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# *Batch Feeds – Price Book Design Document*

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Approval Signatures (Mandatory)

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**Note**: The sign off indicates approval of all sections of the document.

Document Revision History

This chart tracks the changes introduced by the revisions to the document as the project progresses through the stages of the System Development Life Cycle (SDLC).

| Version | **Date** | **Description (Changes Made)** | **Author(s)** |
| --- | --- | --- | --- |
| 1.0 | 03/11/2010 | Initial Draft | Sterling |
| 1.1 | 03/19/2010 | Ready to Deliver | Sterling |
| 1.2 | 06/17/2010 | Updated with new fields in mapping based on meeting 06/17/2010 | Sterling |
| 1.3 | 06/22/2010 | Removed fields Segment and MSRP. Updated Enviroment ID description. | Sterling |

Related or Reference Documents

| Document Name | Description | Owner | Location |
| --- | --- | --- | --- |
| SCI\_Xpedx Solution Definition Document v1.5 | Solution Definition document | Sterling Commerce |  |
| SCI\_xpedx\_BatchFeeds\_Mapping\_V0.2 | Field Mapping Document | Sterling Commerce |  |
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# Introduction

## Document Purpose

This document is the governing Interface design document for price book batch feed. It presents significant decisions and constructs used in developing the interfaces. Testing, builds, configuration management are not covered in this document.

The document also includes data mapping to be used by respective parties (Sterling, webMethods, Legacy) to design their systems in order to support the interface.

The document will also serve the purpose of keeping a list of assumptions that were made during design discussions.

## Document Audience

This document is intended for management and technical staff working on this project, xpedx IT and Business, webMethods, Legacy(MAX and ACCESS), HP, IW, xpedx/IP Network Team. Sterling will use the document during design and configuration for design consideration.

# Batch Feeds – Price Book

## Overview

This is a batch load. This load contains item bracket pricing information for the pricing warehouse . This also has the list price of the items at the division group / division. The prices can be by segment such as one file containing paper segment.

## Master System

Legacy is the master of record for price book records.

## Process Flow

## Sequence Diagram

TBD

## Flow Details

TBD

## Field Mapping

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Field Name | Length | Data Type | Description |
| 1. | Environment Id | 2 | String | This field has been repurposed to refer to the system that Sterling is talking to. i.e. A – Access and M- Max. |
| 2. | Company | 2 | String | Populate with “XX”. This field will be ignored. |
| 3. | Process Code |  | String | A = Add/C = Change /D = delete. |
| 4. | Master Product Code |  | String | Master Product Code. |
| 5. | Legacy Part Number |  | String | Legacy Item Number. |
| 6. | Stock Indicator |  | String | Mill Item/Stocked Item. |
| ~~7.~~ | ~~MSRP~~ |  | ~~String~~ | ~~For [SCOTT] Is this the list price same as the bracket1. Do you guys populate this when none of the brackets are populated ??~~  Removed 6/22/2010 by Guy Read agreement xpedx. |
| 8. | Pricing Warehouse |  | String | Pricing Warehouse (Group). This drives entitlements and pricing at group level. Black box will use this to generate entitlements. |
| ~~9.~~ | ~~Segment~~ |  | ~~String~~ | ~~Product Segment.~~ Removed 6/22/2010 by Guy Read agreement xpedx. |
| NEW | Pricing UoM |  | String | This is a 3 character Legacy UoM. It determines the UoM for all the prices in the brackets. The UoM of the Bracket Qty is different from the UoM of the Bracket Price field. |
| NEW | Currency Code |  | String | The currency code associated with all the prices on the record. |
| Pricing Brackets | | | | |
| 10. | Bracket UOM1 |  | String | Unit of Measure for the bracket pricing. 3-Char legacy UoM |
| 11. | Bracket QTY1 |  | String | Qty for the bracket pricing |
| 12. | Bracket PRICE1 |  | String | Bracket Pricing |
| 10. | Bracket UOM2 |  | String | Unit of Measure for the bracket pricing. 3-Char legacy UoM |
| 11. | Bracket QTY2 |  | String | Qty for the bracket pricing |
| 12. | Bracket PRICE2 |  | String | Bracket Pricing |
| 10. | Bracket UOM3 |  | String | Unit of Measure for the bracket pricing. 3-Char legacy UoM |
| 11. | Bracket QTY3 |  | String | Qty for the bracket pricing |
| 12. | Bracket PRICE3 |  | String | Bracket Pricing |
| 10. | Bracket UOM4 |  | String | Unit of Measure for the bracket pricing. 3-Char legacy UoM |
| 11. | Bracket QTY4 |  | String | Qty for the bracket pricing |
| 12. | Bracket PRICE4 |  | String | Bracket Pricing |
| 10. | Bracket UOM5 |  | String | Unit of Measure for the bracket pricing. 3-Char legacy UoM |
| 11. | Bracket QTY5 |  | String | Qty for the bracket pricing |
| 12. | Bracket PRICE5 |  | String | Bracket Pricing |
| 10. | Bracket UOM6 |  | String | Unit of Measure for the bracket pricing. 3-Char legacy UoM |
| 11. | Bracket QTY6 |  | String | Qty for the bracket pricing |
| 12. | Bracket PRICE6 |  | String | Bracket Pricing |

## Schema

## Input Xml (webMethods to Sterling)

<?xml version=”1.0” encoding=”utf-8”?>

<PriceBooks>

< PriceBook EnvironmentId =”” CompanyCode =”’ ProcessCode=”” MasterProductCode=”” LegacyProductCode=”” StockIndicator=”” Warehouse=”” ~~Segment=”” MSRP=””~~ PricingUoM=”” CurrencyCode=””>

<PriceBrackets>

< PriceBracket UOM=”” Qty=”” Price=”” />

</ PriceBrackets >

</ PriceBook>

</ PriceBooks >

## Screen Shot

IW to provide.

## Open Questions

1. Are messages put in the queue be persisted?
2. Is MSRP the List Price for the item?

## Assumptions

1. All the batch transactions are MQ based. Sterling will get these as messages in the queue defined for the transaction and it will be one message per record.
2. Separate Queues will be defined for each transaction.
3. webMethods will parse the Legacy records and create the xml messages (format defined in section above) and as decided each message will have one record.
4. Only affected records will be sent by Legacy as part of change / delta load.
5. For bracket pricing UOM, Qty and Price needs to be 3 different fields.
6. Master Product Code is a must for this batch interface.

# Connectivity Diagram

## Price Book – Connectivity Diagram



## Connectivity Process

* Legacy will put the price book load flat file in a FTP location.
* webMethods will pick the files, Map the data into Sterling XML format and split it so that each message has one record and put it in MQ.
* The messages in the queue need to be persisted using standard MQ way of persisting messages.
* Sterling will process the messages from the queue.
* Sterling will log the transaction errors as alerts in the console.

# Glossary of Terms

|  |  |  |
| --- | --- | --- |
| S. No. | Term | Definition |
| 1. | RAFTS | File transfer (FTP) |
| 2. | UE (User Exit) | Hooks to write custom code in Sterling |
| 3. | MQ | Message Queue |
| 4. | BR1 | Business Release 1 |
| 5. | IW | Industrial Wisdom – third party company engaged on the project for the website look and fee. |
| 6. | UI | User Interface – look and feel of the web site pages. |