# xpedx.com Next generation

# *B2B Transactions Design Document*

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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)** |
| --- | --- | --- | --- |
| 0.1 | 05/09/2010 | Initial Draft | Sterling |
| 1.0 | 05/12/2010 | Ready to deliver | Sterling |
| 1.1 | 5/18/2010 | Modified to new structure proposed by Brian W. The sections are now separated per transaction. | Sterling |
| 1.2 | 7/12/2010 | Updated based on feedback dtd 7/2/2010 | Sterling |
| 1.3 | 7/22/2010 | Updated based on emails dtd 7/14 and subsequent discussions | Sterling |
| 1.4 | 7/26/2010 | Updated Stock Check portion with BuyerId setup | Sterling |
| 1.5 | 9/29/2010 | Updated mapping, schema, flow and screenshot for B2B transactions | Sterling |
| 1.6 | 10/5/2010 | Updated open questions, mapping and schemas based on meeting 10/5/2010 | Sterling |
| 1.7 | 10/6/2010 | Updated mapping based on email chains 10/6 | Sterling |
| 1.8 | 10/11/2010 | Updated PO/PO Ack mapping with ShipMethod. | Sterling |

Related or Reference Documents

| Document Name | Description | Owner | Location |
| --- | --- | --- | --- |
| SCI\_Xpedx Solution Definition Document v1.5 | Solution Definition document | Sterling Commerce |  |
| Customer Integration Process.pdf | Describes xpedx’s process to onboard customers for B2B transactions | Xpedx |  |
| SCWS Data Mapping\_v2.3.xlsx | Field mapping for SCWS | Sterling/xpedx |  |
| B2B PO And PO Ack v1.2.xlsx | Field mapping document for B2B PO and PO Ack | Sterling/xpedx |  |
| B2B Invoice Field Mapping v1.1.xlsx | Field mapping for B2B Invoice transactions | Sterling/xpedx |  |
| X com 2g B2B-v2.2.vsd | Overall flow of B2B transactions | Sterling/xpedx |  |
| xcom NG Connectivity Finalized Transactions.vsd | Connectivity diagram of all interfaces with Sterling | Sterling/xpedx |  |

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# Introduction

## Document Purpose

This document is the governing functional design document for the B2B Transactions 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.

# B2B Transactions

## Functions & Solution

B2B Transactions provide a mechanism for customer to check stock, electronically place/edit/cancel orders and receive invoices. For BR1 the following transactions are to be supported

1. B2B Stock Check Webservice
2. B2B Order Place Request (Purchase Order – EDI 850)
3. B2B Order Place Response (PO ACK - EDI 855)
4. B2B Invoice (Invoice – EDI 810)

To enable a customer for b2b transactions the solution at xpedx involves the following steps -

1. Setup at xpedx site
2. Setup at the customer site
3. Setup at Webmethods
4. Setup at Liaison Technologies
5. Customer b2b transaction flows

## B2B Stock Check Webservice

This service is invoked by end customers to get real time pricing and availability for items. It also returns additional information realted to the Item such as attributes. The use case is that the customer uses this information for estimation.

The following setup is done at the xpedx side to get the customer ready for all B2B transactions (except punchout since that is convered in a separate DDD).

## Customer Setup (Common)

On xpedx.com, the Customer profile screen contains the following setup elements related to B2B Stock Check.

|  |  |
| --- | --- |
| **Setup Parameter** | **Description** |
| BuyerID/Webmethods Customer Id | Represents the unique master customer on xpedx.com |
| B2B Email Address | Used for notification (e.g. missing etrading id) |
| wM Org Id | No Functionality – delete |
| wM Location Id | No functionality – delete |
| B2B SCWS Flag | To enable a customer for SCWS |
| B2B PO (850) Flag | To enable a customer for B2B Order Place |
| B2B PO Ack Flag | To enable PO Acks for customers. But it works in the context of B2B PO flag. If that flag is not set, then we will not send B2B PO Ack. |
| B2B Invoice Flag | To enable a customer for B2B Invoice |
| B2B UoM conversion flag | Mandatory flag that denotes whether a customer sends Legacy or EDI UoMs. |
| Integration Comment textbox – One for each of the flags (4) + punchout. | A new set of textbox fields for internal use. |

[Per Brian – 5/20 - This is not required for the SCWS setup, however the master customer is required to be setup.] [Prashant 7/22 - Awaiting a response to what fields in the master customer need to be setup.]. [Prashant 7-26 – Based on response from Brian and George, reinstating the above customer setup step.]

## Ship To Setup (Common)

On xpedx.com, the Customer profile contains a listing of all the ship-tos under the customer. This list view provides a fast way to associate an eTradingId to a Ship To.

|  |  |
| --- | --- |
| **Setup Parameter** | **Description** |
| eTradingID | Each Ship To address that has to be enabled for web service access is associated to a unique eTradingId. |
| B2B Customer Email Address | Not currently populated. IT needs to be sent as is on the PO Ack. |

## Customer User Setup

`

Once the Customer/Ship To have been setup, we need to mark one or more users of the customer as eligible for webservice access. This is managed on the profile of the users of that customer. The key fields to be used -

|  |  |
| --- | --- |
| **Setup Parameter** | **Description** |
| Is webservice user flag | Identifies whether this customer user is enabled to access webservices. |
| UserId | If flag is set to “y” – used to uniquely identify the customer user in the system. |
| Password | To authenticate the webservice request |

## Setup at customer site

Customer receives the following information from xpedx once they have been setup in the system to accept b2b transactions.

1. User Id
2. Password
3. BuyerId
4. eTradingId

Customers will setup web service based on an updated xpedx user guide and their internal web service would direct them to the correct URL, xpedx does not provide this URL when a new SCWS user ID has been created.

## Business Rules

[TBD] Are there any business rules for b2b stock check? [Steve B – 5/26 – I don’t believe there are.]

## B2B Stock Check Flow

1. When a customer wants to perform a real time stock check against xpedx’s systems, they invoke a webservice (wsdl defined in the schema section).
2. webMethods implements the customer facing webservice. It verifies whether the buyerId that is coming in is valid or not. If it is invalid, the error is reported through the Error Notification Tool and the response is returned by wM, else wM invokes a webservice on Sterling . Additionally wM will limit the number of items in a stock sheck request to 200.
3. The SCWS is implemented in Sterling and Sterling handles the authentication of the request. The verification of buyerid, etrading id, user email, user password is done in Sterling.
4. Once authenticated, Sterling converts the request into a Legacy PnA call.
5. The results from the PnA call are converted back into the format defined in the WSDL and sent to the customer.
6. In addition there are several fields that Sterling adds to the response for each item such as Item attributes, etc.

This flow has been summarized along with all the other B2B flows in the “x com 2g B2B v2.2.vsd” visio diagram attached in Section 3.

## B2B Order Place Request/Response

For Customer/Ship To setup please refer to 2.1.1.1 and 2.1.1.2

## Setup at customer site

For B2B Order Placement/Response, we will follow the Customer Solutions Integration processes. The high level flow is attached here.



## Business Rules

Has this been covered in the order business rules document ? [Steve B – 5/26 - See the Order Holds and Release in Call Center for more info on Business Rules]

## B2B Order Place Request Flow

1. When a customer wants to place an order using the B2B Interfaces, they send the Purchase Order using various formats such as EDI, text, xml to xpedx
2. Liaison/webMethods receives the order from the Customer and converts it into a B2B Order Place webservice call into Sterling. They also add to the request fields such as Message Header Id and Message Line Ids.
3. Sterling does the validations against BuyerID –
   1. If a value is present, then we store the incoming order in a set of Original Order Tables. This is used by CSRs to view original orders as well as perform tasks such as Reprocess and Mark Complete.
   2. If it is invalid or missing, then we report the error via the Error Notification Tool and there is no entry made into the Original Order Tables.
4. Next Sterling verifies and validates the eTradingId.
   1. If it is valid, the order goes through a UoM conversion process and is placed as a customer order in Sterling.
   2. If it is invalid or missing, no customer order is created. The resolution process for such orders is handled by the CSR.
      1. In the case of missing eTrading Ids, the way to handle would be to rekey a new Customer order into Sterling/Legacy and then come back to the Original Order List and “Mark Complete” the original order.
      2. In the case of wrong eTradingId, the CSR could fix the eTrading Id on the Customer profile and hit reprocess in which case Sterling would attempt to place the Customer Order again.
5. It is expected that Sterling will return only successful status to webMethods on the B2B Order Place call, as error conditions are reported to the Error Notification tool and not back to the customer.

## B2B Order Place Response Flow

1. The trigger for the B2B Order Place Response is as follows –
   1. In case of Customer order containing only Stock Items – the Legacy order place response triggers the B2B PO Ack.
   2. In case of Customer order containing Stock Items + Non stock items – the Customer order gets split into two (one containing Stock items and the other containing Non stock items). The Legacy order place response for the Stock Items Order triggers the B2B PO Ack.
   3. In case of Customer order containing only Non stock items – the order place response triggers the B2B PO Ack. This is not strictly a requirement as xpedx is ok with returning an immediate response from Sterling (even if the Legacy order hasn’t been placed).

In all cases, the response is returned at the Customer Order level.

1. When an order is placed by Sterling into Legacy via the Order Place Interface, the response to Order Place returns things like the Legacy order #, etc.
2. Sterling then updates its database with the Legacy Order information and checks if the customer is turned on for B2B Order Place Response. If yes, then Sterling invokes the B2B Order Place Response webservice on webMethods/Liaison to send the PO Ack to the customer. [Bugher - 5/26 - is this a specific field on the customer profile? Would like to see a reference to the specific field] [Brian - 7/14 - It is the "send PO acknowledgement" business rule within the Order Dashboard Business Rules Maintenance.]
3. The Sterling to wM message contains the Customer Order as it currently stands along with the Original Order table entry for the corresponding Customer Order. The Original Order is not sent in the case of “Mark Complete” orders in the Original Order table.
4. Liaison/webMethods sends back the PO Ack to the customer.
5. Sterling to develop the following components for retransmission of PO Acks.
   1. A batch job that resends all PO Acks that have not yet been sent (e.g. due to wM being down).
   2. An on-demand resend for individual PO Acks.

In both the above cases, Sterling will send the PO Ack based on the latest Customer Order and not the original PO Ack picture.

## B2B Invoices

For Customer/Ship To setup please refer to 2.1.1.1 and 2.1.1.2

[Steve B - 5/26 - Is this the set up being used for new site? I’m under the impression that NA # is not being used to flag accts for electronic invoicing. Please clarify.] [Prashant 7/12 - Will Brian be able to provide this information? I am not sure how NA# is used for invoices.] [Brian - 7/14 - The NA# process used today would not apply to the Sterling invoice process. Legacy is building new flag indicators to send invoice data to Sterling, we would then have a customer profile setting to flag the master customer to send 810 invoice.]

## B2B Invoice Flow

1. When an order is invoiced in Legacy, it is sent via the Invoice/Order Update Interfaces to Sterling. The Invoice Interface is only used if the Invoice for the customer needs to be sent electronically to the customer.
2. Sterling then updates its database with the invoice information and checks if the customer is turned on for B2B Invoices. If yes, then Sterling invokes a B2B Invoice webservice on webMethods/Liaison to send the invoice to the customer. The field on the customer profile is the 810 Invoice flag.
3. Liaison/webMethods the sends back the Invoice to the customer.
4. B2B Invoice resends to customers are handled by Liaison and their existing policy is to maintain a 90 day history.

## Other functionality changes

## B2B specific translations

1. **UoM Replacement** – In addition to the regular UoM conversions on orders/carts, b2b has an additional translation of UoMs. In today’s dotcom a table stores customer replacement UoMs. This is a one-to-one replacement that is applied to incoming and outgoing orders as well as invoices. It is a simple replacement and involves no conversion factors.

[UoM Replacements - Brian W - 5/20 - Colin, can you clarify this process?] [Colin - 7/15 - The UOM solution for B2B messaging has not yet been implemented however it was supposed to follow the same process as the Punchout solution. Basically, a request is put into IT with an excel spreadsheet that lists the UOMs the customer will be sending and what we want that changed to. It is a basic cross reference to assure we can accommodate the incoming data. Someone from Georges team would then load this into the xpedx.com database. George, if you would like to elaborate please do so.]

One additional processing that Sterling will need to do on B2B transactions is to consider the M\_ and A\_ prefixes that have been appended onto UOMs between Legacy and Sterling. On B2B transactions these prefixes do not appear. So Sterling will need to append the appropriate prefix before invoking Legacy interfaces. This also means that the lookup table maintained for replacements will have to be populated with the right prefixes.

1. **UNSPSC Replacement** – Certain customers define their own set of UNSPSC codes that they’d prefer to receive/send for items that they are purchasing. Similar to the UoM replacement table, there is a UNSPSC Replacement table stored in the current dotcom. The replacement of customer preferred UNSPSC code to Master data UNSPSC code is done first for incoming messages (Order Place Request, Stock Check) and handled last for outgoing messages (Order Place Response, Stock Check Response, Invoice).

[Brian - 5/20 - Ankit, can you clarify the process being used today for Toys R Us?]

[Ankit - 7/15 - Following describes the current process in use for Toys R Us:

1. xpedx.com maintains a list of xpedx to Toys R Us UNSPSC Mappings. There is no user interface for this in the current system.

2. The UNSPSC replace logic is triggered during cart post back to Toys R Us eProcurement system.

3. All the xpedx UNSPSC values are replaced with the mapped Toys R Us UNSPSC in the cart data finally sent to Toys R Us.

4. For some xpedx items, we may have different Toys R Us UNSPSC mapping and hence an item level check is done in the table first.

Ex: Using the below table, whenever Item1 is sent to Toys R Us, UNSPSC X1 will be replaced by C1.

For other items having X1 as a UNSPSC code, X1 will be replaced by C2.

XPEDX UNSPSC Customer UNSPSC Legacy Item#

X1 C1 Item1

X1 C2

]

## Master System

N/A

## Implementation Details

## Entity objects.

## Actions involved and Functions

## Process Flow

## Field Mapping

The following mapping contains the fields that are sent as part of the requests from the customer to Sterling and the punchout response sent from Sterling to the customer. In the case of cXML, there is a setup handshake that OCI implemented at xpedx doesn’t support.

## Stock Check Webservice Mapping

The mapping has changed to include new fields and a slightly modified structure from Sterling’s perspective. So cannot refer to the SCWS User Guide. Attaching latest updated mapping document.



## Order Place/ Order Place Ack



## Invoice Mapping



## Schema

For samples of the following transactions, see the Appendix section.

## B2B Stock Check Webservice Request Schema (Customer to Sterling)

<?xml version="1.0" encoding="UTF-8"?>

<xpedxStockCheckWSRequest xmlns:ns1="https://b2b.xpedx.com/webservices/">

<SenderCredentials>

<UserEmail></UserEmail>

<UserPassword></UserPassword>

</SenderCredentials>

<StockCheckRequests>

<BuyerID/>

<StockCheckRequest>

<eTradingPartnerID/>

<Items>

<Item>

<IndexID/>

<xpedxPartNumber/>

<CustomerPartNumber/>

<Quantity/>

<UOM/>

</Item>

</Items>

</StockCheckRequest>

</StockCheckRequests>

</xpedxStockCheckWSRequest>

## B2B Stock Check Webservice Response Schema (Sterling to Customer)

<?xml version="1.0" encoding="UTF-8"?>

<xpedxStockCheckWSResponse>

<RootErrorInfo>

<ErrorCode/>

<ErrorMessage/>

</RootErrorInfo>

<SenderCredentials>

<UserEmail/>

<UserPassword/>

</SenderCredentials>

<StockCheckResponses>

<BuyerID/>

<StockCheckResponse>

<eTradingPartnerID/>

<ErrorCode/>

<ErrorMessage/>

<Items>

<Item>

<IndexID/>

<xpedxPartNumber/>

<CustomerPartNumber/>

<Quantity/>

<UnitOfMeasure/>

<ErrorCode/>

<ErrorMessage/>

<CustomerNumber/>

<Category1/>

<Category2/>

<Category3/>

<Category4/>

<ItemDescription/>

<ItemSellText/>

<AvailabilityMessage/>

<BackOrderMessage/>

<SameDayDescription/>

<SameDayQuantity/>

<NextDayDescription/>

<NextDayQuantity/>

<TwoDayDescription/>

<TwoDayQuantity/>

<OrderMultiple/>

<OrderMultipleMessage/>

<TotalPrice/>

<Manufacturer/>

<ManufacturerPartNumber/>

<ItemStatus/>

<UnitPrice1/>

<UOMList>

<UOM>

<UOMCode/>

<UOMDescription/>

</UOM>

</UOMList>

</Item>

</Items>

</StockCheckResponse>

</StockCheckResponses>

</ xpedxStockCheckWSResponse>

## B2B Order Place Schema (Liaison/webMethods to Sterling)

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

< B2BOrderPlaceRequest >

<SourceIndicator/>

<LiaisonMessageId/>

<BuyerId/>

<EtradingId/>

<ShipToName/>

<AttentionName/>

<ShipToAddress1/>

<ShipToAddress2/>

<ShipToAddress3/>

<ShipToCity/>

<ShipToState/>

<ShipToZIP/>

<ShipToCountryCode/>

<CustomerPO/>

<ShipDate/>

<HeaderComments/>

<OrderedByName/>

<OrderCreateDate/>

<OrderSource/>

<HeaderProcessCode/>

<CurrencyCode/>

<ShipMethod/>

<LineItems>

<LineItem>

<POLineID/>

<LineProcessCode/>

<LegacyProductCode/>

<CustomerProductCode/>

<ManufacturerProductCode/>

<MasterProductCode/>

<PriceUnitOfMeasure/>

<UnitPrice/>

<LineDescription/>

<RequestedUnitOfMeasure/>

<RequestedOrderQuantity/>

<LineRequestedDeliveryDate/>

<CustomerLineNumber/>

<CustomerLinePONumber/>

<CustomerLineAccountNumber/>

<CustomerUserField1/>

<CustomerUserField2/>

<CustomerUserField3/>

<LineNotes/>

</LineItem>

</LineItems>

</B2BOrderPlaceRequest>

## B2B Order Place Ack Schema (Sterling to webMethods/Liaison)

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

< B2BOrderPlaceResponse >

<CurrentCustomerOrder>

<LocationId/>

<BuyerId/>

<WebConfirmationNumber/>

<LiaisonMessageId/>

<OrderingDivision/>

<LegacyOrderNumber/>

<GenerationNumber/>

<LegacyOrderType/>

<UpdateFlag/>

<ShipFromDivision/>

<CustomerDivision/>

<CustomerNumber/>

<ShipToSuffix/>

<EtradingId/>

<ShipToName/>

<AttentionName/>

<ShipToEmail/>

<ShipToAddress1/>

<ShipToAddress2/>

<ShipToAddress3/>

<ShipToCity/>

<ShipToState/>

<ShipToZIP/>

<ShipToCountryCode/>

<BillToSuffix/>

<BillToAddress1/>

<BillToAddress2/>

<BillToAddress3/>

<BillToCity/>

<BillToState/>

<BillToZIP/>

<BillToCountryCode/>

<CustomerPO/>

<OrderCode/>

<ShipComplete/>

<WillCall/>

<ShipDate/>

<HeaderComments/>

<OrderedByName/>

<OrderCreateDate/>

<OrderSource/>

<HeaderProcessCode/>

<OrderStatus/>

<OrderStatusComment/>

<CurrencyCode/>

<TotalShippableValue/>

<TotalOrderValue/>

<OrderSpecialCharges/>

<OrderFreight/>

<OrderTax/>

<HeaderStatusCode/>

<ShipMethod/>

<LineItems>

<LineItem>

<WebLineNumber/>

<LegacyLineNumber/>

<POLineID/>

<LineDistributionNumber/>

<LineProcessCode/>

<LineType/>

<LegacyProductCode/>

<CustomerProductCode/>

<ManufacturerProductCode/>

<MasterProductCode/>

<SpecialChargeCode/>

<BaseUnitOfMeasure/>

<OrderedQtyInBase/>

<ShippedQtyInBase/>

<BackorderedQtyInBase/>

<PriceUnitOfMeasure/>

<UnitPrice/>

<LineDescription/>

<PriceOverrideFlag/>

<RequestedUnitOfMeasure/>

<RequestedOrderQuantity/>

<ShippedQty/>

<BackOrderQty/>

<CustomerLineNumber/>

<CustomerLinePONumber/>

<CustomerLineAccountNumber/>

<CustomerUserField1/>

<CustomerUserField2/>

<CustomerUserField3/>

<ShipFromBranch/>

<CouponCode/>

<AdjustmentAmount/>

<LineNotes/>

<LineSpecialCharges/>

<LineFreight/>

<LineTax/>

<LineTotal/>

<OrderedQtyLineTotal/>

<LineStatusCode/>

</LineItem>

</LineItems>

</CurrentCustomerOrder>

<OriginalCustomerOrder>

<SourceIndicator/>

<LiaisonMessageId/>

<BuyerId/>

<EtradingId/>

<ShipToName/>

<AttentionName/>

<ShipToAddress1/>

<ShipToAddress2/>

<ShipToAddress3/>

<ShipToCity/>

<ShipToState/>

<ShipToZIP/>

<ShipToCountryCode/>

<CustomerPO/>

<ShipDate/>

<HeaderComments/>

<OrderedByName/>

<OrderCreateDate/>

<OrderSource/>

<HeaderProcessCode/>

<CurrencyCode/>

<LineItems>

<LineItem>

<POLineID/>

<LineProcessCode/>

<LegacyProductCode/>

<CustomerProductCode/>

<ManufacturerProductCode/>

<MasterProductCode/>

<PriceUnitOfMeasure/>

<UnitPrice/>

<LineDescription/>

<RequestedUnitOfMeasure/>

<RequestedOrderQuantity/>

<LineRequestedDeliveryDate/>

<CustomerLineNumber/>

<CustomerLinePONumber/>

<CustomerLineAccountNumber/>

<CustomerUserField1/>

<CustomerUserField2/>

<CustomerUserField3/>

<LineNotes/>

</LineItem>

</LineItems>

s</OriginalCustomerOrder>

</B2BOrderPlaceResponse>

## B2B Invoice Schema (Sterling to wM to Customer)

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

<B2BInvoice>

<EnvironmentId/>

<Company/>

<BuyerID/>

<WebConfirmationNumber/>

<OrderingDivision/>

<LegacyOrderNumber/>

<GenerationNumber/>

<LegacyOrderType/>

<InvoiceDistributionFlag/>

<ShipFromDivision/>

<CustomerEnvironmentID/>

<CustomerDivision/>

<CustomerNumber/>

<ShipToSuffix/>

<ShipToName/>

<AttentionName/>

<ShipToAddress1/>

<ShipToAddress2/>

<ShipToAddress3/>

<ShipToCity/>

<ShipToState/>

<ShipToZIP/>

<ShipToCountryCode/>

<BillToSuffix/>

<BillToName/>

<BillToAddress1/>

<BillToAddress2/>

<BillToAddress3/>

<BillToCity/>

<BillToState/>

<BillToZIP/>

<BillToCountryCode/>

<CustomerHeaderPONumber/>

<ShipDate/>

<HeaderComments/>

<OrderedByName/>

<OrderCreateDate/>

<CurrencyCode/>

<TotalShippableValue/>

<TotalOrderValue/>

<OrderSpecialCharges/>

<TotalOrderFreight/>

<TotalOrderTax/>

<InvoicedDate/>

<LDInvoiceNumber/>

<ShipVia/>

<CreditTerms/>

<SalesTaxPercentage/>

<SalesTaxAmount/>

<InvoiceTotal/>

<TotalDiscountAllowed/>

<SCACNumber/>

<CarrierNameDescription/>

<TermsNetDays/>

<TermsPercent/>

<CashDiscountDays/>

<DueDate/>

<RemitToDUNSNumber/>

<RemitToName/>

<RemitAddress1/>

<RemitAddress2/>

<RemitCity/>

<RemitState/>

<RemitZip/>

<BillToDUNSNumber/>

<SellerDUNSNumber/>

<ShiptoStoreNumber/>

<EmailAddress/>

<eTradingID/>

<LineItems>

<LineItem>

<WebLineNumber/>

<LegacyLineNumber/>

<LineDistributionNumber/>

<LineType/>

<LegacyProductCode/>

<CustomerProductCode/>

<BaseUnitOfMeasure/>

<OrderedQtyInBase/>

<ShippableQtyInBase/>

<BackOrderQtyInBase/>

<PriceUnitOfMeasure/>

<UnitPrice/>

<LineDescription/>

<RequestedUnitOfMeasure/>

<OrderedQtyInRequestedUoM/>

<ShippableQtyInRequestedUoM/>

<BackOrderQtyInRequestedUoM/>

<CustomerLineSequenceNumber/>

<CustomerLinePONumber/>

<CustomerLineAccountNumber/>

<CustomerLineField1/>

<CustomerLineField2/>

<CustomerLineField3/>

<ShipFromBranch/>

<LineNotes/>

<LineTax/>

<LineTotal/>

<ShippableQtyLineTotal/>

<LDOrderNumber/>

<ManufacturerItemNumber/>

<UnitWeight/>

<WeightPerCode/>

<ExtendedWeight/>

<FSCCertificationCode/>

<SFICertificationCode/>

<PEFCCertificationCode/>

<LineShipDate/>

<CustomerPODate/>

<LineSalesTaxPercentage/>

<BasisWeight/>

<RollWidth/>

<RollDiameter/>

<Brand/>

<Unspsc/>

<PklvOneUPC/>

<PklvTwoUPC/>

<PklvThreeUPC/>

<PklvFourUPC/>

<PklvFiveUPC/>

<PromotionCode/>

<AdjustedAmount/>

</LineItem>

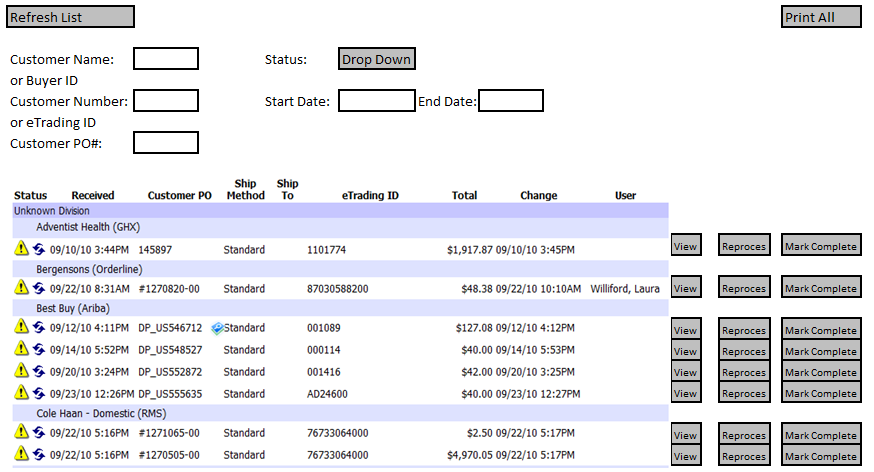
</LineItems>

</B2BInvoice>

## Screen Shot

***Original Order List Page***

This is a work in progress and doesn’t denote the final screen or functions. We are currently evaluating how much effort it is to add “search parameters” for original order.



‘Reprocess’ and ‘Mark Complete’ will not be present in ‘Processed’ status. ‘Reprocess’ will not be present if ‘eTrading ID’ is missing. Clicking on ‘View’ should open the Original Order Details View page screen.

***Original Order ViewPage***

[TBD] Insert screenshot of Order Details Page.

***Customer and ShipTo Setup Page***

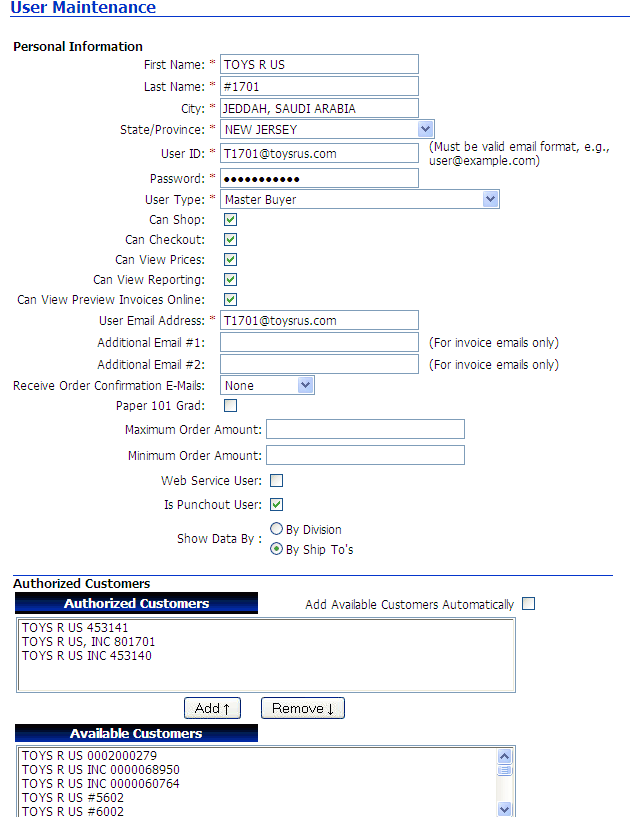
This will include elements from the Master Customer Maintenance Page. The element relevant to b2b transactions from the Master Customer Maintenance Page is the WebMethods Customer Id. This Id comes across on the b2b messages to identify the customer.

Web Methods Customer ID is what the customer sends as the Buyer ID on B2B transactions, which links it to the xpedx.com master customer.

******

***Customer User Setup Page***

The relevant elements specific for b2b transactions (stock check only) are the flag indicating that this is a stock check web service user. If this flag is checked, then the user credentials are used to authenticate the request.

******

## Open Questions

1. How are B2B transactions authenticated? Do they also use the network id/shared secret like punchout? [Brian W – 5/20 - Authentication is based on OrgID and Location ID setup with Webmethods and Liaison]
2. For stock check webservice, there is a flag on the customer profile called “Is webservice user”. How is this used? [Brian W – 5/20 - This determines if customer can use SCWS. Ankit, please provide further explanation on how this setting is used.]
3. Need session for - Connectivity for each b2b transaction.
4. Process to handle rogue orders, i.e. , orders with invalid Customer Ids or eTrading Ids or invalid user information? [Brian W – 5/20 - This is a requirement that Sterling will need to receive the orders from WM and provide some form of notification process to report order received with invalid customer or ship to ID. Would need to create an UNKNOWN Division for these orders to be sent.]
5. How is the National Account Number used on Master Customer Maintenance ? [Brian W – 5/20 - This is used for Preview invoicing only, if this field is provided then CSR can view invoices using the Preview Invoices link on x.com] [Prashant – 7/12 – Does this mean this is out of scope? I don’t know if any link to preview was planned for BR1.]
6. How is the BuyerId/wM Customer Id used? Is it relevant to b2b transactions? [Brian W. – 5/20 - Yes, WM post the orders to x.com using this BuyerID/WM Customer ID to determine which master customer order belongs to]
7. Have all the business rules been covered in the Order Business Rules document ? [Brian W – 5/20 - Yes, review the DDD for Business and Hold Rules]
8. Is there a requirement to store and use original price? How are original prices used on the interfaces? [Brian W – 5/20 - We do require the original unit price as well as the original unit UOM to be returned on the Order Response so we’ll need to pull that from the original order] [Prashant 7/12 – This would involve a lot of special processing and a new requirement of storing the order as it came in without any changes.] [Brian 7/14 - As indicated we have the need to store the original inbound order data for some customers require us to return on the 855 the original PO data.]
9. The b2b specific conversions for UoM replacement and UNSPSC – what is the data source and how is it managed? [Brian W. – 5/20 - 1. The UNSPSC replacement is done during the punch-out cart checkout from xpedx.com 2. This is done before we apply the OCI or cXML map to the cart output] [Prashant – 7/12 – How is this data managed?]
10. Need samples of all b2b transactions listed in appendix. In the case of stock check webservice – it’ll be the directly what the customer sends/receives. For the rest it’ll be what is exchanged between wM and Sterling. This will need to come from wM, since we are attempting to not change anything at the customer end.
11. Need session for mapping each b2b transaction at the field level
12. What happens to an order place (850) when the legacy is down? What happens to an order place ack (855)? [Brian W – 5/20 - Today the order can still be received in x.com and goes in exception status if legacy is down]. [ Prashant 7/12 – In NG, if the order has no errors, then Sterling will be able to accept this order even if legacy is down. It will follow the same process as normal orders do.]
13. Today webMethods does a high level UoM/eTrading Id/ wM Customer Id validations using the dotcom tables. Going forward what will be the processes done by webMethods and what will be handled by Sterling ?
14. What is the process flow for Invoices – does Sterling send an b2b Invoice (810) every time it receives an Invoice transaction from Legacy and the customer is marked for passthrough invoices ? [Brian W – 5/20 - Yes today we send an invoice every time legacy sends one, we have a few customers that WM batches the invoices but legacy still sends individual invoices]. [Prashant – 7/12 – per understanding batching of invoices is not in scope for BR1.]
15. What are the requirements around resending invoices/po acks. Sterling will have to develop this custom if required. [Brian W – 5/20 - We need a process to be able to resend an invoice, there are occasions when the customer claims they did not receive an invoice even though we show it was sent.] [Brian W – 5/20 - For POack, we currently do not have the capability to resend, once the order has been processed and legacy sends an order response we send the PO ack, however if the WM routing is not setup for example then we need to be able to resend the PO ack to WM .] [Prashant – 7/12 – Per discussions, it was ok if this was handled as an IT function rather than build UIs for this. Please confirm.]
16. What is the expectation around storing invoice data in Sterling ?
17. How are ACCESS\_Brand\_weight and ACCESS\_Brand\_code used on invoices (Barry B email 4/14 fwd from Brian).
18. For order place request – how do we know which user is placing the order? Is there any validation? [Brian W – 5/20 - We map the buyer or contact from the EDI if sent. No validation is completed, used for Customer Service only.] [Prashant 7/12 – In Sterling the order has to be associated to a user, so in case this field in not populated in incoming PO, we need a business rule to assign it to a user.]
19. How are the setups for each of the b2b transactions different? What is required to setup a customer for b2 stock check vs b2b order place request, vs b2b invoice?
20. Are there any business rules for b2b stock check? [Brian W – 5/20 - None, with the exception of stock checking no more than 50 items during business hours.]
21. How will the customer know which URL to invoke the SCWS at? - [Brian - 7/14 - The setup is provided under the SCWS section on what URL they are to post to. If you need further information please contact Ankit (HP).]
22. How is the user id/password used in SCWS? How is this user setup in xpedx.com ? [ Brian 7/14 - It’s the same as setting up any other User that should be covered under Customer Profile DDD.]
23. The schema for SCWS Request is not provided. [Brian 7/14 - I provided the complete user setup guide that included samples of the schema’s within the DDD.]
24. Feedback talks about Customer to wM to Sterling. I don’t know how this will work. Could you please provide the connectivity piece ? [Brian - 7/14 - That is to be determined by WM. Perhaps an email to Scott Torrison will give you more information but not sure if they have determined the connectivity piece yet.]
25. [UoM Replacements - Brian W – 5/20 - Colin, can you clarify this process?] [Colin – 7/15 - The UOM solution for B2B messaging has not yet been implemented however it was supposed to follow the same process as the Punchout solution. Basically, a request is put into IT with an excel spreadsheet that lists the UOMs the customer will be sending and what we want that changed to. It is a basic cross reference to assure we can accommodate the incoming data. Someone from Georges team would then load this into the xpedx.com database. George, if you would like to elaborate please do so.]
26. Prashant – 9/30 – SCWS – Pending open items on the mapping captured in mapping document around fields such as “Customer Number” – (Customer Profile -> SAP Parent), “Manufacturer” – (Item Master ->Supplier Name Display).
27. Prashant – 9/30 – SCWS - How will we handle multi-value attributes ? Ans - 10/5 – No attributes will be sent in NG SCWS.
28. Prashant – 9/30 – Error Messages scenarios/rules need to be clarified/defined. Prashant - 10/5 – Error messages/codes defined and included in scws mapping doc.
29. Brian/Jay – PO – Ship Method mapping question. Ans- 10/5 – No action required on any value in this field.
30. Prashant – 9/30 – Dependency on Invoice fields based on RSD v1.7 – Need to define in legacy interfaces - ShipToStore# - (Ans – LocationId on customer batch) , Email address field (not in latest RSD – Resolved – CustomerEmailAddress profile field), LineTax – (new comment in RSD that says its mandatory on EDI – need to add to legacy invoice and b2b), Item Level – Certification Codes (new RSD says they are on Legacy interface – pull only from Invoice feed. Change item feed to not have these extn fields), ExternalComments (delete from mapping? - yes), NoOfLines (Not in latest RSD – Deleted ? - Yes), Customer PO Date (New field ? Yes. Who populates this and from where? Ans – Sterling create date) – needs to be managed through the Change Request process.
31. Prashant – 9/30 – Fields on Legacy Invoice not on B2B Invoice – Generation Number, Legacy Order Type, Invoice Distribution Flag, Customer Environment Id, Shippable Qty in Base, Backorder Qty in Base, Ship From Branch, Line Total, Customer PO Date – Ans - Add all of these to B2B Invoice document.
32. Prashant – 9/30 – Fields on B2B Invoice not on Legacy Invoice feed – Line Special Charges and Line Freight (Ans – In Sterling these are just another line type but wM takes that puts them into these outgoing xml. Need to add LineType back into Legacy Invoice DDD), External Comments ( not relevant – remove from B2B Invoice), Number of Lines (Ans – Calculated by wM/Liaison).
33. Prashant – 9/30 – The Certification fields at Line Level – where are they coming from Invoice feed or Catalog? Ans - Invoice
34. Prashant – 9/30 – Please provide list of fields to be added to catalog mapping. Currently it looks like only 4 fields – BasisWeight, RollWidth, RollDiameter and Brand. Ans – Also adding UPC/USPSC fields to Catalog mapping and need to be added to B2B Invoice.
35. Prashant – 9/30 – PO Ack - Ship To Email – where is this field coming from ? Ans – Customer Profile->Customer Email Address.
36. Prashant – 9/30 – PO Ack – Order Source – the business rule will be implemented in wM correct? Ans – Yes. The business rule that Sterling uses to populate this field during Order Place provided by xpedx.
    * B2B - EDI (Electronic) – If order place is called on legacy without CSR ever touching the order.
    * B2B Internal (electronic, touched in call center) – on reprocess by CSR in COM
    * External - Customers (placed on Web by customer) - Web Channel orders
    * Internal - eCSR (touched the Web order) - On orders created in COM by Internal users.
37. Prashant – 9/30 – PO Ack - What are the following fields and how are they populated OriginalLegacyProductCode (will be read by wM from OriginalOrder->LegacyProductCode), RequestedUnitPrice(will be read by wM from Original Order), LineDeliveryDate (already in incoming 850 - Remove), POLineACKCode (determined by wM(Liaison side)), ConfirmedLineShipDate ( Remove)?
38. Prashant – 9/30 – On original order screens being developed, do we need search functionality? This wasn’t discussed originally. Ans – Yes.
39. Prashant – 10/5 – SCWS – For the Uom List, we’ll be sending them in standard xml format with a repeating element rather than the current UoM1/UoM2 type elements.
40. Prashant - 10/5 – scws - xpedx requirement - ws should not have unencrypted password tied to the user's account. How can we achieve this in Sterling?
41. Prashant – 10/5 - Need business rule to process the incoming line since there are 4 item numbers - Legacy/Customer/Manufacturer and MPC.

## Assumptions

1. Pricing Rules/Coupons are not applicable for b2b transactions.
2. UNSPSC and UoM Replacements are done only on incoming/outgoing messages.
3. The following B2B Transactions are out of scope for BR1
   * PO Change (B2B Order Change – EDI 860)
   * PO Change Ack (B2B Order Change Ack – EDI 865)
   * ASN (B2B ASN – EDI 856)
   * Invoice Rejection (B2B Invoice Rejection – EDI 824)
4. B2B Invoices are applicable only for pass-through customers in BR1. This means that the invoices are sent at the legacy order level and not at the roll-up or web confirmation level.
5. National Account customers will talk EDI directly to ACCESS as they do currently.
6. On Original Order List screen show only orders that are "marked complete" and "need attention"
7. All original orders will be purged in 6 months
8. B2B Invoice resends are managed by Liaison/wM and there is no need in Sterling to develop a view into the Sterling Invoice table. However, for the cases that wM is down, Sterling will develop a cron to resend the failed messages.
9. B2B Original Order Details View will contain a layout similar to the current Customer Order Details Page.
10. SCWS will not contain any attribute/attribute values.
11. SCWS Units of measure section has been modified to fit into a standard xml format rather than fixed position indicators.
12. The end-to-end timing for the SCWS is currently 1s for 200 items and it is the same requirement for next gen.

# Connectivity Diagram

## B2B Transactions Connectivity Diagram

The connectivity for all B2B transactions can be browken down into two portions –

1. Order Place/ Order Place Ack and Invoice – These are direct web service calls between wM and Sterling.

2. Stock Check Webservice – The connectivity has been specified in the document titled “xcom NG Connectivity Finalized Transactions.vsd”. Here is the relevant tab for Stock Check Webservice from that document.



## Connectivity Process

The following visio shows the connectivity process for all B2B transactions



# 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. | IW | Industrial Wisdom – UI firm engaged on the project. |
| 6. | UoM | Unit of Measure |
| 7. | ASN | Advance Shipment Notice |

# Appendix

The appendix contains samples from the existing x.com functionality. These are for reference for Sterling purposes only.

## B2B Stock Check Request Sample

<?xml version="1.0" encoding="UTF-8"?>

<xpedxStockCheckWSRequest xmlns:ns1="https://b2b.xpedx.com/webservices/">

<SenderCredentials>

<UserEmail>SampleUsername@domain.com</UserEmail>

<UserPassword>SamplePassword</UserPassword>

</SenderCredentials>

<StockCheckRequests>

<eTradingPartnerID>SampleEtradingPartner</eTradingPartnerID>

<StockCheckRequest>

<Items>

<Item>

<IndexID>1</IndexID>

<xpedxPartNumber>XYZ123</xpedxPartNumber>

<CustomerPartNumber></CustomerPartNumber>

<Quantity>1</Quantity>

<UOM>SH</UOM>

</Item>

<Item>

<IndexID>2</IndexID>

<xpedxPartNumber></xpedxPartNumber>

<CustomerPartNumber>ABC987</CustomerPartNumber>

<Quantity></Quantity>

<UOM></UOM>

</Item>

</Items>

</StockCheckRequest>

</StockCheckRequests>

</xpedxStockCheckWSRequest>

## B2B Stock Check Response Sample

Below is an example of a stockcheck response from the xpedx stockcheck webservice.

<xpedxStockCheckWSResponse xmlns="http://b2b.xpedx.com/StockCheck\_WebService/">

<RootErrorInfo>

<ErrorCode>0</ErrorCode>

<ErrorMessage />

</RootErrorInfo>

<SenderCredentials>

<UserEmail>testUser at ipaper.com</UserEmail>

<UserPassword>testpassword</UserPassword>

</SenderCredentials>

<StockCheckResponse>

<eTradingPartnerID>PartnerID</eTradingPartnerID>

<ErrorCode>0</ErrorCode>

<ErrorMessage />

<Items>

<Item>

<IndexID>1</IndexID>

<xpedxPartNumber>512731</xpedxPartNumber>

<CustomerPartNumber />

<Quantity>1</Quantity>

<UnitOfMeasure>CT</UnitOfMeasure>

<ErrorCode>0</ErrorCode>

<ErrorMessage />

<CustomerNumber>1009605846</CustomerNumber>

<Category1>Facility Supplies</Category1>

<Category2>Towels, Tissues, Wipers</Category2>

<Category3>Tissue</Category3>

<Category4>Toilet Tissue</Category4>

<PUN>Acclaim Micro-Twin System Tissue Products</PUN>

<ItemDescription>Acclaim Micro-Twin System Tissue Products, 2 Ply, 3.9" W x

4.5" L, 1.625" Core, White, Roll (1000 Sheet/Roll, 48 Roll/Case)

</ItemDescription>

<ItemSellText>Micro-Twin bath tissue is designed to reduce maintenance time,

minimize outages and reduce waste, making it ideal for high-traffic areas.

</ItemSellText>

<AvailabilityMessage>Ready To Ship</AvailabilityMessage>

<SameDayDescription>CINCINNATI</SameDayDescription>

<SameDayQuantity>60 Cartons</SameDayQuantity>

<NextDayDescription>Next Day</NextDayDescription>

<NextDayQuantity>0 Cartons</NextDayQuantity>

<TwoDayDescription>2+ Days</TwoDayDescription>

<TwoDayQuantity>0 Cartons</TwoDayQuantity>

<OrderMultiple />

<OrderMultipleMessage />

<TotalPrice>$119.15</TotalPrice>

<Manufacturer>Georgia-Pacific</Manufacturer>

<ManufacturerPartNumber>15100</ManufacturerPartNumber>

<ItemStatus>Valid Item</ItemStatus>

<UnitPrice1>$119.15 / Price per Each</UnitPrice1>

<UnitPrice2>$119.15 / Carton</UnitPrice2>

<UOMCode1>CT</UOMCode1>

<UOMDescription1>Carton</UOMDescription1>

<CatalogAttributeName1>Catalog</CatalogAttributeName1>

<CatalogAttributeValue1>1057674</CatalogAttributeValue1>

<CatalogAttributeName2>Product</CatalogAttributeName2>

<CatalogAttributeValue2>Bathroom Tissue</CatalogAttributeValue2>

<CatalogAttributeName3>Brand</CatalogAttributeName3>

<CatalogAttributeValue3>Acclaim Micro-Twin</CatalogAttributeValue3>

<CatalogAttributeName4>Environmental</CatalogAttributeName4>

<CatalogAttributeValue4>EPA; Green Friendly</CatalogAttributeValue4>

<CatalogAttributeName5>Color</CatalogAttributeName5>

<CatalogAttributeValue5>White</CatalogAttributeValue5>

<CatalogAttributeName6>Form</CatalogAttributeName6>

<CatalogAttributeValue6>Roll</CatalogAttributeValue6>

<CatalogAttributeName7>Material</CatalogAttributeName7>

<CatalogAttributeValue7>Tissue</CatalogAttributeValue7>

<CatalogAttributeName8>Ply</CatalogAttributeName8>

<CatalogAttributeValue8>2 Ply</CatalogAttributeValue8>

<CatalogAttributeName9>Size</CatalogAttributeName9>

<CatalogAttributeValue9>3.9" W x 4.5" L, 1.625" Core

</CatalogAttributeValue9>

<CatalogAttributeName10>UNSPSC</CatalogAttributeName10>

<CatalogAttributeValue10>14111704</CatalogAttributeValue10>

<CatalogAttributeName11>UNSPSC Description</CatalogAttributeName11>

<CatalogAttributeValue11>Toilet tissue</CatalogAttributeValue11>

<CatalogAttributeName12>BaseUOM</CatalogAttributeName12>

<CatalogAttributeValue12>Sheet</CatalogAttributeValue12>

<CatalogAttributeName13>Packaging</CatalogAttributeName13>

<CatalogAttributeValue13>1000 Sheet/Roll, 48 Roll/Case

</CatalogAttributeValue13>

<CatalogAttributeName14>Weight</CatalogAttributeName14>

<CatalogAttributeValue14>41.6</CatalogAttributeValue14>

<CatalogAttributeName15>WeightUOM</CatalogAttributeName15>

<CatalogAttributeValue15>Case</CatalogAttributeValue15>

<CatalogAttributeName16>Cube</CatalogAttributeName16>

<CatalogAttributeValue16>3.964 Cubic Ft</CatalogAttributeValue16>

<CatalogAttributeName17>CubeUOM</CatalogAttributeName17>

<CatalogAttributeValue17>Case</CatalogAttributeValue17>

</Item>

</Items>

</StockCheckResponse>

</xpedxStockCheckWSResponse>

## B2B Order Place Sample

## B2B Order Place Ack Sample

**<?xml version="1.0"?>**

**<fxEnvelope>**

**<header>**

**<message>**

**<exchangeID></exchangeID>**

**<messageID></messageID>**

**<subject>OrderResponse</subject>**

**<payloadType>FXS-2.1</payloadType>**

**<version>2.1</version>**

**</message>**

**<from>**

**<orgID>xpx005</orgID>**

**<locationID>ZZ.BXXPEDX3~BXXPEDX3</locationID>**

**<systemID></systemID>**

**<messageID></messageID>**

**</from>**

**<to>**

**<orgID></orgID>**

**<locationID></locationID>**

**<systemID></systemID>**

**</to>**

**</header>**

**Order Response Body**

**<body>**

**<OrderResponse>**

**<OrderResponseHeader>**

**<OrderResponseNumber>**

**<BuyerOrderResponseNumber>0000069086</BuyerOrderResponseNumber>**

**<SellerOrderResponseNumber></SellerOrderResponseNumber>**

**</OrderResponseNumber>**

**<OrderResponseIssueDate>20100105T22:14:00</OrderResponseIssueDate>**

**<OrderResponseDocTypeCoded>OrderResponse</OrderResponseDocTypeCoded>**

**<OrderReference>**

**<Reference>**

**<RefNum>0000069086</RefNum>**

**<RefDate>20100107T12:44:21</RefDate>**

**</Reference>**

**</OrderReference>**

**<ListOfReferenceCoded>**

**<ReferenceCoded>**

**<ReferenceTypeCoded>Other</ReferenceTypeCoded>**

**<ReferenceTypeCodedOther>2</ReferenceTypeCodedOther>**

**<PrimaryReference>**

**<Reference>**

**<RefNum>400013460983</RefNum>**

**</Reference>**

**</PrimaryReference>**

**</ReferenceCoded>**

**</ListOfReferenceCoded>**

**<Purpose>**

**<PurposeCoded>Original</PurposeCoded>**

**</Purpose>**

**<ResponseType>**

**<ResponseTypeCoded>AE</ResponseTypeCoded>**

**</ResponseType>**

**<OrderHeaderChanges>**

**<OrderHeader>**

**<OrderNumber>**

**<BuyerOrderNumber>0000069086</BuyerOrderNumber>**

**</OrderNumber>**

**<OrderIssueDate>20100107T12:44:21</OrderIssueDate>**

**<Purpose>**

**<PurposeCoded>Original</PurposeCoded>**

**</Purpose>**

**<OrderCurrency>**

**<Currency>**

**<CurrencyCoded>USD</CurrencyCoded>**

**</Currency>**

**</OrderCurrency>**

**<OrderLanguage>**

**<Language>**

**<LanguageCoded>en</LanguageCoded>**

**</Language>**

**</OrderLanguage>**

**<OrderParty>**

**<ShipToParty>**

**<Party>**

**<PartyID>**

**<Identifier>**

**<Agency>**

**<AgencyCoded>AssignedBySellerOrSellersAgent</AgencyCoded>**

**</Agency>**

**<Ident>90-1170223-003</Ident>**

**</Identifier>**

**</PartyID>**

**<NameAddress>**

**<Name1>NORMAN REGIONAL HOSPITAL</Name1>**

**<Street></Street>**

**<StreetSupplement1>ATT: RECEIVING</StreetSupplement1>**

**<StreetSupplement2></StreetSupplement2>**

**<PostalCode></PostalCode>**

**<City>901 N. PORTER</City>**

**<Region>**

**<RegionCoded></RegionCoded>**

**</Region>**

**</NameAddress>**

**</Party>**

**</ShipToParty>**

**</OrderParty>**

**<OrderTermsOfDelivery>**

**<TermsOfDelivery>**

**<ShipmentMethodOfPaymentCoded>DefinedByBuyerAndSeller</ShipmentMethodOfPaymentCoded>**

**<Location>**

**<LocationQualifierCoded>Origin-ShippingPoint</LocationQualifierCoded>**

**</Location>**

**</TermsOfDelivery>**

**</OrderTermsOfDelivery>**

**</OrderHeader>**

**</OrderHeaderChanges>**

**</OrderResponseHeader>**

**<OrderResponseDetail>**

**<ListOfOrderResponseItemDetail>**

**<OrderResponseItemDetail>**

**<ItemDetailResponseCoded>ID</ItemDetailResponseCoded>**

**<ListOfReferenceCoded>**

**<ReferenceCoded>**

**<ReferenceTypeCoded>Other</ReferenceTypeCoded>**

**<ReferenceTypeCodedOther>1</ReferenceTypeCodedOther>**

**<PrimaryReference>**

**<Reference>**

**<RefNum>1</RefNum>**

**</Reference>**

**</PrimaryReference>**

**</ReferenceCoded>**

**<ReferenceCoded>**

**<ReferenceTypeCoded>Other</ReferenceTypeCoded>**

**<ReferenceTypeCodedOther>2</ReferenceTypeCodedOther>**

**<PrimaryReference>**

**<Reference>**

**<RefNum>400013460983</RefNum>**

**</Reference>**

**</PrimaryReference>**

**</ReferenceCoded>**

**</ListOfReferenceCoded>**

**<ItemDetailChanges>**

**<ItemDetail>**

**<BaseItemDetail>**

**<LineItemNum>**

**<BuyerLineItemNum>1</BuyerLineItemNum>**

**</LineItemNum>**

**<ItemIdentifiers>**

**<PartNumbers>**

**<SellerPartNumber>**

**<PartNum>**

**<PartID>5304802</PartID>**

**</PartNum>**

**</SellerPartNumber>**

**<BuyerPartNumber>**

**<PartNum>**

**<PartID>003620</PartID>**

**</PartNum>**

**</BuyerPartNumber>**

**<ManufacturerPartNumber>**

**<PartID></PartID>**

**</ManufacturerPartNumber>**

**</PartNumbers>**

**<ItemDescription></ItemDescription>**

**</ItemIdentifiers>**

**<TotalQuantity>**

**<Quantity>**

**<QuantityValue>1</QuantityValue>**

**<UnitOfMeasurement>**

**<UOMCoded>CT</UOMCoded>**

**</UnitOfMeasurement>**

**</Quantity>**

**</TotalQuantity>**

**<ListOfItemReferences>**

**<ListOfReferenceCoded>**

**<ReferenceCoded>**

**<ReferenceTypeCoded>CustomerReferenceNumber</ReferenceTypeCoded>**

**<ReferenceTypeCodedOther></ReferenceTypeCodedOther>**

**<PrimaryReference>**

**<Reference>**

**<RefNum></RefNum>**

**</Reference>**

**</PrimaryReference>**

**<SupportingReference>**

**<Reference>**

**<RefNum></RefNum>**

**</Reference>**

**</SupportingReference>**

**</ReferenceCoded>**

**</ListOfReferenceCoded>**

**</ListOfItemReferences>**

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## B2B Invoice Sample (wM to Customer)

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