functionality gaps that exist for the Store Hierarchy import.

<table>
<thead>
<tr>
<th>Strategic Store Solutions Attributes</th>
<th>Identified Functionality Gap</th>
<th>Suggested Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Store Class</td>
<td>Strategic Store Solutions does not accept class.</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
<tr>
<td>Store Class Description</td>
<td>Strategic Store Solutions does not accept class description.</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
<tr>
<td>Store Format</td>
<td>Strategic Store Solutions does not accept format as part of the data import.</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
<tr>
<td>Format Name</td>
<td>Store does not accept format name as part of the data import.</td>
<td>Gap to remain unchanged for this release.</td>
</tr>
</tbody>
</table>
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>
<thead>
<tr>
<th>Import</th>
<th>Elements</th>
<th>Maximum Column Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee Import</td>
<td>Employee &gt; EmployeeFullName</td>
<td>VARCHAR(150)</td>
</tr>
<tr>
<td></td>
<td>Employee &gt; EmployeeLastName</td>
<td>VARCHAR(50)</td>
</tr>
<tr>
<td></td>
<td>Employee &gt; EmployeeFirstName</td>
<td>VARCHAR(50)</td>
</tr>
<tr>
<td></td>
<td>Employee &gt; EmployeeMiddleName</td>
<td>VARCHAR(50)</td>
</tr>
<tr>
<td>Item Import</td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity</td>
<td>@SupplierID</td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; Color@Code</td>
<td>VARCHAR(20)</td>
</tr>
<tr>
<td></td>
<td>Item@Color</td>
<td>VARCHAR(20)</td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; Size@Code</td>
<td>VARCHAR(10)</td>
</tr>
<tr>
<td></td>
<td>Item@Size</td>
<td>VARCHAR(10)</td>
</tr>
<tr>
<td>Merchandise Hierarchy Import</td>
<td>PreloadData &gt; MerchandiseGroup &gt; Description</td>
<td>VARCHAR(250)</td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; POSDepartment &gt; POSDepartmentID</td>
<td>VARCHAR(14)</td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; POSDepartment &gt; ParentPOSDepartmentID</td>
<td>VARCHAR(14)</td>
</tr>
<tr>
<td></td>
<td>HierarchyList &gt; Hierarchy@Name</td>
<td>VARCHAR(14)</td>
</tr>
<tr>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; LevelList &gt; Level@Name</td>
<td>VARCHAR(120)</td>
</tr>
<tr>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ParentNodeID</td>
<td>VARCHAR(14)</td>
</tr>
<tr>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ID</td>
<td>VARCHAR(14)</td>
</tr>
</tbody>
</table>
### Table 1–7  Affected XML Elements

<table>
<thead>
<tr>
<th>Import</th>
<th>Elements</th>
<th>Maximum Column Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pricing Import</td>
<td>PricingImport &gt; PriceChange @ID</td>
<td>VARCHAR(20)</td>
</tr>
<tr>
<td></td>
<td>PricingImport &gt; PriceChange &gt; Item @ID</td>
<td>VARCHAR(14)</td>
</tr>
<tr>
<td></td>
<td>PricingImport &gt; PriceChange &gt; Item @TemplateType</td>
<td>VARCHAR(8)</td>
</tr>
<tr>
<td></td>
<td>PricingImport &gt; PriceChange</td>
<td>VARCHAR(8)</td>
</tr>
<tr>
<td></td>
<td>PricingImport &gt; PricePromotion @ID</td>
<td>VARCHAR(20)</td>
</tr>
<tr>
<td></td>
<td>PricingImport &gt; PricePromotion @TemplateType</td>
<td>VARCHAR(8)</td>
</tr>
<tr>
<td></td>
<td>PricingImport &gt; PricePromotion @TemplateType</td>
<td>VARCHAR(8)</td>
</tr>
<tr>
<td></td>
<td>DiscountRule &gt; Sources &gt; Source @ID</td>
<td>VARCHAR(14)</td>
</tr>
<tr>
<td></td>
<td>DiscountRule &gt; Targets &gt; Target @ID</td>
<td>VARCHAR(14)</td>
</tr>
<tr>
<td></td>
<td>DiscountRule &gt; Sources &gt; Source @ID</td>
<td>VARCHAR(14)</td>
</tr>
<tr>
<td></td>
<td>DiscountRule &gt; Sources &gt; Source @ID</td>
<td>VARCHAR(10)</td>
</tr>
<tr>
<td>Import</td>
<td>Elements</td>
<td>Maximum Column Size</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>--------------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Store Hierarchy Import</td>
<td>PreloadData &gt; StoreRegion &gt; RegionID VARCHAR(14)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; StoreRegion &gt; RegionName VARCHAR(120)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; StoreDistrict &gt; DistrictID VARCHAR(14)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; StoreDistrict &gt; RegionID VARCHAR(14)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; GeoCode VARCHAR(10)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; StoreDistrict &gt; DistrictName VARCHAR(120)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; LocationName VARCHAR(150)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; DistrictID VARCHAR(14)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; RegionID VARCHAR(14)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; GeoCode VARCHAR(10)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; AddressLine1 VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; AddressLine2 VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; AddressLine3 VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; City VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; State VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; PostalCode VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; Territory VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; Country VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; TelephoneCountryCode VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; TelephoneAreaCode VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; TelephoneLocalNumber VARCHAR(30)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HierarchyList &gt; Hierarchy@Name VARCHAR(120)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; LevelList &gt; Level@Name VARCHAR(120)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@Name VARCHAR(120)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@Description VARCHAR(250)</td>
<td></td>
</tr>
</tbody>
</table>
### Table 1–7  Affected XML Elements

<table>
<thead>
<tr>
<th>Import</th>
<th>Elements</th>
<th>Maximum Column Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tax Import</td>
<td>GEOCode &gt; GeoCodeID</td>
<td>VARCHAR(10)</td>
</tr>
<tr>
<td></td>
<td>GEOCode &gt; TaxJurisdictionName</td>
<td>VARCHAR(50)</td>
</tr>
<tr>
<td></td>
<td>GEOTaxJurisdiction &gt; GeoCodeID</td>
<td>VARCHAR(10)</td>
</tr>
<tr>
<td></td>
<td>TaxAuthority &gt; TaxAuthorityName</td>
<td>VARCHAR(40)</td>
</tr>
<tr>
<td></td>
<td>TaxAuthority &gt; GeoCodeID</td>
<td>VARCHAR(10)</td>
</tr>
<tr>
<td></td>
<td>TaxableGroup &gt; TaxGroupName</td>
<td>VARCHAR(120)</td>
</tr>
<tr>
<td></td>
<td>TaxableGroup &gt; TaxGroupDescription</td>
<td>VARCHAR(250)</td>
</tr>
<tr>
<td></td>
<td>TaxAuthority &gt; AddressLine</td>
<td>VARCHAR(30)</td>
</tr>
<tr>
<td></td>
<td>TaxAuthority &gt; City</td>
<td>VARCHAR(30)</td>
</tr>
<tr>
<td></td>
<td>TaxAuthority &gt; State</td>
<td>VARCHAR(30)</td>
</tr>
<tr>
<td></td>
<td>TaxAuthority &gt; PostalCode</td>
<td>VARCHAR(30)</td>
</tr>
<tr>
<td></td>
<td>TaxAuthority &gt; CountryCode</td>
<td>VARCHAR(30)</td>
</tr>
<tr>
<td></td>
<td>TaxGroupRule &gt; TaxTypeName</td>
<td>VARCHAR(30)</td>
</tr>
<tr>
<td></td>
<td>TaxGroupRule &gt; TaxRuleName</td>
<td>VARCHAR(40)</td>
</tr>
<tr>
<td></td>
<td>TaxGroupRule &gt; TaxRuleDescription</td>
<td>VARCHAR(250)</td>
</tr>
</tbody>
</table>
Integration Architecture

Strategic Store Solutions to Oracle Retail Sales Audit 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 logging the raw transaction data to the store database.

The major components of the Strategic Store Solutions to Oracle Retail Sales Audit integration are:

- **RTLog Export Daemon Technician**
  
  Processes configuration settings from the Store Sever Conduit XML file; settings include sleep interval, maximum number of transactions per batch, export directory name, object factory class names, and export configuration files names.

  Starts the RTLog Export Daemon Thread.

- **RTLog Export Daemon Thread**
  
  Starts the export process on a periodic basis based on the configured sleep interval. Calls the RTLog Batch Generator.

- **RTLog Batch Generator**
  
  Creates a list of transactions ready for export and calls the Export File Generator.

- **Export File Generator**
  
  Reads the transactions in the list and formats the export data based on the export configuration files.

In this integration, the Point-of-Service store server also maps the transaction object structure to RTLog format and places the RTLog-formatted transaction into a file. The individual components that comprise the RTLog generation are described in the following subsections.
**RTLog Batch Generator**

The RTLog Batch Generator is a Java class that reads transactions from the store database and creates a physical RTLog file. The file format follows the standards outlined in *Oracle Retail Merchandising System Operations Guide - Batch Overviews and Designs - Volume 1 Release 12.0.7*.

The RTLog Batch Generator consumes a configuration file that has the settings outlined in the following sections.

**Sleep Interval**

The RTLog batch generator runs in a daemon mode, which periodically outputs RTLog files created by pulling transactions from the database. In this configuration, Oracle Retail Sales Audit processes one or more RTLog files from any given store.

The default sleep interval value is 600 seconds. This value can be changed in the `StoreServerConduit.xml` file. See Table 5–4, "Store Server Conduit File" for more information.

**Maximum Transactions**

The Maximum Transactions setting puts a cap on the number of RTLog transactions read from the store database during a processing cycle. If the number of transaction available is less than the maximum transactions setting, the RTLog Batch Generator reads the number of transactions available.

If Maximum Transactions is set to -1, then there is no limit to the number of RTLog transactions.

**Oracle Retail Sales Audit**

The Oracle Retail Sales Audit system is responsible for sales audit functionality at the store and at the corporate level. Store operations make use of Oracle Retail Sales Audit’s functionality to determine over/short situations in stores, and make the necessary adjustments to raw transaction data in order to ensure integrity of data being sent to backend merchandising and store inventory systems.

Oracle Retail Sales Audit consumes unaudited transaction data in RTLog batch format. It then subjects the transaction data to numerous checks, and indicates exceptional conditions leading to out-of-balance situations. The Oracle Retail Sales Audit system outputs cleansed or audited RTLog data to be consumed by Oracle Retail Merchandising System (RMS), Oracle Retail Price Management (RPM), and Oracle Retail Store Inventory Management (SIM).

**Data Import**

The Data Import (DIMP) utility is the application that enables the import of data from both Oracle Retail Merchandising System and Oracle Retail Price Management to Point-of-Service.

---

**Note:** When discussing Data Import, functionality applies to both Oracle Retail Merchandising System and Oracle Retail Price Management.
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

Note: For ItemImport.xml, refer to the xsd. Some attributes are labeled required. All attributes listed as required in the xsd must be included in the ItemImport.xml file. See "Archive File Format" in Chapter 3 for more information about ItemImport.xml.

Note: 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.

Note: Taxation and Employee information are not provided by Oracle Retail Merchandising System or Oracle Retail Price Management. The Taxation and Employee information comes from third-party systems.

For more information, see “Third-party Tax and Employee Information” in Chapter 6.

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 results in an abort of the import of the rest of the files in the order.

There were no changes made to the base data model to support the new data import subsystem. However, a few tables have been added 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 bundle 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 file imports continue even if a data operation fails. In that case, the error is logged and 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

- 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, 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 PARTIALY 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**

```xml
<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**

```xml
<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>
```
RTLog Mapping and Translation

The following tables identify the changes to the RTLog codemapping that enables Oracle Retail Sales Audit to consume RTLogs generated by Strategic Store Solutions applications. This information is reference material as needed.

For more RTLog information, see the Oracle® Retail Merchandising System Operations Guide - Batch Overviews and Designs - Volume 1 Release 12.0.7.

**Note:** New Oracle Retail Sales Audit code is highlighted with *italics*. New Point-of-Service code is highlighted in **bold**.

<table>
<thead>
<tr>
<th>Table 2–1 TransactionType (TRAT)</th>
<th>TRAT (Static)</th>
<th>TRAS (Static) Sub-Transaction Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Sale</td>
<td>SALE</td>
<td>SALE</td>
</tr>
<tr>
<td>(2) Return</td>
<td>RETURN</td>
<td>RETURN</td>
</tr>
<tr>
<td>(3) Void</td>
<td>VOID</td>
<td>VOID</td>
</tr>
<tr>
<td>(4) NoSale</td>
<td>NOSALE</td>
<td>NOSALE</td>
</tr>
<tr>
<td>(6) OpenStore</td>
<td>OPEN</td>
<td>OSTORE</td>
</tr>
<tr>
<td>(7) CloseStore</td>
<td>DCLOSE</td>
<td>DSTORE</td>
</tr>
<tr>
<td>(8) OpenRegister</td>
<td>OPEN</td>
<td>OREG</td>
</tr>
<tr>
<td>(9) CloseRegister</td>
<td>CLOSE</td>
<td>CRGRC</td>
</tr>
<tr>
<td>(10) OpenTill</td>
<td>OPEN</td>
<td>OTILL</td>
</tr>
<tr>
<td>(11) CloseTill</td>
<td>CLOSE</td>
<td>CTILL</td>
</tr>
<tr>
<td>(12) LoanTill</td>
<td>LOAN</td>
<td>LOTILL</td>
</tr>
<tr>
<td>(13) PickupTill</td>
<td>PULL</td>
<td>PUTILL</td>
</tr>
<tr>
<td>(14) SuspendTill</td>
<td>NOSALE</td>
<td>STILL</td>
</tr>
<tr>
<td>(15) ResumeTill</td>
<td>NOSALE</td>
<td>RTILL</td>
</tr>
<tr>
<td>(16) PayinTill</td>
<td>PAIDIN</td>
<td>PITILL</td>
</tr>
<tr>
<td>(17) PayoutTill</td>
<td>PAIDOU</td>
<td>POTILL</td>
</tr>
<tr>
<td>(18) HousePayment</td>
<td>PAIDIN</td>
<td>HOUSE</td>
</tr>
<tr>
<td>(19) LayawayInitiate</td>
<td>PAIDIN</td>
<td>LAYINT</td>
</tr>
<tr>
<td>(20) LayawayComplete</td>
<td>SALE</td>
<td>LAYCMP</td>
</tr>
<tr>
<td>(21) LayawayPayment</td>
<td>PAIDIN</td>
<td>LAYPAY</td>
</tr>
<tr>
<td>(22) LayawayDelete</td>
<td>PAIDOU</td>
<td>LAYDEL</td>
</tr>
<tr>
<td>(23) OrderInitiate</td>
<td>PAIDIN</td>
<td>ORDINT</td>
</tr>
<tr>
<td>(24) OrderComplete</td>
<td>SALE</td>
<td>ORDCOMP</td>
</tr>
<tr>
<td>(25) OrderCancel</td>
<td>PAIDOU</td>
<td>ORDCAN</td>
</tr>
<tr>
<td>(26) OrderPartial</td>
<td>SALE</td>
<td>ORDPAR</td>
</tr>
</tbody>
</table>
Table 2–1  TransactionType (TRAT)

<table>
<thead>
<tr>
<th>TransactionType</th>
<th>TRAT (Static)</th>
<th>TRAS (Static) Sub-Transaction Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>(27) BankDepositStore</td>
<td>NOSALE</td>
<td>BANK</td>
</tr>
<tr>
<td>(35) Instant Credit Enrollment</td>
<td>NOSALE</td>
<td>INSCRE</td>
</tr>
<tr>
<td>(36) Redeem</td>
<td>RETURN</td>
<td>REDEEM</td>
</tr>
<tr>
<td>(37) Enter Training Mode</td>
<td>NOSALE</td>
<td>NTRAIN</td>
</tr>
<tr>
<td>(38) Exit Training Mode</td>
<td>NOSALE</td>
<td>XTRAIN</td>
</tr>
<tr>
<td>(40) Payroll Payout</td>
<td>PAIDOU</td>
<td>PAYOUT</td>
</tr>
<tr>
<td>(41) Enter Transaction Reentry</td>
<td>NOSALE</td>
<td>NTRENT</td>
</tr>
<tr>
<td>(42) Exit Transaction Reentry</td>
<td>NOSALE</td>
<td>XTRENT</td>
</tr>
<tr>
<td>Any transaction where Transaction.TransactionStatusCode = (3) Canceled</td>
<td>VOID</td>
<td>CANCEL</td>
</tr>
<tr>
<td>Any transaction where Transaction.TrainingMode= 'ON</td>
<td>NOSALE</td>
<td>TRAIN</td>
</tr>
<tr>
<td>Any transaction where Transaction.TransactionStatusCode = (4) Suspend Transaction</td>
<td>NOSALE</td>
<td>SUSPND</td>
</tr>
</tbody>
</table>

Note: (4) Suspend Transactions get sent in the RTLog. Subsequent resume or cancel actions simply change the transaction status code to (6) Resume Transaction or (7) Canceled Suspended Transaction. A new transaction is not created, hence no subsequent RTLog record, except if the Suspended Transaction is Resumed then SOLD, upon which a SALE transaction is created.

Table 2–2  ReasonCode (REAC)

<table>
<thead>
<tr>
<th>Reason entered by cashier for some transaction types. Required for Paid In and Paid out transaction types, but can also be used for voids, returns, and so forth.</th>
<th>REAC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Till.TillPayInReasonCodes (53) BadCheckPayment</td>
<td>NSF</td>
<td>NSF Check Payment</td>
</tr>
<tr>
<td>Till.TillPayInReasonCodes(54) VendingMachineRevenue</td>
<td>TPIVMR</td>
<td>TillPayIn VendingMachineRevenue</td>
</tr>
<tr>
<td>Till.TillPayInReasonCodes(55) Miscellaneous</td>
<td>TPIMSC</td>
<td>TillPayIn Miscellaneous</td>
</tr>
<tr>
<td>Till.TillPayrollPayOutReasonCodes (1) PayrollAdvance</td>
<td>PAYRL</td>
<td>Payroll Payout</td>
</tr>
<tr>
<td>Till.TillPayrollPayOutReasonCodes (2) FinalPay</td>
<td>PAYRL</td>
<td>Payroll Payout</td>
</tr>
<tr>
<td>Till.TillPayOutReasonCodes (56) Postage</td>
<td>TPOP</td>
<td>TillPayOut Postage</td>
</tr>
<tr>
<td>Till.TillPayOutReasonCodes (57) Supplies</td>
<td>TPOS</td>
<td>TillPayOut Supplies</td>
</tr>
<tr>
<td>Till.TillPayOutReasonCodes (58) Entertainment</td>
<td>TPOE</td>
<td>TillPayOut Entertainment</td>
</tr>
</tbody>
</table>
### Table 2–2  ReasonCode (REAC)

Reason entered by cashier for some transaction types. Required for Paid In and Paid out transaction types, but can also be used for voids, returns, and so forth.

<table>
<thead>
<tr>
<th>ReasonCode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sale.NoSaleReasonCodes(2) ChangeForRegister</td>
<td>NSCFR</td>
</tr>
<tr>
<td>Sale.PostVoidReasonCodes(1) IncorrectPrice</td>
<td>PVIP</td>
</tr>
<tr>
<td>Sale.PostVoidReasonCodes(2) DiscountIncorrect</td>
<td>PVDI</td>
</tr>
<tr>
<td>Sale.PostVoidReasonCodes(3) CustomerChangedMind</td>
<td>PVCCM</td>
</tr>
<tr>
<td>Sale.PostVoidReasonCodes(4) AssociateError</td>
<td>PVAE</td>
</tr>
<tr>
<td>Sale.PostVoidReasonCodes(5) OtherFormPayment</td>
<td>PVO FP</td>
</tr>
<tr>
<td>Sale.PostVoidReasonCodes(6) Other</td>
<td>PVO</td>
</tr>
<tr>
<td>Where transaction type = (18) House Payment</td>
<td>HOUSE</td>
</tr>
<tr>
<td>Where transaction type = (19) Layaway Initiate</td>
<td>LAYINT</td>
</tr>
<tr>
<td>Where transaction type = (21) Layaway Payment</td>
<td>LAYPAY</td>
</tr>
<tr>
<td>Where transaction type = (23) Order Initiate</td>
<td>ORDINT</td>
</tr>
<tr>
<td>Where transaction type = (22) Layaway Delete</td>
<td>LAYDEL</td>
</tr>
<tr>
<td>Where transaction type = (25) Order Cancel</td>
<td>ORD CAN</td>
</tr>
</tbody>
</table>

### Table 2–3  OverrideReasonCodes (ORRC)

Reason an item price is overridden at the Point-of-Service. ORRC Dynamic

<table>
<thead>
<tr>
<th>Reason</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3) Defective</td>
<td>D</td>
</tr>
<tr>
<td>(5) SignageError</td>
<td>S</td>
</tr>
<tr>
<td>(2) CompetitionPrice</td>
<td>CP</td>
</tr>
<tr>
<td>(1) AdPrice</td>
<td>AP</td>
</tr>
<tr>
<td>(4) ManagersSpecial</td>
<td>MS</td>
</tr>
</tbody>
</table>

### Table 2–4  ReturnReasonCodes (SARR)

The reason an item is returned. SARR Dynamic

<table>
<thead>
<tr>
<th>Reason</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>(33) Defective</td>
<td>01</td>
</tr>
<tr>
<td>(33) Defective</td>
<td>02</td>
</tr>
</tbody>
</table>
### Table 2–4 ReturnReasonCodes (SARR)
The reason an item is returned. | SARR | Dynamic
--- | --- | ---
(11) WrongColor | 06 | Color Not As Shown
(45) CustomerChangedMind | 19 | CustomerChangedMind
(55) PriceAdjustment | 20 | PriceAdjustment

### Table 2–5 SADT
The type of discount within a promotion. | SADT | Dynamic
--- | --- | ---
(2402,2006,2303,2105) Saturday Morning Special | SATSPL | Saturday Morning Special
(2410,2014,2311,2113) Senior Citizen | SENCIT | Senior Citizen
(2428,2022,2329,2121) Competition Special | CMPSPL | Competition Special
(2436,2030,2337,2139) Store Coupon | SCOUP | Store Coupon
Employee Discount (Generated when the Employee discount button is pushed in POS. The EmployeeID receiving the discount is recorded in the SaleReturnPriceModifier table.) | EMPDSC | Employee Discount

### Table 2–6 TaxCode (TAXC)
Tax code to represent whether it is a state tax type, provincial tax, and so forth. | TAXC | Dynamic
--- | --- | ---
TOTTAX | TOTTAX | Aggregate total of tax excluding VAT

### Table 2–7 TenderTypes (TENT)
High-level grouping of tender types. | TENT | Static
--- | --- | ---
CASH Cash | CASH | Cash
CRDT Credit Card | CCARD | Credit Card
CHECK Check | CHECK | Personal Check
ECHK E-Check | CHECK | Personal Check
TRAV Travelers Check | CHECK | Personal Check
MBCK Mail Bank Check | CHECK | Personal Check
QPON Manufacturers Coupon | COUPON | Coupon
DBIT Debit Card | DCARD | Debit Card
MNYO Money Order | MORDER | Money Order
GCRD Gift Card | VOUCH | Voucher (gift cert. or credit)
GICT Gift Certificate | VOUCH | Voucher (gift cert. or credit)
STCR Store Credit | VOUCH | Voucher (gift cert. or credit)
MACT Mall Certificate | VOUCH | Voucher (gift cert. or credit)
PRCH Purchase Order | VOUCH | Voucher (gift cert. or credit)
VOUCH Voucher | VOUCH | Voucher (gift cert. or credit)
<table>
<thead>
<tr>
<th>Tender Type ID</th>
<th>POS_TENDER_TYPE_HEAD</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CASH Cash</td>
<td>1000 CASH Cash - primary currency</td>
<td></td>
</tr>
<tr>
<td>CHCK Check</td>
<td>2000 CHECK Personal Check</td>
<td></td>
</tr>
<tr>
<td>TRAV Travelers Check</td>
<td>2020 CHECK Traveler Check</td>
<td></td>
</tr>
<tr>
<td>QPON Manufacturers Coupon</td>
<td>5000 COUPON Manufacturers Coupons</td>
<td></td>
</tr>
<tr>
<td>DBIT Debit Card</td>
<td>8000 DCARD Debit Card</td>
<td></td>
</tr>
<tr>
<td>MNYO Money Order</td>
<td>6000 MORDER Money Orders</td>
<td></td>
</tr>
<tr>
<td>GICT Gift Certificate</td>
<td>4030 VOUCH Gift Certificate</td>
<td></td>
</tr>
<tr>
<td>GCRD Gift Card</td>
<td>4040 VOUCH Gift Card</td>
<td></td>
</tr>
<tr>
<td>STCR Store Credit</td>
<td>4060 VOUCH Store Credit Certificate</td>
<td></td>
</tr>
<tr>
<td>PRCH Purchase Order</td>
<td>4070 VOUCH Purchase Order</td>
<td></td>
</tr>
<tr>
<td>VOUCH Voucher</td>
<td>4080 VOUCH PrePaid</td>
<td>Use for Orders and Layaways</td>
</tr>
<tr>
<td>ECHK E-Check</td>
<td>2030 CHECK E-Check</td>
<td></td>
</tr>
<tr>
<td>MBCK Mail Bank Check</td>
<td>2040 CHECK Mail Bank Check</td>
<td></td>
</tr>
<tr>
<td>Visa</td>
<td>3000 CCARD Visa</td>
<td></td>
</tr>
<tr>
<td>MasterCard</td>
<td>3010 CCARD Mastercard</td>
<td></td>
</tr>
<tr>
<td>AmEx</td>
<td>3020 CCARD American Express</td>
<td></td>
</tr>
<tr>
<td>Discover</td>
<td>3030 CCARD Discover</td>
<td></td>
</tr>
<tr>
<td>DinersClub</td>
<td>3040 CCARD Diners Club - N. America</td>
<td></td>
</tr>
<tr>
<td>HouseCard</td>
<td>3120 CCARD House Card</td>
<td></td>
</tr>
<tr>
<td>JCB</td>
<td>3130 CCARD JCB</td>
<td></td>
</tr>
<tr>
<td>CASH Cash Alternate Currency</td>
<td>1010 CASH Cash Alternate Currency</td>
<td></td>
</tr>
<tr>
<td>CHCK Check Alternate Currency</td>
<td>2050 CHECK Personal Check Alternate Currency</td>
<td></td>
</tr>
<tr>
<td>TRAV Travelers Check Alternate Currency</td>
<td>2060 CHECK Travelers Check Alternate Currency</td>
<td></td>
</tr>
<tr>
<td>STCR Store Credit Alternate Currency</td>
<td>4090 VOUCH Store Credit Alternate Currency</td>
<td></td>
</tr>
<tr>
<td>GICT Gift Certificate</td>
<td>4100 VOUCH Gift Certificate Alternate Currency</td>
<td></td>
</tr>
</tbody>
</table>
### Table 2–9  CCEM

<table>
<thead>
<tr>
<th>Credit card input type</th>
<th>CCEM</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual</td>
<td>T</td>
<td>Terminal Used</td>
</tr>
<tr>
<td>MSR</td>
<td>MSR</td>
<td>Magnetic Strip Read</td>
</tr>
</tbody>
</table>

### Table 2–10  Unit of Measure

<table>
<thead>
<tr>
<th>Unit of Measure</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>'LF' 'linear feet'</td>
<td></td>
<td>'LF' 'linear feet'</td>
</tr>
<tr>
<td>'LM' 'linear meters'</td>
<td></td>
<td>'LM' 'linear meters'</td>
</tr>
<tr>
<td>'PN' 'pounds net'</td>
<td></td>
<td>'LBS' 'POUNDS'</td>
</tr>
<tr>
<td>'KG' 'kilograms'</td>
<td></td>
<td>'KG' 'KILOGRAM'</td>
</tr>
<tr>
<td>'UN' 'units'</td>
<td></td>
<td>'EA' 'EACH'</td>
</tr>
</tbody>
</table>

### Table 2–11  Total ID for TOTAL type transactions

<table>
<thead>
<tr>
<th>Total ID (Reference Number 1) for TOTAL type transactions.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 CASH Cash - primary currency</td>
<td>CASH</td>
</tr>
<tr>
<td>2000 CHECK Personal Check</td>
<td>CHECK</td>
</tr>
<tr>
<td>2020 CHECK Traveler Check</td>
<td>TRAVCHK</td>
</tr>
<tr>
<td>5000 COUPON Manufacturers Coupons</td>
<td>QPON</td>
</tr>
<tr>
<td>8000 DCARD Debit Card</td>
<td>DEBITCARD</td>
</tr>
<tr>
<td>6000 MORDER Money Orders</td>
<td>MNYORDER</td>
</tr>
<tr>
<td>4030 VOUCH Gift Certificate</td>
<td>GIFTCERT</td>
</tr>
<tr>
<td>4040 VOUCH Gift Card</td>
<td>GIFTCARD</td>
</tr>
<tr>
<td>4050 VOUCH Store Credit</td>
<td>STCREDIT</td>
</tr>
<tr>
<td>4060 VOUCH Mall Certificate</td>
<td>MALLCERT</td>
</tr>
<tr>
<td>4070 VOUCH Purchase Order</td>
<td>PRCHORDER</td>
</tr>
<tr>
<td>2030 CHECK E-Check</td>
<td>ECHECK</td>
</tr>
<tr>
<td>2040 CHECK Mail Bank Check</td>
<td>MBCHECK</td>
</tr>
<tr>
<td>3000 CCARD Visa</td>
<td>CCARDVisa</td>
</tr>
<tr>
<td>3010 CCARD Mastercard</td>
<td>CCARDMCard</td>
</tr>
<tr>
<td>3020 CCARD American Express</td>
<td>CCARDAmEx</td>
</tr>
<tr>
<td>3030 CCARD Discover</td>
<td>CCARDDisc</td>
</tr>
<tr>
<td>3040 CCARD Diners Club - N. America</td>
<td>CCARDDiner</td>
</tr>
<tr>
<td>3120 CCARD House Card</td>
<td>CCARDHCard</td>
</tr>
<tr>
<td>3130 CCARD JCB</td>
<td>CCARDJCB</td>
</tr>
<tr>
<td>1010 CASH Cash Alternate Currency</td>
<td>CASHAC</td>
</tr>
<tr>
<td>2050 CHECK Personal Check Alternate Currency</td>
<td>PCHECKAC</td>
</tr>
<tr>
<td>2060 CHECK Alternate Currency</td>
<td>TCHECKAC</td>
</tr>
<tr>
<td>4090 VOUCH Store Credit Alternate Currency</td>
<td>STCRDTAC</td>
</tr>
<tr>
<td>4100 VOUCH Gift Certificate Alternate Currency</td>
<td>GIFTCERTAC</td>
</tr>
</tbody>
</table>
The Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management integration is intended to provide integration for Oracle Retail Point-of-Service application to interact with Oracle Retail Store Inventory Management application for inventory information.

This feature is provided to enable Oracle Retail 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 Oracle Retail Point-of-Service Client only when the Oracle Retail Point-of-Service Client is in the ONLINE mode.

There is a need for operators at the Point-of-Service to check the item inventory from Oracle Retail Point-of-Service Client. The item inventory information is not available in stores server database; therefore, Oracle Retail Point-of-Service System is unable to get item inventory information. The Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management integration is intended to integrate Oracle Retail Point-of-Service with the Oracle Retail Store Inventory Management to get item inventory information. Oracle Retail Point-of-Service gets the item information and stores information from the stores database and interacts with Oracle Retail Store Inventory Management for item inventory information.

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

1. Expose the item inventory information from Oracle Retail Store Inventory Management in the form of Web service.
2. Provide new tour for item inventory inquiry in Oracle Retail Point-of-Service.
3. Provide pluggable inventory lookup interface to integrate Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management.
4. Oracle Retail Point-of-Service Client interacts with Oracle Retail Point-of-Service Server over RMI as in the existing Oracle Retail Point-of-Service architecture. Oracle Retail Point-of-Service Server interacts with inventory lookup interface to interact with Oracle Retail Store Inventory Management.

### Table 2–12 PRMT

<table>
<thead>
<tr>
<th>The RMS promotion type.</th>
<th>PRMT</th>
<th>Static</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computed</td>
<td>1004</td>
<td>In Store Discount</td>
</tr>
<tr>
<td>Computed</td>
<td>1005</td>
<td>Employee Discount</td>
</tr>
<tr>
<td>Computed</td>
<td>9999</td>
<td>Promotion</td>
</tr>
</tbody>
</table>

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

The Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management integration is intended to provide integration for Oracle Retail Point-of-Service application to interact with Oracle Retail Store Inventory Management application for inventory information.

This feature is provided to enable Oracle Retail 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 Oracle Retail Point-of-Service Client only when the Oracle Retail Point-of-Service Client is in the ONLINE mode.

There is a need for operators at the Point-of-Service to check the item inventory from Oracle Retail Point-of-Service Client. The item inventory information is not available in stores server database; therefore, Oracle Retail Point-of-Service System is unable to get item inventory information. The Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management integration is intended to integrate Oracle Retail Point-of-Service with the Oracle Retail Store Inventory Management to get item inventory information. Oracle Retail Point-of-Service gets the item information and stores information from the stores database and interacts with Oracle Retail Store Inventory Management for item inventory information.

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4. Oracle Retail Point-of-Service Client interacts with Oracle Retail Point-of-Service Server over RMI as in the existing Oracle Retail Point-of-Service architecture. Oracle Retail Point-of-Service Server interacts with inventory lookup interface to interact with Oracle Retail Store Inventory Management.
The Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management integration system is broken into four main sub-systems:

**ORPOS Client**
Changes to the Oracle Retail Point-of-Service Client to incorporate new inventory lookup tour and new component PSIManager for interaction with PSITechnician for Item inventory lookup.
**Oracle Retail Point-of-Service Server**
New Component PSITechnician is added in Oracle Retail Point-of-Service Server. PSITechnician interacts with PSIInventoryWS_Stub to call InventoryWS over intranet using HTTP/SOAP protocol.

**ORSIM Server**
InventoryWS component deployed in Oracle Retail Store Inventory Management Server provides item inventory information. InventoryWS gets item inventory information from ORSIM DB.

**ORSIM DB**
Oracle Retail 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**
Oracle Retail Point-of-Service to Oracle Retail 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.

However, the logging level can be configured with log4j.xml.
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 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 configuration file. No additional code changes are necessary.

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

\[\text{Note:} \quad 1 \text{ to } 2^{264} - 1 \text{ is the logical range of the batchSize, though database performance may require the upper limit to be much smaller than that. Only the implementation team will be able to determine what the actual upper limit should be based upon database performance.}\]

<table>
<thead>
<tr>
<th>Spring bean ID</th>
<th>Provided implementation</th>
<th>Default Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>service_</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MerchandiseHierarchyImportTranslator</td>
<td>com.360commerce.commerceservices.item.hierarchy.importdata.MerchandiseHierarchyImportTranslator</td>
<td>batchSize=1000</td>
</tr>
<tr>
<td>service_</td>
<td></td>
<td></td>
</tr>
<tr>
<td>StoreHierarchyImportTranslator</td>
<td>com.360commerce.commerceservices.store.hierarchy.importdata.StoreHierarchyImportTranslator</td>
<td>batchSize=1000</td>
</tr>
<tr>
<td>service_TaxImportTranslator</td>
<td>com.360commerce.commerceservices.tax.importdata.TaxImportTranslator</td>
<td>batchSize=1000</td>
</tr>
<tr>
<td>service_</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EmployeeImportTranslator</td>
<td>com.360commerce.commerceservices.employee.importdata.EmployeeImportTranslator</td>
<td>batchSize=1000</td>
</tr>
</tbody>
</table>
Data Import Spring Configurations

These setting 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.

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

The following servlet should also be configured to start up automatically. The servlet loads the context configuration files. Because the schedulingContext-quartz.xml file is configured in the context, this file is loaded by the servlet. SchedulerFactoryBean is configured to start on load; hence it is invoked and starts the scheduler timer.

```xml
<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

<table>
<thead>
<tr>
<th>Spring bean ID</th>
<th>Provided implementation</th>
<th>Default Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>persistence_ImportController</td>
<td>com._360commerce.commerceservices.importdata.ImportController</td>
<td>batchSize=1000</td>
</tr>
<tr>
<td>persistence_MerchandiseHierarchyImportDAO</td>
<td>com._360commerce.commerceservices.item.hierarchy.importdata.dao.MerchandiseHierarchyImportDAO</td>
<td>dataSource=persistence_dataSource</td>
</tr>
</tbody>
</table>
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 are also using the same. However, 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. It is the responsibility of the translator to call setBatchSize(int) with that value onto the ImportController.

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.

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

You can find the spring.properties in the following location:

<INSTALL_DIR>/profiles/AppSrv01/properties

The following is an example spring.properties file:

```ini
# Global settings (applicable to OC4J and WAS)
#
#
# directory in which incoming data import bundles arrive
importdata.file.path=C:/temp/dataimport/incoming
```

<table>
<thead>
<tr>
<th>Table 3–2</th>
<th>Additional Spring Bean IDs Used For Each Of The Pluggable Components</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spring bean ID</strong></td>
<td><strong>Provided implementation</strong></td>
</tr>
<tr>
<td>persistence_StoreHierarchyImportDAOTarget</td>
<td>com._360commerce.commerceservices.store.hierarchy.importdata.dao.StoreHierarchyImportDAO</td>
</tr>
<tr>
<td>persistence_TaxImportDAOTarget</td>
<td>com._360commerce.commerceservices.tax.importdata.dao.TaxImportDAO</td>
</tr>
<tr>
<td>persistence_EmployeeImportDAOTarget</td>
<td>com._360commerce.commerceservices.employee.importdata.dao.EmployeeImportDAO</td>
</tr>
</tbody>
</table>

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.

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.
# 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

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

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

eexecute.import determines whether or not data imports execute in the environment. Its default is false.

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.

Oracle Retail Strategic Store Solutions to Oracle Retail Store Inventory Management Spring Configurations

The PSIInventoryLookupService bean is configured as Singleton in ServiceContext.xml.

New datasets added to ServiceContext.xml file to provide offline capability to advanced item search feature.
### Archive File Format

The Archive File is of the following format:

```plaintext
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```

### Table 3–3 Spring Bean IDs Used for Each of the Pluggable Components

<table>
<thead>
<tr>
<th>Spring Bean ID</th>
<th>Purpose Provided</th>
<th>Implementation</th>
<th>Configurable Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>service_MerchandiseProducer</code></td>
<td>DataSet Key definition for Merchandise</td>
<td>com.extendyourstore.domain.iddi.</td>
<td>dataSetKey (service_config_MER_KEY) dataExportFilePath</td>
</tr>
<tr>
<td></td>
<td>DataSetProducer</td>
<td>MerchandiseDataSetProducer</td>
<td>dataSetExportZipFilePath dataExport ZipFilePath (service_config_DataExportZipFilePath) dataWriter(service_FileWriter)</td>
</tr>
<tr>
<td><code>service_StoreInfoProducer</code></td>
<td>DataSet Key definition for StoreInfo</td>
<td>com.extendyourstore.domain.iddi.</td>
<td>dataSetKey(service_config_STORE_KEY) dataExportFilePath dataExportZipFilePath dataWriter(service_FileWriter)</td>
</tr>
<tr>
<td></td>
<td>DatasetProducer</td>
<td>StoreInfoDataSetProducer</td>
<td>dataSetExportZipFilePath dataWriter(service_FileWriter)</td>
</tr>
<tr>
<td><code>service_MerchandiseConsumer</code></td>
<td>DataSet Key definition for Merchandise Hierarchy</td>
<td>com.extendyourstore.domain.iddi.</td>
<td>dataSetKey(service_config_MER_KEY) dataImportFilePath dataImportHelper(service_OfflineDBHelper)</td>
</tr>
<tr>
<td></td>
<td>DataSetConsumer</td>
<td>MerchandiseDataSetConsumer</td>
<td>dataSetImportFilePath dataImportHelper(service_OfflineDBHelper)</td>
</tr>
<tr>
<td><code>service_StoreInfoConsumer</code></td>
<td>DataSet Key definition for StoreInfo</td>
<td>com.extendyourstore.domain.iddi.</td>
<td>dataSetKey(service_config_STORE_KEY) dataImportFilePath dataImportHelper(service_OfflineDBHelper)</td>
</tr>
<tr>
<td></td>
<td>DatasetConsumer</td>
<td>StoreInfoDataSetConsumer</td>
<td>dataSetImportFilePath dataImportHelper(service_OfflineDBHelper)</td>
</tr>
<tr>
<td><code>service_config_MER_KEY</code></td>
<td>DataSet key Configuration</td>
<td>java.lang.String</td>
<td>None</td>
</tr>
<tr>
<td><code>service_config_PROMO_KEY</code></td>
<td>DataSet key Configuration</td>
<td>java.lang.String</td>
<td>None</td>
</tr>
<tr>
<td><code>service_config_STORE_KEY</code></td>
<td>DataSet key Configuration</td>
<td>java.lang.String</td>
<td>None</td>
</tr>
<tr>
<td><code>service_PSIInventoryLookup</code></td>
<td>Bean definition for PSIInventoryLookupService</td>
<td>PSIInventoryLookupService</td>
<td>None</td>
</tr>
</tbody>
</table>

These settings can be found in the `ServiceContext.xml` file packaged in the `config.jar` under the `/config/context` package.
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: <filname1>[<optional dependencies>]
...
FileN: <filnameN>[<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 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
```
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
File1: ItemImportSample_addCoupon.xml[]
File2: PricingImportSample_addCouponDiscount.xml[ItemImportSample_addCoupon.xml]

# 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]

Oracle Retail Merchandising System Configuration

If the retailer is integrating with Oracle Retail Merchandising System, it is assumed
that the retailer is setting up items within Oracle Retail 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 Oracle Retail Merchandising System.

Some data fields are defaulted to the values shown in Table 3–4.

<table>
<thead>
<tr>
<th>Back Office Data Field</th>
<th>Default Value when integrating with Oracle Retail Merchandising System or Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>0</td>
</tr>
<tr>
<td>Class</td>
<td>Items belong to one class only</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Null</td>
</tr>
<tr>
<td>Planogram</td>
<td>Null</td>
</tr>
<tr>
<td>Labels/Tags Template Type</td>
<td>Default</td>
</tr>
<tr>
<td>Serialized</td>
<td>FALSE</td>
</tr>
<tr>
<td>Restocking Fee</td>
<td>FALSE</td>
</tr>
<tr>
<td>Activation Required</td>
<td>No</td>
</tr>
</tbody>
</table>
Service items (non-merchandise items that are non-inventory) need to be loaded separate from the download process.

In Oracle Retail Merchandising System, differentiators 1 through 4 are sent as values and are mapped to STYLE, COLOR, SIZE and NULL in Point-of-Service.

### Oracle Retail Price Management Configuration

If the retailer is integrating with Oracle Retail Price Management, it is assumed that the retailer is setting up items within Oracle Retail Price Management, 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 Oracle Retail Price Management.

#### Note:
You must edit the Data Definition Language (DDL) before building the store’s database when integrating with Oracle Retail Price Management.

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

```
-- Uncomment and use this index for Oracle Retail Price Management (RPM) 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 Oracle Retail Price Management IDs) create a unique index.

---

### Table 3–4  Oracle Retail Merchandising System Default Values in the Back Office Item Maintenance Screen

<table>
<thead>
<tr>
<th>Back Office Data Field</th>
<th>Default Value when integrating with Oracle Retail Merchandising System or Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registry Eligible</td>
<td>No</td>
</tr>
<tr>
<td>Special Order Eligible</td>
<td>No</td>
</tr>
<tr>
<td>Employee Discount Eligible</td>
<td>Yes</td>
</tr>
<tr>
<td>Damage Discount Eligible</td>
<td>Yes</td>
</tr>
<tr>
<td>Size Entry Required</td>
<td>No</td>
</tr>
<tr>
<td>Authorized for Sale</td>
<td>Active</td>
</tr>
<tr>
<td>Item Department</td>
<td>The first department in the drop down list.</td>
</tr>
<tr>
<td></td>
<td>If no Item Department is specified, then the value is defaulted to the first value in the drop down list.</td>
</tr>
</tbody>
</table>
In the first phase of the integration, some data fields are defaulted to the values shown in Table 3–5.

<table>
<thead>
<tr>
<th>Back Office Screen</th>
<th>Back Office Data Field</th>
<th>Default Value when integrating with Oracle Retail Price Management or Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discount Rule</td>
<td>Start Time</td>
<td>0:00</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>End Time</td>
<td>23:59:59</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Source</td>
<td>Promotions defined at Item Level only</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Target</td>
<td>Promotions defined at Item Level only</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Source Threshold</td>
<td>None</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Source Limit</td>
<td>None</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Target Threshold</td>
<td>None</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Target Limit</td>
<td>None</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Number of Times Per Transaction</td>
<td>-1</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Accounting Method</td>
<td>Discount</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Allow Source to Repeat</td>
<td>Yes</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Deal Distribution</td>
<td>Target</td>
</tr>
<tr>
<td>Discount Rule</td>
<td>Target Quantity</td>
<td>1</td>
</tr>
<tr>
<td>Price Maintenance</td>
<td>Start Time</td>
<td>0:00</td>
</tr>
<tr>
<td>Price Maintenance</td>
<td>End Time</td>
<td>23:59:59</td>
</tr>
<tr>
<td>Price Maintenance</td>
<td>Status</td>
<td>Back Office gets status from effective date and record descriptors</td>
</tr>
<tr>
<td>Price Maintenance</td>
<td>Template Type</td>
<td>Default</td>
</tr>
</tbody>
</table>
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.
- The TAX Import file is not part of the Import Bundle.
- 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>
<thead>
<tr>
<th>Type of Import</th>
<th>One-Record Size in Bytes</th>
<th>Peak Load (Number of Records)</th>
<th>Peak File Size in Bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>950.00</td>
<td>15,000,000.00</td>
<td>14,250,000,000.00</td>
</tr>
<tr>
<td>Pricing</td>
<td>1,600.00</td>
<td>820,000.00</td>
<td>1,312,000,000.00</td>
</tr>
<tr>
<td>Store</td>
<td>710.00</td>
<td>5,000.00</td>
<td>3,550,000.00</td>
</tr>
<tr>
<td>Merchandise</td>
<td>300.00</td>
<td>5,000.00</td>
<td>1,500,000.00</td>
</tr>
<tr>
<td>Employee</td>
<td>1,400.00</td>
<td>30.00</td>
<td>42,000.00</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Bundle Size (jar Size)</th>
<th>Assuming 60% Compression Ratio in creating a jar</th>
<th>9,340,255,200.00</th>
<th>Bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8,900.00</td>
<td>MB</td>
</tr>
<tr>
<td>Approximate Bundle Size</td>
<td></td>
<td>8.69</td>
<td>GB</td>
</tr>
</tbody>
</table>

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

### Table 4–3  Hard Drive Capacity

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

**Required Hard Drive Capacity (Approximate)**

80.00 GB

### Table 4–4  Item Import Data Volumes

<table>
<thead>
<tr>
<th>Data Volumes</th>
<th>Item</th>
<th>800,000 – 1.5 million for peak season</th>
<th>1.5 million</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5000 – 15,000 for delta</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Volumes</th>
<th>Item Location</th>
<th>See Item</th>
<th>See Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Volumes</td>
<td>Item (Merchandise) Hierarchy</td>
<td>number of departments</td>
<td>number of departments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>groups</td>
<td>number of groups</td>
</tr>
<tr>
<td>Data Volumes</td>
<td>Organizational (Store) Hierarchy</td>
<td>5000 stores, 6 levels</td>
<td>5000 stores, 6 levels</td>
</tr>
<tr>
<td></td>
<td></td>
<td>number of regions</td>
<td>number of regions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>number of districts per region</td>
<td>number of districts per region</td>
</tr>
<tr>
<td></td>
<td></td>
<td>number of stores per district.</td>
<td>number of stores per district.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Volumes</th>
<th>Tax data</th>
<th>See Item (since any tax info is limited to item related attributes such as tax group ID)</th>
<th>See Item (since any tax info is limited to item related attributes such as tax group ID)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>*Tax info does not come from Oracle Retail Merchandising System</td>
<td>*Tax info does not come from Oracle Retail Merchandising System</td>
</tr>
</tbody>
</table>

**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 XSD that the import data conforms to.
2. Generate sample XML based on the XSD. This can be done using the Eclipse EMF plug-in. See http://www.eclipse.org/
3. Map the XSD to the Data Model.
4. Create a Message Driven Bean and update the appropriate deployment descriptors.
5. Use SAXParserGenerator with XSD.
6. Use DAOGenerator to generate data access objects (DAO) for tables mapped to.
7. Rename DAO classes to match logical names of tables.
8. Delete duplicate DTOs or DAOs that might exist in other packages and that can be reused.
9. Update DAOIfc method parameters to pass actual DTO objects.
10. Remove column names from UPDATE_SQL that are not updated during update procedure from DAO and SQLIfc.
11. Update DAO get*Statement() methods to map DTO fields to PreparedStatement buckets.
12. 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:

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

**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**

```bash
<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**

```java
/**
 * 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**

```java
/**
 * 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
```
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.

```xml
<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">
    . . .
</ItemImport>
```

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.

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 Sales Audit Extension Points and Development
There are three distinct situations in which a implementation team would need to extend the functionality in the Export File Generator:

- Adding data elements to the RTLog Format.
- Creating an entirely new fixed length export format.
- Creating an entirely new export format which is not fixed length.

Adding Data Elements to the RTLog Format
To add VAT information added to the one or more of the reference fields in the Transaction Item record to the RTLog a implementation team takes the following steps:

1. Define the format of the VAT data.
2. Depending on the outcome of step 1, it might be advantageous to modify the definition of a Reference field in the Transaction Item record. This cause the creation of Acme-specific Export Format Configuration file. If this is desirable, copy RTLogFormat.xml to AcmeRTLogFormat.xml and make the modifications in this file.
3. Define how the columns in the table TR_LTM_SLS_RTN_TX map to the format defined in step 1.
4. Write a FieldMapper class called AcmeItemVATTax.java to perform the mapping.
5. Copy RTLogMappingConfig.xml to AcmeRTLogMappingConfig.xml and make the following change to the new file:
   ```xml
   <TABLE table="TR_LTM_SLS_RTN_TX">
     <MAP column="MO_TX_RTN_SLS" record="TransactionTax" field="TaxAmount" fieldMapper="com.acme.exportfile.RTLog.fieldmappers.AcmeItemVATTax" />
   </TABLE>
   ```
If the Reference field is partitioned correctly, and the values coming from the database to these new fields do not require manipulation, then it is possible that the FieldMapper class is not required.

**Blocking Transaction Export**

The RTLog file export feature processes all transactions. However, there may be some kinds of transactions that a customer does not want to send to ReSA. For example, the customer may not want Training Mode transactions to be sent to ReSA. Do the following to prevent the Training Mode transactions from being exported, for example:

1. Modify the RTLogMappingConfig.xml file. Replace the following code:

   ```xml
   <MAP column="FL_TRG_TRN" record="TransactionHeader"
   field="SubTransactionType">
   <VALUE_MAPPINGS handleNotFound="success">
   <VALUE_MAPPING DatabaseValue="1" RecordValue="TRAIN"/>
   </VALUE_MAPPINGS>
   </MAP>
   ```

   With these lines:

   ```xml
   <MAP column="FL_TRG_TRN" record="TransactionHeader"
   field="SubTransactionType"
   fieldMapper="oracle.retail.stores.exportfile.rtlog.fieldmappers.TrainingModeTransNotExportableMapper"/>
   ```

2. Add a FieldMapper called TrainingModeTransNotExportableMapper.java. This FieldMapper contains the following method:

   ```java
   public int map(String columnValue, Row row, ColumnMapIfc columnMap,
   FieldFormatIfc field, RecordFormatIfc record, EntityIfc entity,
   EntityMapperIfc entityMapper) throws ExportFileException
   {
   // The column is FL_TRG_TRN; it is a boolean where '1' indicates
   // the transaction was created in training mode.
   if (columnValue.equals('1'))
   {
   logger.warn("Not exporting training mode transactions due to a
duplicate transaction issue at ReSA.");
   RTLogMappingResultIfc results =
   (RTLogMappingResultIfc)entityMapper.getResults();
   results.setTransactionExportable(false);
   }
   return ColumnMapIfc.SUCCESS;
   }
   ```

**Creating a New Fixed Length Export Record Format**

Currently, Oracle Retail has only one way to send transactional data to a customer’s back end systems: POSLog. However, it is expensive and time consuming to extend POSLog, to explain it to customers and to develop the code that loads it into the customer back end.

It might be faster and cheaper to use the Export File Generator to generate the transaction log format that the customer is already consuming.

The generation of all three current formats (DTM for Central Office, POSLog for the customer back end, and RTLog for Oracle Retail Sales Audit) simultaneously has been tested in the development environment.
Here are the steps to create transaction log export code for "Acme", a generic customer:

1. Work with Acme developers to create a mapping document that describes the relationship between the Oracle database and the current Acme back end system/transaction log format. A mapping exercise of this type must be done even if the customer eventually chooses to use the POSLog to transfer the data. Understanding the customer’s current transaction log can provide valuable insight into the data requirements.

2. Construct an Acme-specific Export Format Configuration file which describes all the records in the Acme transaction log; call this file AcmeTLogFormatConfig.xml.

3. Create an Acme-specific Mapping configuration file; call this file AcmeTLogMappingConfig.xml.

4. Create an Acme-specific Entity Reader configuration file; call this file AcmeTLogExtractConfig.xml.

5. If Acme exports the RTLog for Oracle Retail Sales Audit, the RTLogExportDaemonTechnician and RTLogExportDaemonThread can still be used to export the Acme Tlog formatted data. Just create another entry in StoreServerConduit.xml with a different technician and daemon name. This entry looks like the following:

   <TECHNICIAN name="AcmeTLogExportDaemonTechnician"
                class="RTLogExportDaemonTechnician"
                package="com.extendyourstore.domain.manager.RTLog"
                export="Y">
     <PROPERTY propname="daemonClassName"
              propvalue="com.extendyourstore.domain.manager.RTLog.RTLogExportDaemonThread"/>
     <PROPERTY propname="daemonName"
              propvalue="AcmeTLogExportDaemon"/>
     .
     .
   </TECHNICIAN>


7. Determine the batch ID column to use for this process. By convention, DTM uses TR_TRN.ID_TLOG_BTCH, POSLog uses TR_TRN.ID_BTCH_ARCH, and RTLog uses ID_RTLOG_BTCH. If your system exports RTLog, you must override RTLogExportBatchGenerator.retrieveTransactionList() and RTLogDatabaseAdapter.postResults() to change the column your application uses.

8. Over the course of development add table names to AcmeTLogExtractConfig.xml, mapping information to AcmeTLogMappingConfig.xml. Write Acme-specific FieldMapperIfc and AccessorIfc classes.

9. It is necessary to create an Acme-specific implementation for the MappingResultIfc interface to hold the Acme transactional information. Call this class AcmeTLogMappingResult. This necessitates the creation of an Acme-specific EntityMappingObjectFactoryIfc class. Call this class AcmeEntityMappingObjectFactory.
10. It is necessary to create an Acme-specific implementation for the RecordFormatContentBuilderIfc to assemble the Acme-specific export records. Call this class AcmeTLogRecordFormatContentBuilder. This necessitates the creation of an Acme specific RecordFormatObjectFactoryIfc class called AcmeRecordFormatObjectFactory.

11. Modify StoreServerConduit.xml to use the AcmeEntityMappingObjectFactory and the AcmeRecordFormatObjectFactory when exporting the Acme TLog.

Exporting a Non-Fixed-Length Record Format

There are other styles of text besides fixed record length which have been used to transfer transactional information to the enterprise. For example: comma delimited, and tag and value. To support either of these you must complete all the steps in the previous section, as well as the following:

1. It is likely that you need additional information about the export file format. As a result you must add information to the Export Format Configuration file, and create an Acme-specific implementation of the RecordFormatConfiguratorIfc interface; call this class AcmeRecordFormatConfigurator.

2. The FieldFormat class formats its data based on the data type and generates a fixed length field. When all the fields in a record are aggregated, this creates a fixed length record. This class must be replaced by an Acme-specific implementation; call this class AcmeCommaDelimitedFieldFormat. It might also be necessary to create an Acme-specific implementation of RecordFormatIfc; call this class AcmeCommaDelimitedRecordFormat.

3. Modify AcmeRecordFormatObjectFactory to return AcmeRecordFormatConfigurator, AcmeCommaDelimitedFieldFormat, and AcmeCommaDelimitedRecordFormat.

Object Factories

Object factories provide system implementers with the means to replace base product implementations with classes that are more appropriate to their needs. The object factory classes appear as entries in configuration files, and often times a configuration file functions as an object factory. This section discusses the object factory aspects and the configuration aspects of the configuration files.
**StoreServerConduit.xml**

The Store Server Conduit file (`<root>\applications\pos\config\conduit\StoreServerConduit.xml`) defines at runtime the classes and configuration files that make up the managers and technicians in the Point-of-Service Store Server. One of the technicians it defines is the RTLogExportDaemonTechnician. Following are the classes the Store Server Conduit file defines for use when exporting the RTLog:

<table>
<thead>
<tr>
<th>Class Name</th>
<th>Interface Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTLogExportDaemonTechnician</td>
<td>RTLogExportDaemonTechnicianIfc</td>
<td>Sets up the RTLog Export Process. The Dispatcher instantiates this class and then sets all the other parameters this object. It is also responsible for managing the batch regeneration process.</td>
</tr>
<tr>
<td>RTLogExportDaemonThread</td>
<td>RTLogExportDaemonThreadIfc</td>
<td>Sleeps for a configurable amount of time, then wakes up and initiates the export process.</td>
</tr>
<tr>
<td>RTLogDatabaseAdapter</td>
<td>DatabaseEntityAdapterIfc</td>
<td>Provides access to the database for reading each transaction Entity. This particular implementation uses the DataManager/DataTechnician to retrieve this information.</td>
</tr>
<tr>
<td>RTLogEncryptingOutputAdapter</td>
<td>OutputAdapterIfc</td>
<td>Writes the RTLog file to the configured directory. This particular adapter encrypts the file as it writes the file to disk. There is another adapter, RTLogOutputAdapter, which writes the file in clear text.</td>
</tr>
<tr>
<td>RTLogEncryptionAdapter</td>
<td>EncryptionAdapterIfc</td>
<td>Provides access to the mechanisms for decrypting values which are encrypted in the database.</td>
</tr>
<tr>
<td>ExportFileConfiguration</td>
<td>ExportFileConfigurationIfc</td>
<td>Contains much of configuration information in the RTLogExportDaemonTechnician; the technician passes this object to the daemon, which passes it to the batch generator which passes it to the export file generator.</td>
</tr>
<tr>
<td>RTLogExportFileResultAuditLog</td>
<td>ExportFileResultAuditLogIfc</td>
<td>Formats the export result information for logging.</td>
</tr>
<tr>
<td>EntityMappingObjectFactory</td>
<td>EntityMappingObjectFactoryIfc</td>
<td>Instantiates the classes used to map the database Entity to the export file format.</td>
</tr>
<tr>
<td>RecordFormatObjectFactory</td>
<td>RecordFormatObjectFactoryIfc</td>
<td>Instantiates the classes used to setup and generate the export file format.</td>
</tr>
<tr>
<td>ExtractorObjectFactory</td>
<td>ExtractorObjectFactoryIfc</td>
<td>Instantiates the classes used to generate the database Entity.</td>
</tr>
<tr>
<td>RTLogCurrencyAdapter</td>
<td>CurrencyAdapterIfc</td>
<td>Provides currency services.</td>
</tr>
</tbody>
</table>
DomainObjectFactory
The DomainObjectFactory instantiates the RTLogExportBatchGeneratorIfc class. The RTLogExportBatchGenerator builds the WorkUnit (the list of transactions to export) and calls the WorkUnitController (ExportFileGenerator).

RTLogExportBatchGenerator also instantiates the ExportFileGeneratorIfc and the WorkUnitIfc. If you need a different implementation of either class, create a new implementation of RTLogExportBatchGenerator.

ExtractorObjectFactory
The ExtractorObjectFactory instantiates the classes that generate the database Entity class.

One item of note is that the application gains access to this factory through a singleton called ReplicationObjectFactoryContainer. All changes made to these classes must work for both DTM and Export File generation.

EntityMappingObjectFactory
The following table is a list of the classes this factory instantiates:

<table>
<thead>
<tr>
<th>Class Name</th>
<th>Interface Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MappingCatalogConfigurator</td>
<td>MappingCatalogConfiguratorIfc</td>
<td>Reads the mapping configuration file and builds an EntityMappingCatalogIfc object.</td>
</tr>
<tr>
<td>EntityMappingCatalog</td>
<td>EntityMappingCatalogIfc</td>
<td>Holds the information that describes the relationship between the tables and columns in the database to the records and fields in the export file. It contains a list of TableMaps and a map of Accessors.</td>
</tr>
<tr>
<td>TableMap</td>
<td>TableMapIfc</td>
<td>Contains a list of ColumnMaps associated with a table.</td>
</tr>
<tr>
<td>ColumnMap</td>
<td>ColumnMapIfc</td>
<td>Describes the relationship between a column and a field in a specific export record. It can contain a ValueMapping Hashmap and/or FieldMapper class to perform more complex mapping actions.</td>
</tr>
<tr>
<td>EntityMapper</td>
<td>EntityMapperIfc</td>
<td>Controls the mapping process. It stores the result in the MappingResultIfc object.</td>
</tr>
<tr>
<td>RTLogMappingResult</td>
<td>MappingResultIfc</td>
<td>Contains the result of Mapping an Entity to the Export File Format.</td>
</tr>
</tbody>
</table>
RTLogMappingConfig.xml

This configuration file is a factory for FieldMapperIfc and AccessorIfc classes.

The simplest mapping occurs when a value goes directly from a column to a field. However, many times the mapping between a column and a field is more complex. If code is required, the configuration file calls out a FieldMapperIfc class to perform this mapping task. A FieldMapperIfc is associated with a particular table/column record/field mapping.

The values in a particular record are built up by processing of each individual ColumnMapIfc objects. There is no guarantee that all the data for a particular export record resides in a single row in the database. In fact it is unlikely. For example, a row from the Tender Line Item Table supplies the tender amount, but a row from the Credit Debit Tender Line Item Table supplies authorization information. Much processing can take place in between the time that the application has access to each of these rows.

An AccessorIfc object knows how to locate a particular existing “working” export record in the MappingResultIfc object. If a record is not available, the AccessorIfc creates a new one and store it in the MappingResultIfc object.

RecordFormatObjectFactory

Following is a list of the classes this factory instantiates:

<table>
<thead>
<tr>
<th>Class Name</th>
<th>Interface Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FieldFormat (oracle.retail.stores.exportfile.formater)</td>
<td>FieldFormatIfc (oracle.retail.stores.exportfile.formater)</td>
<td>Contains the attributes associated with a field including name, value, starting index, length, and data type.</td>
</tr>
<tr>
<td>RecordFormat (oracle.retail.stores.exportfile.formater)</td>
<td>RecordFormatIfc (oracle.retail.stores.exportfile.formater)</td>
<td>Contains a list of FieldFormatIfc objects.</td>
</tr>
<tr>
<td>RecordFormatCatalog (oracle.retail.stores.exportfile.formater)</td>
<td>RecordFormatCatalogIfc (oracle.retail.stores.exportfile.formater)</td>
<td>Contains a list of RecordFormatIfc objects.</td>
</tr>
<tr>
<td>RecordFormatConfigurator (oracle.retail.stores.exportfile.formater)</td>
<td>RecordFormatConfiguratorIfc (oracle.retail.stores.exportfile.formater)</td>
<td>Reads the format configuration file and builds a RecordFormatCatalogIfc object.</td>
</tr>
<tr>
<td>RTLogRecordFormatContentBuilder (oracle.retail.stores.exportfile.rtlog)</td>
<td>RecordFormatContentBuilderIfc (oracle.retail.stores.exportfile.formater)</td>
<td>Converts MappingResultsIfc object into the text that is written to the export file.</td>
</tr>
<tr>
<td>RTLogItemContainedRecords (oracle.retail.stores.exportfile.rtlog)</td>
<td>ContainedRecordsIfc (oracle.retail.stores.exportfile.formater)</td>
<td>A list of records, such as discounts, that are a part of the item information.</td>
</tr>
<tr>
<td>RTLogTransactionContainedRecords (oracle.retail.stores.exportfile.rtlog)</td>
<td>ContainedRecordsIfc (oracle.retail.stores.exportfile.formater)</td>
<td>A list of records, such as header total records, that are part of a transaction.</td>
</tr>
</tbody>
</table>
Configuration

Each of the configuration files used by this feature (Store Server Conduit, Entity Reader Configuration, Mapping Configuration, and Record Format Configuration) has already been referred to in this document. This section describes them in more detail.

The Store Server Conduit File

The Store Server Conduit file (\root\applications\pos\config\conduit\StoreServerConduit.xml) defines the following settings for the RTLog Export process.

<table>
<thead>
<tr>
<th>Setting Name</th>
<th>Installed Product Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sleepInterval</td>
<td>600 (seconds)</td>
<td>The length of time between each execution of the RTLog export process.</td>
</tr>
<tr>
<td>exportDirectoryName</td>
<td>For example, POSLog</td>
<td>The directory where the RTLog is placed.</td>
</tr>
<tr>
<td>formatConfigurationFileName</td>
<td>../config/rtlog/RTLogFormat.xml</td>
<td>The relative or absolute path of the Export Format configuration file.</td>
</tr>
<tr>
<td>entityReaderConfigurationFileName</td>
<td>../config/rtlog/RTLogExtractConfig.xml</td>
<td>The relative or absolute path of the Entity Reader configuration file.</td>
</tr>
<tr>
<td>entityMappingConfigurationFileName</td>
<td>../config/rtlog/RTLogMappingConfig.xml</td>
<td>The relative or absolute path of the Mapping configuration file.</td>
</tr>
<tr>
<td>maximumTransactionsToExport</td>
<td>-1</td>
<td>The maximum number of transactions that should exported to single RTLog file. The value -1 indicates there is not limit on the maximum number.</td>
</tr>
</tbody>
</table>

The Export Format Configuration File

The export format configuration file describes each of the export record types. For example, the RTLog specifies the following records:

- File Header
- File Tail
- Transaction Header
- Transaction Tail
- Transaction Item
- Item Discount
- Transaction Tax
- Transaction Tender

The following is a snippet from RTLogFormat.xml:

```xml
<RECORD_FORMAT_VERSION version="V.12.0.5"/>
<RECORD_FORMAT name="FileHeader">
  <FIELD_FORMAT name="FileRecordDescriptor" type="char" length="5"
```
This snippet shows one Record definition (the File Header) composed of seven fields of various types, lengths and default values.

The Entity Reader Configuration File
This file defines tables that Entity Reader reads.

The Mapping Configuration File
This file describes the relationship between the tables and columns in the database and the records and fields in the export format. The following is a snippet from RTLogMappingConfig.xml:

```xml
<?xml version="1.0"?>
<ENTITY_MAPPER ... >
  <COMMENT>This is a configuration file for the Point-of-Service Transaction to RTLog Mapping</COMMENT>
  <TABLE table="TR_TRN">
    <MAP column="DC_DY_BSN" record="FileHeader" field="BusinessDate"
        fieldMapper="oracle.retail.stores.exportfile.rtlog.fieldmappers.BusinessDateMapper"/>
    <MAP column="ID_STR_RT" record="FileHeader" field="LocationNumber"
        fieldMapper="oracle.retail.stores.exportfile.rtlog.fieldmappers.StoreNumberMapper"/>
    <MAP column="TS_TRN_END" record="TransactionHeader" field="RegisterTransactionDate"
        fieldMapper="oracle.retail.stores.exportfile.rtlog.fieldmappers.DateTimeMapper"/>
    <MAP column="TY_TRN" record="TransactionHeader" field="TransactionType"
        mappingStrategyOrder="FieldMapperThenValueMapping"
        fieldMapper="oracle.retail.stores.exportfile.rtlog.fieldmappers.ExportItemsAndTaxStatusMapper">
      <VALUE_MAPPINGS handleNotFound="error">
        <VALUE_MAPPING DatabaseValue="1" RecordValue="SALE"/>
        <VALUE_MAPPING DatabaseValue="2" RecordValue="RETURN"/>
        <VALUE_MAPPING DatabaseValue="3" RecordValue="PVOID"/>
        ...
      </VALUE_MAPPINGS>
    </MAP>
  </TABLE>
</ENTITY_MAPPER>
```
Looking at this snippet, it is easy to see that the column TR_TRN.DC_DY_BSN maps to the BusinessDate field in the FileHeader record using the BusinessDateMapper class to format the data.

Also note that application uses a VALUE_MAPPINGS element to transform the value from the column TR_TRN.TY_TRN to equivalent value in the TransactionType field in the TransactionHeader record.

**Development and Testing Tools**

There are a number of tools that were developed during the course of this project that are helpful when extending this subsystem.

**Classes**

The following classes are all located at `<root>/modules/exportfile/src/oracle/retail/stores/exportfile/utility:`
Executables in the bin Directory

The following BAT files are all located at \modules\exportfile\bin:

Table 5–6  bin Directory BAT Files

<table>
<thead>
<tr>
<th>Class Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>setenv.bat</td>
<td>Sets up the classpath</td>
</tr>
<tr>
<td>RTLogFileDecryption.bat</td>
<td>Executes FileDecryptionUtility.class; it points at the bin\POSLog directory in the default installation, writes the decrypted records to RTLOG.DEC, and uses the default encryption key.</td>
</tr>
<tr>
<td>RTLogReport.bat</td>
<td>Executes RTLOGReportDriver.class; it reads RTLOG.DEC, and uses the export format file ..\config\RTLogFormat.xml.</td>
</tr>
</tbody>
</table>

Table 5–5  Exportfile Utility Classes

<table>
<thead>
<tr>
<th>Class Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExportTestDriver</td>
<td>This class is a test harness that can be used to develop the configuration files, FieldMapperIfc and AccessorIfc classes in isolation from the rest of the application. It uses the classes DatabaseEntityAdapterTest, EncryptionAdapterTest, CurrencyAdapterTest, OutputAdapterTest and ExportFileResultAuditLogTest to emulate system specific adapters. An Eclipse-run configuration for this class should run out of the exportfile project. The classpath should include the domain, foundation-client, foundation-server, common, utility, foundation-shared, clientinterfaces, datareplication projects and /thirdparty/apache-ant-1.6.2/lib/xml-apis.jar, /thirdparty/apache-ant-1.6.2/lib/xercesImpl.jar, and /thirdparty/apache/log4j-1.2.8.jar. It should also include the JDBC jar(s) for the database you are using. You might need to modify this class to use the appropriate JDBC driver, username, password and transaction IDs.</td>
</tr>
</tbody>
</table>
| FileDecryptionUtility| By default the application (not the test harness) generates encrypted files. This class reads all the encrypted files from a target directory, decrypts them, and write them to a single target file. The main() method has three command line parameters:  
  - EncryptedDirectoryName - the pathname of the directory of *.ENC files  
  - DecryptedFileName - the pathname of the decrypted file  
For more information about encryption, see Oracle Retail Strategic Store Solutions RTLog Files in Chapter 1. |
| RTLOGReportDriver    | This class reads an export format configuration file and an export log file then generates a report file (rtlog_rpt.txt) to the current directory. This saves a lot effort when trying to determine if an export file has the correct data in it. The main() method has two command line parameters:  
  - ExportFileName - full/relative path pathname of the export file.  
  - XMLFormatFileName - full/relative path pathname of the format file. |

Table 5–6  bin Directory BAT Files

<table>
<thead>
<tr>
<th>Class Name</th>
<th>Description</th>
</tr>
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<tr>
<td>setenv.bat</td>
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</tr>
</tbody>
</table>
Strategic Store Solutions to Oracle Retail Store Inventory Management
Extension Points and Development

Oracle Retail Point-of-Service integrates with the Oracle Retail Store Inventory Management application through Web service. The Oracle Retail Store Inventory Management inventory Web service stub jar file is created and included in the application classpath. PSIInventoryLookup object converts the PSIInventoryRequest object to Oracle Retail Store Inventory Management Web service specific Request object, and also converts the Oracle Retail Store Inventory Management Web Service returned Response object to PSIInventoryResponse object. If the Oracle Retail Point-of-Service needs to integrate with other inventory applications which exposes inventory information in the form of Web service, a new Web service stub jar file to be created and modify PSIInventoryLookup class setRequest and getResponse methods.

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:

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 Oracle Retail Store Inventory Management instance:

   ```xml
   <property name="wsdl.url"
   ```

   Change the URL of the wsdl.url depending on where the Oracle Retail 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.

Extending the RTLog Encryption Model

The requirements for this release call for the RTLog to be encrypted; however, the solution to encryption key sharing between Strategic Stores Solutions and Oracle Retail Sales Audit applications is not provided with the product. Therefore, Strategic Stores Solutions and Oracle Retail Sales Audit use a single known encryption key, cipher, and set of encryption parameters. Oracle Retail Point-of-Service uses this predetermined information to encrypt the file, and Oracle Retail Sales Audit uses it to decrypt the file.

In many cases this will not be sufficient for a specific implementation; some retailers will choose to deploy third party key store/encryption technology. In this case the implementation team must provide custom code for both Oracle Retail Point-of-Service and Oracle Retail Sales Audit.
In Oracle Retail Point-of-Service there are two classes that appear to be candidates for assisting in this process:

- **RTLogEncryptionAdapter** – provides a service which the application uses to decrypt credit card numbers. Oracle Retail has its own internal approach to encrypting credit card numbers before storing them in the database. The primary purpose of this adapter is to decrypt encrypted credit card numbers.

- **RTLogEncryptingOutputAdapter** – performs the encryption on the RTLog using the simple approach outlined above.

The implementation team should provide a class that implements the OutputAdapterIfc interface and interacts with the third-party key store/encryption application to encrypt the contents of the RTLog.

Since the decryption key information is well known to the current applications, no provision has been made to communicate this information to the Oracle Retail Sales Audit application in the RTLog. In a third-party key store scenario the key identifier must be included with each RTLog file. The key identifier must be provided to the key store application in order to obtain the actual key used to perform the decryption. The key identifier could be included as part of the file name or pre-pended in the clear to the encrypted data within the RTLog file.

The supplier of the third party key store application will supply details for how to use their application.
Known Issues and Troubleshooting

**DepartmentDefaultTaxGroup**

When integrated with Oracle Retail 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 items 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.

**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.

Oracle Retail Merchandising Products transforms `EA` (Each) to `UN` (Unit) for the UOM in Item extracts to Strategic Store Solutions.

Strategic Store Solutions does not transform any other UOM in RTLogs to Oracle Retail Merchandising Products.

Oracle Retail Point-of-Service translates `UN` back to `EA` for the RTLog.

**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.

**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.

**Transaction Level Items**

Oracle Retail Merchandising System extracts transaction-level items only.
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/

Geocode Tag Missing For Store

The geocode is not sent to Oracle Retail Point-of-Service.

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

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 Oracle Retail Merchandising System reads the key from the file.

For more information about keys see Extending the RTLog Encryption Model in chapter 5.

Clearance Pricing

Strategic Store Solutions does not support Clearance pricing.

Oracle Retail Price Management Price Promotion endDateTime in Pricing Import XSD

Price Promotions imported through DIMP that have no specified end dates will default to December 31, 2099.

Data Import Failure

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.

Integration with Oracle Retail Sales Audit

The integration with Oracle Retail Sales Audit requires that tills are only opened and closed once per business day.

Total ID in the RTLog

The same Total ID is used for more than one till. This causes the following error message in Oracle Retail Sales Audit:

Duplicate declaration: this total id has already been used by another transaction xxxx.

Duplicate Discount Rules After Import

After importing discount rules, duplicate discount rules exist in Oracle Retail Back Office.
Data Import Field Width Maximums

All VARCHAR(255) sizes were changed to VARCHAR(250) to match Oracle Retail Merchandising System and Oracle Retail Price Management sizes.

Price Change Applied Before Start Date

Oracle Retail Point-of-Service only supports a physical deployment model where the POS clients and in-store server are set to the same system time as the store database. If the in-store server and database are set to different system times, for example, clock not set correctly or they exist in different timezones, it is possible that items will ring with incorrect prices as prices changes and discount rules applied at the POS client rely on the system time of the store database.

Special Order Eligible Coupons

By default, all coupons will be Special Order Eligible.

Bank Deposit Details

The RTLog does not deliver bank deposit details.

Discountable Attribute from Oracle Retail Merchandising System

The Discountable attribute for an item imported from Oracle Retail Merchandising System is always set to true.

authorized_for_sale

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.

Gift Card Error

Items associated with giftcards are not sent from Oracle Retail 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.

CatchWeight Item in RTLog

Oracle Retail Point-of-Service does not support the CatchWeight attribute for items, so the value of the field will always be set to false by Oracle Retail Point-of-Service.

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 an Oracle Retail Merchandising Products-integrated environment. The retailer must define these.
**Item Cost Attribute**

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

**RegistryEligible Field**

The *RegistryEligible* field is hardcoded with the value **true** in Oracle Retail Merchandising System extracts.

**ReasonCodes for Discount Rules**

All reason codes for discount rules are imported from Oracle Retail Price Management with a value of **-1**.

When new discount rules are created using Back Office, reason codes are generated using the TypeCode ID, which have a value between **1** and **12**. The TypeCode ID is translated into a different attribute value during an RTLog extract to Oracle Retail Sales Audit. For example, because Back Office inserts the TypeCode ID into the ReasonCode column, a typecode of **BuyNoOfXGetYAtZ%Off** will cause ID **4** to be inserted as a ReasonCode for a new rule. During RTLog extract, a **4** is translated as **ORRCMS**.

**Reason Codes for Price Discount**

Oracle Retail Sales Audit is unable to identify the reason codes for a Price Discount transaction.

**Layaway Deletion Fee**

**Layaway Deletion Fee** is sent to Oracle Retail Sales Audit as Non-Merchandise-Item which is not accepted by Oracle Retail Sales Audit.

Oracle Retail Sales Audit expects **Layaway Deletion Fee** to be delivered as a record type **TTEND**. Instead, it is sent as a record type **TITEM**.

**Customer-Specific Pricing in Pricing Data Import**

Customer-specific pricing on items is not currently supported in the Pricing data import.

**CTILL Records in the RTLog**

Oracle Retail Point-of-Service will send two CTILL records to the RTLog for Till Close:

- one for the reconciliation activity
- one for the close activity
Hardcoded Attributes in Oracle Retail Merchandising System Extracts

The following lists identify attributes that are hardcoded in Oracle Retail 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

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 DIMP's. For more information about Tax and Employee XML Schema Definitions, see Appendix: XSD Files and Data Element Definition Tables.

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

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

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.

Character Restrictions for ContactAddressCity
For the Store Hierarchy Address attribute, Oracle Retail 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, Oracle Retail Price Management 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
Oracle Retail Merchandising System extracts number(20,4) while DIMP accepts only number(13,4).

HPQC 166, 168

Character Restrictions for PriceOverrideAmount
For Pricing PriceOverrideAmount, Oracle Retail Price Management extracts absolute of (20,4) while DIMP accepts only up to (13,2).

HPQC 198, 204

Character Restrictions for Pricing Coupon
For Pricing Coupon, Oracle Retail Price Management 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, Oracle Retail Price Management 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: Oracle Retail Price Management can extract up to 640 characters, while Oracle Retail Point-of-Service accepts only 250 characters.
Promo Name: Oracle Retail Price Management 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, Oracle Retail 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 Oracle Retail Merchandising System.
HPQC 177, 178
For further information on working with Geocodes, see Geocode Tag Missing For Store.

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 5 digit number.
Validation in the Strategic Store Solutions backend is done to ensure that US postal code is a 5 digit number.
Any data created in RMS that does not satisfy these conditions causes the Strategic Store Solutions uploads to fail.
HPQC 19
Batch
A collection of data operations that are processed 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 file containing a manifest. It is expected that the retailer or implementation team is responsible for packaging and delivering to the Store the bundle along with manifest for all data feeds to the Store.

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 class that can retrieve and persist data to and from a data source.

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
J2EE
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.

Manifest
A file within a bundle that lists the data files in the bundle and their interdependencies.

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

ORMPOS
Oracle Retail Mobile Point of Service

ORPOS
Oracle Retail Point of Service

ORRM
Oracle Retail Returns Management

ReSA
Oracle Retail Sales Audit

RMS
Oracle Retail Merchandising System

RPM
Oracle Retail Price Management

RTLog
Retail Transaction Log
**Seed Data**
Seed Data is defined as data that must be supplied by our customers in order for our applications to fully use all features and functions which the customer decided to enable.

**SIM**
Oracle Retail Store Inventory Management

**Store Applications**
Oracle Retail applications that run in the store environment. This includes:
- Oracle Retail Back Office
- Oracle Retail Point-of-Service
- Oracle Retail Mobile 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.
Appendix: Discount Rules – Any or All

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. Oracle Retail Price Management 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.

Current enhancements to Stores behavior enable either **Any** or **All**. This provides for much tighter integration to Oracle retail Price Management.

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 quantize 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**.

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.
- Targets are always sorted and chosen from most expensive to least expensive and chosen in order, unless the rule specifies "BuyNofXgetLowestPricedXatZ%off", in which case the least expensive target items are chosen first.
Appendix: XSD Files and Data Element Definition Tables

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

- 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.

Employee Import

Table B–1 identifies the XSD elements in the EmployeeImport.xsd file.

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee PA_EM</td>
<td>EmployeeID</td>
<td>ID_EM</td>
<td></td>
<td>Employee &gt; EmployeeID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PartyID</td>
<td>ID_PRTY</td>
<td></td>
<td>Employee &gt; PartyID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EmployeeLoginID</td>
<td>ID_LOGIN</td>
<td></td>
<td>Employee &gt; EmployeeAccess &gt; EmployeeLoginID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EmployeeAlternateID</td>
<td>ID_ALT</td>
<td></td>
<td>Employee &gt; EmployeeAccess &gt; EmployeeAltID</td>
<td></td>
</tr>
</tbody>
</table>
**Table B–1  Employee Import XSD Element Mapping Table**

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EmployeeAccess Password</td>
<td>PW_ACS_EM</td>
<td></td>
<td></td>
<td>Employee &gt; EmployeeAccess &gt; AccessPassword</td>
<td></td>
</tr>
<tr>
<td>EmployeeName</td>
<td>NM_EM</td>
<td>VARCHAR(150)</td>
<td></td>
<td>Employee &gt; Employee FullName</td>
<td></td>
</tr>
<tr>
<td>Employee LastName</td>
<td>LN_EM</td>
<td>VARCHAR(50)</td>
<td></td>
<td>Employee &gt; Employee LastName</td>
<td></td>
</tr>
<tr>
<td>Employee FirstName</td>
<td>FN_EM</td>
<td>VARCHAR(50)</td>
<td></td>
<td>Employee &gt; Employee FirstName</td>
<td></td>
</tr>
<tr>
<td>Employee Middle Name</td>
<td>MD_EM</td>
<td>VARCHAR(50)</td>
<td></td>
<td>Employee &gt; Employee Middle Name</td>
<td></td>
</tr>
<tr>
<td>EmployeeRole</td>
<td>ROLE_EM</td>
<td></td>
<td></td>
<td>Employee &gt; EmployeeRole</td>
<td></td>
</tr>
<tr>
<td>Social Security Number</td>
<td>UN_NMB_SCL_SCTY</td>
<td></td>
<td></td>
<td>Employee &gt; EmployeeSSN</td>
<td></td>
</tr>
<tr>
<td>Employee Status Code</td>
<td>SC_EM</td>
<td></td>
<td></td>
<td>Employee &gt; Employee Status Code</td>
<td></td>
</tr>
<tr>
<td>Work Group ID</td>
<td>ID_GP_WRK</td>
<td></td>
<td></td>
<td>Employee &gt; EmployeeAccess &gt; WorkGroupID</td>
<td></td>
</tr>
<tr>
<td>Employee Locale</td>
<td>LCL</td>
<td></td>
<td></td>
<td>Employee &gt; EmployeeLocale</td>
<td>Only applies to temporary employees.</td>
</tr>
<tr>
<td>Number Of Days Valid For Temp Employees</td>
<td>NUMB_DYS_VLD</td>
<td></td>
<td></td>
<td>Employee &gt; Employee Number Days Valid</td>
<td>Only applies to temporary employees.</td>
</tr>
<tr>
<td>Expiration Time For Temp Employees</td>
<td>DC_EXP_TMP</td>
<td></td>
<td></td>
<td>Employee &gt; Employee Temp Employee Expiration Date</td>
<td>0 means Standard employee. 1 means Temporary employee.</td>
</tr>
<tr>
<td>Employee Type</td>
<td>TYPE_EMP</td>
<td></td>
<td></td>
<td>Employee &gt; Employee Type</td>
<td></td>
</tr>
<tr>
<td>Employee Store Assignment</td>
<td>ID_STR_RT</td>
<td></td>
<td></td>
<td>Employee &gt; Employee Store Assignment</td>
<td></td>
</tr>
<tr>
<td>New Password Required Flag</td>
<td>FL_PW_NW_REQ</td>
<td></td>
<td></td>
<td>Employee &gt; Employee Access New Password Required</td>
<td></td>
</tr>
</tbody>
</table>
### Table B–1 Employee Import XSD Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PasswordCreatedDate</td>
<td>TS_CRT_PW</td>
<td>Employee &gt; EmployeeAccess &gt; PasswordCreation Date</td>
<td>If date is not specified, a new date is used.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NumberOfFailedPasswords</td>
<td>NUMB_FLD_PW</td>
<td>0</td>
<td>No failed passwords inserted.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EmployeeID</td>
<td>ID_EM</td>
<td>Employee &gt; EmployeeID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PasswordCreatedDate</td>
<td>TS_CRT_PW</td>
<td>Employee &gt; EmployeeAccess &gt; PasswordHistoryEntry &gt; PasswordCreation Date</td>
<td>If date is not specified, a new date is used.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EmployeeAccessPassword</td>
<td>PW_ACS_EM</td>
<td>Employee &gt; EmployeeAccess &gt; PasswordHistoryEntry &gt; AccessPassword</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LoginID</td>
<td>ID_LOGIN</td>
<td>Employee &gt; EmployeeAccess &gt; EmployeeLoginID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FunctionID</td>
<td>ID_STRGP_FNC</td>
<td>Employee &gt; EmployeeStoreOrHierarchyAssn &gt; EmployeeHierarchyAssn &gt; StoreGroupFunctionID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GroupID</td>
<td>ID</td>
<td>Employee &gt; EmployeeStoreOrHierarchyAssn &gt; EmployeeHierarchyAssn &gt; NodeID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GroupType</td>
<td>TYPE</td>
<td>Employee &gt; EmployeeStoreOrHierarchyAssn &gt; EmployeeHierarchyAssn &gt; NodeType</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Example B–1 EmployeeImport.xsd

```xml
<?xml version="1.0" encoding="windows-1252" ?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <!-- Log: $ -->
  <xs:annotation>
    <xs:documentation>
      Employee Import Schema. Copyright 2006 Oracle. All rights reserved.
    </xs:documentation>
  </xs:annotation>
  <xs:element name="EmployeeImport" type="EmployeeImport">
    <xs:annotation>
      <xs:documentation>
        Top-level element holding a collection of Employee elements.
      </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:complexType name="EmployeeImport">
    <xs:sequence>
      <xs:element name="Employee" type="EmployeeType" minOccurs="1" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="FillType" type="FillType" 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="EmployeeType">
    <xs:annotation>
      <xs:documentation>
        Represents a single employee's information.
      </xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:element name="ChangeType" type="ChangeType" default="ADD" minOccurs="1" maxOccurs="1"/>
      <xs:element name="EmployeeID" type="ID" minOccurs="1" maxOccurs="1"/>
      <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" 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" minOccurs="0" maxOccurs="1"/>
      <xs:element name="Locale" type="ID" minOccurs="0" maxOccurs="1"/>
      <xs:element name="EmployeeAccess" type="EmployeeAccess" minOccurs="0" maxOccurs="1"/>
      <xs:element name="EmployeeType" type="StatusCode">
        <xs:annotation>
          <xs:documentation>
            0 means 'Standard' employee, 1 means Temporary employee
          </xs:documentation>
        </xs:annotation>
        <xs:annotation>
          <xs:documentation>
            Represents a single employee's information.
          </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```
<xs:complexType name="EmployerStoreOrHierarchyAssn" type="EmployeeStoreOrHierarchyAssn" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="EmployeeAccess">
<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" minOccurs="0" maxOccurs="1" />
</xs:sequence>
</xs:complexType>

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

<xs:complexType name="PasswordHistoryEntry">
<xs:sequence>
<xs:element name="PasswordHistoryEntryID" type="xs:string" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="EmployeeStoreOrHierarchyAssn">
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>
<xs:sequence>
<xs:element name="EmployeeStoreOrHierarchyAssn" type="EmployeeStoreOrHierarchyAssn" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

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

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

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

<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 name="TempEmployeeExpirationDate" type="xs:date" minOccurs="0" maxOccurs="1" />
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>

<xs:element name="EmployeeStoreOrHierarchyAssn" type="EmployeeStoreOrHierarchyAssn" minOccurs="0" maxOccurs="unbounded"/>
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</xs:complexType>

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

<xs:complexType name="PasswordHistoryEntry">
<xs:sequence>
<xs:element name="PasswordHistoryEntryID" type="xs:string" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="EmployeeStoreOrHierarchyAssn">
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>
<xs:sequence>
<xs:element name="EmployeeStoreOrHierarchyAssn" type="EmployeeStoreOrHierarchyAssn" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

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

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

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

<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 name="TempEmployeeExpirationDate" type="xs:date" minOccurs="0" maxOccurs="1" />
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>

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

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

<xs:complexType name="PasswordHistoryEntry">
<xs:sequence>
<xs:element name="PasswordHistoryEntryID" type="xs:string" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="EmployeeStoreOrHierarchyAssn">
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>
<xs:sequence>
<xs:element name="EmployeeStoreOrHierarchyAssn" type="EmployeeStoreOrHierarchyAssn" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

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

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

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

<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 name="TempEmployeeExpirationDate" type="xs:date" minOccurs="0" maxOccurs="1" />
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>

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

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

<xs:complexType name="PasswordHistoryEntry">
<xs:sequence>
<xs:element name="PasswordHistoryEntryID" type="xs:string" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="EmployeeStoreOrHierarchyAssn">
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>
<xs:sequence>
<xs:element name="EmployeeStoreOrHierarchyAssn" type="EmployeeStoreOrHierarchyAssn" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

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

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

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

<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 name="TempEmployeeExpirationDate" type="xs:date" minOccurs="0" maxOccurs="1" />
<xs:annotation><xs:documentation>
Only applies to temporary employee
</xs:documentation></xs:annotation>

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

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

<xs:complexType name="PasswordHistoryEntry">
<xs:sequence>
<xs:element name="PasswordHistoryEntryID" type="xs:string" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="PasswordHistoryEntry">
  <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">
  <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" minOccurs="0" maxOccurs="1" />
    <xs:element name="EmployeeHierarchyAssn" type="EmployeeHierarchyAssn" minOccurs="0" maxOccurs="1" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="EmployeeHierarchyAssn">
  <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:simpleType name="ChangeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ADD" />
    <xs:enumeration value="UPD" />
    <xs:enumeration value="DEL" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="RetailStoreId">
  <xs:annotation>
    <xs:documentation>Store Id's can only be five characters long and preferably only numerals.</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="1"></xs:minLength>
    <xs:maxLength value="5"></xs:maxLength>
  </xs:restriction>
</xs:simpleType>
The following is an example Employee Import XML file.

**Example B–2 EmployeeImport.xml**

```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>1478c028a16709cb32d8b169caca032cald9ef5</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>
                    <AccessPassword>1478c028a16709cb32d8b169caca032cald9ef5</AccessPassword>
                </PasswordHistoryEntry>
            </PasswordHistory>
        </EmployeeAccess>
        <EmployeeType>0</EmployeeType>
        <EmployeeStoreOrHierarchyAssn>
            <EmployeeStoreID>04241</EmployeeStoreID>
            <EmployeeHierarchyAssn/>
    </EmployeeStoreOrHierarchyAssn>
</EmployeeImport>
```
**Table B–2** identifies the PreloadData element mapping for the ItemImport.xsd file.

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ItemColor CO_CLR</td>
<td>ColorCode</td>
<td>ED_CLR</td>
<td>VARCHAR(20)</td>
<td>PreloadData &gt; Color @Code</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ColorNames</td>
<td>NM_CLR</td>
<td>VARCHAR(40)</td>
<td>PreloadData &gt; Color @Names</td>
<td>Contains a short list of names given to this color.</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>DE_CLR</td>
<td>VARCHAR(250)</td>
<td>PreloadData &gt; Color @Description</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordCreated Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ItemSize CO_SZ</td>
<td>SizeCode</td>
<td>ED_SZ</td>
<td>VARCHAR(6)</td>
<td>PreloadData &gt; Size @Code</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ActualSize Proportion Description</td>
<td>DE_PRPTN_ACT_SZ</td>
<td>VARCHAR(250)</td>
<td>PreloadData &gt; Size @ProportionDesc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ActualSize Type Description</td>
<td>DE_TYP_ACT_SZ</td>
<td>VARCHAR(40)</td>
<td>PreloadData &gt; Size @TypeDesc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ActualSize Code</td>
<td>ED_SZ_ACT</td>
<td>VARCHAR(20)</td>
<td>PreloadSize &gt; Size @ActualSizeCode</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TableName</td>
<td>NM_TB_SZ</td>
<td>VARCHAR(40)</td>
<td>PreloadSize &gt; Size @TableName</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TableCode</td>
<td>ED_TB_SZ</td>
<td>VARCHAR(20)</td>
<td>PreloadSize &gt; Size @TableCode</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Table Description</td>
<td>DE_TB_SZ</td>
<td>VARCHAR(250)</td>
<td>PreloadSize &gt; Size @TableDesc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordCreated Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ItemStyle CO_STYL</td>
<td>StyleCode</td>
<td>LU_STYL</td>
<td>VARCHAR(4)</td>
<td>PreloadData &gt; Style @Code</td>
<td></td>
</tr>
<tr>
<td>Log/Physical table</td>
<td>Target</td>
<td>Physical Column Name</td>
<td>Maximum Column Size</td>
<td>XSD Element/Attribute Path</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------------</td>
<td>----------------------</td>
<td>---------------------</td>
<td>----------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>StyleName</td>
<td>NM_STYL</td>
<td>VARCHAR(40)</td>
<td>PreloadData &gt; Style @Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>DE_STYL</td>
<td>VARCHAR(250)</td>
<td>PreloadData &gt; Style @Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordCreated Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UnitOf Measure Code</td>
<td>LU_UOM</td>
<td>VARCHAR(2)</td>
<td>PreloadData &gt; UOM @Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UnitOf MeasureCode</td>
<td>TY_UOM</td>
<td>VARCHAR(2)</td>
<td>PreloadData &gt; UOM @TypeCode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EnglishMetric Flag</td>
<td>FL_UOM_ ENG_MC</td>
<td></td>
<td>Metric=true</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>NM_UOM</td>
<td>VARCHAR(40)</td>
<td>PreloadData &gt; UOM @Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>DE_UOM</td>
<td>VARCHAR(250)</td>
<td>PreloadData &gt; UOM @Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DefaultUnitOf MeasureFlag</td>
<td>FL_DFLT_UOM</td>
<td>PreloadData &gt; UOM @IsDefault</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DefaultEntry Code</td>
<td>FL_CD_ENT_DFLT</td>
<td>PreloadData &gt; UOM @DefaultEntry Code</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EnabledFlag</td>
<td>FL_CD_ENT_ENAB</td>
<td>PreloadData &gt; UOM @Enabled</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ListSortIndex</td>
<td>CD_ENT_SRT</td>
<td>PreloadData &gt; UOM @SortIndex</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordCreated Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code</td>
<td>ID_STRC_MR_CD</td>
<td>VARCHAR(10)</td>
<td>PreloadData &gt; Merchandise Classification @Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code</td>
<td>DE_STRC_MR_CD</td>
<td>VARCHAR(250)</td>
<td>PreloadData &gt; Merchandise Classification @Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordCreated Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table B–2  Item Import XSD PreloadData Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record Last Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplier PA_SPR</td>
<td>Supplier</td>
<td>ID_SPR</td>
<td>VARCHAR(20)</td>
<td>PreloadData &gt; Supplier @ID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>DU_SPR</td>
<td>VARCHAR(9)</td>
<td>PreloadData &gt; Supplier @DUNSNumber</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Name</td>
<td>NM_SPR</td>
<td>VARCHAR(40)</td>
<td>PreloadData &gt; Supplier @Name</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supplier Is Manufacturer Flag</td>
<td>FL_MF_SPR_IS</td>
<td></td>
<td>PreloadData &gt; Supplier @IsManufacturer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Party Role Type Code</td>
<td>TY_RO_PRTY</td>
<td>No Mapping Found</td>
<td>Null value is entered. Column is not used in database.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PartyID</td>
<td>ID_PRTY</td>
<td>No Mapping Found</td>
<td>Null value is entered. Column is used in database.</td>
<td></td>
</tr>
<tr>
<td>Record Created Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Record Last Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturer PA_MF</td>
<td>Manufacturer ID</td>
<td>ID_MF</td>
<td>PreloadData &gt; Manufacturer @ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Name</td>
<td>NM_MF</td>
<td>VARCHAR(80)</td>
<td>PreloadData &gt; Manufacturer @Name</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PartyID</td>
<td>ID_PRTY</td>
<td>No mapping available</td>
<td>Null value to be stored.</td>
<td></td>
</tr>
<tr>
<td>Record Created Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Record Last Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table B–3 identifies the item element mapping for the ItemImport.xsd file.

**Table B–3 Item Import XSD Item Element Mapping Table**

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>ItemID</td>
<td>ID_ITM</td>
<td>VARCHAR(14)</td>
<td>Item @ID</td>
<td></td>
</tr>
<tr>
<td>AS_ITM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ItemProductID</td>
<td>ID_ITM_PDT</td>
<td></td>
<td>VARCHAR(14)</td>
<td>No Mapping</td>
<td></td>
</tr>
<tr>
<td>DiscountFlag</td>
<td>FL_ITM_DSC</td>
<td></td>
<td></td>
<td>Item @Discountable</td>
<td>true = 1, false= 0</td>
</tr>
<tr>
<td>DamageFlag</td>
<td>FL_ITM_DSC_DMG</td>
<td></td>
<td></td>
<td>Item @DamageDiscountable</td>
<td>true = 1, false= 0</td>
</tr>
<tr>
<td>ItemSize</td>
<td>FL_ITM_SZ_REQ</td>
<td></td>
<td></td>
<td>Item @SizeRequired</td>
<td>true = 1, false= 0</td>
</tr>
<tr>
<td>POS DepartmentID</td>
<td>ID_DPT_POS</td>
<td></td>
<td>VARCHAR(14)</td>
<td>Item @POS DepartmentID</td>
<td></td>
</tr>
<tr>
<td>AuthorizedForSaleFlag</td>
<td>FL_AZN_FR_SLS</td>
<td></td>
<td></td>
<td>Item @AuthorizedForSale</td>
<td>true = 1, false= 0</td>
</tr>
<tr>
<td>TaxExemptCode</td>
<td>LU_EXM_TX</td>
<td></td>
<td>VARCHAR(20)</td>
<td>Item @Taxable</td>
<td>true = 1, false= 0</td>
</tr>
<tr>
<td>Description</td>
<td>DE_ITM</td>
<td></td>
<td>VARCHAR(250)</td>
<td>Item &gt; Description</td>
<td></td>
</tr>
<tr>
<td>AbbreviatedDescription</td>
<td>DE_ITM_SHRT</td>
<td></td>
<td>VARCHAR(120)</td>
<td>Item &gt; ShortName</td>
<td>Based on the default locale. The ShortName specific to the locale is inserted into the column. When application is i18N aware, locale-specific data is inserted into the locale table.</td>
</tr>
<tr>
<td>TypeCode</td>
<td>TY_ITM</td>
<td></td>
<td>VARCHAR(20)</td>
<td>Item @Type</td>
<td>Stock=STCK Service=SRVC Coupon=SCP</td>
</tr>
<tr>
<td>KitSetCode</td>
<td>LU_KT_ST</td>
<td></td>
<td>VARCHAR(20)</td>
<td>Item @KitSetCode</td>
<td>0 (Default Value) means item is not part of a kit. 1 means it is a kit and this item is the header of the kit. 2 means this item is one of the component of the kit.</td>
</tr>
<tr>
<td>Merchandise StructureID</td>
<td>ID_STRC_MR</td>
<td></td>
<td></td>
<td>Item &gt; Merchandise Hierarchy @StructureID</td>
<td>Notes: Some question as to whether we are actually using this.</td>
</tr>
<tr>
<td>Merchandise Hierarchy LevelCode</td>
<td>LU_HRC_MR_LV</td>
<td></td>
<td>VARCHAR(4)</td>
<td>Item &gt; Merchandise Hierarchy @Level</td>
<td></td>
</tr>
<tr>
<td>Merchandise Hierarchy ID</td>
<td>ID_MHRHC_GP</td>
<td></td>
<td>VARCHAR(14)</td>
<td>Item &gt; Merchandise Hierarchy</td>
<td></td>
</tr>
</tbody>
</table>
### Table B–3  Item Import XSD Item Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TaxGroupID</td>
<td>ID_GP_TX</td>
<td></td>
<td></td>
<td>Item@VatCode</td>
<td>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.</td>
</tr>
<tr>
<td>Activation RequiredFlag</td>
<td>FL_ACTVN_RQ</td>
<td>Item @Activation Required</td>
<td>true = 1, false = 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registry EligibleFlag</td>
<td>FL_ITM_RGSTRY</td>
<td>Item @RegistryEligible</td>
<td>true = 1, false = 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code00</td>
<td>ID_STRC_MR_CD0</td>
<td>VARCHAR(10)</td>
<td>Item @Classification1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code01</td>
<td>ID_STRC_MR_CD1</td>
<td>VARCHAR(10)</td>
<td>Item @Classification2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code02</td>
<td>ID_STRC_MR_CD2</td>
<td>VARCHAR(10)</td>
<td>Item @Classification3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code03</td>
<td>ID_STRC_MR_CD3</td>
<td>VARCHAR(10)</td>
<td>Item @Classification4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code04</td>
<td>ID_STRC_MR_CD4</td>
<td>VARCHAR(10)</td>
<td>Item @Classification5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code05</td>
<td>ID_STRC_MR_CD5</td>
<td>VARCHAR(10)</td>
<td>Item @Classification6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code06</td>
<td>ID_STRC_MR_CD6</td>
<td>VARCHAR(10)</td>
<td>Item @Classification7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code07</td>
<td>ID_STRC_MR_CD7</td>
<td>VARCHAR(10)</td>
<td>Item @Classification8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code08</td>
<td>ID_STRC_MR_CD8</td>
<td>VARCHAR(10)</td>
<td>Item @Classification9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Classification Code09</td>
<td>ID_STRC_MR_CD9</td>
<td>VARCHAR(10)</td>
<td>Item @Classification10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PriceAudit Flag2</td>
<td>FL_ADT_ITM_PRC</td>
<td>No Mapping</td>
<td>Null value to be entered</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UsageCode</td>
<td>LU_ITM_USG</td>
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<td>Null value to be entered</td>
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<td></td>
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<tr>
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<td></td>
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<tr>
<td>Log/Physical Table</td>
<td>Target</td>
<td>Physical Column Name</td>
<td>Maximum Column Size</td>
<td>XSD Element/Attribute Path</td>
<td>Notes</td>
</tr>
<tr>
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<td>-------------------------</td>
<td>----------------------</td>
<td>---------------------</td>
<td>----------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>Substitute</td>
<td>IdentifiedFlag</td>
<td>FL_ITM_SBST_IDN</td>
<td>No Mapping</td>
<td>Default value of 0.</td>
<td></td>
</tr>
<tr>
<td>Order Collection</td>
<td>Code</td>
<td>LU_CLN_ORD</td>
<td>No Mapping</td>
<td>Null value to be entered.</td>
<td></td>
</tr>
<tr>
<td>PriceLineID</td>
<td></td>
<td>ID_LN_PRC</td>
<td>No Mapping</td>
<td>Null value to be entered.</td>
<td></td>
</tr>
<tr>
<td>BrandName</td>
<td></td>
<td>NM_BRN</td>
<td>No Mapping</td>
<td>Null value to be entered.</td>
<td></td>
</tr>
<tr>
<td>SeasonCode</td>
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<td>LU_SN</td>
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<tr>
<td>FiscalYear</td>
<td></td>
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<tr>
<td>RecordCreated</td>
<td>Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
</tr>
<tr>
<td>RecordLast</td>
<td>Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
</tr>
<tr>
<td>StockItem</td>
<td>ItemID</td>
<td>ID_ITM</td>
<td>VARCHAR(14)</td>
<td>Item @ID</td>
<td></td>
</tr>
<tr>
<td>StockItemSale</td>
<td>UnitOfMeasureCode</td>
<td>LU_UOM_SLS</td>
<td>VARCHAR(20)</td>
<td>Item @UOMCode</td>
<td>Default to UN for units is not specified.</td>
</tr>
<tr>
<td>ColorCode</td>
<td></td>
<td>ED_CLR</td>
<td>VARCHAR(20)</td>
<td>Item @Color</td>
<td></td>
</tr>
<tr>
<td>SizeCode</td>
<td></td>
<td>ED_SZ</td>
<td>VARCHAR(6)</td>
<td>Item @Size</td>
<td></td>
</tr>
<tr>
<td>StyleCode</td>
<td></td>
<td>LU_STYL</td>
<td>VARCHAR(4)</td>
<td>Item @Style</td>
<td></td>
</tr>
<tr>
<td>SupplierID</td>
<td></td>
<td>ID_SPR</td>
<td>VARCHAR(20)</td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @SupplierID</td>
<td></td>
</tr>
<tr>
<td>PackItem</td>
<td>WeightCount</td>
<td>QW_ITM_PCK</td>
<td></td>
<td>Item @PackItemWeight Count</td>
<td></td>
</tr>
<tr>
<td>SerializedItem</td>
<td>ValidationFlag</td>
<td>FL_VLD_SRZ_ITM</td>
<td></td>
<td>Item @SerializedItem</td>
<td>true = 1, false= 0</td>
</tr>
<tr>
<td>RestockingFee</td>
<td>Flag</td>
<td>FL_FE_RSTK</td>
<td></td>
<td>Item @RestockingFee</td>
<td>true = 1, false= 0</td>
</tr>
<tr>
<td>RecordCreation</td>
<td>Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
</tr>
<tr>
<td>RecordLast</td>
<td>Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
</tr>
<tr>
<td>RetailStore</td>
<td>Item</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>StoreID from the Manifest Meta Data</td>
<td></td>
</tr>
<tr>
<td>Item</td>
<td></td>
<td>ID_ITM</td>
<td>VARCHAR(14)</td>
<td>Item @ID</td>
<td></td>
</tr>
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</table>
### Table B–3 Item Import XSD Item Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TaxGroupID</td>
<td>ID_GP_TX</td>
<td>Item &gt; RetailStoreItem @TaxGroup</td>
<td>If vatcode is not provided, then only ID_GP_TX is filled with the value of the taxgroup attribute.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VatCode</td>
<td>ID_GP_TX</td>
<td>Item &gt; RetailStoreItem @VatCode</td>
<td>The Vat Code is the VAT Code Name. VatCode must 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 is the ID used to insert into AS_ITM_RTL_STR.ID_GP_TAX for the incoming VatCode.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; RegularPrice @IncludesTax</td>
<td>Item &gt; RetailStoreItem &gt; RegularPrice @CurrencyCode</td>
<td>Reserved for future use for foreign currency support.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Item &gt; RetailStoreItem &gt; RegularPrice @PermanentPrice</td>
<td>Item &gt; RetailStoreItem &gt; RegularPrice @CompareAtPrice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PermanentSale</td>
<td>RP_PR_SLS</td>
<td>Item &gt; RetailStoreItem &gt; RegularPrice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UnitRetail</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PriceAmount</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CompareAt</td>
<td>RP_PRC_CMPR_AT_SLS</td>
<td>Item &gt; RetailStoreItem &gt; RegularPrice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SaleUnitRetail</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PriceAmount</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SalesAge</td>
<td>IDN_SLS_AG_RST</td>
<td>Item &gt; RetailStoreItem @AgeRestrictionID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restriction</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Identifier</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TemplateID</td>
<td>ID_TMPLT LB VARCHAR(8)</td>
<td>Item &gt; RetailStoreItem @TemplateID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Record Creation</td>
<td>TS_CRT_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timestamp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordLast Modified</td>
<td>TS_MDF_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POSIdentity</td>
<td>ID_IDN_PS</td>
<td>RetailStoreID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ID_IDN_PS</td>
<td></td>
<td>ID_STR_RT VARCHAR(5)</td>
<td>StoreID from the Manifest Meta Data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POSItemID</td>
<td>ID_ITM_POS</td>
<td>Item &gt; RetailStoreItem @POSIdentity @POSItemID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ItemID</td>
<td>ID_ITM</td>
<td>Item @ID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Log/Physical table</td>
<td>Target</td>
<td>Physical Column Name</td>
<td>Maximum Column Size</td>
<td>XSD Element/Attribute Path</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------------</td>
<td>----------------------</td>
<td>---------------------</td>
<td>----------------------------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>CurrentSale</td>
<td>UnitPOSRetailPriceAmount</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RP_SLS_POS_CRT</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; RegularPrice</td>
<td></td>
</tr>
<tr>
<td>Manufacturer UPC</td>
<td></td>
<td>ID_ITM_MF_UPC</td>
<td>VARCHAR(14)</td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @UPC</td>
<td></td>
</tr>
<tr>
<td>Manufacturer ID</td>
<td></td>
<td>ID_MF</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity@ManufacturerID</td>
<td></td>
</tr>
<tr>
<td>Employee Discount</td>
<td>AllowedFlag</td>
<td>FL_DSC_EM_ALW</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity DiscountAllowed</td>
<td>true = 1, false = 0</td>
</tr>
<tr>
<td>PriceEntry</td>
<td>RequiredFlag</td>
<td>FL_ENTR_PRC_RQ</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity</td>
<td>true = 1, false = 0</td>
</tr>
<tr>
<td>QuantityKey</td>
<td>ProhibitFlag</td>
<td>FL_KY_PRH_QTY</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity Quantity Modifiable</td>
<td>true = 1, false = 0</td>
</tr>
<tr>
<td>ProhibitReturnFlag</td>
<td></td>
<td>FL_RTN_PRH</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @Returnable</td>
<td>true = 1, false = 0</td>
</tr>
<tr>
<td>Price Modifiable</td>
<td>Flag</td>
<td>FL_MDFR_RT_PRC</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @PriceModifiable</td>
<td>true = 1, false = 0</td>
</tr>
<tr>
<td>MinimumSale UnitCount</td>
<td></td>
<td>QU_UN_BLK_MNM</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity MinimumSale UnitCount</td>
<td></td>
</tr>
<tr>
<td>MaximumSale UnitCount</td>
<td></td>
<td>QU_UN_BLK_MXM</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity MaximumSale UnitCount</td>
<td></td>
</tr>
<tr>
<td>AllowCoupon</td>
<td>MultiplyFlag</td>
<td>FL_CPN_ALW_MULTI</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity AllowCoupon Multiply</td>
<td>true = 1, false = 0</td>
</tr>
<tr>
<td>Electronic Coupon</td>
<td>Flag</td>
<td>FL_CPN_ELNTC</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @Electronic Coupon</td>
<td>true = 1, false = 0</td>
</tr>
</tbody>
</table>
### Table B–3  Item Import XSD Item Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Coupon</td>
<td>RestrictedFlag</td>
<td>FL_CPN_RST</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @Coupon Restricted</td>
<td>true = 1, false = 0</td>
</tr>
<tr>
<td>SpecialOrder</td>
<td>EligibleFlag</td>
<td>FL_SPO_ITM</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @SpecialOrder Eligible</td>
<td>true = 1, false = 0</td>
</tr>
<tr>
<td>Record Creation Timestamp</td>
<td></td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Record Last Modified Timestamp</td>
<td></td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SupplierItemCatalogBaseCostBreak</td>
<td>SupplierID</td>
<td>ID_SPR</td>
<td>VARCHAR(20)</td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @SupplierID</td>
<td>Note that SupplierID is required for deleting items.</td>
</tr>
<tr>
<td>SupplierItem ID</td>
<td></td>
<td>ID_ITM_SPR</td>
<td>VARCHAR(20)</td>
<td>Item @ID</td>
<td></td>
</tr>
<tr>
<td>SupplierItem CostPerUnit TypeCode</td>
<td></td>
<td>TY_UN_CST</td>
<td>VARCHAR(3)</td>
<td>SLU</td>
<td></td>
</tr>
<tr>
<td>SupplierItem UnitBreak PointCount</td>
<td></td>
<td>QU_PNT_UND_BRK_</td>
<td></td>
<td>0</td>
<td></td>
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<tr>
<td>CostPerUnit Amount</td>
<td></td>
<td>CP_PNT_BRK_BS_CST</td>
<td></td>
<td>Item @ItemCost</td>
<td></td>
</tr>
<tr>
<td>Record Creation Timestamp</td>
<td></td>
<td>TS_CRT_RCRD</td>
<td>Now()</td>
<td></td>
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</tr>
<tr>
<td>Record Last Modified Timestamp</td>
<td></td>
<td>TS_MDF_RCRD</td>
<td>Now()</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table B–4 identifies the Oracle Retail Merchandising System export files element mapping for the ItemImport.xsd file.

**Table B–4  Item Import XSD Oracle Retail Merchandising System Export Files Mapping**

<table>
<thead>
<tr>
<th>File Name</th>
<th>Record Header</th>
<th>Field Name</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSDNLD</td>
<td>FHEAD FDETL</td>
<td>File Create Date</td>
<td>ItemImport @CreationDate YYYYMMDD to YYYY-MM-DD T HH24:MI:SS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Record Type</td>
<td>Item @Type type=Stock</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Location Number</td>
<td>Item &gt; RetailStoreItem &gt; RetailStoreID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Update Type</td>
<td>No direct mapping. Can be used during transform process to determine which fields are appropriate.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Start Date</td>
<td>No item fields use this value any longer.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Time</td>
<td>No item fields use this value any longer.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transaction Type</td>
<td>No direct mapping. Can be used during transform process to determine which fields are appropriate.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item Number ID</td>
<td>Item @ID Item field length needs to be lengthened in database and XML Schema.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item Number Type</td>
<td>Unused</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Format ID</td>
<td>Unused</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prefix</td>
<td>Unused</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reference Item</td>
<td>Point-of-Service only supports transaction level items.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reference Item Number Type</td>
<td>Unused</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reference Item Format ID</td>
<td>Unused</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reference Item Prefix</td>
<td>Unused</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item Short Description</td>
<td>Item &gt; ShortName DE_ITM_SHRT column to be expanded to support multibyte characters.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item Long Description</td>
<td>Item &gt; Description DE_ITM column to be expanded to support multibyte characters.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department ID</td>
<td>Item @POSDepartmentID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class ID</td>
<td>Item @Classification1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Subclass ID</td>
<td>Item @Classification2</td>
<td></td>
</tr>
</tbody>
</table>
### Table B–4  Item Import XSD Oracle Retail Merchandising System Export Files Mapping Table

<table>
<thead>
<tr>
<th>File Name</th>
<th>Record Header</th>
<th>Field Name</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Price</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt;</td>
<td>RegularPrice</td>
<td></td>
</tr>
<tr>
<td>New Selling UOM</td>
<td></td>
<td>Item @UOMCode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Multi Units</td>
<td></td>
<td></td>
<td></td>
<td>No item fields use this value any longer.</td>
</tr>
<tr>
<td>New Multi Selling UOM</td>
<td></td>
<td></td>
<td></td>
<td>No item fields use this value any longer.</td>
</tr>
<tr>
<td>Status</td>
<td></td>
<td>Item @ChangeType</td>
<td></td>
<td>If Transaction Type = 1 (new item added), ChangeType = ADD.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item @AuthorizedForSale</td>
<td>If Status = A, AuthorizedForSale = true.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>If Status = I or C, AuthorizedForSale = false.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>If Status = D, ChangeType = DEL, else ChangeType = UPD (except for Transaction Type = 1).</td>
<td></td>
</tr>
<tr>
<td>Taxable Indicator</td>
<td></td>
<td>Item @Taxable</td>
<td>Y = true, N = false</td>
<td></td>
</tr>
<tr>
<td>Promotion Number</td>
<td></td>
<td></td>
<td></td>
<td>No item fields use this value any longer.</td>
</tr>
<tr>
<td>Mix Match Number</td>
<td></td>
<td></td>
<td></td>
<td>No item fields use this value any longer.</td>
</tr>
<tr>
<td>Mix Match Type</td>
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<td></td>
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<td>No item fields use this value any longer.</td>
</tr>
<tr>
<td>Threshold Number</td>
<td></td>
<td></td>
<td></td>
<td>No item fields use this value any longer.</td>
</tr>
<tr>
<td>Launch Date</td>
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<td></td>
<td></td>
<td>Unused</td>
</tr>
<tr>
<td>Quantity Key Options</td>
<td></td>
<td>Item &gt; RetailStoreItem &gt;</td>
<td>@QuantityModifiable</td>
<td>R = Required</td>
</tr>
<tr>
<td></td>
<td></td>
<td>POSIdentity</td>
<td>P = Prohibited</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>O = Optional</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>@PriceEntryRequired</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item &gt; RetailStoreItem &gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>POSIdentity</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>@PriceModifiable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deposit Code</td>
<td></td>
<td></td>
<td></td>
<td>Unused</td>
</tr>
<tr>
<td>Food Stamp Indicator</td>
<td></td>
<td></td>
<td></td>
<td>Unused</td>
</tr>
<tr>
<td>WIC Indicator</td>
<td></td>
<td></td>
<td></td>
<td>Unused</td>
</tr>
<tr>
<td>Proportional Tare Percent</td>
<td></td>
<td></td>
<td></td>
<td>Unused. Point-of-Service does not record tare values.</td>
</tr>
<tr>
<td>Fixed Tare Value</td>
<td></td>
<td></td>
<td></td>
<td>Unused. Point-of-Service does not record tare values.</td>
</tr>
<tr>
<td>Fixed Tare UOM</td>
<td></td>
<td></td>
<td></td>
<td>Unused. Point-of-Service does not record tare values.</td>
</tr>
</tbody>
</table>
### Table B-4: Item Import XSD Oracle Retail Merchandising System Export Files Mapping Table

<table>
<thead>
<tr>
<th>File Name</th>
<th>Record Header</th>
<th>Field Name</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSCDNLD</td>
<td>FHEAD</td>
<td>File Date</td>
<td>ItemImport @CreationDate</td>
<td>YYYYMMDD HHMMSS to YYYY-MM-DD T HH24:MI:SS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>This is only required if POSCDNLD is not processed as part of the batch.</td>
<td></td>
</tr>
<tr>
<td>TCOUP</td>
<td></td>
<td>Record Type</td>
<td>Item @Type</td>
<td>type=Coupon</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Coupon id</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Coupon Desc</td>
<td>Item &gt; Description</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Currency Code</td>
<td>Item &gt; RetailStoreItem &gt; RegularPrice @CurrencyCode</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Max Discount Amount</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Amount</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Percent</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Indicator</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Profit Center</td>
<td></td>
</tr>
</tbody>
</table>

VAT Code is used for calculating VAT rates. VAT rates are populated through TaxImport. Point-of-Service does not support VAT rates at a class level. No item fields use the Promotion Item Type value any longer. Point-of-Service does not support variable or loose weights. Point-of-Service does not support VAT rates at a class level.
### Table B–4 Item Import XSD Oracle Retail Merchandising System Export Files Mapping

<table>
<thead>
<tr>
<th>Field Name</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tax Class</td>
<td>Item @TaxGroup</td>
<td></td>
</tr>
<tr>
<td>Export Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effective Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expiration Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prompted Ind</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display Ind</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Status</td>
<td>Item @ChangeType</td>
<td>A = ADD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C = UPD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D = DEL</td>
</tr>
<tr>
<td>Vendor</td>
<td>Item @ManufacturerID</td>
<td></td>
</tr>
<tr>
<td>Vendor Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Promotion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coupon Barcode</td>
<td>Item &gt; RetailStoreItem &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>POSIdentity @UPC</td>
<td></td>
</tr>
<tr>
<td>Coupon Max Qty</td>
<td>Item &gt; RetailStoreItem &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>POSIdentity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>@MaximumSaleUnitCount</td>
<td></td>
</tr>
<tr>
<td>TPres POS Product</td>
<td>POS Product Restriction ID</td>
<td>No direct mapping.</td>
</tr>
<tr>
<td>Restriction Desc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POS Product</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restriction Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>No direct mapping. Point-of-Service supports:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MNAG -- Minimum Age</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NDSC -- Nondiscountable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RTRN -- Returnable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>QLMT -- Quantity Limit</td>
</tr>
<tr>
<td>Effective Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Currency Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product Restriction</td>
<td>Item &gt; RetailStoreItem &gt;</td>
<td></td>
</tr>
<tr>
<td>Amount</td>
<td>POSIdentity</td>
<td></td>
</tr>
<tr>
<td>@AgeRestrictionId</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age Minimum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date Restriction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before Time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restriction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>After Time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restriction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day Restriction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Qty Amount</td>
<td>Item &gt; RetailStoreItem &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>POSIdentity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>@MaximumSaleUnitCount</td>
<td></td>
</tr>
</tbody>
</table>
The following is an example Item Import XSD file.

**Example B–3  ItemImport.xsd**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    elementFormDefault="qualified">
    <!-- $Log:$ -->
    <xs:annotation>
        <xs:documentation>
            Tender Type
            Group
        </xs:documentation>
    </xs:annotation>
    <xs:element name="TITEM">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="Item">
                    <xs:complexType>
                        <xs:sequence>
                            <xs:element name="Item @ID" type="xs:integer"/>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
                <xs:element name="Status" type="xs:string"/>
            </xs:sequence>
            <xs:attribute name="@ChangeType" type="xs:string"/>
        </xs:complexType>
    </xs:element>
    <xs:element name="Button ID" type="xs:string"/>
    <xs:element name="TXRPOSIDN">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="FHEAD" type="xs:string"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="UNKNOWN">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="Item @TaxGroup" type="xs:string"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:schema>
```

### Table B–4  Item Import XSD Oracle Retail Merchandising System Export Files Mapping

<table>
<thead>
<tr>
<th>File Name</th>
<th>Record Header</th>
<th>Field Name</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMORD</td>
<td>Record Type</td>
<td>Status</td>
<td>Item &gt; RetailStoreItem @ChangeType</td>
<td>Unused</td>
</tr>
<tr>
<td>TTTYP</td>
<td>Record Type</td>
<td>Status</td>
<td>Item &gt; RetailStoreItem &gt; POSIdentity @ChangeType</td>
<td>Unused</td>
</tr>
<tr>
<td>TBTTN</td>
<td>Record Type</td>
<td>Status</td>
<td>Unused</td>
<td>Unused</td>
</tr>
<tr>
<td>TPYIO</td>
<td>Record Type</td>
<td>Status</td>
<td>Unused</td>
<td>Unused</td>
</tr>
<tr>
<td>TSPAY</td>
<td>Record Type</td>
<td>Status</td>
<td>Unused</td>
<td>Unused</td>
</tr>
<tr>
<td>TSTOR</td>
<td>Record Type</td>
<td>Status</td>
<td>Unused</td>
<td>Unused</td>
</tr>
</tbody>
</table>
| TITEM     | Item          | Status     | Item @ChangeType | A = ADD  
C = UPD  
D = DEL  |
| Button ID | Unused        | Button ID  | Unused | Unused |
| TXRPOSIDN | FHEAD         | File Date  | ItemImport @CreationDate to YYYY-MM-DD T HH24:MI:SS | This is only required if POSDNLD is not processed as part of the batch. |

The following is an example Item Import XSD file.
Item Import

<xsl: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.
</xsl:documentation>

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

<xsl:complexType name="PreloadData">
  <xsl:sequence>
    <xsl:element name="Color" type="Color" minOccurs="0" maxOccurs="unbounded"/>
    <xsl:element name="Size" type="Size" minOccurs="0" maxOccurs="unbounded"/>
    <xsl:element name="Style" type="Style" minOccurs="0" maxOccurs="unbounded"/>
    <xsl:element name="UOM" type="UOM" minOccurs="0" maxOccurs="unbounded"/>
    <xsl:element name="Manufacturer" type="Manufacturer" minOccurs="0" maxOccurs="unbounded"/>
    <xsl:element name="MerchandiseClassification" type="MerchandiseClassification" minOccurs="0" maxOccurs="unbounded"/>
    <xsl:element name="Supplier" type="Supplier" minOccurs="0" maxOccurs="unbounded"/>
  </xsl:sequence>
</xsl:complexType>

<xsl:complexType name="Color">
  <xsl:attribute name="ChangeType" type="PreLoadChangeType" default="UPS"/>
  <xsl:attribute name="Code" use="required"/>
  <xsl:attribute name="Description" type="Description"/>
  <xsl:attribute name="Names" type="Name">
    <xsl:annotation>
      <xsl:documentation>
        A list of short names given to this color.
      </xsl:documentation>
    </xsl:annotation>
  </xsl:attribute>
</xsl:complexType>

<xsl:complexType name="Size">
  <xsl:attribute name="ChangeType" type="PreLoadChangeType" default="UPS"/>
  <xsl:attribute name="Code" use="required"/>
  <xsl:simpleType>
    <xsl:restriction base="xs:string">
      <xsl:maxLength value="10"/>
    </xsl:restriction>
  </xsl:simpleType>
</xsl:complexType>
</xs:attribute>
<xs:attribute name="ProportionDesc" type="Description"/>
<xs:attribute name="TypeDesc" type="Name"/>
<xs:attribute name="ActualSizeCode" type="Code"/>
<xs:attribute name="TableName" type="Name"/>
<xs:attribute name="TableCode" type="Code"/>
<xs:attribute name="TableDesc" type="Description"/>
</xs:complexType>

<xs:complexType name="Style">
<xs:attribute name="ChangeType" type="PreLoadChangeType" 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"/>
<xs:attribute name="Description" type="Description"/>
</xs:complexType>

<xs:complexType name="UOM">
<xs:attribute name="ChangeType" type="PreLoadChangeType" 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:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="Name" type="Name" use="required"/>
<xs:attribute name="Description" type="Description"/>
<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">
<xs:attribute name="ChangeType" type="PreLoadChangeType" default="UPS"/>
<xs:attribute name="ID" type="Code" use="required"/>
<xs:attribute name="Name" type="Name"/>
</xs:complexType>
<xs:complexType name="MerchandiseClassification">
  <xs:attribute name="ChangeType" type="PreLoadChangeType" default="UPS"/>
  <xs:attribute name="Code" type="Class" use="required"/>
  <xs:attribute name="Description" type="Description"/>
</xs:complexType>

<xs:complexType name="Supplier">
  <xs:attribute name="ChangeType" type="PreLoadChangeType" default="UPS"/>
  <xs:attribute name="ID" type="Code" 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"/>
  <xs:attribute name="IsManufacturer" type="xs:boolean" default="false"/>
</xs:complexType>

<xs:complexType name="Item">
  <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 name and description elements may also be repeated with the intention that each specifies a different language or country.
  </xs:documentation></xs:annotation>
  <xs:sequence>
    <xs:element name="ShortName" type="LocalizedName" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="LongDescription" type="LocalizedDescription" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="MerchandiseHierarchy" type="MerchandiseHierarchy" minOccurs="0"/>
    <xs:element name="RetailStoreItem" type="RetailStoreItem" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="ChangeType" type="ChangeType" default="ADD"/>
  <xs:attribute name="ID" type="ID" 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"/>
  <xs:attribute name="ItemCost" type="Currency"/>
  <xs:attribute name="KitSetCode" type="Code" default="0"/>
  <xs:attribute name="UOMCode" type="Code"/>
  <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:complexType>
Multiple POSIdentity elements may be specified when different
UPCs apply to the same item.
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.

```xml
<xs:complexType name="Class">
  <xs:restriction base="xs:string">
    <xs:maxLength value="10"/>
  </xs:restriction>
</xs:simpleType>

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

<xs:simpleType name="Currency">
  <xs:restriction base="xs:decimal">
    <xs:totalDigits value="10"/>
    <xs:fractionDigits value="2"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="CurrencyCode">
  <xs:annotation><xs:documentation>ISO-4217 based three characters codes to specify what currency that an amount is being specified in. Usually, if left unspecified, the system's default (country of origin) currency type is assumed.</xs:documentation></xs:annotation>
  <xs:restriction base="xs:string">
    <xs:length value="3"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="LocalizedName">
  <xs:simpleContent>
    <xs:extension base="Name">
      <xs:attribute name="Language" type="Language"/>
      <xs:attribute name="Country" type="Country"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```
The following is an example Item Import XML file.

**Example B-4  ItemImport.xml**

```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"
  </Color>
</ItemImport>
```

<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"
DUNSNRNumber="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"
Registry Eligible="true"
Size Required="false"
AuthorizedForSale="true"
SerializedItem="false"
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>
</Item>
</ItemImport>
### Merchandise Hierarchy Import

Table B–5 identifies the PreloadData element mapping for the MerchandiseHierarchyImport.xsd file.

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MerchandiseHierarchyGroup</td>
<td>MerchandiseGroup</td>
<td>ID_MRHRC_GP</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; MerchandiseGroup &gt; ID</td>
<td></td>
</tr>
<tr>
<td>CO_MRHRC_GP</td>
<td>Merchant</td>
<td>ID_PST</td>
<td></td>
<td>PreloadData &gt; MerchandiseGroup &gt; MerchantID</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>NM_MRHRC_GP</td>
<td>VARCHAR(120)</td>
<td></td>
<td>PreloadData &gt; MerchandiseGroup &gt; Name</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>DE_MRHRC_GP</td>
<td>VARCHAR(250)</td>
<td></td>
<td>PreloadData &gt; MerchandiseGroup &gt; Description</td>
<td></td>
</tr>
<tr>
<td>RecordCreate Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordModify Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POSDepartment</td>
<td>POSDepartmentID</td>
<td>ID_DPT_POS</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; POSDepartment &gt; POSDepartmentID</td>
<td></td>
</tr>
<tr>
<td>ID_DPT_PS</td>
<td>ParentPOS</td>
<td>ID_DPT_POS_PRNT</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; POSDepartment &gt; ParentPOS DepartmentID</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>NM_DPT_POS</td>
<td>VARCHAR(120)</td>
<td></td>
<td>PreloadData &gt; POSDepartment &gt; POSDepartment Name @Text</td>
<td></td>
</tr>
<tr>
<td>TaxGroupID</td>
<td>ID_GP_TX</td>
<td></td>
<td></td>
<td>PreloadData &gt; POSDepartment &gt; DepartmentDefault TaxGroup</td>
<td></td>
</tr>
<tr>
<td>POSDepartment I18N</td>
<td>POSDepartmentID</td>
<td>ID_DPT_POS</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; POSDepartment &gt; POSDepartmentID</td>
<td></td>
</tr>
<tr>
<td>ID_DPT_PS_I8</td>
<td>Locale</td>
<td>LCL</td>
<td>VARCHAR(10)</td>
<td>PreloadData &gt; POSDepartment &gt; POSDepartment Name @LanguageCode</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PreloadData &gt; POSDepartment &gt; POSDepartment Name @CountryCode</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Concatenate Lower(Language Code)+&quot;.&quot;+Upper(Country Code)</td>
<td></td>
</tr>
</tbody>
</table>
### Table B–5  Merchandise Hierarchy Import XSD PreloadData Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSDepartment Name</td>
<td>POSDepartment Name</td>
<td>NM_DPT_POS</td>
<td>VARCHAR(40)</td>
<td>PreloadData &gt; POSDepartment Name @Text</td>
<td></td>
</tr>
<tr>
<td>RetailStorePOS Department</td>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>PreloadData &gt; POSDepartment &gt; RetailStorePOS Department &gt; RetailStoreID</td>
<td></td>
</tr>
<tr>
<td>POSDepartmentID</td>
<td>POSDepartmentID</td>
<td>ID_DPT_POS</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; POSDepartment &gt; POSDepartmentID</td>
<td></td>
</tr>
<tr>
<td>DefaultEntryCode</td>
<td>DefaultEntryCode</td>
<td>FL_CD_ENT_DFLT</td>
<td></td>
<td>PreloadData &gt; POSDepartment &gt; RetailStorePOS Department &gt; DefaultEntryCode</td>
<td></td>
</tr>
<tr>
<td>EnabledFlag</td>
<td>EnabledFlag</td>
<td>FL_CD_ENT_ENAB</td>
<td></td>
<td>PreloadData &gt; POSDepartment &gt; RetailStorePOS Department &gt; EnabledFlag</td>
<td></td>
</tr>
<tr>
<td>ListSortIndex</td>
<td>ListSortIndex</td>
<td>CD_ENT_SRT</td>
<td></td>
<td>PreloadData &gt; POSDepartment &gt; RetailStorePOS Department &gt; ListSortIndex</td>
<td></td>
</tr>
</tbody>
</table>

Table B–5 identifies the element mapping for the MerchandiseHierarchyImport.xsd file.

### Table B–6  Merchandise Hierarchy Import XSD Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merchandise HierarchyFunction</td>
<td>Merchandise Hierarchy FunctionID</td>
<td>ID_MRHRC_FNC</td>
<td>HierarchyList &gt; Hierarchy@FunctionID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Name</td>
<td>NM_MRHRC_FNC</td>
<td>VARCHAR(250)</td>
<td>HierarchyList &gt; Hierarchy@Name</td>
<td></td>
</tr>
<tr>
<td>RecordCreate Timestamp</td>
<td>RecordCreate Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordModify Timestamp</td>
<td>RecordModify Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise HierarchyLevel</td>
<td>Merchandise Hierarchy FunctionID</td>
<td>ID_MRHRC_FNC</td>
<td>HierarchyList &gt; Hierarchy@FunctionID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LevelCode</td>
<td>LevelCode</td>
<td>ID_MRHRC_LV</td>
<td>HierarchyList &gt; LevelList &gt; Level@ID</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table B–7 identifies the Oracle Retail Merchandising System export files mapping for the MerchandiseHierarchyImport.xsd file.

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parent Merchandise Hierarchy LevelID</td>
<td>ID_MRHRC_LV_PKNT</td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; LevelList &gt; Level@ParentID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>NM_MRHRC_LVL</td>
<td>VARCHAR(120)</td>
<td>HierarchyList &gt; Hierarchy &gt; LevelList &gt; Level@Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordCreate Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordModify Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merchandise Hierarchy FunctionID</td>
<td>ID_MRHRC_FNC</td>
<td></td>
<td>HierarchyList &gt; Hierarchy@FunctionID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parent Merchandise Hierarchy GroupID</td>
<td>ID_MRHRC_GP_PRNT</td>
<td>VARCHAR(14)</td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ParentNodeID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child Merchandise Hierarchy GroupID</td>
<td>ID_MRHRC_GP_CHLD</td>
<td>VARCHAR(14)</td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parent Merchandise Hierarchy LevelID</td>
<td>ID_MRHRC_LVL</td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@LevelID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordCreate Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordModify Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>File Name</td>
<td>Field Name</td>
<td>XSD Element/Attribute Path</td>
<td>Notes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>------------</td>
<td>---------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>rmse_merchhier</td>
<td>SUBCLASS</td>
<td>PreloadData &gt; MerchandiseGroup &gt; ID</td>
<td>Point-of-Service maps all six Oracle Retail Merchandising System levels, even though it only typically uses the bottom four. Company and Division are usually assumed in a stores application. Note that SUBCLASS does not map to a ParentNodeID because the SUBCLASS level will never be any other level’s parent. Note: Each ID is a MerchandiseGroup ID within the PreloadData section as well as a Node ID in the Hierarchy section.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUB_NAME</td>
<td></td>
<td>PreloadData &gt; MerchandiseGroup &gt; Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS</td>
<td></td>
<td>PreloadData &gt; MerchandiseGroup &gt; ID</td>
<td>Class is the first level that can be defined as a parent. Any CLASS ID are specified within a SUBCLASS node definition. Higher levels continue in the same fashion.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS_NAME</td>
<td></td>
<td>PreloadData &gt; MerchandiseGroup &gt; Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEPT</td>
<td></td>
<td>PreloadData &gt; MerchandiseGroup &gt; ID</td>
<td>Departments not only map to MerchandiseGroups like other nodes, but also map to POSDepartment data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEPT_NAME</td>
<td></td>
<td>PreloadData &gt; MerchandiseGroup &gt; Name</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Merchandise Hierarchy Import

Table B–7 Merchandise Hierarchy Import XSD Oracle Retail Merchandising System Export Files Mapping Table

<table>
<thead>
<tr>
<th>File Name</th>
<th>Field Name</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROUP_NO</td>
<td>PreloadData &gt; MerchandiseGroup &gt; ID</td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ParentNodeID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@LevelID=&quot;3&quot;</td>
<td></td>
</tr>
<tr>
<td>GROUP_NAME</td>
<td>PreloadData &gt; MerchandiseGroup &gt; Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIVISION</td>
<td>PreloadData &gt; MerchandiseGroup &gt; ID</td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ParentNodeID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@LevelID=&quot;2&quot;</td>
<td></td>
</tr>
<tr>
<td>DIV_NAME</td>
<td>PreloadData &gt; MerchandiseGroup &gt; Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPANY</td>
<td>PreloadData &gt; MerchandiseGroup &gt; ID</td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@ParentNodeID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; NodeList &gt; Node@LevelID=&quot;1&quot;</td>
<td></td>
</tr>
<tr>
<td>CO_NAME</td>
<td>PreloadData &gt; MerchandiseGroup &gt; Name</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The following is an example Merchandise Hierarchy Import XSD file.

Example B–5 MerchandiseHierarchyImport.xsd

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <!-- $Log:$ -->
  <xsd:annotation>
    <xsd:documentation>
      All rights reserved.
    </xsd:documentation>
  </xsd:annotation>
</xsd:schema>
```

B-36 Oracle Retail Strategic Store Solutions Implementation Guide
<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" 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" 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" 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">
    <xs:sequence>
        <xs:element name="POSDepartment" type="POSDepartment" minOccurs="0" 
        maxOccurs="unbounded" />
        <xs:element name="MerchandiseGroup" type="MerchandiseGroup" 
        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="MerchandiseGroup">
    <xs:sequence>
        <xs:element name="ChangeType" type="ChangeType" 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="40"/>
                </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:sequence>
</xs:complexType>
<xs:complexType name="POSDepartment">
  <xs:sequence>
    <xs:element name="ChangeType" type="ChangeType" 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:element name="POSDepartmentName" type="LocalizedText" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="DepartmentDefaultTaxGroup" type="xs:int" minOccurs="1" maxOccurs="1"/>
    <xs:element name="RetailStorePOSDepartment" type="RetailStorePOSDepartment" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="RetailStorePOSDepartment">
  <xs:sequence>
    <xs:element name="ChangeType" type="ChangeType" minOccurs="1" maxOccurs="1"/>
    <xs:element name="RetailStoreId" type="RetailStoreId" 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">
  <xs:sequence>
    <xs:element name="Hierarchy" type="Hierarchy" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Hierarchy">
  <xs:sequence>
    <xs:element name="LevelList" type="LevelList" minOccurs="0" maxOccurs="1"/>
    <xs:element name="NodeList" type="NodeList" 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">
  <xs:sequence>
    <xs:element name="Level" type="Level" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

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

<xs:complexType name="Level">
  <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">
  <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:complexType name="LocalizedText">
  <xs:annotation>
    <xs:documentation>
      If the language and country attributes are missing, it is assumed
      that the locale is the system's default locale.
    </xs:documentation>
  </xs:annotation>
  <xs:attribute name="Text" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:minLength value="1" />
        <xs:maxLength value="20" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="LanguageCode">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:length value="2" />
        <xs:enumeration value="en" />
        <xs:enumeration value="es" />
        <xs:enumeration value="fr" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="CountryCode">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:length value="2" />
        <xs:enumeration value="US" />
        <xs:enumeration value="PR" />
        <xs:enumeration value="CA" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

<xs:simpleType name="ChangeType">
  <xs:restriction base="xs:string">
    <xs:length value="2" />
    <xs:enumeration value="U" />
  </xs:restriction>
</xs:simpleType>
<xs:enumeration value="ADD" />
</xs:restriction>
</xs:simpleType>

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

<xs:simpleType name="RetailStoreId">
<xs:annotation>
  <xs:documentation>Store Id's can only be five characters long and preferably only numerals.</xs:documentation>
</xs:annotation>
<xs:restriction base="xs:string">
  <xs:minLength value="1"></xs:minLength>
  <xs:maxLength value="5"></xs:maxLength>
</xs:restriction>
</xs:simpleType>

The following is an example Merchandise Hierarchy Import XML file.

**Example B-6  MerchandiseHierarchyImport.xml**

```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>
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Merchandise Hierarchy Import

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### Pricing Import

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

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<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event</td>
<td>EventID</td>
<td>ID_EV</td>
<td></td>
<td>Generated at Stores</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>PricingImport &gt; PriceChange &gt; StoreID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>External EventID</td>
<td>ID_EV_EXT</td>
<td>VARCHAR(20)</td>
<td>PricingImport &gt; PriceChange @ID</td>
<td>This value is used as an external index. Oracle Retail Price Management prepends a 1 for regular price changes or a 2 for clearance price changes when sending price change IDs.</td>
</tr>
<tr>
<td>Name</td>
<td>NM_EV</td>
<td>VARCHAR(160)</td>
<td>PricingImport &gt; PriceChange &gt; Description @Text</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TypeCode</td>
<td>TY_EV</td>
<td>VARCHAR(20)</td>
<td>PricingImport &gt; PriceChange @Type</td>
<td>PPC = Permanent Price Change IPC = Immediate Price Change</td>
<td></td>
</tr>
<tr>
<td>PlanStartDate</td>
<td>TS_EV_PL_EF</td>
<td></td>
<td>PricingImport &gt; PriceChange @StartDate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>StatusCode</td>
<td>SC_EV</td>
<td>VARCHAR(20)</td>
<td>Derived from PricingImport &gt; PriceChange @StartDate</td>
<td>Default = PENDING</td>
<td></td>
</tr>
<tr>
<td>Permanent PriceChange Item</td>
<td>EventID</td>
<td>ID_EV</td>
<td>Generated at Stores</td>
<td>Same ID as Event table</td>
<td></td>
</tr>
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<td>ItemID</td>
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<td>PricingImport &gt; PriceChange &gt; Item @ID</td>
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</tr>
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<td>RetailStoreID</td>
<td>ID_STR_RT</td>
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<td>PricingImport &gt; PriceChange &gt; StoreID</td>
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</tr>
<tr>
<td>PriceOverride Amount</td>
<td>MO_OVRD_PRC</td>
<td></td>
<td>PricingImport &gt; PriceChange &gt; Item &gt; Price</td>
<td></td>
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</tr>
<tr>
<td>Label TemplateID</td>
<td>ID_TMPLT_LB</td>
<td></td>
<td>PricingImport &gt; PriceChange &gt; Item @TemplateType</td>
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</tr>
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</table>
### Table B–8 Pricing Import XSD PriceChange Element Mapping Table

<table>
<thead>
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<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
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<td>Same ID as Event table</td>
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<td>Retail StoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>PricingImport &gt; PriceChange &gt; StoreID</td>
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<td>Label TemplateID</td>
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<td>PricingImport &gt; PriceChange @Type</td>
<td>PPC = Permanent Price Change IPC = Immediate Price Change</td>
<td></td>
</tr>
<tr>
<td>Maintenance Event</td>
<td>EventID</td>
<td>ID_EV</td>
<td>Generated at Stores</td>
<td>Same ID as Event table.</td>
<td></td>
</tr>
<tr>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>PricingImport &gt; PriceChange &gt; StoreID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>NM_EV_MNT</td>
<td>VARCHAR(40)</td>
<td>PricingImport &gt; PriceChange &gt; Description @Text</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TypeCode</td>
<td>TY_EV</td>
<td>VARCHAR(20)</td>
<td>PricingImport &gt; PriceChange @Type</td>
<td>PPC = Permanent Price Change IPC = Immediate Price Change</td>
<td></td>
</tr>
<tr>
<td>EffectiveDate</td>
<td>TS_EV_MNT_EF</td>
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<td>PricingImport &gt; PriceChange @StartDate</td>
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<td></td>
</tr>
<tr>
<td>StatusCode</td>
<td>SC_EV_MNT</td>
<td>VARCHAR(20)</td>
<td>Derived from PricingImport &gt; PriceChange @StartDate</td>
<td>Default = PENDING</td>
<td></td>
</tr>
<tr>
<td>Item Maintenance Event</td>
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<td>ID_EV</td>
<td>Generated at Stores</td>
<td>Same ID as Event table.</td>
<td></td>
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<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>PricingImport &gt; PriceChange &gt; StoreID</td>
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</tr>
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<td>Generated at Stores</td>
<td>Same ID as Event table.</td>
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<td>PricingImport &gt; PriceChange &gt; StoreID</td>
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Table B–9 identifies the Price Promotion element mapping for the PricingImport.xsd file.

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<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
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<td>EventID</td>
<td>ID_EV</td>
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<td>The Promotion ID in this column is the Stores Promotion ID that is created in the import process. The Oracle Retail Price Management promotion ID is not updated in this column.</td>
</tr>
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<td>PricingImport &gt; PricePromotion &gt; StoreID</td>
<td>The Oracle Retail Price Management promotion ID is used to derive the stores promotion ID. Stores database is altered to accommodate the Oracle Retail Price Management promotion ID.</td>
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</tr>
<tr>
<td>External EventID</td>
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</tr>
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<td>Name</td>
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<td>PlanEndDate</td>
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<td>RecordLast Modified Timestamp</td>
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<td>PricingImport &gt; PricePromotion &gt; StoreID</td>
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<tr>
<td>RecordCreation Timestamp</td>
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<td></td>
<td>Now()</td>
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<td></td>
</tr>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now()</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TR_CHN_TMP_PRC TemporaryPrice Change</td>
<td>EventID</td>
<td>ID_EV</td>
<td>Generated at Stores</td>
<td>Same ID as Event table.</td>
<td></td>
</tr>
<tr>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>PricingImport &gt; PricePromotion &gt; StoreID</td>
<td></td>
<td></td>
</tr>
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</table>
### Table B–9  Pricing Import XSD Price Promotion Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
</table>
| SaleUnit Amount                    | MO_UN_TMP_PRC_CHN       | PricingImport > PricePromotion > DiscountAmount> Amount | It can be any of the following:  
- Discount amount  
- Discount percent  
- New price |                                                                 |
| SaleUnit AmountType Code           | TY_UN_TMP_PRC_CHN       | PricingImport > PricePromotion > DiscountPercent |                                                                 | Indicator to denote:  
- 0= AmountOff  
- 1= PercentOff  
- 2= New Price |
| RecordCreation Timestamp           | TS_CRT_RCRD            | Now()                |                                                                 |                                                                                 |
| RecordLast Modified Timestamp      | TS_MDF_RCRD            | Now()                |                                                                 |                                                                                 |
| MA_PRC_ITM EventID                 | ID_EV                   | Generated at Stores  | Same ID as Event table. |                                                                 |
| RetailStoreID                      | ID_STR_RT               | VARCHAR(5)           | PricingImport > PricePromotion > StoreID |                                                                 |
| Priority                           | UN_PRI_EV               | PricingImport > PricePromotion > @Priority |                                                                 |                                                                                 |
| Template                           | 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            | No mapping found     |                                                                                 |
| RecordCreation Timestamp           | TS_CRT_RCRD            | Now()                |                                                                                 |
| RecordLast Modified Timestamp      | TS_MDF_RCRD            | Now()                |                                                                                 |
Table B–9  Pricing Import XSD Price Promotion Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA_ITM_TMP_PRC_CHN</td>
<td>EventID</td>
<td>ID_EV</td>
<td></td>
<td>Generated at Stores</td>
<td>Same ID as Event table.</td>
</tr>
<tr>
<td>TemporaryPrice</td>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>PricingImport &gt; PricePromotion &gt; StoreID</td>
<td></td>
</tr>
<tr>
<td>ChangeItem</td>
<td>Item ID</td>
<td>ID_ITM</td>
<td>VARCHAR(14)</td>
<td>PricingImport &gt; PricePromotion &gt; Item @ID</td>
<td>Here Item ID is required, but Item occurrence can be zero, in this case the promotion details are stored without storing the item details.</td>
</tr>
<tr>
<td></td>
<td>Template</td>
<td>ID_TMPLT_LB</td>
<td>VARCHAR(8)</td>
<td>PricingImport &gt; PricePromotion &gt; TemplateType</td>
<td>DEFAULT</td>
</tr>
<tr>
<td></td>
<td>Price Override</td>
<td>MO_OVRD_PRC</td>
<td></td>
<td>PricingImport &gt; PricePromotion &gt; Item &gt; Price &gt; Amount</td>
<td></td>
</tr>
<tr>
<td>Amount</td>
<td>PromotionID</td>
<td>ID_PRM</td>
<td></td>
<td>PricingImport &gt; PricePromotion &gt; @ID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Promotion</td>
<td>ID_PRM_CMP</td>
<td></td>
<td>PricingImport &gt; PricePromotion &gt; @PromoCompID</td>
<td></td>
</tr>
<tr>
<td>ComponentID</td>
<td>Promotion</td>
<td>ID_PRM_CMP_DTL</td>
<td></td>
<td>PricingImport &gt; PricePromotion &gt; @PromoComp DetlID</td>
<td></td>
</tr>
<tr>
<td>ComponentDetailID</td>
<td>RecordCreation</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now()</td>
<td></td>
</tr>
<tr>
<td>Timestamp</td>
<td>RecordLast</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now()</td>
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<td>Modified Timestamp</td>
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</table>

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

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>PriceDerivationRule RU_PRDV</td>
<td>PriceDerivation RuleID</td>
<td>ID_RU_PRDV</td>
<td></td>
<td></td>
<td>ID from the stores system. This is not the Oracle Retail Price Management promotion ID</td>
</tr>
<tr>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td></td>
<td>DiscountRule &gt; PricingRule &gt; StoreID</td>
<td></td>
</tr>
<tr>
<td>PromotionID</td>
<td>ID_PRM</td>
<td></td>
<td></td>
<td>DiscountRule &gt; PricingRule @ID</td>
<td></td>
</tr>
<tr>
<td>Promotion ComponentID</td>
<td>ID_PRM_CMP</td>
<td></td>
<td></td>
<td>DiscountRule &gt; PricingRule @PromoCompID</td>
<td></td>
</tr>
<tr>
<td>Promotion Component DetailID</td>
<td>ID_PRM_CMP_DTL</td>
<td></td>
<td></td>
<td>DiscountRule &gt; PricingRule @PromoComp DetID</td>
<td></td>
</tr>
<tr>
<td>EffectiveDate</td>
<td>DC_RU_PRDV_EF</td>
<td></td>
<td></td>
<td>DiscountRule &gt; PricingRule @StartDateTime</td>
<td></td>
</tr>
<tr>
<td>ExpirationDate</td>
<td>DC_RU_PRDV_EP</td>
<td></td>
<td></td>
<td>DiscountRule &gt; PricingRule @EndDateTime</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>DE_RU_PRDV</td>
<td>VARCHAR(250)</td>
<td></td>
<td>DiscountRule &gt; PricingRule @Type</td>
<td></td>
</tr>
<tr>
<td>Assignment BasisCode</td>
<td>CD_BAS_PRDV</td>
<td></td>
<td>DiscountRule &gt; Sources@Type</td>
<td>3=Coupon 2=Other Default it to 2</td>
<td></td>
</tr>
<tr>
<td>Source Comparison BasisCode</td>
<td>CD_BAS_CMP_SRC</td>
<td>VARCHAR(20)</td>
<td>DiscountRule &gt; Sources@Type</td>
<td>0=Item 1=Department 2=Class 3=Coupon. Default it to 0.</td>
<td></td>
</tr>
<tr>
<td>Target Comparison BasisCode</td>
<td>CD_BAS_CMP_TGT</td>
<td>VARCHAR(20)</td>
<td>DiscountRule &gt; Targets@Type</td>
<td>0=Item, 1=Department, 2=Class. Default it to 0.</td>
<td></td>
</tr>
<tr>
<td>Application Limit</td>
<td>QU_LM_APLY</td>
<td></td>
<td>DiscountRule &gt; PricingRule @NbrTimes PerTrans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department LedgerStock Modifier</td>
<td>DP_LDG_STK_MDFR</td>
<td></td>
<td>DiscountRule &gt; PricingRule @Accounting Method</td>
<td>1 = Markdown, 0 = Discount</td>
<td></td>
</tr>
<tr>
<td>AllowRepeating SourcesFlag</td>
<td>FL_ALW_RPT_SRC</td>
<td></td>
<td>DiscountRule &gt; PricingRule @AllowSource ToRepeat</td>
<td>0= false, 1= true</td>
<td></td>
</tr>
</tbody>
</table>
### Table B–10 Pricing Import XSD Discount Rule Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deal Distribution Flag</td>
<td>Name</td>
<td>NM_RU_PRDV</td>
<td>VARCHAR(160)</td>
<td>DiscountRule &gt; PricingRule &gt; Name @Text</td>
<td>No database mapping exists. Reserved for future use.</td>
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<tr>
<td>Source Threshold Amount</td>
<td>MO_TH_SRC</td>
<td></td>
<td>DiscountRule &gt; PricingRule &gt; SourceThreshold</td>
<td>No database mapping exists. Reserved for future use.</td>
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</tr>
<tr>
<td>Target Threshold Amount</td>
<td>MO_TH_TGT</td>
<td></td>
<td>DiscountRule &gt; PricingRule &gt; TargetThreshold</td>
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</tr>
<tr>
<td>Target Limit Amount</td>
<td>MO_LM_TGT</td>
<td></td>
<td>DiscountRule &gt; PricingRule &gt; TargetLimit</td>
<td>No database mapping exists. Reserved for future use.</td>
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</tr>
<tr>
<td>SourceAnyQuantity</td>
<td>QU_AN_SRC</td>
<td></td>
<td>DiscountRule &gt; PricingRule &gt; Sources @Qty</td>
<td>The Any Quantity is only populated if Sources@Qualifier is set to Any.</td>
<td></td>
</tr>
<tr>
<td>TargetAnyQuantity</td>
<td>QU_AN_TGT</td>
<td></td>
<td>DiscountRule &gt; PricingRule &gt; Targets @Qty</td>
<td>The Any Quantity is only populated if Targets@Qualifier is set to Any.</td>
<td></td>
</tr>
<tr>
<td>RecordCreation Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now()</td>
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</tr>
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### Table B–10 Pricing Import XSD Discount Rule Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>ItemPrice Derivation RuleEligibility</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>DiscountRule &gt; Sources &gt; Source @ID</td>
<td></td>
</tr>
<tr>
<td>ItemID</td>
<td>ItemID</td>
<td>ID_ITM</td>
<td>VARCHAR(14)</td>
<td>DiscountRule &gt; PricingRule @ID</td>
<td></td>
</tr>
<tr>
<td>PriceDerivation RuleEligibility ID</td>
<td>PriceDerivation RuleEligibility ID</td>
<td>ID_RU_PRDV</td>
<td></td>
<td>DiscountRule &gt; PricingRule &gt; StoreID</td>
<td></td>
</tr>
<tr>
<td>RetailStoreID</td>
<td>Threshold Quantity</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>DiscountRule &gt; Sources &gt; Source @Qty</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No database mapping exists. Reserved for future use.</td>
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</tr>
<tr>
<td></td>
<td>Threshold Amount</td>
<td>MO_TH</td>
<td></td>
<td>DiscountRule &gt; Sources &gt; Source @CurrencyCode</td>
<td></td>
</tr>
<tr>
<td>EffectiveDate Timestamp</td>
<td>EffectiveDate Timestamp</td>
<td>TS_RU_DRVN_EF</td>
<td></td>
<td>DiscountRule &gt; PricingRule @StartDateTime</td>
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</tr>
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<td>ExpirationDate Timestamp</td>
<td>ExpirationDate Timestamp</td>
<td>TS_RU_DRVN_EF</td>
<td></td>
<td>DiscountRule &gt; PricingRule @EndDateTime</td>
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</tr>
<tr>
<td>RecordCreation Timestamp</td>
<td>RecordCreation Timestamp</td>
<td>TS_CRT_RCRD</td>
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<tr>
<td>RecordLast Modified Timestamp</td>
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<td>MixAndMatch PriceDerivation Item</td>
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<td>DiscountRule &gt; PricingRule @ID</td>
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<tr>
<td></td>
<td>MixAndMatch PriceDerivation Item</td>
<td>TR_ITM_MXMH_PRDV</td>
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<tr>
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<td>VARCHAR(5)</td>
<td>DiscountRule &gt; PricingRule &gt; StoreID</td>
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</tr>
<tr>
<td></td>
<td>Promotional ProductID</td>
<td>ID_PRM_PRD</td>
<td>VARCHAR(14)</td>
<td>DiscountRule &gt; Targets &gt; Target @ID</td>
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<td>No database mapping exists. Reserved for future use.</td>
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<td>Log/Physical table</td>
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<td>Maximum Column Size</td>
<td>XSD Element/Attribute Path</td>
<td>Notes</td>
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<tr>
<td>Reduction Monetary Amount</td>
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<td>DiscountRule &gt; Targets &gt; DiscountAmount</td>
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<tr>
<td>Reduction Percent</td>
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<td>DiscountRule &gt; Targets &gt; DiscountPercent</td>
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<tr>
<td>MixAndMatch LimitCount</td>
<td>QU_LM_MXMH</td>
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<td></td>
<td>DiscountRule &gt; Targets &gt; Target @Qty</td>
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</tr>
<tr>
<td>RecordCreation Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td></td>
<td>Now()</td>
<td></td>
</tr>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
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<td></td>
<td>Now()</td>
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</tr>
<tr>
<td>ItemPrice Derivation RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
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<td>DiscountRule &gt; PricingRule &gt; StoreID</td>
<td></td>
</tr>
<tr>
<td>PriceDerivation RuleID</td>
<td>ID_RU_PRDV</td>
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<td></td>
<td>DiscountRule &gt; PricingRule @ID</td>
<td></td>
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<tr>
<td>Reduction Amount</td>
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<td>DiscountRule &gt; Targets &gt; DiscountAmount</td>
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<tr>
<td>Reduction Percent</td>
<td>PE_UN_ITM_PRDV</td>
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<td>DiscountRule &gt; Targets &gt; DiscountPercent</td>
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<tr>
<td>DiscountPrice Point</td>
<td>PNT_PRC_UN_ITM_PRDV</td>
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</tr>
<tr>
<td>RecordCreation Timestamp</td>
<td>TS_CRT_RCRD</td>
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<td>Now()</td>
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</tr>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
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<td>Now()</td>
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</tr>
<tr>
<td>MixAndMatch PriceDerivation Rule RU_PRDV_MXMH RetailStoreID</td>
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<td>VARCHAR(5)</td>
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<td>DiscountRule &gt; PricingRule &gt; StoreID</td>
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<tr>
<td>PriceDerivation RuleID</td>
<td>ID_RU_PRDV</td>
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<td></td>
<td>DiscountRule &gt; PricingRule @ID</td>
<td></td>
</tr>
<tr>
<td>MixAndMatch LimitCount</td>
<td>QU_LM_MXMH</td>
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<td></td>
<td>DiscountRule &gt; Targets &gt; Target @Qty</td>
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</tbody>
</table>
### Table B–10 Pricing Import XSD Discount Rule Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
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<tbody>
<tr>
<td>DepartmentPrice Derivation RuleEligibility</td>
<td>POSDepartment ID</td>
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<td>VARCHAR(14)</td>
<td>DiscountRule &gt; Sources &gt; Source @ID</td>
<td>Might be derived from the table ID_DPT_PS column ID_DPT_POS</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>CO_EL_PRDV_DPT</td>
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<tr>
<td></td>
<td>PriceDerivation RuleID</td>
<td>ID_RU_PRDV</td>
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<td>ID from the stores system. This is not the Oracle Retail Price Management promotion ID.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>Store ID</td>
<td></td>
</tr>
<tr>
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<td>StoreFinancial Ledger AccountID</td>
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<tr>
<td></td>
<td>EventID</td>
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<td>No mapping available</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accounting Disposition Code</td>
<td>DP_ACNT_DPT_PRDV</td>
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<td>No mapping available</td>
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<tr>
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<td>DiscountRule &gt; Sources &gt; Source &gt; SourceAmount</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Threshold Quantity</td>
<td>QU_TH</td>
<td></td>
<td>DiscountRule &gt; Sources &gt; Source @Qty</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LimitQuantity</td>
<td>QU_UL</td>
<td></td>
<td>No mapping available</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LimitAmount</td>
<td>MO_UL</td>
<td></td>
<td>No mapping available</td>
<td></td>
</tr>
<tr>
<td>Effective Timestamp</td>
<td>TS_RU_MRST_EF</td>
<td></td>
<td></td>
<td>DiscountRule &gt; PricingRule @StartDateTime</td>
<td></td>
</tr>
<tr>
<td>Expiration Timestamp</td>
<td>TS_RU_MRST_EP</td>
<td></td>
<td></td>
<td>DiscountRule &gt; PricingRule @EndDateTime</td>
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</tr>
<tr>
<td>RecordCreated Timestamp</td>
<td>TS_CRT_RCRD</td>
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<td>Now()</td>
<td></td>
</tr>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td></td>
<td>Now()</td>
<td></td>
</tr>
</tbody>
</table>
Table B–11 identifies the Oracle Retail Merchandising System export files element mapping for the PricingImport.xsd file.

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<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merchandise StructurePrice Derivation RuleEligibility CO_EL_MRST_PRDV</td>
<td>PriceDerivation RuleID</td>
<td>ID_RU_PRDV</td>
<td>ID from the stores system. This is not the Oracle Retail Price Management promotion ID.</td>
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### Table B–11 Pricing Import XSD Oracle Retail Merchandising System Export Files Mapping Table

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The following is an example Pricing Import XSD file.

Example B–7 PricingImport.xsd

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

<!-- $Log:$ -->

<xs:annotation>
    <xs:documentation>
        Pricing Import Schema. Copyright 2007 Oracle Inc. All rights reserved.
        Use this schema in conjunction with an Oracle Store Systems Data Dictionary and the relations between the element and attribute names should be apparent.
    </xs:documentation>
</xs:annotation>

<xs:element name="PricingImport">
    <xs:annotation>
        <xs:documentation>
            Top-level element holding a collection of Price records.
        </xs:documentation>
    </xs:annotation>
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<th>XSD Element/Attribute Path</th>
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    <xs:element name="SourceLimit" type="Amount" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="TargetThreshold" type="Amount" minOccurs="0" maxOccurs="unbounded"/>
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  </xs:sequence>
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  <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 EndDateTime 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>
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    <xs:enumeration value="PercentOff"/>
    <xs:enumeration value="NewPrice"/>
  </xs:restriction>
</xs:simpleType>

maxOccurs='unbounded'/>
</xs:sequence>
<xs:attribute name="ChangeType" type="ChangeType" default="ADD"/>
<xs:attribute name="ID" type="xs:string" 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 EndDateTime 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:complexType name="Sources">
  <xs:sequence>
    <xs:element name="Source" minOccurs="1" maxOccurs="unbounded">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="SourceAmount" type="Amount" 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">
  <xs:sequence>
    <xs:element name="Target" minOccurs="0" maxOccurs="unbounded">
      <xs:complexType>
        <xs:attribute name="ID" type="xs:string" use="required" />
        <xs:attribute name="Qty" type="xs:int" default="1" />
      </xs:complexType>
    </xs:element>
    <xs:group ref="DiscountTypeChoice" minOccurs="1" maxOccurs="1" />
  </xs:sequence>
  <xs:attributeGroup ref="SourceTargetAttributes" />
</xs:complexType>

<xs:simpleType name="RuleTypeType">
  <xs:documentation>
    If not specified, it is assumed that the Qualifier is Any.
  </xs:documentation>
  <xs:attribute name="Type" type="SourceTargetType" default="Item" />
  <xs:attribute name="Qualifier" type="QualifierType" default="Any">
    <xs:annotation>
      <xs:documentation>
        If not specified, it is assumed that the Qualifier is Any.
      </xs:documentation>
    </xs:annotation>
    <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:attribute>
  <xs:attributeGroup name="SourceTargetAttributes">
    <xs:attribute name="Type" type="SourceTargetType" default="Item" />
    <xs:attribute name="Qualifier" type="QualifierType" default="Any">
      <xs:annotation>
        <xs:documentation>
          If not specified, it is assumed that the Qualifier is Any.
        </xs:documentation>
      </xs:annotation>
      <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:attribute>
  </xs:attributeGroup>
</xs:simpleType>
<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:restriction>
</xs:simpleType>

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

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

<xs:simpleType name="ScopeType">
<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">
<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:complexType name="Amount">
<xs:annotation>
<xs:documentation>An array of multiple values; each a different currency type.</xs:documentation>
</xs:annotation>
<xs:simpleContent>
<xs:extension base="Currency">
<xs:attribute name="CurrencyCode" type="CurrencyCode">
<xs:annotation>
<xs:documentation>Not specifying the currency code will assume that the currency type should default to the system default currency.</xs:documentation>
</xs:annotation>
</xs:attribute>
</xs:extension>
</xs:simpleContent>
</xs:complexType>
The following is an example Pricing Import XML file.

**Example B–8 PricingImport.xml**

```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">
</PricingImport>
```
<!-- Price Change, multiple stores -->

<PriceChange
    ChangeType="ADD"
    ID="093040000859"
    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"
    ID="093040000860"
    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>
    <StoreID>04243</StoreID>
</PriceChange>

<!-- Promotion - Percent Off -->

<PricePromotion
    ChangeType="ADD"
    ID="093040000860"
    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>
</PricePromotion>

<!-- Promotion - Percent Off -->

<PricePromotion
    ChangeType="ADD"
    ID="093040001113"
    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>
</PricePromotion>
<!-- Discount Rules -->

<!-- BuyNofXGetYatZ%off - Multiple source items, multiple target items. -->

<DiscountRule>
  <PricingRule
    ChangeType='ADD'
    ID='0011150335'
    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='0011150335'
    PromoCompID='123'
    PromoCompDetlID='456'
    StartDateTime='2007-01-28T00:00:00'
    EndDateTime='2007-01-28T23:59:59'
    Type='BuyNofXGetYatZ$off'
    NbrTimesPerTrans='1'
    AccountingMethod='Discount'
    AllowSourceToRepeat='true'
    DealDistribution='Target'>
    <Name>Bootcut Jean/Sweater Rule</Name>
    <SourceThreshold>5.00</SourceThreshold>
</DiscountRule>
<DiscountRule>
  <PricingRule
    ChangeType="ADD"
    ID="0011150335"
    PromoCompID="123"
    PromoCompDetlID="456"
    StartDateTime="2007-01-28T00:00:00"
    EndDateTime="2007-01-28T23:59:59"
    Type="BuyNofXgetYatZ$"
    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="0011150335"
    PromoCompID="123"
<PricingRule ChangeType='ADD' ID='0011150335' 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>

<PricingRule ChangeType='ADD' ID='0011150335' 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>

<PricingRule ChangeType='ADD' ID='0011150335' 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>
<PricingRule>
  <ChangeType>ADD</ChangeType>
  <ID>0011150335</ID>
  <PromoCompID>123</PromoCompID>
  <PromoCompDetlID>456</PromoCompDetlID>
  <StartDateTime>2007-01-28T00:00:00</StartDateTime>
  <EndDateTime>2007-01-28T23:59:59</EndDateTime>
  <Type>BuyNofXforZ$off</Type>
  <NbrTimesPerTrans>1</NbrTimesPerTrans>
  <AccountingMethod>Discount</AccountingMethod>
  <AllowSourceToRepeat>true</AllowSourceToRepeat>
  <DealDistribution>Target</DealDistribution>
  <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$ - Multiple source items. -->

<DiscountRule>
  <PricingRule>
    <ChangeType>ADD</ChangeType>
    <ID>0011150335</ID>
    <PromoCompID>123</PromoCompID>
    <PromoCompDetlID>456</PromoCompDetlID>
    <StartDateTime>2007-01-28T00:00:00</StartDateTime>
    <EndDateTime>2007-01-28T23:59:59</EndDateTime>
    <Type>BuyNofXforZ$off</Type>
    <NbrTimesPerTrans>1</NbrTimesPerTrans>
    <AccountingMethod>Discount</AccountingMethod>
    <AllowSourceToRepeat>true</AllowSourceToRepeat>
    <DealDistribution>Target</DealDistribution>
    <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>
    <DiscountAmount>2.00</DiscountAmount>
  </Targets>
</DiscountRule>

<!-- BuyNofXforZ$ - Multiple source items. -->

<DiscountRule>
  <PricingRule>
    <ChangeType>ADD</ChangeType>
    <ID>0011150335</ID>
    <PromoCompID>123</PromoCompID>
    <PromoCompDetlID>456</PromoCompDetlID>
    <StartDateTime>2007-01-28T00:00:00</StartDateTime>
    <EndDateTime>2007-01-28T23:59:59</EndDateTime>
    <Type>BuyNofXforZ$off</Type>
    <NbrTimesPerTrans>1</NbrTimesPerTrans>
    <AccountingMethod>Discount</AccountingMethod>
    <AllowSourceToRepeat>true</AllowSourceToRepeat>
    <DealDistribution>Target</DealDistribution>
    <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>
    <DiscountAmount>2.00</DiscountAmount>
  </Targets>
</DiscountRule>
<PricingRule
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='0011150335'
    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='0011150335'
    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>
StartDateTime="2007-01-28T00:00:00"
EndDateTime='2007-01-28T23:59:59'
Type='BuySNorMoreOfXgetYatZ%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>
<Targets>
  <DiscountPercent>10</DiscountPercent>
  <Target ID="1234" Qty="1"/>
</Targets>
</DiscountRule>
</PricingImport>
### Store Hierarchy Import

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

#### Table B–12  Store Hierarchy Import XSD Preload Data Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>StoreRegions</td>
<td>RegionID</td>
<td>ID_STR_RGN</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; StoreRegion &gt; RegionID</td>
<td></td>
</tr>
<tr>
<td>LO_STR_RGN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RegionName</td>
<td>NM_STR_RGN</td>
<td>VARCHAR(120)</td>
<td>PreloadData &gt; StoreRegion &gt; RegionName</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordCreate</td>
<td>TS_CRT_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordModify</td>
<td>TS_MDF_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>StoreDistricts</td>
<td>DistrictID</td>
<td>ID_STR_DISTRCT</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; StoreDistrict &gt; DistrictID</td>
<td></td>
</tr>
<tr>
<td>LO_STR_DISTRCT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RegionID</td>
<td>ID_STR_RGN</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; StoreDistrict &gt; RegionID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DistrcitName</td>
<td>NM_STR_DISTRCT</td>
<td>VARCHAR(120)</td>
<td>PreloadData &gt; StoreDistrict &gt; DistrictName</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordCreate</td>
<td>TS_CRT_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordModify</td>
<td>TS_MDF_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RetailStore</td>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>PreloadData &gt; RetailStore &gt; RetailStoreID</td>
<td></td>
</tr>
<tr>
<td>PA_STR_RTL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LocationName</td>
<td>NM_LOC</td>
<td>VARCHAR(150)</td>
<td>PreloadData &gt; RetailStore &gt; LocationName</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DistrictID</td>
<td>ID_STR_DISTRCT</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; RetailStore &gt; DistrictID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RegionID</td>
<td>ID_STR_RGN</td>
<td>VARCHAR(14)</td>
<td>PreloadData &gt; RetailStore &gt; RegionID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GeoCode</td>
<td>ID_CD_GEO</td>
<td>VARCHAR(10)</td>
<td>PreloadData &gt; RetailStore &gt; GeoCode</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordCreate</td>
<td>TS_CRT_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RecordModify</td>
<td>TS_MDF_RCRD</td>
<td>Now( )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Log/Physical table</td>
<td>Target</td>
<td>Physical Column Name</td>
<td>Maximum Column Size</td>
<td>XSD Element/Attribute Path</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------</td>
<td>----------------------</td>
<td>---------------------</td>
<td>-----------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Address</td>
<td>AddressID</td>
<td>ID_ADS</td>
<td></td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; AddressID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AddressType Code</td>
<td>TY_ADS</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; AddressTypeCode</td>
<td>Home=0 Work=0 Mail=3 Other=2</td>
</tr>
<tr>
<td>PartyID</td>
<td>ID_PRTY</td>
<td></td>
<td></td>
<td></td>
<td>Derive from TY_ADS</td>
</tr>
<tr>
<td>ContactAddress Line1</td>
<td>A1_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; AddressLine1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ContactAddress Line2</td>
<td>A2_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; AddressLine2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ContactAddress Line3</td>
<td>A3_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; AddressLine3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ContactAddress City</td>
<td>CI_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; City</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ContactAddress State</td>
<td>ST_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; State</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ContactAddress PostalCode</td>
<td>PC_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; PostalCode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ContactAddress Territory</td>
<td>TE_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; Territory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ContactAddress Country</td>
<td>CO_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; Country</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table B–13 Store Hierarchy Import XSD Element Mapping Table

<table>
<thead>
<tr>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RetailStore</td>
<td>Group FunctionID</td>
<td>ID_STRGP_FNC</td>
<td>HierarchyList &gt; Hierarchy@FunctionID</td>
</tr>
<tr>
<td>NM_STRGP_FNC</td>
<td>VARCHAR(120)</td>
<td>HierarchyList &gt; Hierarchy@Name</td>
<td></td>
</tr>
<tr>
<td>ID_STRGP_LV</td>
<td></td>
<td>HierarchyList &gt; LevelList &gt; Level@ID</td>
<td></td>
</tr>
<tr>
<td>NM_STRGP_LV_PRNT</td>
<td></td>
<td>HierarchyList &gt; Hierarchy &gt; LevelList &gt; Level@ParentID</td>
<td></td>
</tr>
<tr>
<td>NM_STRGP_LV</td>
<td>VARCHAR(120)</td>
<td>HierarchyList &gt; Hierarchy &gt; LevelList &gt; Level@Name</td>
<td></td>
</tr>
<tr>
<td>ID_STRGP_LV_PRNT</td>
<td></td>
<td>Homes</td>
<td>Now ( )</td>
</tr>
<tr>
<td>ID_STRGP_LV</td>
<td></td>
<td>RecordCreate Timestamp</td>
<td>Now ( )</td>
</tr>
<tr>
<td>ID_STRGP_LV_PRNT</td>
<td></td>
<td>RecordModify Timestamp</td>
<td>Now ( )</td>
</tr>
</tbody>
</table>

### Table B–12 Store Hierarchy Import XSD Preload Data Mapping Table

<table>
<thead>
<tr>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; TelephoneCountryCode</td>
<td></td>
</tr>
<tr>
<td>TA_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; TelephoneAreaCode</td>
<td></td>
</tr>
<tr>
<td>TL_CNCT</td>
<td>VARCHAR(30)</td>
<td>PreloadData &gt; RetailStore &gt; Address &gt; TelephoneLocalNumber</td>
<td></td>
</tr>
</tbody>
</table>

Table B–13 identifies the element mapping for the StoreHierarchyImport.xsd file.
<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssociatedRetail</td>
<td>RetailStore StoreGroup</td>
<td>ID_STRGRP_</td>
<td></td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td>ST_ASCTN_STRGP</td>
<td>FunctionID</td>
<td>FNC</td>
<td></td>
<td>Hierarchy@FunctionID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RetailStore GroupParentID</td>
<td>ID_STRGRP_</td>
<td></td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PRNT</td>
<td></td>
<td></td>
<td>Hierarchy &gt; NodeList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Node@ParentNode ID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RetailStore GroupChildID</td>
<td>ID_STRGRP_</td>
<td></td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHLD</td>
<td></td>
<td></td>
<td>Hierarchy &gt; NodeList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Node@ID</td>
<td></td>
</tr>
<tr>
<td>RecordCreate Timestamp</td>
<td>TS_CRT_</td>
<td></td>
<td></td>
<td></td>
<td>Now( )</td>
</tr>
<tr>
<td>RecordModify Timestamp</td>
<td>TS_MDF_</td>
<td></td>
<td></td>
<td></td>
<td>Now( )</td>
</tr>
<tr>
<td>AssociatedRetail</td>
<td>RetailStoreID</td>
<td>ID_STR_RT</td>
<td>VARCHAR(5)</td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td>ST_ASCTN_STRGP_STR</td>
<td></td>
<td></td>
<td></td>
<td>Hierarchy &gt; NodeList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RetailStoreID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RetailStore GroupID</td>
<td>ID_STRGRP</td>
<td>VARCHAR(14)</td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Hierarchy &gt; NodeList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Node@ID</td>
<td></td>
</tr>
<tr>
<td>RecordCreate Timestamp</td>
<td>TS_CRT_</td>
<td></td>
<td></td>
<td></td>
<td>Now( )</td>
</tr>
<tr>
<td>RecordModify Timestamp</td>
<td>TS_MDF_</td>
<td></td>
<td></td>
<td></td>
<td>Now( )</td>
</tr>
<tr>
<td>RetailStoreGroup</td>
<td>RetailStore GroupID</td>
<td>ID_STRGP</td>
<td>VARCHAR(14)</td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td>CO_STRGRP</td>
<td></td>
<td></td>
<td></td>
<td>Hierarchy &gt; NodeList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Node@ID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RetailStore GroupFunctionID</td>
<td>ID_STRGRP_</td>
<td></td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FNC</td>
<td></td>
<td></td>
<td>Hierarchy@FunctionID</td>
<td></td>
</tr>
<tr>
<td>ParentStore Hierarchy</td>
<td>ID_STRGP_LV</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LevelID</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RetailStore GroupName</td>
<td>NM_STRGP</td>
<td></td>
<td>VARCHAR(120)</td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Hierarchy &gt; NodeList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Node@Name</td>
<td></td>
</tr>
<tr>
<td>RetailStore Group</td>
<td>DE_STRGP</td>
<td></td>
<td>VARCHAR(250)</td>
<td>HierarchyList &gt;</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td></td>
<td></td>
<td></td>
<td>Hierarchy &gt; NodeList &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Node@Description</td>
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</tr>
</tbody>
</table>
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
  <!-- $Log:$ -->
  <xs:annotation>
    <xs:documentation>Store Hierarchy Import Schema. Copyright 2006 Oracle. All rights reserved.</xs:documentation>
  </xs:annotation>

  <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" 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:complexType>
            <xs:sequence>
              <xs:element name="HierarchyList" type="HierarchyList" 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:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

---

Table B–13  Store Hierarchy Import XSD Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RecordCreate Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now()</td>
<td></td>
</tr>
<tr>
<td>RecordModify Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now()</td>
<td></td>
</tr>
<tr>
<td>RecordCreate Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td>Now()</td>
<td></td>
</tr>
<tr>
<td>RecordModify Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td>Now()</td>
<td></td>
</tr>
</tbody>
</table>

Example B–9  StoreHierarchyImport.xsd

<!-- $Log:$ -->
<xs:annotation><xs:documentation>
Store Hierarchy Import Schema. Copyright 2006 Oracle. All rights reserved.
</xs:documentation></xs:annotation>

<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" 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:complexType>
          <xs:sequence>
            <xs:element name="HierarchyList" type="HierarchyList" 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:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

---
<xs:complexType name="StoreRegion">
  <xs:sequence>
    <xs:element name="ChangeType" type="ChangeType" maxOccurs="1" minOccurs="1" />
    <xs:element name="RegionID" type="xs:string" maxOccurs="1" minOccurs="1" />
    <xs:element name="RegionName" type="xs:string" maxOccurs="1" minOccurs="0" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="StoreDistrict">
  <xs:sequence>
    <xs:element name="ChangeType" type="ChangeType" 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:element name="DistrictName" type="xs:string" maxOccurs="1" minOccurs="0" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="RetailStore">
  <xs:sequence>
    <xs:element name="ChangeType" type="ChangeType" maxOccurs="1" minOccurs="1" />
    <xs:element name="RetailStoreID" type="RetailStoreId" maxOccurs="1" minOccurs="1" />
    <xs:element name="LocationName" type="xs:string" maxOccurs="1" minOccurs="0" />
    <xs:element name="DistrictID" type="xs:string" maxOccurs="1" minOccurs="0" />
    <xs:element name="RegionID" type="xs:string" maxOccurs="1" minOccurs="0" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="PreloadData">
  <xs:sequence>
    <xs:element name="StoreRegion" type="StoreRegion" minOccurs="0" maxOccurs="unbounded" />
    <xs:element name="StoreDistrict" type="StoreDistrict" minOccurs="0" maxOccurs="unbounded" />
    <xs:element name="RetailStore" type="RetailStore" minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GeoCode">
  <xs:sequence>
    <xs:element name="Address" type="Address" maxOccurs="1" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Address">
  <xs:sequence>
    <xs:element name="AddressID" type="xs:int" maxOccurs="1" minOccurs="1"/>
    <xs:element name="AddressTypeID" 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">
  <xs:sequence>
    <xs:element name="Hierarchy" type="Hierarchy" minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Hierarchy">
  <xs:sequence>
    <xs:element name="LevelList" type="LevelList" minOccurs="0" maxOccurs="1" />
    <xs:element name="NodeList" type="NodeList" 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">
  <xs:sequence>
    <xs:element name="Level" type="Level" minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

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

<xs:complexType name="Level">
  <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: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:attribute>
  <![--
  <!--}>
  </xs:complexType>

<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:complexType name="Node">
  <xs:attribute name="ID" type="xs:int" use="required">
    <![--
    <!--}>
  </xs:complexType>

<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>
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.

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.
The following is an example Store Hierarchy Import XML file.

Example B–10 StoreHierarchyImport.xml

```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>
<RegionName>Florida</RegionName>
</StoreRegion>
<StoreRegion>
<ChangeType>ADD</ChangeType>
<RegionID>00003</RegionID>
<RegionName>Louisiana</RegionName>
</StoreRegion>
<StoreRegion>
<ChangeType>ADD</ChangeType>
<RegionID>00004</RegionID>
<RegionName>New Mexico</RegionName>
</StoreRegion>
</PreloadData>
</StoreHierarchy>
```
<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>
  <DistrictName>Austin</DistrictName>
</StoreDistrict>

<StoreDistrict>
  <ChangeType>ADD</ChangeType>
  <DistrictID>00003</DistrictID>
  <RegionID>00001</RegionID>
  <DistrictName>Cedar Park</DistrictName>
</StoreDistrict>

<StoreDistrict>
  <ChangeType>ADD</ChangeType>
  <DistrictID>00004</DistrictID>
  <RegionID>00002</RegionID>
  <DistrictName>Boca Raton</DistrictName>
</StoreDistrict>

<StoreDistrict>
  <ChangeType>ADD</ChangeType>
  <DistrictID>00005</DistrictID>
  <RegionID>00002</RegionID>
  <DistrictName>Boynton Beach</DistrictName>
</StoreDistrict>

<StoreDistrict>
  <ChangeType>ADD</ChangeType>
  <DistrictID>00006</DistrictID>
  <RegionID>00004</RegionID>
  <DistrictName>Lea</DistrictName>
</StoreDistrict>

<StoreDistrict>
  <ChangeType>ADD</ChangeType>
  <DistrictID>00007</DistrictID>
  <RegionID>00004</RegionID>
  <DistrictName>Eddy</DistrictName>
</StoreDistrict>

<StoreDistrict>
  <ChangeType>ADD</ChangeType>
  <DistrictID>00008</DistrictID>
  <RegionID>00004</RegionID>
  <DistrictName>Chaves</DistrictName>
</StoreDistrict>

<RetailStore>
  <ChangeType>ADD</ChangeType>
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Tax Import

Table B–14 identifies the element mapping for the TaxImport.xsd file.
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### Table B–14  Tax Import XSD Element Mapping Table

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<td></td>
<td>TaxRuleName</td>
<td>NM_RU_TX</td>
<td>VARCHAR(40)</td>
<td>TaxGroupRule &gt; TaxRuleName</td>
<td></td>
</tr>
<tr>
<td>Log/Physical table</td>
<td>Target</td>
<td>Physical Column Name</td>
<td>Maximum Column Size</td>
<td>XSD Element/Attribute Path</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------</td>
<td>----------------------</td>
<td>---------------------</td>
<td>---------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>TaxRule Description</td>
<td>DE_RU_TX</td>
<td>VARCHAR(250)</td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxRule Description</td>
<td></td>
</tr>
<tr>
<td>Compound Sequence Number</td>
<td>AI_CMPND</td>
<td></td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CompoundRate SequenceNumber</td>
<td></td>
</tr>
<tr>
<td>TaxOnGross AmountFlag</td>
<td>FL_TX_GS_AMT</td>
<td></td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxOnGross AmountFlag</td>
<td>false=0, true=1</td>
</tr>
<tr>
<td>CalculationMethod Code</td>
<td>CD_CAL_MTH</td>
<td></td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CalculationMethod Code</td>
<td></td>
</tr>
<tr>
<td>TaxRateRuleUsage Code</td>
<td>CD_TX_RT_RU_USG</td>
<td></td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxRateRuleUsage Code</td>
<td>PercentageOr Amount=1 DeriveFromTax Table=2 UseThreshold Amount=3</td>
</tr>
<tr>
<td>InclusiveTaxFlag</td>
<td>FL_TX_INC</td>
<td></td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>InclusiveTaxFlag</td>
<td></td>
</tr>
<tr>
<td>RecordCreation Timestamp</td>
<td>TS_CRT_RCRD</td>
<td></td>
<td></td>
<td></td>
<td>NOW()</td>
</tr>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td></td>
<td></td>
<td></td>
<td>NOW()</td>
</tr>
<tr>
<td>TaxRateRule RU_TX_RT</td>
<td>TaxAuthorityID</td>
<td>ID_ATHY_TX</td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxAuthorityID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TaxGroupID</td>
<td>ID_GP_TX</td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxGroupID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TaxType</td>
<td>TY_TX</td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxTypeID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TaxHolidayFlag</td>
<td>FLG_TX_HDY</td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxHolidayFlag</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TaxRateRuleSequenceNumber</td>
<td>AI_TX_RT_RU</td>
<td></td>
<td></td>
<td>Element position (First element = 1). If not specified, defaults to 1.</td>
</tr>
<tr>
<td>TypeCode</td>
<td>CD_TYP</td>
<td></td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxRateRule &gt; RateTypeCode</td>
<td>Percentage=1 Amount=2</td>
</tr>
<tr>
<td></td>
<td>TaxPercentage</td>
<td>PE_TX</td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxRateRule &gt; TaxPercentageRate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TaxAmount</td>
<td>MO_TX</td>
<td></td>
<td>TaxGroupRule &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TaxRateRule &gt; TaxAmount</td>
<td></td>
</tr>
</tbody>
</table>
### Table B–14  Tax Import XSD Element Mapping Table

<table>
<thead>
<tr>
<th>Log/Physical table</th>
<th>Target</th>
<th>Physical Column Name</th>
<th>Maximum Column Size</th>
<th>XSD Element/Attribute Path</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TaxAbove Threshold AmountFlag</td>
<td>FL_TX_ABV_TH_MO</td>
<td>TaxGroupRule &gt; TaxRateRule &gt; TaxAboveThresholdAmountFlag</td>
<td>TaxAbove Threshold Amount=0 TaxEntire Amount=1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TaxThreshold Amount</td>
<td>MO_TX_TH</td>
<td>TaxGroupRule &gt; TaxRateRule &gt; ThresholdAmount</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Taxable Amount</td>
<td>MO_TXBL_MIN</td>
<td>TaxGroupRule &gt; TaxRateRule &gt; Minimum Taxable Amount</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Taxable Amount</td>
<td>MO_TXBL_MAX</td>
<td>TaxGroupRule &gt; TaxRateRule &gt; Maximum Taxable Amount</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TaxRateEffectiveTimestamp</td>
<td>TS_RT_TX_EF</td>
<td>TaxGroupRule &gt; TaxRateRule &gt; TaxRateEffectiveTimestamp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TaxRateExpiration Timestamp</td>
<td>TS_RT_TX_EP</td>
<td>TaxGroupRule &gt; TaxRateRule &gt; TaxRateExpiration Timestamp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordCreation Timestamp</td>
<td>TS_CRT_RCRD</td>
<td>NOW()</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RecordLast Modified Timestamp</td>
<td>TS_MDF_RCRD</td>
<td>NOW()</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Example B–11  TaxImport.xsd

<xml version="1.0" encoding="UTF-8"/>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:element name="TaxImport" type="TaxImport">
<xs:annotation>
<xs:documentation>
Copyright (c) 2006, Oracle. 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">
<xs:sequence>
<xs:element name="GEOCode" type="GEOCode" minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="GEOTaxJurisdiction" type="GEOTaxJurisdiction" minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="TaxAuthority" type="TaxAuthority" minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="TaxableGroup" type="TaxableGroup" minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="TaxGroupRule" type="TaxGroupRule" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="FillType" type="FillType" 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:complexType name="TaxAuthority">
<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" maxOccurs="unbounded"/>
<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:sequence>
</xs:complexType>
<xs:complexType name="TaxableGroup">
<xs:sequence>
<xs:element name="TaxGroupID" type="xs:integer" minOccurs="1" maxOccurs="1"/>
<xs:element name="TaxGroupName" type="xs:string" minOccurs="1" maxOccurs="1"/>
<xs:element name="TaxGroupDescription" type="xs:string"/>
<xs:element name="ReceiptPrintCode" type="xs:string" minOccurs="0" maxOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:complexType>
</xs:element>
</xs:complexType>
</xs:schema>
The following is an example Tax Import XML file.

**Example B–12 TaxImport.xml**

```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>
</TaxImport>
```
</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>
</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>
The following are assumptions about the behavior of RPM with regard to Pricing Rules:

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

*Figure C–1 RPM to Strategic Stores Solutions Pricing Map*
The following are RPM 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

RPM 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.
- RPM and RMS 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. RPM promotions would always have an Allow Repeating Sources Indicator set to Y.

<table>
<thead>
<tr>
<th>Promotion Type</th>
<th>Example</th>
<th>RPM Promotion Type</th>
<th>RPM Setup</th>
<th>Compatible</th>
<th>Comments</th>
<th>Resolution to Make Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buy N of X, Get Y at $Z%$ off regular Price.</td>
<td>Buy two pairs of jeans, get a sweater at 50% off.</td>
<td>Buy/Get</td>
<td>Buy Type = ANY, Discount %off, Buy Value = N</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buy N of X, Get Y at $Z$ off regular Price.</td>
<td>Buy two pairs of jeans, get $10 off of a sweater.</td>
<td>Buy/Get</td>
<td>Buy Type = ANY, Discount Amount off, Buy Value = N</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buy N of X, Get Y at $Z$ .</td>
<td>Buy two pairs of jeans, get a sweater for $20.</td>
<td>Buy/Get</td>
<td>Buy Type = ANY, Discount Fixed Amount, Buy Value = N</td>
<td>Maybe</td>
<td>RPM can change the selling UOM when discount is fixed amount.</td>
<td></td>
</tr>
<tr>
<td>Buy $N$ of X, Get Y at $Z$% off regular Price.</td>
<td>Buy $40$ worth of jeans, get a sweater at 50% off.</td>
<td></td>
<td></td>
<td>No</td>
<td>RPM does not allow a Buy type of “Value” for Buy Gets.</td>
<td>RPM would need to add Buy type of ANY Value.</td>
</tr>
<tr>
<td>Buy $N$ of X, Get Y at $Z$ off regular Price.</td>
<td>Buy $40$ worth of jeans, get $10 off of a sweater.</td>
<td></td>
<td></td>
<td>No</td>
<td>RPM does not allow a Buy type of “Value” for Buy Gets.</td>
<td>RPM would need to add Buy type of ANY Value.</td>
</tr>
</tbody>
</table>
## Table C–1  Buy/Get

<table>
<thead>
<tr>
<th>Promotion Type</th>
<th>Example</th>
<th>RPM Promotion Type</th>
<th>RPM Setup</th>
<th>Compatible</th>
<th>Comments</th>
<th>Resolution to Make Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buy $N$ of $X$, Get $Y$ at $Z%$ off.</td>
<td>Buy $40$ worth of jeans, get a sweater for $20$.</td>
<td>Buy Type = ANY, Discount %off, Buy Value = $N$</td>
<td>No</td>
<td>RPM does not allow a Buy type of &quot;Value&quot; for Buy Gets.</td>
<td>RPM would need to add Buy type of ANY Value.</td>
<td></td>
</tr>
<tr>
<td>Buy $N$ of $X$, Get Lowest Priced $Y$ at $Z%$ off.</td>
<td>Buy/Get</td>
<td>Buy Type = ANY, Discount %off, Buy Value = $N$</td>
<td>Yes</td>
<td>No different than the other buy-get setup. RPM assumes that the POS would always apply to the cheapest item.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Buy/Get | Buy Type = ALL, Discount %off, Buy Value = $N$ | No | |
| Buy/Get | Buy Type = ALL, Discount Amount off, Buy Value = $N$ | No | |
| Buy/Get | Buy Type = ALL, Discount Fixed Amount, Buy Value = $N$ | No | RPM can change the selling UOM when discount is fixed amount. |

Buy one pair of jeans at regular price over $45 and get a T-Shirt regular priced at $25 or less for free. | No | |

C-4  Oracle Retail Strategic Store Solutions Implementation Guide
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>
<thead>
<tr>
<th>Promotion Type</th>
<th>Example</th>
<th>RPM Promotion Type</th>
<th>RPM Setup</th>
<th>Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buy N of X, get Z% off.</td>
<td>Buy six pairs of jeans, get 10% off each of the jeans.</td>
<td>Threshold</td>
<td>Qualification Type = Threshold Level, Threshold Type = Quantity, Discount Type = % off</td>
<td>No</td>
</tr>
<tr>
<td>Buy N of X, Get $Z off.</td>
<td>Buy six pairs of jeans, get $10 off each of the jeans.</td>
<td>Threshold</td>
<td>Qualification Type = Threshold Level, Threshold Type = Quantity, Discount Type = Amount off</td>
<td>No</td>
</tr>
<tr>
<td>Buy N of X, Get items for $Z.</td>
<td>Buy two pairs of jeans and get them for $45 each.</td>
<td>Threshold</td>
<td>Qualification Type = Threshold Level, Threshold Type = Quantity, Discount Type = Fixed Amount</td>
<td>No</td>
</tr>
<tr>
<td>Buy $100 worth of jeans, get 10% off each pair of jeans.</td>
<td>Threshold</td>
<td>Qualification Type = Threshold Level, Threshold Type = Amount, Discount Type = % off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buy $100 worth of jeans, get $10 off each pair of jeans.</td>
<td>Threshold</td>
<td>Qualification Type = Threshold Level, Threshold Type = Amount, Discount Type = Amount off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buy $100 worth of jeans and get them for $45 each.</td>
<td>Threshold</td>
<td>Qualification Type = Threshold Level, Threshold Type = Amount, Discount Type = Fixed Amount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Threshold</td>
<td>Threshold</td>
<td>Qualification Type = Item Level, Threshold Type = Quantity, Discount Type = % off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Threshold</td>
<td>Threshold</td>
<td>Qualification Type = Item Level, Threshold Type = Quantity, Discount Type = Amount off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Threshold</td>
<td>Threshold</td>
<td>Qualification Type = Item Level, Threshold Type = Quantity, Discount Type = Fixed Amount</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PROMOTION TYPE EXAMPLE

**RPM** | **Promotion Type** | **RPM Setup** | **Compatibie**
--- | --- | --- | ---
| Buy X, get X for $15. | Simple | Fixed Amount |
| Buy X, get X for 10% off. | Simple | % off |
| Buy X, get $10 off of X. | Simple | Amount off |

**KITS**

**RPM** | **Promotion Type** | **RPM Setup** | **Compatibie**
--- | --- | --- | ---
| Buy N of X1, N of X2, N of X3 for a flat price $Z. | | No |
| Buy N of X1, N of X2, N of X3 for $Z off of purchase. | | No |
| Buy N of X1, N of X2, N of X3 for Z% off of purchase. | | No |

**Preferred Customer**

RPM does not distinguish when a promotion is only applied to specific customers, employees and so forth.

**Store Coupon**

RPM does not have the ability to set up a promotion tied to a coupon.
| A | archive file   | format, 3-5 |
| C | capacity planning, 4-1 | customization, 5-1 |
| D | data import   | dependencies, 1-5 |
|    | dimlogger.properties, 3-4 | error handling, 2-3 |
|    | exception flow, 2-5 | extension points and development, 5-1 |
|    | import adapter and translator, 5-3 | manually editing generated code, 5-3 |
|    | SAXParserGenerator, 5-3 | ImportControllerIfc, 5-6 |
|    | metadata, 5-5 |    |
|    | feed methods, 1-4 |    |
|    | field width maximums, 1-20 |    |
|    | generic data import flow, 1-3 |    |
|    | import status logging, 2-4 |    |
|    | logic, 2-4 |    |
|    | reprocessing a bundle, 2-5 |    |
|    | logging, 2-7 |    |
|    | Oracle Retail Merchandising System and Oracle Retail Price Management, 1-1 |    |
|    | spring configuration, 3-1 |    |
|    | spring.properties, 3-3 |    |
|    | discount rules, A-1, C-1 |    |
| F | functionality gaps, 1-16 |    |
|    | Oracle Retail Merchandising System, 1-18 |    |
|    | Oracle Retail Price Management, 1-16 |    |
| G | glossary, Glossary-1 |    |
| I | implementation configuration, 3-1 |    |
|    | integration architecture, 2-1 |    |
|    | data import, 2-2 |    |
|    | Strategic Store Solutions to Oracle Retail Sales Audit, 2-1 |    |
|    | integration overview |    |
|    | Oracle Retail Merchandising System to Oracle Retail Strategic Store Solutions, 1-8 |    |
|    | Oracle Retail Point-of-Service to Oracle Retail Store Inventory Management, 1-13 |    |
|    | Oracle Retail Price Management to Oracle Retail Strategic Store Solutions, 1-6 |    |
|    | Oracle Retail Strategic Store Solutions to Oracle Retail Sales Audit, 1-10 |    |
|    | preconditions, 1-12 |    |
|    | system flow description, 1-13 |    |
| K | known issues, 6-1 |    |
|    | authorized for sale, 6-3 |    |
|    | bank deposit details, 6-3 |    |
|    | catchweight Item in RTLog, 6-3 |    |
|    | character restrictions for UOMs, 6-1 |    |
|    | clearance pricing, 6-2 |    |
|    | data import failure, 6-2 |    |
|    | data import field width maximums, 6-3 |    |
|    | data mismatches in data import, 6-5 |    |
|    | DepartmentDefaultTaxGroup, 6-1 |    |
|    | discountable attribute from oracle retail merchandising system, 6-3 |    |
|    | duplicate discount rules after import, 6-2 |    |
|    | empty item classes lists for DIMP, 6-3 |    |
|    | geocode tag missing for store, 6-2 |    |
|    | gift card error, 6-3 |    |
|    | hardcoded attributes consumed from Oracle Retail Merchandising System, 6-4 |    |
|    | integration with Oracle Retail Sales Audit, 6-2 |    |
|    | item cost attribute consumed from Oracle Retail Merchandising System, 6-4 |    |
|    | missing encryption key for Saencrypt.pc, 6-2 |    |
|    | need to escape special characters in XML file, 6-2 |    |
|    | Oracle Retail Price Management price promotion endDateTime in Pricing Import XSD, 6-2 |    |
POSlog, 6-1
preload section of ItemImport, 6-1
price change applied before start date, 6-3
special order eligible coupons, 6-3
third-party tax and employee information, 6-5
total ID in the RTLog, 6-2
transaction level items, 6-1
UTF-8, 6-1

O
Oracle Retail Merchandising System
configuration, 3-9
Oracle Retail Price Management
configuration, 3-10
overview, 1-1
Oracle Retail Sales Audit, 1-11
Oracle Retail Strategic Store Solutions, 1-10

R
RTLog
adding data elements to the RTLog format, 5-6
extending the RTLog encryption model, 5-17
mapping and translation, 2-8
Oracle Retail Strategic Store Solutions RTLog
Files, 1-10
RTLog batch generator, 2-2
maximum interactions, 2-2
Oracle Retail Sales Audit, 2-2
sleep interval, 2-2

S
Strategic Store Solutions to Oracle Retail Sales Audit
configuration, 5-13
entity reader configuration file, 5-14
export format configuration file, 5-13
mapping configuration file, 5-14
store server conduit file, 5-13
development and testing tools, 5-15
classes, 5-15
executables in the bin directory, 5-16
extension points and development, 5-6
adding data elements to the RTLog format, 5-6
creating a new fixed length export record
format, 5-7
exporting a non-fixed-length record
format, 5-9
object factories, 5-9
DomainObjectFactory, 5-11
EntityMappingObjectFactory, 5-11
ExtractorObjectFactory, 5-11
RecordFormatObjectFactory, 5-12
RTLogMappingConfig.xml, 5-12
StoreServerConduit.xml, 5-10
Strategic Store Solutions to Oracle Retail Store
Inventory Management
extension points and development, 5-17

T
transport middleware, 1-11
troubleshooting, 6-1

X
XSD files and data element definition tables, B-1
employee import, B-1
item import, B-8
merchandise hierarchy import, B-32
pricing import, B-62
store hierarchy import, B-96
tax import, B-114