

PROMOTIONAL PRODUCTS DATA INTERFACE SPECIFICATION FOR WEB SERVICES



Order Shipment Notification 2.1.0

Document Change Log

Version	Date	Reason for Change	Authors
2.0.0	2021-01-22	Version 2.0.0 Final	Stephen Luisser - Essent Corporation
2.1.0	2023-07-03	Version 2.1.0 Initial – Adding support to send ship notifications	Erica Griffitt – Staples

Contributors

The following have contributed to the creation of this specification:

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Abstract and Recommended Audience

This document describes the technologies for integration of suppliers and distributors in the Promotional Products Industry. This document will discuss in detail the technology required to build the interface.

This document will assume that the reader is fluent in web-based technologies, and has knowledge of the language they plan to consume the web service in.

Background Information

All specifications use the Simple Object Access Protocol (SOAP) over HTTPS as the foundation for the web services protocol stack to provide a standard secure form of communication.

For more information on SOAP, visit <http://www.w3.org/TR/soap12-part1/>.

Service Details

Function: getOrderShipmentNotification()

This function provides a mechanism to get shipment details by specific parameters like (purchase order number, sales order number, or shipment date). This allows the consumer of the service to obtain shipment information grouped by purchase order number and sales order number for their needs.

Request: GetOrderShipmentNotificationRequest

Field	Description	Data Type	Required
wsVersion	The Standard Version of the Web Service. Acceptable value 2.1.0.	64 String	True
id	The customerId or any other agreed upon Id	64 String	True
password	The password associated with the customerId	64 String	False
queryType	The type of query you wish to perform	Facet Integer	True
referenceNumber	The purchase order number for queryType =1 or the sales order number for queryType = 2	64 String	False
shipmentDateTimestamp	The date for shipments to return in ISO 8601. This value is not in UTC and should not include a time component. It is up to the requesting party to determine if the date should be adjusted if the publishing party is on the other side of the international date line so that shipments are not missed. Required when queryType is 3.	Date	False

GetOrderShipmentNotificationRequest queryType

queryType	Short Name	Description
1	PO Number Search	Returns all shipments for the Purchase Order
2	SO Number Search	Returns all shipments for the Sales Order
3	Shipment Date Search	Returns all shipments with a shipment date specified by the shipmentDateTimeStamp

Reply: GetOrderShipmentNotificationResponse

Field	Description	Data Type	Required
OrderShipmentNotificationArray	An array of Order Shipment Notification objects	Array	False
ServiceMessageArray	An array of ServiceMessage objects	Array	False

OrderShipmentNotification Object

Field	Description	Data Type	Required
purchaseOrderNumber	The associated purchase order	64 String	True
purchaseOrderShippedInFull	All shipments for this purchase order are complete	Boolean	True
SalesOrderArray	An array of Sales Order objects associated with the purchase order	Array	True

SalesOrder Object

Field	Description	Data Type	Required
salesOrderNumber	The associated sales order	64 String	True
salesOrderShippedInFull	All shipments for this sales order are complete	Boolean	True
ShipmentArray	An array of Shipment objects	Array	True

Function: sendAdvanceShipmentNotification()

This function provides a mechanism to send order shipment details to a partner for shipments originating from the supplier or on behalf of a supplier to a third-party. This transaction can be Supplier to Decorator, Supplier to Distributor, and/or Distributor to Decorator. Providing an endpoint for this function requires that the receiving system be able to accommodate potential duplicate notifications originating from more than one partner.

Request: SendAdvanceShipmentNotificationRequest

Field	Description	Data Type	Required
wsVersion	The Standard Version of the Web Service. Acceptable value 2.1.0.	64 String	True
id	The customer Id or any other agreed upon Id for the purpose of security validation	64 String	True
password	The password associated with the customer Id	64 String	False
customerIdentifier	An agreed upon identifier for the line of business or client associated with this transaction. When sending a ship notification on behalf of a distributor, this identifier may be necessary for the receiver to identify the shipment order data.	64 String	False
AdvanceShipmentNotification	The details of the shipment(s) for a single purchase order	Object	True

Reply: SendAdvanceShipmentNotificationResponse

Field	Description	Data Type	Required
transactionId	The transaction identifier in response indicating a successful transfer of a schematically valid Shipment Notification payload. It can also be used for IT departments to help with diagnostics and technical support. If no transaction identifier is returned, a populated ServiceMessage object must be returned indicating the reason for the failure.	String	False
ServiceMessageArray	An array of ServiceMessage objects	Array	False

Function: getServiceMethods()

Get a list of methods that the supplier has implemented for this service.

- getOrderShipmentNotification - Get ship notifications by query type
- sendAdvanceShipmentNotification - Send OR Receive ship notification for a PO

Request: GetServiceMethodsRequest

Field	Description	Data Type	Required
wsVersion	The Standard Version of the Web Service. Acceptable value 2.1.0.	64 String	True
id	The customerId or any other agreed upon Id	64 String	True
password	The password associated with the customerId	64 String	False

Reply: GetServiceMethodsResponse

Field	Description	Data Type	Required
ServiceMethodArray	An array of serviceMethod strings. Acceptable values are enumerated based on functions within this service but are not enforced by the WSDL.	Array	False
ServiceMessageArray	An array of ServiceMessage objects	Array	False

Common Objects

AdvanceShipmentNotification Object

Field	Description	Data Type	Required
purchaseOrderNumber	The associated purchase order	64 String	True
purchaseOrderShippedInFull	All shipments for this purchase order are complete	Boolean	True
ShipmentArray	An array of Shipment objects associated with the purchase order	Array	True

Shipment Object

Field	Description	Data Type	Required
destinationShippedInFull	All shipments for this shipping destination location are complete	Boolean	True
customerPickup	The shipment will be a pickup and will not be shipped. Default to false if pickup cannot be determined	Boolean	True
shipFromAddress	Ship-From address as defined by ShippingContactDetails object type	Object	True
shipToAddress	Ship-To address as defined by ShippingContactDetails object type	Object	True
shipmentDestinationType	Used to identify the type of destination for the Ship-To address	Facet 64 String	False
PackageArray	An array of Package objects	Array	True

ShippingContactDetails Object

Field	Description	Data Type	Required
attentionTo	Attention To (first and last name of contact)	35 String	False
companyName	Company Name	35 String	False
address1	Address line 1	35 String	True
address2	Address line 2	35 String	False
address3	Address line 3	35 String	False
city	The city	30 String	True
region	The 2-character US state abbreviation or 2-3 character non-US region	3 String	True
postalCode	The postal code	10 String	True
country	The country in ISO 3166-2 format	2 String	False
email	Email address associated with the contact	128 String	False
phone	The phone number associated with the contact	32 String	False

Package Object

Field	Description	Data Type	Required
id	The id of the package	Integer	False
trackingNumber	The tracking number for the package. Guidance is to always provide a tracking number if available	128 String	False
shipmentDate	The date for the shipment in UTC. ISO 8601	ISO 8601	True
Dimension	Physical dimensions and weight. Include this object if you have either a size or weight dimension	Object	False
FreightDetails	The details on the freight: carrier and service	Object	False
shippingAccount	The shipping account used for this shipment	128 String	False
shipmentTerms	The terms of the shipment (i.e., Prepaid, Collect, Third Party, PPD., etc.)	128 String	False
ItemArray	A list of items and quantities contained in the package	Array	False
preProductionProof	Signifies if the order is a pre-production proof. Valid options: "Yes," "No", "Unknown"	Facet 64 String	True

shipReferences	List of reference data for the shipment or package. Up to 4 references allowed This element should include the reference data on the shipping label to allow the receiver to match the shipment to the PO number for the ship notification.	64 String	False
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Dimension Object

Field	Description	Data Type	Required
DimensionSize	Physical dimensions. Include only if you have at least one physical dimension	Object	False
DimensionWeight	Weight	Object	False

DimensionSize Object

Field	Description	Data Type	Required
dimensionUom	The dimensional unit of measure	Facet 2 String	True
length	The length of the part using the unit of measure specified in dimensionUom	Decimal	False
width	The width of the part using the unit of measure specified in dimensionUom	Decimal	False
height	The height of the part using the unit of measure specified in dimensionUom	Decimal	False

DimensionWeight Object

Field	Description	Data Type	Required
weightUom	The weight unit of measure for the part	Facet 2 String	True
weight	The weight of the part using the unit of measure specified in dimensionUom	Decimal	True

FreightDetails Object

Field	Description	Data Type	Required
carrier	The carrier name of the requested shipping vendor. (i.e. "UPS", "FEDEX", etc.)	64 String	True
service	The service code of the shipping vendor for the requested service. (i.e., GROUND, 2DAY, NEXTDAY, etc.)	64 String	True

Item Object

Field	Description	Data Type	Required
supplierProductId	The supplier product Id	64 String	True
supplierPartId	The supplier part Id associated to the supplier product Id	64 String	False
distributorProductId	The distributor product Id	64 String	False
distributorPartId	The distributor part Id associated to the supplier product Id	64 String	False
purchaseOrderLineNumber	The line number of the item on the purchase order	Integer	False
quantity	The quantity of the item shipped	Object	True

Quantity Object

Field	Description	Data Type	Required
value	The quantity value	Decimal	True
uom	The unit of measure for the value	Facet 2 String	True

Guidance

This service supports two-way communication as of v2.1. The original getOrderShipmentNotification function allows the consumer to determine when and how to retrieve shipment data. The sendAdvanceShipmentNotification function allows a supplier or distributor to push a shipment notification to a consumer who has an endpoint for receiving shipment notification messages.

If you are unable to determine the quantity of items shipped by tracking number for a shipment due to process or system limitations, PromoStandards guidance is to attach all products and quantities to a single tracking number and leave the other tracking numbers without products or quantities.

Some enumerations are strictly enforced by the xsd, others may be soft enumerations that have been agreed upon by the Standards Committee. All are detailed within this document.

Enumerated Type Restrictions (Facet)

Field	Description	Data Type	Enumeration Values
dimUOM	The dimensional unit of measure	Facet 64 String	Inches Feet mm cm Meters
preProductionProofType	Identifies if the item is a pre-production proof	Facet 64 String	Yes No Unknown
quantityUOM	The unit of measure for quantity-based field	Facet 2 String	BX (Box) CA (Case) DZ (Dozen) EA (Each) KT (Kit) PK (Package) PR (Pair) RL (Roll) SL (Sleeve) ST (Set) TH (Thousand)
serviceMessageSeverity	The severity of the message.	Facet 64 String	Error Information Warning
shipmentDestinationType	The type of shipment destination	Facet 64 String	Commercial Residential Other
weightUOM	The weight unit of measure	Facet 64 String	Ounces Pounds Grams kg

Appendix A: Service Messages

ServiceMessage Object

Field	Description	Data Type	Required
code	The numerical value of the code	Integer	True
description	Response for any message requiring notification to requestor	256 String	True
severity	The severity of the message. Values are enumerated: {Error, Information, Warning}	Facet	True

Standardized Codes

The range of codes between 100-199 and 999 are reserved for standardized codes that apply across the suite of PromoStandards services. Use codes between 200-299 for service messages that are not covered by the codes listed below.

Code	Description
100	ID (customerId) not found
104	This account is unauthorized to use this service. Please contact the service provider
105	Authentication Credentials failed
110	Authentication Credentials required
115	wsVersion not found
120	The following field(s) are required [Comma Delimited field names]
125	Not Supported: [details]
130	No data found
999	General Error – Contact the System Service Provider [details]

Service Specific Codes

These error codes are only for this service.

Code	Description
300	queryType not found
301	referenceNumber not found
302	shipmentDateTimeStamp is incorrect or is an invalid date range

DATA MINING / ABUSE GUIDELINE

The use of services detailed within this specification are to be conducted within the current guidelines of the "Interface Data Use Guidelines Standards".

VALIDATION OF SERVICES

Before you publish your endpoint, please ensure that it adheres to the promostandards.org spec by using the web service validation tool located on under the Resources menu at <https://promostandards.org>.

Select the service, version, method and input your endpoint. If the endpoint is correct, you should receive a message of: "The XML response is valid."