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# *Batch Feeds – Customer Cross Reference 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 | 05/25/2010 | Updated based on RSD v1.3 sent 5/24/2010. Updated mapping and changed format to Office 2007. | Sterling |
| 1.2 | 5/26/2010 | Updated document for signoff. | Sterling |
| 1.3 | 5/28/2010 | Updated mapping for Environment Id | Sterling |
| 1.4 | 6/17/2010 | Updated embedded file | Sterling |
| 1.5 | 6/18/2010 | Minor Updates | Sterling |
| 1.6 | 6/22/2010 | Minor Updates – Remove Ship from Division (line 14) in attachment and xml | Sterling |

Related or Reference Documents

| Document Name | Description | Owner | Location |
| --- | --- | --- | --- |
| SCI\_Xpedx Solution Definition Document v1.5 | Solution Definition document | Sterling Commerce |  |
| SCI\_CustomerXRef.xlsx v1.2 | Customer Cross Reference Batch Mapping Document | Sterling Commerce |  |
| xcom NG Connectivity Finalized Transactions | Connectivity Document between Sterling/\_ebMethods/Legacy | webMethods |  |

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# Introduction

## Document Purpose

This document is the governing Interface design document for the Customer Cross Reference Batch feeds. It contains the 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, web Methods, 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, Web methods, Legacy(MAX and ACCESS), HP, IW, xpedx/IP Network Team. Sterling will use the document during design and configuration for design consideration.

# Batch Feeds – Customer Cross Reference Batch Process

## Overview

The Customer Cross Reference batch feed is a non-real time, asynchronous feed from Legacy to Sterling through WebMethods.

The purpose of this feed is to load any customer specific item data stored in the legacy into Sterling. Exampels of this data include – customer specific item numbers, units of measure and ship from override.

## Master System

Legacy is the system of record for the customer cross reference info.

## Process Flow

## Sequence Diagram

TBD

## Flow Details

TBD

## Field Mapping



## Schema

## Input Xml (\_ebMethods to Sterling)

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

<CustomerXRefList>

<CustomerXRef

EnvironmentId=””

CompanyCode=””

ProcessCode=””

CustomerDivision=””

LegacyCustomerNumber=””

MasterProductCode=””

LegacyItemNumber=””

CustomerItemNumber=””

CustomerSpecificDescription=””

LegacyUoM=””

CustomerUoM=””

CustomerUoMConversionFactor=””

~~ShipFromOverrideDivision=””~~ Removed 6/22/10

CustomerExclusiveItem=""

</CustomerXRef>

</CustomerXRefList>

## Screen Shot

IW to provide.

## Open Questions

1. Are messages put in the queue be persisted?
2. Tracking the mapping questions in the mapping excel workbook.

## 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. For e.g., for Customer Cross Reference Info related messages will be put in the queue defined only for this transactions and will not be clubbed in with other messages from other transactions.
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. This means if a record has been changed we should not get all the rows again.
5. Access supports 3 char customer specific uoms. All the interfaces are designed to work with 2 char unit of measures. There exist some customer specific uoms that don’t have a mapping to a 2 char unit of measure. Need to determine the process to handle this situation. [JIRA XCNG-305]

# Connectivity Diagram

## CustomerBatch Info – Connectivity Diagram



## Connectivity Process

* Legacy will put the customer cross reference batch load flat file in an 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. |