# xpedx.com Next generation

# *Data Warehouse 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)** |
| --- | --- | --- | --- |
| 0.1 | 05/11/2010 | Initial Draft | Sterling |
| 1.0 | 05/13/2010 | Ready to deliver | Sterling |
| 1.1 | 06/16/2010 | Updated based on feedback 20100611 | Sterling |
| 1.3 | 07/22/2010 | Updated based on emails dtd 20100616 and subsequent JAD | Sterling |
| 1.4 | 7/27/2010 | Removed references to event classes as these are being handled by webtrends | Sterling |

Related or Reference Documents

| Document Name | Description | Owner | Location |
| --- | --- | --- | --- |
| SCI\_Xpedx Solution Definition Document v1.5 | Solution Definition document | Sterling Commerce |  |
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# Introduction

## Document Purpose

This document is the governing functional design document for the Data Warehouse functionality. It presents significant decisions and constructs used in developing the functionality. Testing, builds, configuration management are not covered in this document.

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.

# Data Warehouse

## Functions & Solution

Data Warehouse is the primary reporting tool at xpedx. This document covers the data that is to be sent to Data Warehouse from Sterling. The actual reports and their structure is out of scope of this document and will be covered in the Reporting documents.

The following data sets have been identified where the system of record is Sterling and these will need to be transferred into Data Warehouse for reporting.

1. Master Customer Information
2. Customer Profile elements that are maintained on Sterling only.
3. User data – Internal and External users – this includes flags such as Terms and Conditions
4. Promotion definitions

The frequency of these loads is anticipated to be nightly. All the data loads would be full refreshes.

## Report Types and Access

***Customer Reports***

To enable access to Data Warehouse, links will be provided to the customer user on the web in the services tab. Clicking on the link will launch the relevant reports that the customer has access to.

This process will be the same as the current architecture where the dotcom has built interfaces to fetch the report meta-data from Crystal reports/Data Warehouse and displays report filter forms based on the meta data.

***Internal User Reports***

No interfaces are required between COM and DW.

## Master System

The system of record for all the above mentioned data is Sterling.

## Implementation Details

## Entity objects.

## Actions involved and Functions

## Process Flow

## Field Mapping

N/A

## Schema

## Sterling Database Schema

This is available as part of the official documentation from Sterling once the product is installed on a machine.

## Screen Shot

N/A

## Open Questions

1. Sterling to assist the data warehouse team in understanding the schema of data mastered in Sterling. [Ryan C. – 20100610 - It would be advantageous to have the data schema as early as possible.] [ Prashant – 20100616 – Given documentation to Ryan. Will follow up directly if he has any questions.]
2. Need to nail down the process of moving data from Sterling into Data Warehouse – connectivity.
3. What sort of parameters need to be passed in the link to Crystal Reports so that the customer user lands on the appropriate page? [Cheryl T. – 20100608 - This is covered in reporting DDD.]
4. What type of connectivity is required between COM and DW ? [Ryan C. – 20100610 - No connectivity should be required between COM and DW.]
5. Xpedx to provide the classes of events that are pulled from the event log into DW today. [Ryan C. – 20100610 - Email to Kurt requesting event classes.] [Prashant G. – 20100616 – Received 15 event classes. Awaiting the data fields required for each class] [Jasmine – 7/22 - Per my understanding we were not going to use event classes anymore. George/Steve/Cheryl/Ryan - Please confirm.]

## Assumptions

1. There will be no real-time interface to move data to Data Warehouse.
2. An ETL tool will be used to dip into Sterling tables to retrieve the required data. [ Ryan C – 201006016 - WebMethods or DW ETL through Data Stage?] [Prashant G – 20100616 - sure if this is a question to me or is a clarification asking me to update the document.] [Ryan C – 7/22 - we will be able to pull data directly from your Oracle database to feed Data Warehouse]
3. It is recommended that the ETL tool will work off of a hot backup of the production db and not the actual live production database.
4. [Ryan C. – 20100610 - Per GT, it is not necessary to send Shopping Cart information to DW.

# Connectivity Diagram

## Data Warehouse to Sterling Connectivity Diagram

## Connectivity Process

Data warehouse will use some tools to directly pull the required data from Sterling’s Oracle tables.

# Glossary of Terms

|  |  |  |
| --- | --- | --- |
| S. No. | Term | Definition |
| 1. | WSDL | Web Services Definition Language |
| 2. | UE (User Exit) | Hooks to write custom code in Sterling |
| 3. | MQ | Message Queue |
| 4. | BR1 | Business Release 1 |
| 5. | ETL | Extract, Transform and Load |
| 6. | DW | Data Warehouse |
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