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# *Batch Feeds – Customer Batch Design Document*

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**Date Created:** 03/11/10

##### Last Updated: 6/28/2010 4:49 PM

**File Name:** C:\Documents and Settings\bfurman\My Documents\Temp\Methodology v1.1\Project Management\TEMPLATE - DOCUMENT - Use Case Definition.doc

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 |
| 1.2 | 05/05/2010 | Updated based on feedback document. Converted to Office 2007 format. | Sterling |
| 1.3 | 05/25/2010 | Updated based on feedback dated 05/21/2010. Only assumptions section has been updated. | Sterling |
| 1.4 | 5/26/2010 | Updated based on meeting 5/26/2010. | Sterling |
| 1.5 | 5/28/2010 | Updated with legacy environment id | Sterling |
| 1.7 | 6/28/2010 | Updated the xml based on feedback from Cheryl/Jasmine on 6/24. | Sterling |

Related or Reference Documents

| Document Name | Description | Owner | Location |
| --- | --- | --- | --- |
| SCI\_Xpedx Solution Definition Document v1.5 | Solution Definition document | Sterling Commerce |  |
| SCI\_CustomerBatch.xls v1.5 | Customer Batch Field Mapping Document | Sterling Commerce |  |
| xcom NG Connectivity Finalized Transactions | Connectivity Document between Sterling/webMethods/Legacy | webMethods |  |
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# Introduction

## Document Purpose

This document is the governing Interface design document for the Customer 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 Batch Process

## Overview

The Customer batch feed is a non-real time, asynchronous feed from Data Warehouse to Sterling through WebMethods.

It is used to create/update/delete customer records (bill tos, ship tos) in the Sterling system. The information in this file is used to build up the customer hierarchy and associate customer to the appropriate brands. Some of the fields are informational/for display purpose only.

## Master System

Legacy is the system of record for the customer info. However there are some fields that are maintained on the customer profile that are managed purely on the web

## Process Flow

## Sequence Diagram

TBD

## Flow Details

TBD

## Field Mapping



## Schema

## Input Xml (webMethods to Sterling)

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

<CustomerList>

<Customer

EnvironmentId=""

CompanyCode=""

LegacyEnvironmentId=””

ProcessCode=""

CustomerDivision=""

LegacyCustomerNumber=""

SuffixType=""

ShipToSuffix=""

BillToSuffix=""

CustomerOrderBranch=""

ShipFromBranch=""

CustomerStatus=""

CustomerName=""

BrandCode=""

CustomerClass=""

ServiceOptimizationCode=""

CurrencyCode=""

InvoiceDistributionMethod=""

NationalAccountNumber=""

SAPNumber=""

SAPName=””

SAPParentAccountNumber=""

ParentSAPName= “”

ShipComplete=""

OrderUpdateFlag=""

CapsId=""

NAICSCode=””

NAICSName=””

ShipToOverride=””

DUNSNumber=””

PricingWarehouse= “”

>

<AddressList>

<Address AddressLine1="" AddressLine2="" AddressLine3="" City="" State="" Country="" ZipCode=""/>

</AddressList>

<SalesReps>

<!—This is a placeholder for upto 5 sales reps. The first one is the primary sales rep while Sterling may receive upto 4 more sales reps-->

<SalesRep>

<EmployeeId>

</SalesRep>

</SalesReps>

</Customer>

</CustomerList>

## Screen Shot

N/A.

## 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 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 Data Warehouse 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 Data Warehouse as part of change / delta load. This means if a record has been changed for e.g., a field value for the address has been changed; we should not get all the customers again.
5. Only one currency value will be sent for each customer.
6. On subsequent customer updates, if the brand code changes on the customer record, there will be no automatic migration of the customer from one Branded Storefront to another.
7. SAP# is a mandatory field on the feed. The Parent SAP# is optional
8. If an SAP# changes or a parent SAP# is removed on an account record, the account will not be migrated automatically to a different hierarchy. This process will be a manual process since this will involve several related migrations such as user permissions, carts, my items, orders, etc.
9. The Bill-to record is sent to Sterling before any ship-to associated to it.
10. One record is received per Bill-to and per Ship-to, so the address contained in the xml is associated to either a bill to or a ship to based on Suffix Type field.
11. The Sales Rep field’s employee Id is used to do a lookup into Active Directory to fetch the Network ID (the Sales Reps’ login) and associate the sales reps with the record. Unless there are special processing requirements for Primary Sales Reps vs Sales Rep 1-4, Sterling will receive it in the same repeatable field.
12. Sterling will send the DUNS Number on B2B Invoice transactions to wM. Liaison will decide whether it actually gets passed to the customer in the EDI 810.

# Connectivity Diagram

## CustomerBatch Info – Connectivity Diagram



## Connectivity Process

* Data Warehouse will put the customer 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. |