

# Simpl-E Parts Ecommerce

## Webservice Definitions and Requirements Specification

### Parts Pricing and Availability

## 1) Overview

To support that **real time** Dealer Parts Pricing and Availability information be made available to the Simpl-E Parts eCommerce website, the participating Dealerships / DMS providers shall develop, host and publish a webservice which complies to the specifications of this document.

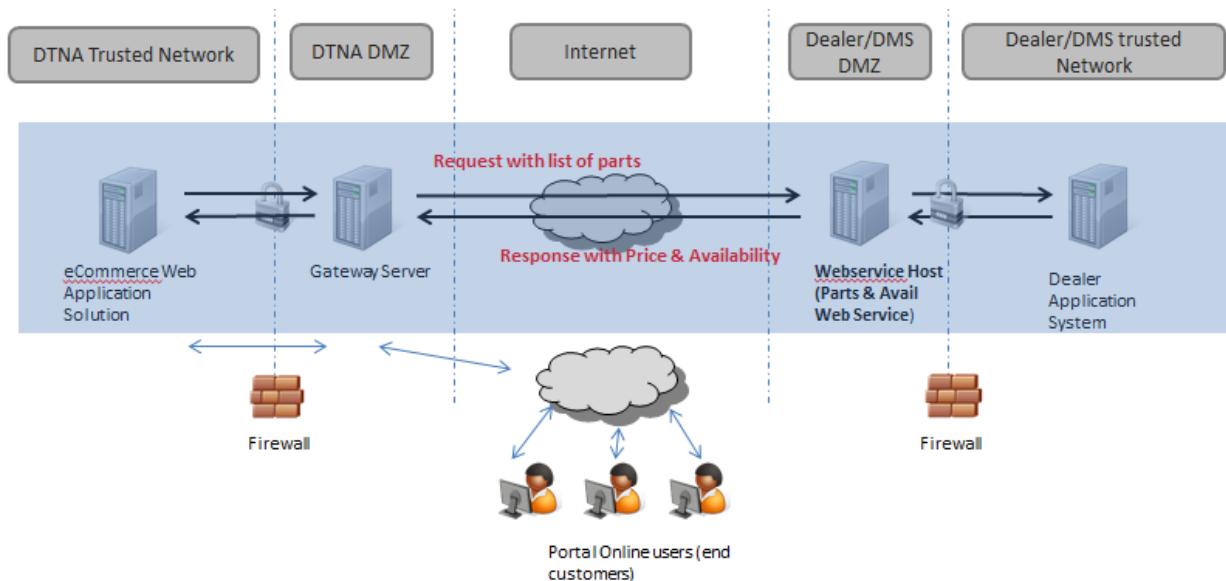
The DTNA system hosting the Simpl-E Parts website may be calling the dealer provided web service at any given time an online user demands pricing and availability information for one or multiple parts.

The web service is of synchronous nature, handling a request message containing a list of part numbers. The dealer system will provide a response message containing the same list of parts, enriched with additional information such as pricing, available quantity and more.

To ensure proper integration with the Simpl-E Parts Hosting System at DTNA, it is critical that the dealer system / DMS implement the web service according to specification. Fieldnames, Structure of XML message etc. should not be changed from the proposed layout. If there is a special need to make a change or adjustment, please contact the IT implementation team at DTNA. Web services not implemented according to this specification may not be able to integrate with Simpl-E Parts eCom website.

### Performance Considerations:

Due to the integrated nature of this web service with the Simpl-E Parts website and in order to provide an enjoyable end user online experience, it is important to keep response times as low as possible.



## 2) Technical Summary

Calling System	DTNA system (Paragon) hosting the Simpl-E Parts Application
Responding System / Hosting System	Proprietary Dealer System or DMS provider
Type	Synchronous – Request and Response
Expected Response Time	< 2 seconds
Technology	SOAP over SSL, XML based messaging
Web service 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 in Dealers / DMS backend system.
Error Handling	All application errors to be embedded in the Status node in the response. No SOAP Faults please.

Note:

For your reference a complete WSDL is attached to this package (**MI\_IE40\_PartPriceAvail.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) Web Service Request Message Definition

The request message will contain two sections

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

They are originally provided by the dealer / DMS provider and will be populated into the payload of each service call. This may be useful if the dealer / DMS system requires additional authentication at his backend system or server.

2 – Parts List

This is an array of lists of parts for which pricing and availability info is requested. One list per dealer code. It is expected that for each part an entry will be response message as well.

Request Message					
Level	XML NodeName	Occurance	XSD Type	content Length	Description
1	Login	Optional(0..1)			Login Credentials
1.1	UserId	Mandatory (1..1)	String	30	Dealer / DMS system to for backend connection.
1.2	UserPswd	Mandatory (1..1)	String	30	DTNA Password as required by Dealer / DMS system.
2	PartList	Mandatory (1..1)			Collection of Parts
2.1	DealerID	Mandatory (1..1)	String	10	DTNA Dealer Code
2.2	CustomerID	Optional (0..1)	String	10	Dealers Customer ID
2.3	Part	Mandatory (1..unbounded)			List of Parts for a dealer
2.3.1	PartNum	Mandatory (1..1)	String	25	Part Number
2.3.2	PartType	Mandatory (1..1)	String	1	"P" = DTNA Part, "D"=Dealer Part

⇒ Find the XSD file for developer's convenience attached in package:

**eCom\_PartsAvailPricing\_DT\_Request.xsd**

## 4) Webservice Response Message Definition

Two sections:

### 1 – Status Info

Contains information about success, failure or application problems occurred during the execution of the service call at the Dealer / DMS system. We expect all errors and exceptions be communicated in this way as part of the response payload. Please no SOAP Fault messages.

### 2 - PartList

This is a collection of part lists populated with the same number or parts as it was send in the request messages. For each part requested, there should be an entry in the response as well. Additional data will be provided according to specification.

Response Message					
Level	XML Node Name	Occurrences	XSD Type	content Length	Description
1	Status	Mandatory (1..1)			<b>Status Information</b>
1.1	RetCo	Mandatory (1..1)	String	2	"0" = Success, "1" = Partial failure, response message shortened, "2" = No Data Found, "8" = Not Authorized, "99" = Other exception as specified in clear text
1.2	RetMsg	Optional(0..1)	String	200	Clear text of return message
2	PartList	Optional (0..1)			<b>Array of Part Lists</b>
2.1	DealerID	Mandatory (1..1)	String	10	DTNA Dealer Code
2.2	CustomerID	Optional (0..1)	String	10	Dealers Customer ID
2.3	Part	Mandatory (1..unbounded)			<b>List of Parts for a dealer</b>
2.3.1	PartNum	Mandatory (1..1)	String	25	Part Number
2.3.2	PartType	Mandatory (1..1)	String	1	"P" = DTNA Part, "D"=Dealer Part
2.3.3	PartDescr	Optional(0..1)	String	40	Part Name - Short Description
2.3.4	AvailQty	Optional(0..1)	Integer		Dealer Available Qty
2.3.5	Unit	Optional(0..1)	String	3	Unit Of Measure for Qty, "EA"=Eaches, etc
2.3.6	NetPrice	Optional(0..1)	Decimal		Dealer Net Price
2.3.7	CoreCharge	Optional(0..1)	Decimal		Dealer Core Charge - Only populate for Reman Parts
2.3.8	Currency	Optional(0..1)	String	3	Currency Code per ISO 4217. "USD" = us dollars (default), "CAD" canadian dollars
2.3.9	MOQ	Optional(0..1)	Integer		Maximum Order Qty in Unit, if not specified, unlimited is assumed
2.3.10	StdPck	Optional(0..1)	Integer		Standard Pack Size in Unit. If not specified, 1 is assumed.
2.3.11	FulFilTy	Optional(0..1)	String	1	not specified or blank = Dealer & PDC sales, "D"=Dealer Only, "N"=Part not eligible for sale, "P"=PDC Only
2.3.12	isValidPart	Optional(0..1)	String	1	<space> = part number found/ok, 'X' = part number invalid/ not found.
2.3.13	PartNum_Super	Optional(0..1)	String	25	Superseding Part Number
2.3.14	PartDescr_Super	Optional(0..1)	String	40	Superseding Part Description

⇒ Find the XSD file for developer's convenience attached in package:

**eCom\_PartsAvailPricing\_DT\_Response.xsd**

## 5) Value Mappings

### a) Request Message – Part Type

Value	Description
P	DTNA Part
D	Dealer Part

### b) Response Message – RetCo

Value	Description
0	Success
1	Partial Failure – response message incomplete
2	No Data Found
8	Not Authorized
99	Other as specified in clear text

### c) Response Message – Part Type

Value	Description
P	DTNA Part
D	Dealer Part

## d) Response Message – ‘Unit’

Following are the allowed values for node ‘Unit’ on the response message.

Base Unit of Measure	Descr
EA	Eaches
PAA	Pair
FT	Feet
PAC	Pack
ROL	Role
GAL	US gallon
L	Liter
BOX	Box
LB	US pound
BT	Bottle
M	Meter
KG	Kilogram
YD	Yard
PL	Pail
QT	Quart, US liquid
TB	Tube
"	Inch
BAG	Bag
JG	Jug
DR	Drum
FT2	Square foot
PT	Pint, US liquid
YD2	Square Yard
TTE	Tote
MM	Millimeter
KEG	Keg
FOZ	Fluid Ounce US
OZ	Ounce
KIT	Kit
PAL	Pallet
G	Gram

## e) Response Message – Curr

Value	Description
USD	US Dollars
CAD	Canadian Dollars

## f) Response Message – FulFillTy

Value	Description
<blank>	Dealer & PDC sales
D	Dealer Only sales
N	Part not eligible for sale
P	PDC Only

## g) Response Message – isInvalidPart

Value	Description
<blank>	Valid Part
'X'	Invalid Part / not found

## h) Superseding Part Number – PartNum\_Super

In case there is a superseded part for the requested part number, you may populate its part number here.

## i) Superseding Part Description – PartDescr\_Super

In case there is a superseded part for the requested part number (see h), populate its description here.