

Simpl-E Parts Ecommerce
Wbservice Definitions and Requirements Specification
Order Status Webservice (v.1)

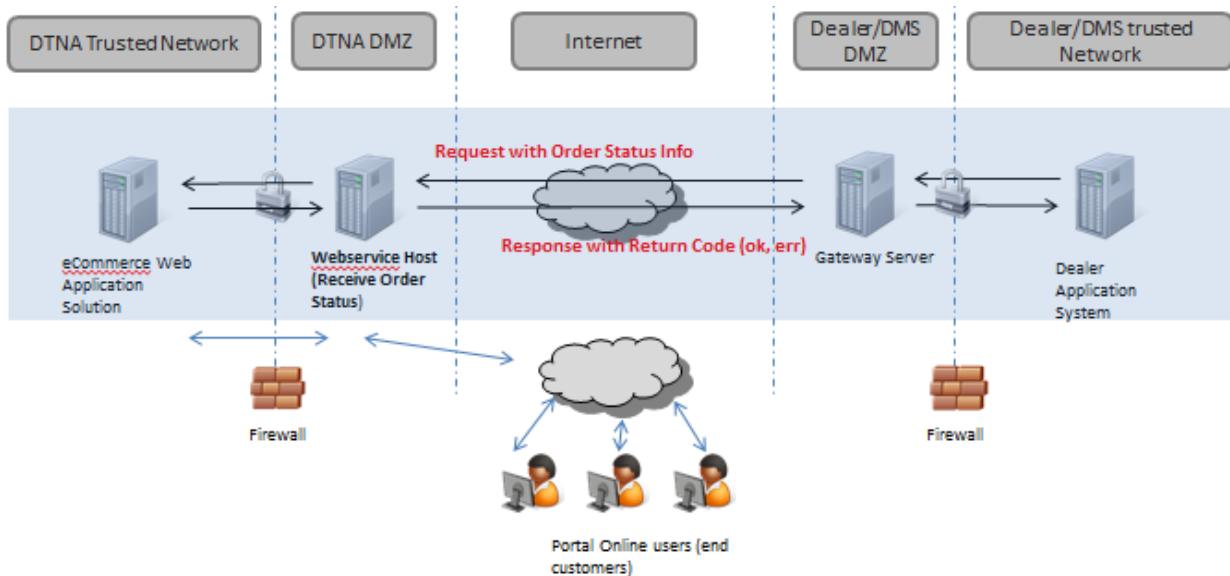
1) Overview

This document is relevant for Participating Dealers / DMS providers that choose to communicate the Order Status updates to DTNA via Web service instead of File. DTNA will provide a Web service for the purpose of updating the status of customer orders posted via the eCommerce Portal.

The Dealer / DMS system may be calling the DTNA Order Status Web Service at any given time it wishes to provide a status update.

The web service is of synchronous nature, handling a request message containing a reference to an Order and the new status info. DTNA system will provide a response message containing a return code status (ok, error).

DTNA will provide a WSDL document for proper service integration. Also password, private keys and other credentials will be exchanged by the IT teams, separate from this document, at a later time.



2) Technical Summary

Calling System	Proprietary Dealer System or DMS provider
Responding System / Hosting System	DTNA, eCom Portal
Type	Synchronous – Request and Response
Expected Response Time	< 2 seconds
Technology	SOAP over SSL, XML based messaging
Webservice Authentication	SOAP embedded User Id and Password will be provided in the service call.
Optional Backend Authentication & Authorization	Optional User Id and Password embedded in the request payload which can be used for authentication and authorization of Dealers / DMS at DTNA backend system.
Error Handling	All application errors to be embedded in the Status node in the response. No SOAP Faults for application errors.

Note:

For your reference a complete WSDL is attached to this package (**MI_IE42_OrderStatus.wsdl**). This is the DTNA side implementation of this web service but you may use it to facilitate your side of the web service implementation by implementing the request and response messages accordingly.

3) Webservice Request Message Definition

The request message will contain two sections

1 – Optional Login & Password for Dealer/DMS Backend system

Login of Dealer / DMS system to gain access to DTNA backend eCom hosting system and will be populated into the payload of each service call.

2 – Order Header

Mandatory node. Maybe send without any items for the purpose of sending a order confirmation.

3 - Items

A collection of item status info. All qty buckets to be filled in to reflect current order item status.

Request Message		Occurance	XSD Type	expected max. content	Description
Level	XML NodeName				
1	Login	Optional(0..1)			Login Credentials
1.1	UserId	Mandatory(1..1)	String	30	Dealer account Login ID (Paragon system)
1.2	UserPswd	Mandatory(1..1)	String	30	Dealer Password
2	Header	Mandatory(1..1)			Header Status
2.1	DealerID	Mandatory(1..1)	String	10	DTNA Dealer Code
2.2	OrdNum	Mandatory(1..1)	String	10	eCom Order Number
2.3	Status	Optional(0..1)	String	1	R=Initial Order was Received by dealer/dms, <space>=item status applies (default)
3	Items	Optional(0..1)			Collection of Order Items
3.1	Item	Mandatory(1..unbounded)			Item Status Info
3.1.1	ItemNum	Mandatory(1..1)	String	6	eCom Order Item Number
3.1.2	BackOrderQty	Mandatory(1..1)	String	15	Current Qty on backorder
3.1.3	OpenQty	Mandatory(1..1)	String	15	Current Qty on hand, available or reserved for this order line item
3.1.4	ShippedQty	Mandatory(1..1)	String	15	Total Quantity shipped but not yet invoiced
3.1.5	CompletedQty	Mandatory(1..1)	String	15	Total Quantity shipped & invoiced
3.1.6	CancelledQty	Mandatory(1..1)	String	15	Total quantity cancelled
3.1.7	CancelStatus	Optional(0..1)	String	1	<space> or empty = n/a (for future development)
3.1.8	QtyUoM	Mandatory(1..1)	String	3	Unit Of Measure for Qty, "EA"=Eaches, same as on the order Unit of Measure, cannot be
3.1.9	ShipmentInfo	Optional(0..1)			Collection of Shipments
3.1.9.1	Shipment	Mandatory(1..unbounded)			Shipment Info
3.1.9.2	OnShipmentQty	Mandatory(1..1)	String	15	Qty that is on the shipment / box
3.1.9.3	Carrier	Optional(0..1)	String	30	Name of the Carrier
3.1.9.4	TrackingNumber	Optional(0..1)	String	20	Shipment Tracking Number
3.1.9.5	ShippingText	Optional(0..1)	String	75	Shipping Comments

4) Webservice Response Message Definition

One Section:

1 – Status Info

Contains information about success, failure or application problems occurred during the execution of the service call at the Dealer / DMS system.

Response Message		Occurrences	XSD Type	expected max. content	Description
Level	XML NodeName				
1	Status	Mandatory (1..1)			Status Information
1.1	RetCo	Mandatory (1..1)	String	2	"0" = Success, "1" = Failed to Post, "2" = Invalid Order Number, "3" = Invalid Dealer ID, "8" = Not Authorized, "99" = Other Item related exceptions as specified in RetMsg
1.2	Messages	Optional(0..1)			Collection of Messages
1.2.1	RetMsg	Optional(0..unbounded)			A Message
1.2.1.1	ItemNum	Mandatory (1..1)	String	6	eCom Order Item Number, '0' for header related message
1.2.1.2	MsgTyp	Mandatory (1..1)	String	1	E = Error (erroneous data and item not posted), W = Warning (erroneous data but
1.2.1.3	Text	Mandatory (1..1)	String	200	Clear text of return message

5) Value Mappings

a) Request Message – OrderStatus->Header->Status

Value	Description
R	Initial Order was Received, Item info not required.
<space>	No Header Status, only item status applies.

b) Request Message – OrderStatus->Item->CancelStatus

Value	Description
<space>	Not applicable – for future use

c) Response Message – Status->RetCo

Value	Description
0	Success
1	Failure occurred
2	Invalid Order Number
8	Not Authorized
99	Other item exceptions as specified in clear text

d) Response Message – Status->MsgTy

Value	Description
E	A significant Error occurred and posting of the line item was not done
W	A Warning type of Error occurred and posting of the line item was done anyway