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Integrated Cart with PO Service

*Using PO XML*

23rd November 2022

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Overview

This document contains the processing flow, field definitions, and general information necessary in order to design an Integrated Cart between the ESM Solutions (ESM) Purchase application and a third-party ERP. The *Integration* *Notes* section provides important design guidelines that ESM Solutions follows. The *Process Flow* sections describe the life cycles of the various transactions across the two systems. The *Data Definitions* sections provides a list of supported XML fields, and the *Sample XML Transactions* section illustrates example formats in which they might be used. The formats and methodologies in this document are based on the cXML 1.2.023 standard. For more information on cXML, visit the [www.cxml.org](http://www.cxml.org) web site.

Process Flow



Process Steps

The user initiates a “punch-out” action from within the ERP application.

The ERP application generates a “PunchoutSetupRequest” XML document, and posts it to the ESM server (via a synchronous server-to-server streamed XML post).

The ESM server validates the credentials, generates a user session, and responds synchronously to the post with a shopping cart URL.

The ERP system navigates the client browser (via a pop-up or within a frame) to the provided cart URL

The user builds a shopping cart within the ESM Shopping Cart site. Data values visible to the user in the UI are:

Item Name

Product Description

Supplier Name

Manufacturer Name

Manufacturer Part #

Catalog Item #

Unit of Measure

Catalog Name

Contract name

Contract #

Quantity

Unit Price

The user selects the “Continue” Button.

The ESM system posts the cart XML to the ERP system URL provided in the original “PunchoutSetupRequest” document.

The ERP application processes the cart XML, creating a local copy of the cart, and responds synchronously to the web post with a success or failure XML message.

Data Definitions – Integrated Cart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NAME | Description | DataType | Length | Used In Documents | Required/Optional |
| Header/From/Credential/Identity | ESM’s Customer ID for the buying entity | nvarchar | 500 | ICPunchOutSetupRequest | Required |
| Header/From/Credential/Domain |  | nvarchar | - | ICPunchOutSetupRequest | Required |
| Header/To/Credential/Identity | ESM’s User ID for the purchaser | nvarchar | 500 | ICPunchOutSetupRequest | Required |
| Header/Sender/Credential/Identity | ESM’s Customer ID for the buying entity | nvarchar | 500 | ICPunchOutSetupRequest | Required |
| Header/Sender/Credential/SharedSecret | ESM’s password for the purchaser | nvarchar | 500 | ICPunchOutSetupRequest | Required |
| Request/ PunchOutSetupRequest/Operation | Operation to be performed (CREATE) | nvarchar | 20 | ICPunchOutSetupRequest | Required |
| Request/ PunchOutSetupRequest/BuyerCookie | Unique ID provided by the purchaser | nvarchar | 255 | ICPunchOutSetupRequest | Required |
| Request/ PunchOutSetupRequest/Extrinsic/UserEmail | User's Email Address | nvarchar | 100 | ICPunchOutSetupRequest | Required |
| Request/ PunchOutSetupRequest/Extrinsic/UserFirstName | User's First Name | nvarchar | 50 | ICPunchOutSetupRequest | Required |
| Request/ PunchOutSetupRequest/Extrinsic/UserLastName | User's Last Name | nvarchar | 50 | ICPunchOutSetupRequest | Required |
| Request/ PunchOutSetupRequest/BrowserFormPost/URL | URL for Final Shopping cart post | nvarchar | 500 | ICPunchOutSetupRequest | Required |
|  |  |  |  |  |  |
| Response/Status/Code | Response Code to indicate success, Failures, etc | nvarchar | 20 | ICPunchOutSetupResponse | Required |
| Response/Status/Text | Response Text to indicate success, Failures, etc | nvarchar | 20 | ICPunchOutSetupResponse | Required |
| Response/ PunchOutSetupResponse/StartPage/URL | URL for users Shopping Cart Experience | nvarchar | 500 | ICPunchOutSetupResponse | Optional |
|  |  |  |  |  |  |
| Header/From/Credential/Identity | ESM’s User ID for the purchaser | nvarchar | 500 | ICPunchOutCartRequest | Required |
| Header/To/Credential/Identity | ESM’s Customer ID for the buying entity | nvarchar | 500 | ICPunchOutCartRequest | Required |
| Header/Sender/Credential/Identity | ESM’s User ID for the purchaser | nvarchar | 500 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/BuyerCookie | Unique ID provided by the purchaser | nvarchar | 255 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/PunchOutOrderMessageHeader/OperationAllowed | Operation to be performed (CREATE) | nvarchar | 20 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/PunchOutOrderMessageHeader/Total/Money | Total price of all items in the Cart in Currency USD | decimal | (18,6) | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ ItemIn/Quantity | Quantity requested for a cart item | integer | 7 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemID/SupplierPartID | Suppliers identifier for a cart item | nvarchar | 255 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemID/SupplierPartAuxiliaryID | Supplier generated key that identifies a cart item uniquely when combined with SupplierPartID | nvarchar | 255 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/UnitPrice/Money | Unit price for a cart item | decimal | (18,6) | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Description | Description for a cart item | nvarchar | Max | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/UnitofMeasure | Unit of measure for a cart item | nvarchar | 32 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Classification/Domain | Classification domain for a cart item | nvarchar | 255 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Classification | Classification for a cart item | nvarchar | 255 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/ManufacturerPartID | Manufacturer’s item number for a cart item | nvarchar | 255 | ICPunchOutCartRequest | Optional |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/ManufacturerName | Name of manufacturer for a cart item | nvarchar | 1000 | ICPunchOutCartRequest | Optional |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/URL | Cart item URL | nvarchar | 200 | ICPunchOutCartRequest | Optional |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Extrinsic/RequisitionID | ID of Requisition created for this cart in ESM  | integer | 10 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Extrinsic/RequisitionItemID | ID of Requisition Item created for this cart item in ESM | integer | 10 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Extrinsic/ShippingPercentage | Shipping Percentage for each cart item | decimal | (18,6) | ICPunchOutCartRequest | Optional |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Extrinsic/SupplierID | ID of Supplier created inside Easy Purchase  | integer | 10 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Extrinsic/GLSupplierID | ID of Supplier created inside Customer’s General Ledger system | nvarchar | 20 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Extrinsic/SupplierName | Name of Supplier created in ESM Application | nvarchar | 255 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Extrinsic/CatalogID | ID of Supplier Catalog created inside Easy Purchase | integer | 10 | ICPunchOutCartRequest | Required |
| Message/PunchOutOrderMessage/ItemIn/ItemDetail/Extrinsic/CatalogName | Name of Catalog created in ESM Application | nvarchar | 50 | ICPunchOutCartRequest | Required |

Sample XML Transactions – Integrated Cart

Punchout Setup Request - CREATE from ERP

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

<!DOCTYPE cXML SYSTEM "http://xml.cXML.org/schemas/cXML/1.2.023/cXML.dtd">

<cXML payloadID="1233444-200@ariba.acme.com" timestamp="1999-03-12T18:39:09-08:00">

 <Header>

 <From>

 <Credential domain="NetworkId">

 <Identity>PPD-123</Identity>

 </Credential>

 </From>

 <To>

 <Credential domain="DUNS">

 <Identity>ik</Identity>

 </Credential>

 </To>

 <Sender>

 <Credential domain="NetworkId">

 <Identity>PPD-123</Identity>

 <SharedSecret>PPD-345</SharedSecret>

 </Credential>

 <UserAgent>IC Test entity user agent</UserAgent>

 </Sender>

 </Header>

 <Request>

 <PunchOutSetupRequest operation="create">

 <BuyerCookie>34234234ADFSDF234234</BuyerCookie>

 <Extrinsic name="UserEmail">ppd@esmsolutions.com</Extrinsic>

 <Extrinsic name="UserFirstName">Pravin</Extrinsic>

 <Extrinsic name="UserLastName">Pawar</Extrinsic>

 <BrowserFormPost>

 <URL>http://192.168.1.37:804/home/receivecartrequest</URL>

 </BrowserFormPost>

 </PunchOutSetupRequest>

 </Request>

</cXML>

Punch-Out Setup Response - CREATE from ESM

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

<!DOCTYPE cXML SYSTEM "http://xml.cXML.org/schemas/cXML/1.2.023/cXML.dtd">

<cXML timestamp="2013-01-18T16:00:26" payloadID="5377558e-f6b9-4926-bd2a-62fbe6050740">

 <Response>

 <Status code="200" text="OK"/>

 <PunchOutSetupResponse>

 <StartPage>

 <URL>https://epmqa.esmsolutions.com/IntegratedCart/AutoLoginForIntegratedCart?token=3c24a244-0406-47aa-ba2c- 22efcb20a743</URL>

 </StartPage>

 </PunchOutSetupResponse>

 </Response>

</cXML>

Shopping Cart Request - CREATE from ESM

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

<!DOCTYPE cXML SYSTEM "http://xml.cXML.org/schemas/cXML/1.2.023/cXML.dtd">

<cXML timestamp="2013-01-21T10:43:20" payloadID="f601d58b-8578-43c4-bbca-669f487549bb">

 <Header>

 <From>

 <Credential domain="DUNS">

 <Identity>132443859</Identity>

 </Credential>

 </From>

 <To>

 <Credential domain="NetworkId">

 <Identity>PPD-123</Identity>

 </Credential>

 </To>

 <Sender>

 <Credential domain="DUNS">

 <Identity>132443859</Identity>

 </Credential>

 <UserAgent>ESMPunchOut v1.0</UserAgent>

 </Sender>

 </Header>

 <Message>

 <PunchOutOrderMessage>

 <BuyerCookie>34234234ADFSDF234234</BuyerCookie>

 <PunchOutOrderMessageHeader operationAllowed="create">

 <Total>

 <Money currency="USD">1.160000</Money>

 </Total>

 </PunchOutOrderMessageHeader>

 <ItemIn Quantity="1">

 <ItemID>

 <SupplierPartID>01280000043</SupplierPartID>

 <SupplierPartAuxiliaryID>123</SupplierPartAuxiliaryID>

 </ItemID>

 <ItemDetail>

 <UnitPrice>

 <Money currency="USD">0.240000</Money>

 </UnitPrice>

 <Description xml:lang="en-US">

Multi-purpose Standard Cell Size Batteries: Type - Non-Rechargeable Battery; Chemical System - Alkaline; Cell Size - AA; Voltage - 1.5V; Capacity - 2500 mAh; Terminals - Flat Terminals; Height - 1.98"H; Diameter - 0.56"Dia; Package Quantity - 6; Manufacturer Series - Ultra Pro™

 </Description>

 <UnitOfMeasure>Each</UnitOfMeasure>

 <Classification domain="UNSPSC">12345 </ Classification >

 <ManufacturerPartID>AL-AA</ManufacturerPartID>

 <ManufacturerName>Some Manufacturer</ManufacturerName>

 <URL>http://www.wescodirect.com/wescodirect/images/products/large/ray\_alaa.jpg</URL>

 <Extrinsic name="RequisitionId">4128</Extrinsic>

 <Extrinsic name="RequisitionItemId">34</Extrinsic>

 <Extrinsic name="ShippingPercentage">10.000000</Extrinsic>

 <Extrinsic name="SupplierId">23</Extrinsic>

 <Extrinsic name="GLSupplierId">23nj435</Extrinsic>

 <Extrinsic name="SupplierName">Supplier Name</Extrinsic>

 <Extrinsic name="CatalogId">2</Extrinsic>

 <Extrinsic name="CatalogName">Catalog Name</Extrinsic>

 </ItemDetail>

 </ItemIn>

 <ItemIn Quantity="2">

 <ItemID>

 <SupplierPartID>01280014597</SupplierPartID>

 <SupplierPartAuxiliaryID>456</SupplierPartAuxiliaryID>

 </ItemID>

 <ItemDetail>

 <UnitPrice>

 <Money currency="USD">0.460000</Money>

 </UnitPrice>

 <Description xml:lang="en-US">

Bulbs: Bulb Type - Standard; Primary Application - Flashlight; No. of Cells - 2; Battery Type - D; Base - Flanged; Package - 1

 </Description>

 <UnitOfMeasure>Each</UnitOfMeasure>

 <Classification domain="UNSPSC">34567</Classification>

 <ManufacturerPartID>PR6-BULB</ManufacturerPartID>

 <ManufacturerName>Some Manufacturer</ManufacturerName>

 <URL>http://www.wescodirect.com/wescodirect/images/products/large/78280014597pcds.jpg</URL>

 <Extrinsic name="RequisitionId">4128</Extrinsic>

 <Extrinsic name="RequisitionItemId">354</Extrinsic>

 <Extrinsic name="ShippingPercentage">10.000000</Extrinsic>

 <Extrinsic name="SupplierId">23</Extrinsic>

 <Extrinsic name="GLSupplierId">23nj4353e3</Extrinsic>

 <Extrinsic name="SupplierName">Supplier Name</Extrinsic>

 <Extrinsic name="CatalogId">2</Extrinsic>

 <Extrinsic name="CatalogName">Catalog Name</Extrinsic>

 </ItemDetail>

 </ItemIn>

 </PunchOutOrderMessage>

 </Message>

</cXML>

Shopping Cart Response - CREATE from ERP

<html>

<head>

</head>

<body onload="javascript:close()" bgcolor="#ffffff" text="#000000" topmargin="0">

 <table width="100%" height="100%">

 <tr valign="center">

 <td align="center">

 <table>

 <tr height="24">

 <td align="center">

 <font face="Arial" size="2">Your shopping cart has been successfully exported into vendor's Marketplace. </font>

 </td>

 </tr>

 <tr height="24">

 <td align="center">

 <font face="Arial" size="2">You may now close this window. </font>

 </td>

 </tr>

 </table>

 </td>

 </tr>

 </table>

</body>

</html>

Process Steps – PO Service

The user submits their requisition through the ERP system for approval.

Once final approval is achieved in the ERP the requistion will be approved as a purchase order and flagged for transmission through the ESM Solutions PO Service Module.

ERP will pass all relevent purchase order information to ESM Solutions using the PO Transmission Data specification detailed below.

Once the ESM Solutions PO Service receives the information it will leverage the existing ESM Solutions electronic supplier transmission methods that are in place which include Email and PO XML.

The ESM Solutions system will reply with a succes/failure message based on the requisition information transmitted.

Upon transmission of the PO information to the Supplier, the ESM Solutions system will email a po confirmation back to the purchasing department.

Business Assumptions – PO Service

The PO Service will only work for requisition items that were created from the ESM Solutions Supplier Catalogs.

Upon implementation, the ship-to address information will be manually populated in the ESM Solutions system with the same address information that exists in the General Ledger system. This address information will be shared with the ESM Solutions vendors for mapping purposes.

An email service will be used to communicate to the customer that a purchase order was created and transmitted.

ERP system will ensure that the user who is creating and issuing the purchase order will know that the po is being released through the ESM Solutions PO service which will be different from other purchase orders that are created in the native ERP system.

Data Definitions – PO Service

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NAME | Description | DataType | Length | Used In Documents | Required/Optional |
| Header/From/Credential/Identity | ESM’s Customer ID for the buying entity | nvarchar | 500 | ICPunchOutOrderRequest | Required |
| Header/From/Credential/Domain |  | nvarchar | - | ICPunchOutOrderRequest | Required |
| Header/To/Credential/Identity | ESM’s User ID for the purchaser | nvarchar | 500 | ICPunchOutOrderRequest | Required |
| Header/Sender/Credential/Identity | ESM’s Customer ID for the buying entity | nvarchar | 500 | ICPunchOutOrderRequest | Required |
| Header/Sender/Credential/SharedSecret | ESM’s password for the purchaser | nvarchar | 500 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/OrderID | The identifier for this order. Analogous to the purchase order number. | nvarchar | 20 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/OrderDate | The date and time this order was placed | datetime | 20 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/Type | Type of the request: new (default), update, or delete. Note: Update and Delete are not supported at this time | Integer | 10 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/Total/Money | Total dollar amount for PO | Decimal | (18,6) | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/AddressID | Unique Identifier for the Shipping location | nvarchar | 20 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/Name | Customer delivery building name | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/PostalAddress/DeliverTo | Customer delivery building contact name | nvarchar | 110 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/PostalAddress/Street | Customer delivery building address (Street1) | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/PostalAddress/Street | Customer delivery building address (Street2) | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/PostalAddress/City | Customer delivery building address (City) | nvarchar | 30 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/PostalAddress/State | Customer delivery building address (State) | nvarchar | 100 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/PostalAddress/PostalCode | Customer delivery building address (Postal Code) | nvarchar | 15 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/PostalAddress/Country | Customer delivery building address (Country) | nvarchar | 100 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/Email | Customer delivery building contact email | nvarchar | 100 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/Phone/TelephoneNumber/CountryCode | Customer delivery building contact phone (Country code). Send fixed value “1”. | integer | 10 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/Phone/TelephoneNumber/AreaOrCityCode | Customer delivery building contact phone (Area code) | integer | 10 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/ShipTo/Address/Phone/TelephoneNumber/Number | Customer delivery building contact phone (Number) | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/AddressID | Unique Identifier for the Billing location | nvarchar | 20 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/Name | Customer billing building name | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/PostalAddress/DeliverTo | Customer billing building contact name | nvarchar | 110 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/PostalAddress/Street | Customer billing building address (Street1) | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/PostalAddress/Street | Customer billing building address (Street2) | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/PostalAddress/City | Customer billing building address (City) | nvarchar | 30 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/PostalAddress/State | Customer billing building address (State) | nvarchar | 100 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/PostalAddress/PostalCode | Customer billing building address (Postal Code) | nvarchar | 15 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/PostalAddress/Country | Customer billing building address (Country) | nvarchar | 100 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/Email | Customer billing building contact email | nvarchar | 100 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/Phone/TelephoneNumber/CountryCode | Customer billing building contact phone (Country code). Send fixed value “1”. | integer | 10 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/Phone/TelephoneNumber/AreaOrCityCode | Customer billing building contact phone (Area code) | integer | 10 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/BillTo/Address/Phone/TelephoneNumber/Number | Customer billing building contact phone (Number) | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/Shipping/Money | Purchase Order shipping charge | Decimal | (18,6) | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/OrderRequestHeader/Shipping/Description | Purchase Order shipping description. Send a fixed value “Shipping”. | nvarchar | 20 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/Tax/Money | Purchase Order tax charge | Decimal | (18,6) | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/OrderRequestHeader/Tax/Description | Purchase Order tax description. Send a fixed value “State Tax”. | nvarchar | 20 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/Payment/PCard/Number | Credit card number | nvarchar | 20 | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/OrderRequestHeader/Payment/PCard/Expiration | Credit card expiration date | DateTime | 20 | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/OrderRequestHeader/Payment/PCard/Name | Credit card name | nvarchar | 100 | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/OrderRequestHeader/Comments | User comments or instructions | nvarchar | 500 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/Extrinsic/UserEmail | User's Email Address | nvarchar | 100 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/Extrinsic/UserFirstName | User's First Name | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/OrderRequestHeader/Extrinsic/UserLastName | User's Last Name | nvarchar | 50 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/Quantity | Number of units of item ordered | Integer | 7 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/RequestedDeliveryDate | The date by which order should be delivered | DateTime | 20 | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/ItemOut/ItemID/SupplierPartID | Supplier Item ID | nvarchar | 255 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/ItemID/SupplierPartAuxiliaryID | Supplier generated key that identifies an item uniquely when combined with SupplierPartID | nvarchar | 255 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/ItemDetail/UnitPrice/Money | Price of item per unit | Decimal | (18,6) | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/ItemDetail/Description | Textual description of item | nvarchar | max | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/ItemDetail/UnitOfMeasure | Item’s unit of measure | nvarchar | 32 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/ItemDetail/Classification/Domain | Item’s Classification domain | nvarchar | 255 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/ItemDetail/Classification/Domain | Item’s Classification | nvarchar | 255 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/ItemDetail/ManufacturerPartID | Manufacturer Part Number | nvarchar | 255 | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/ItemOut/ItemDetail/ManufacturerName | Name of Manufacturer | nvarchar | 1000 | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/ItemOut/ItemDetail/Extrinsic/RequisitionID | RequisitionID provided by ESM for the item | integer | 10 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/ItemDetail/Extrinsic/RequisitionItemID | RequisitionItemID provided by ESM for the item | integer | 10 | ICPunchOutOrderRequest | Required |
| Request/OrderRequest/ItemOut/Contact/Name | Desktop Deliver-to person’s name | nvarchar | 50 | ICPunchOutOrderRequest | Optional |
| Request/OrderRequest/ItemOut/Comments | User comments or instructions | nvarchar | 500 | ICPunchOutOrderRequest | Optional |
|  |  |  |  |  |  |
| Response/Status/Code | Response Code to indicate success, Failures, etc | nvarchar | 20 | ICPunchOutOrderResponse | Required |
| Response/Status/Text | Response Text to indicate success, Failures, etc | nvarchar | 20 | ICPunchOutOrderResponse | Required |

Sample XML Transactions – PO Service

Sample Order Request XML

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

<!DOCTYPE cXML SYSTEM "http://xml.cXML.org/schemas/cXML/1.2.023/cXML.dtd">

<cXML payloadID="1233444-200@ariba.acme.com" timestamp="1999-03-12T18:39:09-08:00">

 <Header>

 <From>

 <Credential domain=" NetworkId ">

 <Identity>PPD-123</Identity>

 </Credential>

 </From>

 <To>

 <Credential domain="DUNS">

 <Identity>jk</Identity>

 </Credential>

 </To>

 <Sender>

 <Credential domain=" NetworkId ">

<Identity> PPD-123</Identity>

 <SharedSecret> PPD-345</SharedSecret>

 </Credential>

 <UserAgent> IC Test entity user agent </UserAgent>

 </Sender>

 </Header>

 <Request>

 <OrderRequest>

 <OrderRequestHeader orderID="DO1234" orderDate="1999-03-12T18:41:29-08:00" type="new">

 <Total>

 <Money currency="USD">2.68</Money>

 </Total>

 <ShipTo>

 <Address addressID="123" isoCountryCode="US">

 <Name xml:lang="en">Acme</Name>

 <PostalAddress name="default">

 <DeliverTo>Joe Smith</DeliverTo>

 <Street>123 Anystreet</Street>

 <Street>Some Boulevard</Street>

 <City>Sunnyvale</City>

 <State>CA</State>

 <PostalCode>90489</PostalCode>

 <Country isoCountryCode="US">United States</Country>

 </PostalAddress>

 <Email name="Office">a@a.com</Email>

 <Phone name="Office">

 <TelephoneNumber>

 <CountryCode isoCountryCode="US">1</CountryCode>

 <AreaOrCityCode>201</AreaOrCityCode>

 <Number>456789</Number>

 </TelephoneNumber>

 </Phone>

 </Address>

 </ShipTo>

 <BillTo>

 <Address addressID="123" isoCountryCode="US">

 <Name xml:lang="en">Acme</Name>

 <PostalAddress name="default">

 <Street>123 Anystreet</Street>

 <Street>Some Boulevard</Street>

 <City>Sunnyvale</City>

 <State>CA</State>

 <PostalCode>90489</PostalCode>

 <Country isoCountryCode="US">United States</Country>

 </PostalAddress>

 <Email name="Office">a@a.com</Email>

 <Phone name="Office">

 <TelephoneNumber>

 <CountryCode isoCountryCode="US">1</CountryCode>

 <AreaOrCityCode>201</AreaOrCityCode>

 <Number>456789</Number>

 </TelephoneNumber>

 </Phone>

 </Address>

 </BillTo>

 <Shipping>

 <Money currency="USD">0.19</Money>

 <Description xml:lang="en">Shipping</Description>

 </Shipping>

 <Tax>

 <Money currency="USD">0.19</Money>

 <Description xml:lang="en">State Tax</Description>

 </Tax>

 <Payment>

 <PCard number="1234567890123456" expiration="1999-03-12" name="John Smith"/>

 </Payment>

 <Comments>Anything well formed in XML can go here.</Comments>

 <Extrinsic name="UserEmail">ppd@esmsolutions.com</Extrinsic>

 <Extrinsic name="UserFirstName">Pravin</Extrinsic>

 <Extrinsic name="UserLastName">Pawar</Extrinsic>

 </OrderRequestHeader>

 <ItemOut quantity="2" requestedDeliveryDate="1999-03-12">

 <ItemID>

 <SupplierPartID>1233244</SupplierPartID>

 <SupplierPartAuxiliaryID>supplier cookie to describe configuration options on this item</SupplierPartAuxiliaryID>

 </ItemID>

 <ItemDetail>

 <UnitPrice>

 <Money currency="USD">1.34</Money>

 </UnitPrice>

 <Description xml:lang="en">hello</Description>

 <UnitOfMeasure>EA</UnitOfMeasure>

 <Classification domain="UNSPSC">12345</Classification>

 <ManufacturerPartID>234</ManufacturerPartID>

 <ManufacturerName>foobar</ManufacturerName>

 <Extrinsic name="RequisitionId">12</ Extrinsic >

 <Extrinsic name="RequisitionItemId">132</ Extrinsic >

 </ItemDetail>

 <Contact>

 <Name xml:lang="en">Acme</Name>

 </Contact>

 <Comments>Anything well formed in XML can go here.</Comments>

 </ItemOut>

 <ItemOut quantity="5" requestedDeliveryDate="1999-03-12">

 <ItemID>

 <SupplierPartID>1566</SupplierPartID>

 <SupplierPartAuxiliaryID>supplier cookie to describe configuration options on this item</SupplierPartAuxiliaryID>

 </ItemID>

 <ItemDetail>

 <UnitPrice>

 <Money currency="USD">1.34</Money>

 </UnitPrice>

 <Description xml:lang="en">hello</Description>

 <UnitOfMeasure>EA</UnitOfMeasure>

 <Classification domain="UNSPSC">12345</Classification>

 <ManufacturerPartID>234</ManufacturerPartID>

 <ManufacturerName>foobar</ManufacturerName>

 <Extrinsic name="RequisitionId">12</ Extrinsic >

 <Extrinsic name="RequisitionItemId">135</ Extrinsic >

 </ItemDetail>

 <Contact>

 <Name xml:lang="en">Acme</Name>

 </Contact>

 <Comments>Anything well formed in XML can go here.</Comments>

 </ItemOut>

 </OrderRequest>

 </Request>

</cXML>

Sample Order Acknowledgement XML (successful)

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

<cXML timestamp="2001-10-31T23:07:22-08:00" payloadID="1004598442900-8367273815197467070@10.10.13.100">

 <Response>

 <Status code="201" text="Accepted">Acknowledged</Status>

 </Response>

</cXML>

Sample Order Acknowledgement XML (unsuccessful)

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

<cXML timestamp="2001-10-31T23:07:22-08:00" payloadID="1004598442900-8367273815197467070@10.10.13.100">

 <Response>

 <Status code="401" text="Rejected">Customer Id not recognized</Status>

 </Response>

</cXML>