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# *Batch Feeds – Division Info Design Document*

**Authors: Sterling Commerce**

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Approval Signatures (Mandatory)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Title** | **Name** | **Signature** | **Date** | **Comments / Issues / Concerns** |
| **xpedx Owner(s)** | Steve Bugher |  |  |  |
| Cheryl Tullis |  |  |  |
| **Sterling Commerce Owner(s)** | Guy Read |  |  |  |
|  |  |  |  |

**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* | *05/05/2010* | *Incorporated feedback from George* | Sterling |
| 1.3 | 05/26/2010 | Incorporated feedback from meeting on 5/26/2010 | Sterling |
| 1.4 | 05/27/2010 | Incorporated feedback from Cheryl regarding Transfer Circle/Pricing Warehouse | Sterling |
| 1.5 | 05/28/2010 | Incorporated feedback on Environment Id | Sterling |
| 1.6 | 10/21/2010 | Added a new field on division batch + added new section on the Division Profile fields that are maintained in Sterling. | Sterling |
| 1.7 | 10/24/2010 | Update dvision feed + division profile to clarify field usage of PW Code/Name | Sterling |
| 1.8 | 11/1/2010 | Updated note on division type | 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 division info 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 – Division Info

## Overview

This is a batch load. This load contains information about divisions and its transfer circles. This has information about the address of the division, order cut off time etc. Some of these information is for display and info purpose to the CSR. Some of these values will be cross referenced from other real time calls for e.g. P&A returns the division numbers and we will look into this table for division name and addresses. This could also be used in the contact us page (IW UI to depict that).

## Master System

Legacy is the master of record for the divisions and the transfer circles within each division.

## 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 | The field will always be populated with XX |
| 3. | Process Code |  | String | A = Add/C = Change /D = delete.  Sterling recommends we get a delta load and not full refresh. Sterling will ignore the process code in case this is a full refresh. Deletes will need to be handled manually. |
| 4. | Division Number |  | String | Division code for the primary. |
| 5. | Division Name |  | String | Name of the primary division. The name will be cross referenced from this feed where ever necessary – for e.g Stock check returns the division number and not the name. This could be also used in the contact us page. |
| 6. | Address1 |  | String | Address1 for the primary division. |
| 7. | Address2 |  | String | Address2 for the primary division. |
| 8. | Address3 |  | String | Address3 for the primary division. |
| 9. | City |  | String | City for the primary division. |
| 10. | State |  | String | State for the primary division. |
| 11. | ZipCode |  | String | Zip code for the primary division. |
| 12. | Country Code |  | String | Country Code for the primary division. |
| 13. | Division Phone |  | String | Phone number for the primary division. |
| 14. | Division Fax |  | String | Fax number for the primary division. |
| 15. | Currency Code |  | String | Currency code for the primary division. |
| 16. | Pricing Warehouse (Code) |  | String | Pricing Warehouse for the division. This will be used by entitlement configurator. For informational purposes only |
| 17. | Geocode |  | String | This will be a information only field. |
| 18. | JDE Code |  | String | This will be a information only field. |
| 19. | eTradingID |  | String | This will be a information only field. |
| 20. | Brand Code |  | String | Brand Code for the division. This is a 4 character value.  BDUN - Bulkley Dunton  CLEW - Central Lewmar  MARQ - Central Marquardt  SAAL - Saalfeld  STPG - Strategic Paper  WPAP - Western Paper  WTOW - Whiteman Tower  XPED - xpedx  ZELL - Zellerbach  This will be a comma separated value as making it according to Legacy will complicate the feed. |
| Transfer Circles | | | | |
| 20. | Division Number |  | String | Division Number.  All transfer circle divisons will be included (including primary). Will be included in the sequence from Legacy it needs to be displayed. |
| 21. | Division Name |  | String | Name of the division.  Sterling prefers to have the division name as part of the transfer circle info. |
| 22. | No. of Days |  | String | Turn around number of days for the division. |
| 23. | Order Cutoff Time |  | String | Cutoff time for the orders to be picked up at the division. |

## Schema

## Input Xml (webMethods to Sterling)

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

<Divisions>

<Division EnvironmentId =”” CompanyCode =”’ DivisionNumber=”” ProcessCode=”” DivisionName=”” Address1=”” Address2=”” Address3=”” City=”” State=”” ZipCode=”” CountryCode=”” DivisionPhone=”” DivisionFax=”” CurrencyCode=”” PricingWarehouse=”” Geocode=”” JDECode=”” eTradingID=”” BrandCode=”” >

<TransferCircles>

<TransferCircle DivisionNumber=”” DivisionName=”” NoOfDays=”” OrderCutOffTime=”” />

</TransferCircles>

</Division>

</Divisions>

## Screen Shot

IW to provide.

## Open Questions

1. Are messages put in the queue be persisted?
2. Legacy was proposing full refresh of data for this feed, but if the division admin can set up new divisions in Sterling how this process will work. Sterling recommends we get delta load with affected records.

## 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 Division 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 for e.g., a field value for the primary division has been changed; we should not get all the transfer circle records.
5. Only one currency value will be sent for each division.
6. All transfer circles will be included in the load in the sequence in which they need to be displayed in x.com
7. eTradingID, Geocode, JDECode, OrderCutOffTime, NoOfDays fields will be used only for information sake from this load. There is no business logic behind it.
8. Default division type value will be ‘Division’. Division Admin needs to manage the web site related field values manually on the website.
9. Division Info table in Sterling should have Division Number and Brand as the primary key.
10. The following new fields have been requested during the Division Admin meeting in addition to the current x.com fields:
    * Division Email
    * Division Contact – Text field instead of drop down
    * Will call information - text area
    * Delivery Cut Off time – text area
    * Next Day Delivery Cut Off – text area
    * Additional Information
11. The Transfer Circle in the feed is used to drive sourcing logic in Sterling. The logic is data-driven, i.e., if the transfer circle is empty, no sourcing will be based on transfer circles. Current understanding is that ACCESS doesn’t send transfer circle information in the feed.
12. The Pricing Warehouse field is used for Print Estimator Reporting and also to associate price books to customers via their division.

# Connectivity Diagram

## Division Info – Connectivity Diagram



## Connectivity Process

* Legacy will put the division 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. |

# Division Profile Fields

## Overview

In addition to the fields that are sent to Sterling on the division batch feed, there are several fields that are maintained in Sterling on the Call Center on the division profile screens. The functionality is documented in the table below.

All fields that come in as part of the division batch feed are read-only in Sterling in both the WebChannel and Call Center

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Web Channel | Call Center | Functionality/Comments |
| Division Type | Read | Update | Drop Down (Internal, External); New division - default to Internal Contact us – only external divisions are displayed (may not needed for the current design)  ~~Reporting – eBusiness managers to create divisions in Sterling for reporting purpose – need to discuss the requirement.~~ |
| Phone 2 | Read | Update | New division - default to space – to display in contact us page |
| Fax 2 | Read | Update | New division - default to space – to display in contact us page |
| Division Contact | Read | Update | Internal users - default to 'not selected' – to display in contact us page |
| Division Email - Paper | Read | Update | CSV, to hold multiple emails; Also used for Samples. – email address for sample requests (paper products) |
| Division Email - Non-Paper | Read | Update | CSV, to hold multiple emails; Also used for Samples. – email address for sample requests (non paper products) |
| Order Amount - Min | Messaging - Check Out | Update | New division - default to space – hierarchy ties to the field in customer profile |
| Order Amount - Max | Messaging - Check Out | Update | New division - default to space – hierarchy ties to the field in customer profile |
| Small Order Fee | Messaging - Check Out | Update | Only when Order Amount - Min is entered – hierarchy ties to the field in customer profile |
| Will Call Information | Read - Check Out | Update | New division - default to space – to display in check out page |
| Delivery Information | Read - Check Out | Update | New division - default to space – to display in check out page |
| Delivery Cutoff Time | Read - Check Out | Update | New division - default to space – to display in check out page |
| Pricing Warehouse Name | N/A | Read | This is a read-only field in Call Center and is populated by looking at the Pricing Warehouse Code on the division batch record and finding the corresponding Division in the database and pulling its “Division Name” field. |