

Oracle® Retail Order Orchestration Cloud Service Vendor Integration Guide



Release 23.2.301.0

F80948-02

July 2023

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Preface

Oracle Retail Order Orchestration Cloud Service includes the following modules:

- Routing Engine: Distributed order broker that determines inventory availability across the enterprise, and uses advanced business rules to select locations that can fulfill orders.
- Supplier Direct Fulfillment: Web-based vendor portal enabling vendors to share purchase orders and shipping information to simplify drop shipment.
- Store Connect: Web portal that enables store associates to process and fulfill omni-channel orders.

Overview

This guide outlines the information an integrated vendor needs to know about the web services supporting the integration with Supplier Direct Fulfillment.

We welcome your comments and suggestions to improve the content. Please send us your feedback at retail-doc_us@oracle.com.

Audience

This document is intended for the users and administrators of the Oracle Retail Order Orchestration Cloud Service.

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Oracle Retail Cloud Services and Business Agility

Oracle Retail Order Orchestration Cloud Service is hosted in the Oracle Cloud with the security features inherent to Oracle technology and a robust data center classification, providing significant uptime. The Oracle Cloud team is responsible for installing, monitoring, patching, and upgrading retail software.

Included in the service is continuous technical support, access to software feature enhancements, hardware upgrades, and disaster recovery. The Cloud Service model helps to free customer IT resources from the need to perform these tasks, giving retailers greater business agility to respond to changing technologies and to perform more value-added tasks focused on business processes and innovation.

Oracle Retail Software Cloud Service is acquired exclusively through a subscription service (SaaS) model. This shifts funding from a capital investment in software to an operational expense. Subscription-based pricing for retail applications offers flexibility and cost effectiveness.

1

Vendor Integration Overview

Overview: A vendor can receive and confirm shipment of drop ship purchase orders by:

- using the screens in the Vendor Portal for all activities, or
- using the vendor integration between Oracle Retail Order Orchestration and the vendor's system.

A vendor can also use a combination of these options; for example, the vendor can receive purchase orders through the vendor integration, and also use the Vendor Portal screens to confirm shipments and update purchase orders.

Included in the vendor integration: The vendor integration includes:

- sending batches of new purchase orders to the vendor's system when the vendor's system requests them
- enabling the vendor's system to acknowledge receipt of a batch of purchase orders
- confirming shipments of purchase orders, including the carrier (ship via) used, tracking number, weight, shipment date, and freight charges

Not included in the vendor integration: The vendor integration does not include:

- modifying purchase orders, such as changing expected ship dates or putting a line on hold
- accepting or rejecting address changes or cancellation requests from the retailer
- receiving cost changes from the retailer
- generating invoices and submitting them to the retailer

Each of these options is available in the Vendor Portal if the vendor user has authority.

Mapping to the vendor's system: The vendor can use the messages described in this guide to map to the vendor's system, or contact an Oracle representative for information on creating unique maps.

JSON messages: The vendor integration uses the JSON (JavaScript Object Notation) format for its messages. See the messages in this guide for examples.

Process Overview

The typical vendor integration process:

- **Creation:** Purchase orders are created in Oracle Retail Order Orchestration (the status is **New Order** and no batch numbers are assigned yet).
- **Get Purchase Orders:**
 - The vendor system requests new orders with the [getDSOrders Request Message](#) to Oracle Retail Order Orchestration.
 - The [getDSOrders Response Message](#) from Oracle Retail Order Orchestration includes the new purchase orders. At this time:

- * a batch number is assigned to the purchase orders included in the response
- * the pack slip PDF, pack slip CSV, and pullsheet are generated, if specified for the vendor.
- **Acknowledgement Required?**
 - **Not required:** If the vendor is not configured to require an acknowledgment, the status of the purchase orders in the response message changes automatically to **In Process**.
 - **Required:** Otherwise, if the vendor is configured to require acknowledgment, the status of the purchase orders remains **New Order** until the vendor system acknowledges receipt of the batch:
 - * The vendor's system sends the [setDSAcknowledge Request Message](#) to Oracle Retail Order Orchestration, specifying the batch received.
 - * Oracle Retail Order Orchestration sends the [setDSAcknowledge Response Message](#). At this time, the status of the purchase orders changes to **In Process**.

 **Note:**

If acknowledgment is required and has not yet been received, the purchase orders are not included in the summary table at the Get Purchase Orders screen. Also, if an address change or cancellation request arrives during this interval, the change or cancellation applies automatically.

- **Confirm shipment:** Optionally, as an alternative to using the shipment screens available in the Vendor Portal:
 - Use the [setDSShipConfirm Request Message](#) to Oracle Retail Order Orchestration to specify the purchase order, line number(s), and quantity shipped for each line, including the carrier used, tracking number, shipment date, weight, and meter charges.
 - Oracle Retail Order Orchestration sends the [setDSShipConfirm Response Message](#).

Required Information and Setup

- [Required Information](#)
- [Integrated Vendor Configuration](#)
- [Logging](#)

Required Information

Information required for the integration and used in the messages includes:

- **vendor code** (`vendorCd`): The code, rather than the name, of the integrated vendor. Included in all requests to Oracle Retail Order Orchestration. Displayed at the Vendors screen in Oracle Retail Order Orchestration and at the Vendor Configuration screen in the Vendor Portal.

- **carrier code** (`carrierCd`): The code, rather than the name, of the carrier shipping a purchase order. Displayed at the **Carriers** screen in Oracle Retail Order Orchestration and at the **Carriers** tab of the **Vendor Configuration** screen in the Vendor Portal.
- **destination**: The name of the Oracle Retail Order Orchestration database. Must match the *Account* value specified at the **Tenant - Admin** screen; however, not case-sensitive. Normally set to `locate`.
- **version**: Must be 4.5 or higher.
- **default vendor system** (`vendorSystemCd`): the code identifying the default vendor system for the organization (the *Vendor Default* flag is selected at the System screen in Oracle Retail Order Orchestration). **Note**: Not the code identifying the system that originates the drop ship orders.

For more information: See:

- **Setting Up Data for the Supplier Direct Fulfillment Module** in the Oracle Retail Order Orchestration online help
- **Additional Configuration Options** in the **Oracle Retail Order Orchestration Web Services Guide**

Integrated Vendor Configuration

In addition to the steps described under **Setting Up Data for the Supplier Direct Fulfillment Module** in the Oracle Retail Order Orchestration online help:

- **Oracle Retail Order Orchestration**: When logged into Oracle Retail Order Orchestration as a retailer user, use the **Create Vendor** or **Edit Vendor** screen, **Preferences** tab:
 - **Integration** folder:
 - * Select **Enable Integration** to display the **Get Purchase Orders** screen rather than the **Select Purchase Orders** screen in the Vendor Portal
 - * Select **Require Acknowledgement** if the vendor needs to send the `setDSAcknowledge` request message for each batch of purchase orders
 - * Select the **Vendor Client Id** to use when authenticating inbound messages through OAuth. Only client IDs that have been assigned *Vendor* web service access and have not been assigned to another vendor are available for selection. Note that before you can select the **Vendor Client Id** for the vendor, it needs to be created and assigned the *Vendor* web service access. See **Web service authentication configuration**, below, for more information on OAuth configuration and authentication for integrated vendors.
 - **Pack Slip** folder:
 - * Use the *Generate Format* setting to specify whether to generate PDF pack slip, pack slip CSV, or both (**Note**: This setting is used only if the PDF Form Type setting is not set to **None**).
 - * Use the *PDF Form Type* setting to specify whether to generate the pack slip PDF in graphical format, non-graphical format, or not to generate the PDF pack slip.
 - * Use the *Print Batch Pullsheet* setting to specify whether to generate a PDF batch pullsheet along with the pack slip or pack slip CSV.
 - **Invoices** folder: Use these settings to control access to invoice generation options through the Vendor Portal screens. See the Oracle Retail Order Orchestration online help for more information.

- **Emails folder:** Use these settings to control when to generate email notifications to the vendor and the email address(es) to use. See the Oracle Retail Order Orchestration online help for more information.
- **Configuration options in the Vendor Portal:** Optionally, when logged into the Vendor Portal as a vendor user, use the **Vendor Configuration** screen, **Preferences** tab:
 - **Pack Slip folder**
 - * Use the *Generate Format* setting to specify whether to generate PDF pack slip, pack slip CSV, or both (**Note:** This setting is used only if the *PDF Form Type* setting is not set to **None**).
 - * Use the *PDF Form Type* setting to specify whether to generate the pack slip PDF in graphical format, non-graphical format, or not to generate the PDF pack slip.
 - * Use the *Print Batch Pullsheet* setting to specify whether to generate a PDF batch pullsheet along with the pack slip or pack slip CSV.
 - **Emails folder:** Use these settings to control when to generate email notifications to the vendor and the email address(es) to use.

For more information: See the Oracle Retail Order Orchestration online help (**New Vendor** or **Edit Vendor** screens) or the Vendor Portal online help (**Vendor Configuration screen**).

Web service authentication configuration: OAuth web service authentication is required to authenticate the `getDSOrders`, `setDSAcknowledge`, and `setDSConfirm` messages from an integrated vendor.

For each integrated vendor, generate a new vendor-specific IDCS or OCI IAM client ID through the Manage External Application Access screen, with the **Application Type** set to External. Then assign the Vendor web service access to each vendor client ID. You can assign this access through the Manage External Application screen. You can then assign the client ID to a single vendor, as described above.

About OAuth: With OAuth, each web service request must contain an OAuth "bearer" token in the Authorization header. The vendor-specific client ID and secret are used to request a token from IDCS (Oracle Identity Cloud Service) or OCI IAM (Oracle Cloud Infrastructure Identity and Access Management). The customer-specific IDCS or OCI IAM URL, in the format of `http://idcs-DOMAIN.com/oauth2/v1/token`, is used to get the token.

If authentication fails, Order Orchestration returns error code 3003: Invalid vendor code.

Logging

If the *Vendor Portal Request/Response* field at the **Event Logging** screen is set to Everything or Errors, Oracle Retail Order Orchestration logs the JSON messages.

All personally identifiable information for customers, vendors, or locations is removed in log files. Personally identifiable information includes names, address, email addresses, phone numbers, customer numbers, and tender accounts.

The personally identifiable information is replaced in the log with the text `*** Removed by Logger ***`. For example, the email address might appear in the log file as `<email>*** Removed by Logger ***</email>`.

2

getDSOrders Request Message

Overview: Use the getDSOrders request message to request new purchase orders for fulfillment.

Limit batch size?: The getDSOrders request message can use the `batchSize` value to specify a maximum number of purchase orders to include in the response message if the `criteriaType` is "item" or "all PO". If the `criteriaType` is "PO", then the response includes only the specific purchase order.

Endpoint and resource:

The endpoint for this message is `https://<SERVER>:<PORT>`, where `<SERVER>` is the name of the server and `<PORT>` is the port.

The resource for this message is `/Locate/adws/DSOrders/getDSOrders`.

In this chapter:

- [Sample getDSOrder Request Message](#)
- [getDSOrders Request Message Contents](#)

For more information: See:

- [Vendor Integration Overview](#) for background.
- [getDSOrders Response Message](#) for information on the response message generated to the getDSOrder request message and the causes of possible errors.

Sample getDSOrder Request Message

All purchase orders: The following sample requests all new purchase orders assigned for fulfillment.

```

{
  "messageHeader": {
    "datetime": "2013-09-25T13:42:12",
    "version": "4.5",
    "source": "ABCDE",
    "destination": "locate"
  },
  "vendorCd": "10",
  "vendorSystemCd": "vendor",
  "batchSize": 10,
  "messageCriteria": [
    {
      "criteriaType": "item",
      "criteriaValue": "ABC1234"
    }
  ]
}

```

getDSOrders Request Message Contents

Message Element or Attribute	Alpha/Numeric	Description
messageHeader		
Example:		
<pre> "messageHeader": { "datetime": "2013-09-25T13:42:12", "version": "4.5", "source": "ABCDE", "destination": "locate" } </pre>		
datetime	datetime	Standard datetime format (YYYY-MMDDTHH: MM:SS, or 2013-09-25T07:32:01). Required, and must be formatted correctly; should not include the offset from Greenwich Mean Time (for example, pass 2013-09-25T03:02:47.118 rather than 2013-09-25T03:02:47.118-05:00.
version	alphanumeric	Indicates the current version of Oracle Retail Order Orchestration. Must be set to 4.5 or higher. Required.
source	alphanumeric	The external system originating the request. Required.

Message Element or Attribute	Alpha/Numeric	Description
destination	alphanumeric	The name of the Oracle Retail Order Orchestration database. Must match the Account value specified at the Tenant - Admin screen; however, not case-sensitive. Normally set to locate.

Identifying Information Example:

```
"vendorCd": "10",
  "vendorSystemCd": "vendor",
  "batchSize": 10,
  "messageCriteria": [
```

vendorCd	alphanumeric	A code identifying the vendor to fulfill the purchase order. Required.
vendorSystemCd	alphanumeric	A code identifying the default vendor system for the organization (not the system originating the purchase orders). Required.
batchSize	numeric	The maximum number of purchase orders to include in the response. The batchSize is used only when the criteriaType is All PO or item. Also, the number of purchase orders returned does not exceed the threshold defined in the CTL_APP_CONFIG database table, regardless of the batchSize specified; this threshold is set to 500 by default.

Criteria Example:

```
"messageCriteria": [
  {
    "criteriaType": "item",
    "criteriaValue": "ABC1234"
  }
]
```

Message Element or Attribute	Alpha/Numeric	Description
criteriaType	alphanumeric	<p>Controls how to select the purchase orders to include in the response. Possible types:</p> <ul style="list-style-type: none">• All PO: include all eligible purchase orders. Only new purchase orders that have not yet been assigned a batch number are eligible.• item: include purchase orders that include the specified item on a purchase order line. Only new purchase orders that have not yet been assigned a batch number are eligible.• PO: include the specified purchase order. Only the specified purchase order is eligible, and only if it has not yet been assigned a batch number.• batch: Include all purchase orders assigned to the specified batch. You can request the same batch multiple times, and the purchase orders in the batch are returned in the response regardless of their current status.
criteriaValue	alphanumeric	<p>The value that the purchase orders returned in the response need to match. If the criteriaType is:</p> <ul style="list-style-type: none">• All PO: The criteriaValue is not used.• item: The criteriaValue needs to specify a vendor item code for the vendor to have the response include eligible purchase orders (new order status, no batch number assigned) that include that item. Not case-sensitive.• PO: The criteriaValue needs to specify a single eligible purchase order (new order status, no batch number assigned) for the vendor.• batch: The criteriaValue needs to specify a batch for the vendor. The batch does not need to be in new order status.

3

getDSOrders Response Message

Overview: Use the getDSOrders response message to receive one or more new drop ship purchase orders based on the criteria specified in the getDSOrders request message.

Maximum number of orders? The retailer specifies the maximum number of orders to include in a single getDSOrders response message. This maximum is typically set to 500.

In this Chapter:

- [Sample getDSOrders Response Message](#)
- [Troubleshooting the getDSOrders Response](#)
- [getDSOrders Response Message Contents](#)

For more information: See:

- [Vendor Integration Overview](#)
- [getDSOrders Request Message](#) for information on the request message that generates the getDSOrders Response.

Sample getDSOrders Response Message

The following sample includes information on a drop ship purchase order for fulfillment.

```
{
  "poHeader": [ {
    "requestID": 66665,
    "type": "DROPSHIP",
    "poNo": "662",
    "buyerCd": "BUY",
    "poEnteredDate": "2013-09-27T00:00:00.000",
    "discountPercentage": 0,
    "discountAmount": 0,0
    "shippingInstructions": "DRP SHP ORD#000123456",
    "retailerCurrencyCd": "USA",
    "vendorCurrencyCd": "USA",
    "currencyConversionRate": 1,
    "brandName": "BRAND",
    "brandCd": "456",
    "createdDate": "Sep 27, 2013 9:21:26 AM",
    "salesOrder": {
      "orderID": "12433-001",
      "freightAmount": 2.2,
      "orderAdditionalFreightCharges": 0,
      "orderAdditionalCharges": 0,
      "gift": "N",
      "shipComplete": "N",
      "balanceDue": 0,
      "soldTo": {
```

```
"customerNo": "144",
"companyName": "SAMPLE COMPANY",
"prefix": "MR.",
"first": "FIRST",
"middle": "Q",
"last": "LAST",
"suffix": "ESQ",
"apt": "APT",
"address1": "257 SAMPLE STREET",
"address2": "SECOND ADDRESS LINE",
"address3": "THIRD ADDRESS LINE",
"address4": "FOURTH ADDRESS LINE",
"city": "WORCESTER",
"province": "MA",
"postal": "01602",
"country": "USA",
"email": "jasample@example.com",
"dayPhone": "(508) 555-0100",
"eveningPhone": "(508) 555-0101"
},

"shipTo": {
  "attention": "",
  "companyName": "SAMPLE COMPANY",
  "prefix": "MR.",
  "first": "FIRST",
  "middle": "Q",
  "last": "LAST",
  "suffix": "ESQ",
  "apt": "APT",
  "address1": "257 SAMPLE STREET",
  "address2": "SECOND ADDRESS LINE",
  "address3": "THIRD ADDRESS LINE",
  "address4": "FOURTH ADDRESS LINE",
  "city": "WORCESTER",
  "province": "MA",
  "postal": "01602",
  "country": "USA",
  "email": "jasample@example.com",
  "dayPhone": "(508) 555-0100",
  "eveningPhone": "(508) 555-0101"
},
"orderMessages": {},
"giftMessages": {},
"payments": [
  {
    "tenderDescription": "MASTERCARD",
    "tenderAmount": 0,
    "tenderAccount": ""
  }
]
},
```



```

    "poDetail": [
      {
        "poId": 0,
        "poLineNo": 1,
        "vendorItemID": "VENDOR ITEM",
        "vendorItemDescription": "VENDOR ITEM DESC",
        "itemUPCCd": "",
        "itemEANCd": "",
        "poUnitPrice": 0.25,
        "poUOMCd": "EA",
        "vendorUOMCd": "EA",
        "poQtyOrdered": 2,
        "vendorOrderedQty": 2,
        "vendorUnitPrice": 0.25,
        "carrierCd": "4",
        "carrierName": "Auto Created 4",
        "poLineDueDate": "2013-10-01T00:00:00.000",

        "poLineCancelAfterDate": "",

      }
    ],
    "orderDetail": {
      "salesOrderItemID": "ITEM",
      "salesOrderItemDescription": "ITEM DESCRIPTION",
      "salesOrderQtyOrdered": 2,
      "salesOrderUnitPrice": 1,
      "orderExtendedFreight": 0,
      "orderLineCustomizationCharge": 0,
      "orderLineEntryDate": "2013-09-27T09:21:26.470",
      "orderLineGiftWrap": "N",
      "orderLineShipAlone": " ",
      "orderLineTax": [
        {
          "taxDescription": "GST",
          "taxAmount": 0
        },
        {
          "taxDescription": "PST",
          "taxAmount": 0
        },
        {
          "taxDescription": "Tax",
          "taxAmount": 0.13
        }
      ],
      "customizationMessage": []
    }
  },
  {
    {

```

```

"poId": 0,
"poLineNo": 2,
"vendorItemID": "VENDORITEM2",
"vendorItemDescription": "VENDOR ITEM DESCRIPTION",
"itemUPCCd": "",
"itemEANCd": "",
"poUnitPrice": 1,
"poUOMCd": "EA",
"vendorUOMCd": "EA",
"poQtyOrdered": 2,
"vendorOrderedQty": 2,
"vendorUnitPrice": 1,
"carrierCd": "4",
"carrierName": "Auto Created 4",
"poLineDueDate": "2013-10-01T00:00:00.000",
"poLineCancelAfterDate": "",
"orderDetail": {
  "salesOrderItemID": "ITEM",
  "salesOrderItemDescription": "ITEM DESCRIPTION",
  "salesOrderQtyOrdered": 2,
  "salesOrderUnitPrice": 10,
  "orderExtendedFreight": 0,
  "orderLineCustomizationCharge": 0,
  "orderLineEntryDate": "2013-09-27T09:21:26.500",
  "orderLineGiftWrap": "N",
  "orderLineShipAlone": " ",
  "orderLineTax": [
    {
      "taxDescription": "GST",
      "taxAmount": 0
    },
    {
      "taxDescription": "PST",
      "taxAmount": 0
    },
    {
      "taxDescription": "Tax",

```



```

{
  "poHeader": [],
  "messageHeader": {
    "datetime": "2013-10-02T10:35:08.580",
    "version": "4.5",
    "source": "locate",
    "destination": "test"
  },
  "messageBody": {
    "vendorCd": "11",
    "vendorSystemCd": "vendor",
    "batchSize": 2,
    "batchID": 0,
    "responseCd": "3009",
    "responseDescription": "No orders since (2013-10-02T10:08:51.560)"
  }
}

```

Response Codes and Descriptions

The following table lists possible response codes and descriptions returned if there are no new purchase orders matching the criteria passed in the request message.

responseCd	responseDescription	Explanation
3000	FAILED - Invalid or Missing Destination (locateq)	The destination specified in the request did not match the <i>Account</i> specified at the Tenant - Admin screen.
3001	FAILED - Message version 4.5 or higher required.	The version specified in the request was lower than 4.5.
3002	Invalid or missing vendor code, (vendorCd) is required.	No vendorCd was specified in the request
3003	Invalid or missing vendor system code, (vendorSystemCd) is required.	No vendorSystemCd was specified in the request.
3004	Invalid vendor system code, system (vendorq) does not exist.	The vendorSystemCd is not a valid system.
3005	Invalid vendor code.	The vendorCd is not valid for the vendorSystemCd. The vendorSystemCd needs to specify the vendor system, not the system where the purchase order originates. The Invalid vendor code error is also returned if the request message fails OAuth validation based on the Client ID or token.
3007	Invalid or missing criteria type, (criteriaType) is required.	The criteriaType is blank.

responseCd	responseDescription	Explanation
3008	Invalid criteria type, criteria type (Batchq) is not supported.	The criteriaType was not All PO, batch, item, or PO .
3009	No orders since (2013-10-02T09:51:56.327) Invalid criteria value, PO (689) does not exist.	No new, unsent orders match the criteria specified. Returned only when the criteriaType was All PO, item, or PO . The criteriaType was PO, and there is no purchase order matching the criteriaValue specified.
310	Invalid criteria value, Item (invaliditemcode) does not exist.	The criteriaType was item, and the criteriaValue specified was not a valid vendor item for the vendorCd.
312	Invalid criteria value, Batch (9) is not associated to vendor (10).	The criteriaType was batch, and the criteriaValue specified was not a valid batch number for the vendorCd.

getDSOrders Response Message Contents

Note:

Then following descriptions indicate the attributes of data passed from Oracle Retail Order Administration Cloud Service rather than the limitations of the Oracle Retail Order Orchestration database. Drop ship purchase orders from other systems may include different data. For example, Oracle Retail Order Administration Cloud Service assigns a numeric purchase order of up to 7 positions, while the Oracle Retail Order Orchestration database can accommodate an alphanumeric code of up to 50 positions.

Message Element or Attribute	Alpha/numeric	Description
poHeader Example:		Purchase Header Information
<pre> { "poHeader": [{ "requestID": 66665, "type": "DROPSHIP", "poNo": "662", "buyerCd": "BUY", "poEnteredDate": "2013-09-27T00:00:00.000", "discountPercentage": 0, "discountAmount": 0, "shippingInstructions": "DRP SHP ORD#00012433", "retailerCurrencyCd": "USA", "vendorCurrencyCd": "USA", "currencyConversionRate": 1, "brandName": "BRAND", "brandCd": "456", "createdDate": "Sep 27, 2013 9:21:26 AM", }] } </pre>		
requestID	numeric	The code assigned by Oracle Retail Order Orchestration to uniquely identify the purchase order.
type	alphanumeric	Set to DROPSHIP.
poNo	alphanumeric	The number assigned by the originating system to identify the purchase order number. Numeric; up to 7 positions.
buyerCD	alphanumeric	The code identifying the buyer for the first item on the purchase order. Blank if no buyer is specified for the first item. Up to 3 positions.
poEnteredDate	datetime	The PO created (entered) date. Datetime format. Might not be the same as the date when the purchase order was generated.
discountPercentage	numeric	The discount percentage, if any, specified for the vendor. Includes a 2-position decimal.
discountAmount	numeric	The discount amount, if any, specified for the vendor. Includes a 2-position decimal. Not currently implemented from Oracle Retail Order Administration Cloud Service.

Message Element or Attribute	Alpha/numeric	Description
shippingInstructions	alphanumeric	Oracle Retail Order Administration Cloud Service sets this value to DRP SHP ORD#12345678, where 12345678 is the originating order number.
retailerCurrencyCd	alphanumeric	The currency code associated with the order. Up to 3 positions. Should be the same as the vendorCurrencyCd, and the currencyConversionRate should be 1. Currency conversion is not currently supported.
vendorCurrencyCD	alphanumeric	The vendor currency code. Up to 3 positions. Should be the same as the retailerCurrencyCd, and the currencyConversionRate should be 1. The Supplier Direct Fulfillment module does not support currency conversion.
currencyConversionRate	numeric	Typically set to 1. Can include a 3- position decimal. Currency conversion is not currently supported.
brandName	alphanumeric	The description of the brand associated with the purchase order. From the <i>Brand Name</i> . Up to 40 positions. Available in: Version 5.0; not returned if the version specified in the request message is lower than 5.0.
brandCd	alphanumeric	The code identifying the brand associated with the purchase order. From the <i>Brand Code</i> . Purchase orders that originate in Oracle Retail Order Administration Cloud Service have numeric brand codes of up to 3 positions. Available in: Version 5.0; not returned if the version specified in the request message is lower than 5.0.

Message Element or Attribute	Alpha/numeric	Description
createdDate	alphanumeric	The date and time when the purchase order was created. Mmm DD, YYYY HH:MM:SS AM format (for example, Sep 30, 2013 12:51:48 PM). Based on the retailer's system's time zone.
salesOrder Example		Sales order header information. The orderMessages and giftMessages name/value pairs are after the soldTo and shipTo name/value pairs.
		<pre> "salesOrder": { "orderID": "12433-001", "freightAmount": 2.2, "orderAdditionalFreightCharges": 0, "orderAdditionalCharges": 0, "gift": "N", "shipComplete": "N", "balanceDue": 0, "orderMessages": {}, "giftMessages": {}, </pre>
orderID	alphanumeric	The order number (up to 8 positions, not zero-filled) and ship-to number (3 positions, zero-filled), separated by a hyphen (for example, 12345-001).
freightAmount	numeric	The total order-level freight charges for the drop ship items included on the purchase order. Can include a 2-position decimal.
orderAdditionalFreightCharges	numeric	The total order-level additional freight charges. Can include a 2-position decimal.
orderAdditionalCharges	alphanumeric	The total order-level additional charges. Can include a 2-position decimal.
gift	alphanumeric	A setting of Y indicates that the order is flagged as a gift; otherwise, set to N.
shipComplete	alphanumeric	A setting of Y indicates that the order is flagged to ship complete; otherwise, set to N.
balanceDue	numeric	The balance due, if any, for a prepaid order; otherwise, set to 0. Can include a 2-position decimal.

Message Element or Attribute	Alpha/numeric	Description
orderMessages	alphanumeric	Any order-level message lines flagged to print on pick slips (P) or both pick slip and invoices (B). Up to 60 positions each. Each line is separated by a newline character (for example, <code>\r\</code>). Lines flagged for pick slips are before lines flagged for both.
giftMessages	alphanumeric	Any order-level message lines flagged as gift messages (G). Up to 60 positions each. Each line is separated by a newline character (for example, <code>\r\</code>).
Payments Example		Each payment method on the sales order.
		<pre>"payments": [{ "tenderDescription": "MASTERCARD", "tenderAmount": 0, "tenderAccount": "" }]</pre>
tenderDescription	alphanumeric	The description of the pay type. Up to 30 positions.
tenderAmount	numeric	The payment amount specified for the payment method. Can include a 2-position decimal. Credit card payment methods have a <code>tenderAmount</code> of 0.
tenderAccount	alphanumeric	Blank.

Message Element or Attribute	Alpha/numeric	Description
<p>soldTo</p> <p>Example</p> <pre> "soldTo": { "customerNo": "144", "companyName": "SAMPLE COMPANY", "prefix": "MR.", "first": "FIRST", "middle": "Q", "last": "LAST", "suffix": "ESQ", "apt": "ABC123", "address1": "257 SA<{:E STREET", "address2": "SECOND ADDRESS LINE", "address3": "THIRD ADDRESS LINE", "address4": "FOURTH ADDRESS LINE", "city": "WORCESTER", "province": "MA", "postal": "01602", "country": "USA", "email": "jasample@example.com", "dayPhone": "(508) 555-0100", "eveningPhone": "(508) 555-0101" }, </pre>		<p>The sold-to customer who placed the sales order.</p>
customerNo	alphanumeric	The number identifying the customer in the originating system. Up to 9 positions.
companyName	alphanumeric	The name of the customer's company, if any. Note: The sold-to customer has either a first and last name or a company name, or both.
prefix	alphanumeric	The prefix for the sold-to customer's name, such as Mr. or Dr. Up to 3 positions.
first	alphanumeric	The customer's first name. Up to 15 positions.
middle	alphanumeric	The customer's middle initial. One position.
last	alphanumeric	The customer's last name. Up to 25 positions.
syffix	alphanumeric	The suffix for the sold-to customer's name, such as Jr. or Esq. Up to 3 positions.
apt	alphanumeric	The customer's apartment or suite number, if any. Up to 10 positions.
address1 through address4	alphanumeric	Up to 4 address lines of up to 32 positions each for the sold-to customer's address. At least one address line is required.

Message Element or Attribute	Alpha/numeric	Description
city	alphanumeric	The city for the sold-to customer. Up to 25 positions.
province	alphanumeric	The code identifying the sold-to customer's state or province. Always included for addresses in the US and Canada. Two positions.
postal	alphanumeric	The zip or postal code for the sold-to customer. Up to 10 positions.
country	alphanumeric	The 2-position or 3-position code identifying the country for the sold-to customer.
email	alphanumeric	The sold-to customer's email address from the sales order. Up to 50 positions.
dayPhone	alphanumeric	The sold-to customer's daytime phone number. Up to 14 positions, including any formatting. Does not include any extension.
eveningPhone	alphanumeric	The sold-to customer's evening phone number. Up to 14 positions, including any formatting. Does not include any extension.
shipTo Example		The shipping address for the order.
		<pre> "shipTo": { "attention": "", "companyName": "COMPANY NAME", "prefix": "MR.", "first": "FIRST", "middle": "Q", "last": "LAST", "suffix": "ESQ", "apt": "ABC123", "address1": "257 SAMPLE STREET", "address2": "SECOND ADDRESS LINE", "address3": "THIRD ADDRESS LINE", "address4": "FOURTH ADDRESS LINE", "city": "WORCESTER", "province": "MA", "postal": "01602", "country": "USA", "email": "jasample@example.com", "dayPhone": "(508) 555-0100", "eveningPhone": "(508) 555-0101" } </pre>
attention	alphanumeric	The attention line for the sales order. Up to 30 positions.

Message Element or Attribute	Alpha/numeric	Description
companyName	alphanumeric	The name of the customer's company, if any. Note: The ship-to address has either a first and last name or a company name, or both.
prefix	alphanumeric	The prefix for the ship-to customer's name, such as Mr. or Dr. Up to 3 positions.
first	alphanumeric	The customer's first name. Up to 15 positions.
middle	alphanumeric	The customer's middle initial. One position.
last	alphanumeric	The customer's last name. Up to 25 positions.
suffix	alphanumeric	The suffix for the ship-to customer's name, such as Jr. or Esq. Up to 3 positions.
apt	alphanumeric	The apartment or suite number, if any. Up to 10 positions.
address1 through address4	alphanumeric	Up to 4 address lines of up to 32 positions each for the shipping address. At least one address line is required.
city	alphanumeric	The city for the shipping address. Up to 25 positions.
province	alphanumeric	The code identifying the shipping address's state or province. Always included for addresses in the US and Canada. Two positions.
postal	alphanumeric	The zip or postal code for the shipping address. Up to 10 positions.
country	alphanumeric	The 2-position or 3-position code identifying the country for the shipping address.
email	alphanumeric	The email address for the shipping address. Up to 50 positions.
dayPhone	alphanumeric	The daytime phone number. Up to 14 positions, including any formatting. Does not include any extension.
eveningPhone	alphanumeric	The evening phone number. Up to 14 positions, including any formatting. Does not include any extension.

Message Element or Attribute	Alpha/numeric	Description
poDetail Example		Each item on the purchase order.
<pre>"poDetail": [{ "poId": 0, "poLineNo": 1, "vendorItemID": "VENDORITEM", "vendorItemDescription": "VENDOR ITEM DESC", "itemUPCCd": "", "itemEANCd": "", "poUnitPrice": 0.25, "poUOMCd": "EA", "vendorUOMCd": "EA", "poQtyOrdered": 2, "vendorOrderedQty": 2, "vendorUnitPrice": 0.25, "carrierCd": "4", "carrierName": "Auto Created 4", "poLineDueDate": "2013-10- 01T00:00:00.000", "poLineCancelAfterDate": ""</pre>		
poId	alphanumeric	Set to 0.
poLineNo	numeric	A unique number identifying the item on the purchase order. Up to 3 positions.
vendorItemID	alphanumeric	The number or code identifying the vendor item. Up to 20 positions.
vendorItem Description	alphanumeric	The description of the vendor item. Up to 30 positions.
itemUPCCd	alphanumeric	The UPC barcode, if any, identifying the item. Up to 40 positions.
itemEANCd	alphanumeric	The EAN barcode, if any, identifying the item. Up to 40 positions.
poUOMCd	alphanumeric	The unit of measure code. Informational only; unit of measure conversion is not supported. Up to 3 positions.
vendorUOMCd	alphanumeric	The vendor's unit of measure code. Informational only; unit of measure conversion is not supported. Up to 3 positions.
poQtyOrdered	numeric	The total ordered quantity of the item. Up to 7 positions.

Message Element or Attribute	Alpha/numeric	Description
vendorOrderedQty	numeric	The total ordered quantity of the item. The same as the poQtyOrdered. Up to 7 positions.
vendorUnitPrice	numeric	The vendor's unit price for the item. Can include a 4-position decimal.
carrierCd	alphanumeric	The number identifying the carrier for the purchase order line. Up to 2 positions.
carrierName	alphanumeric	The description of the carrier. Up to 30 positions.
poLineDueDate	datetime	The due date specified for the purchase order line. Datetime format, with the time set to zeroes (for example, 2013-10-04T00:00:00.000).
poLineCancelAfterDate	datetime	The date to cancel the line if it cannot be fulfilled. Not implemented in integration with Oracle Retail Order Administration Cloud Service.
orderDetail Example		Information about the line on the sales order.(see below) The customizationMessage name/value pair is after the orderLineTax name/value pair.
		<pre> "orderDetail": { "salesOrderItemID": "ITEM ", "salesOrderItemDescription": "ITEM DESC", "salesOrderQtyOrdered": 2, "salesOrderUnitPrice": 1, "orderExtendedFreight": 0, "orderLineCustomizationCharge": 0, "orderLineEntryDate": "2013-09- 27T09:21:26.470", "orderLineGiftWrap": "N", "orderLineShipAlone": " ", "customizationMessage": [] </pre>
salesOrderItemID	alphanumeric	The item/SKU code from the originating system. Up to 27 positions.
salesOrderItemDescription	alphanumeric	The description of the item to display to the customer. Up to 40 positions.
SalesOrderQtyOrdered	numeric	The quantity on the order detail line.
salesOrderUnitPrice	numeric	The customer's unit price for the item. The price is zero if the order is flagged as a gift. Can include a 2-position decimal.

Message Element or Attribute	Alpha/numeric	Description
orderExtendedFreight	numeric	The total freight at the purchase order line level, if any. Can include a 2-position decimal.
OrderLineCustomiationCharge	numeric	The total special handling charges for the order line. Can include a 2-position decimal.
orderLineEntryDate	datetime	The date and time when the order line was created. Datetime format.
orderLineGiftWrap	alphanumeric	Set to Y if the order line requires gift wrapping; otherwise, set to N.
orderLineShipAlone	alphanumeric	Set to S if the item should ship alone; otherwise, blank.
customizationMessage Example		Special handling instructions for the item.
		<pre> customizationMessage": [{ "customizationCd": "COLOR FLD LBL", "customizationMessage": "black" }, { "customizationCd": "FIRST NAME LABEL", "customizationMessage": "Jake" }, { "customizationCd": "LAST NAME LABEL", "customizationMessage": "LastName" }] </pre>
customizationCD	alphanumeric	The field label identifying the customization element. Up to 15 positions.
customizationMessage	alphanumeric	The message, information, or instructions for the customization. Up to 45 positions.
OrderLineTax Example		The tax on the order line.
		<pre> "orderLineTax": [{ "taxDescription": "GST", "taxAmount": 0 }, { "taxDescription": "PST", "taxAmount": 0 }, { "taxDescription": "Tax", "taxAmount": 0.13 }] </pre>

Message Element or Attribute	Alpha/numeric	Description
taxDescription	alphanumeric	The description of the tax. Set to GST, PST, or Tax. The GST and PST amounts, if any, are included in the Tax amount.
taxAmount	numeric	The tax amount of each type for the detail line Can include a 4-position decimal.
messageHeader Example		Basic communication information.
		<pre> "messageHeader": { "datetime": "2013-09-27T09:24:42.019", "version": "4.5", "source": "locate", "destination": "sample" }, </pre>
datetime	datetime	The date and time when the response message was generated.
version	numeric	From the version in the getDSOrders Request Message .
source	alphanumeric	From the destination in the getDSOrders Request Message .
destination	alphanumeric	From the source in the getDSOrders Request Message .
messageBody Example		Basic information about the vendor and other criteria specified in the request message, and information on whether the response was successful.
		<pre> "messageBody": { "vendorCd": "10", "vendorSystemCd": "vendor", "batchSize": 1, "remaining": 0, "batchID": 1226, "responseCd": "0", "responseDescription": "" } </pre>
vendorCd	alphanumeric	The number assigned by the retailer to identify the vendor fulfilling the drop ship order. From the vendorCd in the getDSOrders Request Message .

Message Element or Attribute	Alpha/numeric	Description
vendorSystemCd	alphanumeric	The vendor system code assigned by the retailer. From the vendorSystemCd in the getDSOrders Request Message .
batchSize	numeric	If the request criteriaType was <ul style="list-style-type: none">Item: The number of purchase orders included in the batch. From the batchSize from the request message or the number of new purchase orders including the item and not previously assigned to a batch, whichever is lower.PO: Set to 1, regardless of the batchSize specified in the request.Batch: Set to 1, regardless of the batchSize specified in the request and the number of purchase orders included in the response.All PO: The number of purchase orders included in the batch. From the batchSize from the request message or the number of new purchase orders not previously assigned to a batch, whichever is lower.
remaining	numeric	The remaining number of purchase orders matching the criteria specified in the request message. This number might be higher than zero when, for example, the request message specifies an item and a batchSize that is lower than the total number of new purchase orders for the item.
batchID	numeric	The number assigned to identify the batch of purchase orders.

Message Element or Attribute	Alpha/numeric	Description
responseCd	numeric	Set to 0 if the response includes at least one purchase order. See Troubleshooting the getDSOrders response for information on other possible response codes.
responseDescription	alphanumeric	Blank if the response includes at least one purchase order. See Troubleshooting the getDSOrders response for information on other possible response descriptions.

4

setDSAcknowledge Request Message

Overview: Use the setDSAcknowledge request message to acknowledge the receipt of a batch of purchase orders from Oracle Retail Order Orchestration.

Required? Acknowledgement of a batch is required only if the vendor is configured with the Require Acknowledgement preference selected under the Integration and PO Schedule folder. With this setting, the purchase orders in a batch remain in New Order status after Oracle Retail Order Orchestration sends them in the [getDSOrders Response Message](#), and you need to send the setDSAcknowledge message to change their status to In Process.

Endpoint and resource:

The endpoint for this message is `https://<SERVER>:<PORT>`, where `<SERVER>` is the name of the server and `<PORT>` is the port.

The resource for this message is `/Locate/adws/DSAcknowledge/setDSAcknowledge`

In this chapter:

- [Sample setDSAcknowledge Request Message](#)
- [setDSAcknowledge Request Message Contents](#)

For more information : See:

- [Vendor Integration Overview](#)
- [getDSOrders Response Message](#)

Sample setDSAcknowledge Request Message

The following sample acknowledges a batch of purchase orders.

```
{
  "messageHeader": {
    "datetime": "2013-09-25T13:42:12",
    "version": "4.5",
    "source": "abode",
    "destination": "locate"
  },
  "vendorCd": "11",
  "vendorSystemCd": "vendor",
  "batchId": "1326"
}
```

setDSAcknowledge Request Message Contents

Message Element or Attribute	Alpha/numeric	Description
messageHeader		
Example		
		<pre>"messageHeader": { "datetime": "2013-09-25T13:42:12", "version": "4.5", "source": "ABCDE", "destination": "locate" }</pre>
datetime	datetime	<p>Standard datetime format (YYYY-MMDDTHH:MM:SS, or 2013-09-25T07:32:01). Required, and must be formatted correctly; should not include the offset from Greenwich Mean Time (for example, pass 2013-09-25T03:02:47.118 rather than 2013-09-25T03:02:47.118-05:00).</p>
version	alphanumeric	<p>Indicates the current version of Oracle Retail Order Orchestration. Must be set to 4.5 or higher. Required.</p>
source	alphanumeric	<p>The external system originating the request. Required.</p>
destination	alphanumeric	<p>The name of the Oracle Retail Order Orchestration database. Must match the Account value specified at the Tenant - Admin screen; however, not casesensitive. Normally set to locate.</p>
Identifying Information		
Example		
		<pre>"vendorCd": "11", "vendorSystemCd": "vendor", "batchId": "1326" }</pre>
vendorCd	alphanumeric	<p>A code identifying the vendor to fulfill the purchase orders. Required.</p>

Message Element or Attribute	Alpha/numeric	Description
vendorSystemCd	alphanumeric	A code identifying the default vendor system for the organization (not the system originating the purchase orders). Required.
batchId	numeric	The batch that is being acknowledged.

5

setDSAcknowledge Response Message

Overview: The Supplier Direct Fulfillment module sends the setDSAcknowledge response message when it receives the [setDSAcknowledge Request Message](#) confirming that a batch of purchase orders was received through the [getDSOrders Response Message](#)

Acknowledgement is by batch only. It is not possible to acknowledge individual purchase orders.

In this chapter:

- [Sample setDSAcknowledge Response Message](#)
- [Troubleshooting the setDSAcknowledge Response](#)
- [getDSAcknowledge Response Message Contents](#)

For more information: See:

- [Vendor Integration Overview](#)
- [setDSAcknowledge Request Message](#)

Sample setDSAcknowledge Response Message

The following sample indicates that the batch was successfully acknowledged.

```
{
  "messageHeader": {
    "datetime": "2013-10-03T09:59:31.734",
    "version": "4.5",
    "source": "locate",
    "destination": "abcde"
  },
  "messageBody": {
    "vendorCd": "VND",
    "vendorSystemCd": "vendor",
    "batchID": 1394,
    "responseCd": "0",
    "responseDescription": "Successfully Updated"
  }
}
```

Troubleshooting the setDSAcknowledge Response

If the response does not indicate that the batch was successfully updated, the `responseCd` and `responseDescription` indicate the problem identifying the batch.

Sample Unsuccessful Response

The following sample indicates that the batch has already been acknowledged.

Response Codes and Descriptions

The following table lists possible response codes and descriptions returned if there are no new purchase orders matching the criteria passed in the request message.

responseCd	responseDescription	Explanation
3000	FAILED - Invalid or Missing Destination (locateq)	The destination specified in the request did not match the <i>Account</i> specified at the Tenant - Admin screen.
3001	FAILED - Message version 4.5 or higher required.	The version specified in the request was lower than 4.5.
3002	Invalid or missing vendor code, (vendorCd) is required.	No vendorCd was specified in the request
3003	Invalid or missing vendor system code, (vendorSystemCd) is required.	No vendorSystemCd was specified in the request.
3004	Invalid vendor system code, system (vendorq) does not exist.	The vendorSystemCd is not a valid system.
3005	Invalid vendor code, vendor (12345) does not exist in system (vendor).	The vendorCd is not valid for the vendorSystemCd. The vendorSystemCd needs to specify the vendor system, not the system where the purchase order originates. The Invalid vendor code error is also returned if the request message fails OAuth validation based on the Client ID or token.
3020	Invalid batch, batch id (1396) is not associated to vendor (257).	The batchId specifies a batch that is not valid for the vendorCd.
3021	Request already at provided status.	The batchId specified has already been acknowledged.

getDSAcknowledge Response Message Contents

The typical vendor integration process:

Message Element or Attribute	Alpha/numeric	Description
messageHeader Example		Basic communication information
		<pre> { "messageHeader": { "datetime": "2013-10- 03T09:59:31.734", "version": "4.5", "source": "locate", "destination": "DEST" }, </pre>
datetime	datetime	The date and time when the response message was generated. Based on the retailer's system's time
version	numeric	From the version in the setDSAcknowledge Request Message .
source	alphanumeric	From the destination in the setDSAcknowledge Request Message .
destination	alphanumeric	From the source in the setDSAcknowledge Request Message .
messageBody Example		Returns the information from the request and indicates whether the request was successful.
		<pre> "messageBody": { "vendorCd": "257", "vendorSystemCd": "vendor", "batchID": 1394, "responseCd": "0", "responseDescription": "Successfully Updated" } </pre>
vendorCd	alphanumeric	The number assigned by the retailer to identify the vendor fulfilling the drop ship order. From the <code>vendorCd</code> in the setDSAcknowledge Request Message .
vendorSystemCd	alphanumeric	The vendor system code assigned by the retailer. From the <code>vendorSystemCd</code> in the setDSAcknowledge Request Message .

Message Element or Attribute	Alpha/numeric	Description
remaining	numeric	The remaining number of purchase orders matching the criteria specified in the request message. This number might be higher than zero when, for example, the request message specifies an item and a <code>batchSize</code> that is lower than the total number of new purchase orders for the item.
batchID	numeric	The number assigned to identify the batch of purchase orders.
responseCd	numeric	Set to 0 if the acknowledgement was successful. See Troubleshooting the setDSAcknowledge response for information on other possible response codes.
responseDescription	alphanumeric	Set to <code>Successfully Updated</code> if the acknowledgement was successful. See Troubleshooting the setDSAcknowledge response for information on other possible response descriptions.

6

setDSShipConfirm Request Message

Overview: Use the setDSShipConfirm request message to confirm full or partial shipment of a purchase order.

Endpoint and resource:

The endpoint for this message is `https://<SERVER>:<PORT>`, where `<SERVER>` is the name of the server and `<PORT>` is the port.

The resource for this message is `/Locate/adws/DSShipConfirm/setDSShipConfirm`.

In this chapter:

- [Sample setDSShipConfirm Request Message](#)
- [setDSShipConfirm Request Message Contents](#)

For more information: See

- [Vendor Integration Overview](#)
- [setDSShipConfirm Response Message](#)

Sample setDSShipConfirm Request Message

The following sample confirms shipment of two lines on a purchase order.

```
{
  "messageHeader": {
    "datetime": "2013-10-03T13:42:12",
    "version": "4.5",
    "source": "abcde",
    "destination": "locate"
  },
  "poNo": "619",
  "vendorCd": "10",
  "vendorSystemCd": "vendor",
  "carrierCd": "UPS",
  "meterCharges": 7.25,
  "shipDate": "2013-10-03T13:42:12",
  "actualWeight": 1.5,
  "trackingNumber": "TRACK_NO",
  "detail": [
    {
      "poLineNo": 1,
      "shippedQty": 2
    },
    {
      "poLineNo": 2,
      "shippedQty": 1
    }
  ]
}
```

setDSShipConfirm Request Message Contents

Message Element or Attribute	Alpha/numeric	Description
messageHeader		
Example		
		<pre>{ "messageHeader": { "datetime": "2013-10-03T09:59:31.734", "version": "4.5", "source": "locate", "destination": "DEST" } }</pre>
datetime	datetime	<p>Standard datetime format (YYYY-MMDDTHH:MM:SS, or 2013-09- 25T07:32:01). Required, and must be formatted correctly; should not include the offset from Greenwich Mean Time (for example, pass 2013-09-25T03:02:47.118 rather than 2013-09-25T03:02:47.118-05:00).</p>
version	alphanumeric	<p>Indicates the current version of Oracle Retail Order Orchestration. Must be set to 4.5 or higher. Required.</p>
source	alphanumeric	<p>The external system originating the request. Required.</p>
destination	alphanumeric	<p>The name of the Oracle Retail Order Orchestration database. Must match the Account value specified at the Tenant Admin Screen. Required.</p>
Shipment Identifying Information		
Example		
		<pre>"poNo": "619", "vendorCd": "10", "vendorSystemCd": "vendor", "carrierCd": "UPS", "meterCharges": 7.25, "shipDate": "2013-10-03T13:42:12", "actualWeight": 1.5, "trackingNumber": "TRACK_NO",</pre>
poNo	alphanumeric	<p>The number identifying the purchase order shipped.</p>

Message Element or Attribute	Alpha/numeric	Description
vendorCd	alphanumeric	A code identifying the vendor shipping the purchase order. The vendor code is displayed in the Vendor Portal at the Vendor Configuration screen. Required.
vendorSystemCd	alphanumeric	A code identifying the default vendor system for the organization (not the system originating the purchase orders). Required.
carrierCd	alphanumeric	A code identifying the ship via used to ship the purchase order. Must be a valid code for a carrier assigned to the vendor. Does not need to be flagged as Active . Displayed in the Vendor Portal at the Carriers tab of the Vendor Configuration screen. Required.
meterCharges	numeric	Information will be provided at a later date.
shipDate	datetime	The date when the shipment took place. Can be a future date, but cannot be earlier than the date when the purchase order was created. Standard datetime format (YYYY-MM-DDTHH:MM:SS, or 2013-09-25T07:32:01). Required, and must be formatted correctly; should not include the offset from Greenwich Mean Time (for example, pass 2013-09-25T03:02:47.118 rather than 2013-09-25T03:02:47.118-05:00).
actualWeight	numeric	The shipping weight. Information will be provided at a later date.
trackingNumber	alphanumeric	The tracking number that the customer can use to track the shipment. Required if the <i>Tracking # Required</i> flag is selected for the carrier.

Message Element or Attribute	Alpha/numeric	Description
<p>Shipment detail information</p> <p>Example</p> <pre> "detail": [{ "poLineNo": 1, "shippedQty": 2 }, { "poLineNo": 2, "shippedQty": 1 }] </pre>		<p>Identifies the purchase order line number shipped and the shipment quantity. Can include multiple lines on a single purchase order.</p>
poLineNo	numeric	Identifies the line number shipped. Required.
shippedQty	numeric	Identifies the quantity shipped. Must be a valid quantity greater than 1 and not greater than the printed quantity. Required.

7

setDSShipConfirm Response Message

Overview: The Supplier Direct Fulfillment module sends the setDSShipConfirm response message when it receives the [setDSShipConfirm Request Message](#) confirming that a purchase order has been shipped.

In this chapter:

- [Sample setDSShipConfirm Response Message](#)
- [Troubleshooting the setDSShipConfirm response](#)
- [setDSShipConfirm Response Message Contents](#)

For more information: See:

- [Vendor Integration Overview](#)
- [setDSShipConfirm Request Message](#)

Sample setDSShipConfirm Response Message

The following sample indicates that the shipment was successfully confirmed.

```
{
  "errorDetail": [],
  "messageHeader": {
    "datetime": "2013-10-14T15:30:32.094",
    "version": "4.5",
    "source": "locate",
    "destination": "test"
  },
  "messageBody": {
    "vendorCd": "VND",
    "vendorSystemCd": "vendor",
    "poNo": "746",
    "carrierCd": "50",
    "meterCharges": 1,
    "shipDate": "2013-12-14T13:42:12",
    "actualWeight": 1,
    "trackingNumber": "ABC12345",
    "responseCd": "0",
    "responseDescription": "Successfully Updated"
  }
}
```

Troubleshooting the setDSShipConfirm Response

If the response does not include at least one purchase order, the `responseCd` and `responseDescription` indicate the shipment confirmation was unsuccessful.

Sample Unsuccessful Response

The following sample indicates that the request did not specify a valid carrier associated with the vendor.

```

{
  "errorDetail": [],
  "messageHeader": {
    "datetime": "2013-10-22T16:33:23.280",
    "version": "4.5",
    "source": "locate",
    "destination": "sample"
  },
  "messageBody": {
    "vendorCd": "11",
    "vendorSystemCd": "vendor",
    "poNo": "724",
    "carrierCd": "50",
    "meterCharges": 0,
    "shipDate": "2013-10-14T13:42:12",
    "actualWeight": 0,
    "trackingNumber": "TRACK_NO",
    "responseCd": "3034",
    "responseDescription": "Shipping Weight is a required field. "
  }
}

```

Response Codes and Descriptions

The following table lists possible response codes and descriptions returned if shipment specified in the request message could not be confirmed.

responseCd	responseDescription	Explanation
3000	FAILED - Invalid or Missing Destination (locateq)	The destination specified in the request did not match the <i>Account</i> specified at the Tenant - Admin screen.
3001	FAILED - Message version 4.5 or higher required.	The version specified in the request was lower than 4.5.
3002	Invalid or missing vendor code, (vendorCd) is required.	No vendorCd was specified in the request
3003	Invalid or missing vendor system code, (vendorSystemCd) is required.	No vendorSystemCd was specified in the request.
3004	Invalid vendor system code, system (vendorq) does not exist.	The vendorSystemCd is not a valid system.
3005	Invalid vendor code, vendor (12345) does not exist in system (vendor).	The vendorCd is not valid for the vendorSystemCd. The vendorSystemCd needs to specify the vendor system, not the system where the purchase order originates. The Invalid vendor code error is also returned if the request message fails OAuth validation based on the Client ID or token.
3031	Invalid PO (999) is not associated to vendor (11).	The poNo specified is not a valid purchase order number for the vendor.

responseCd	responseDescription	Explanation
3032	Invalid Carrier (a) is not associated to vendor (11).	The carrierCd specified is not a valid carrier for the vendor
3033	Tracking Number is a required field.	No trackingNumber is specified, and the tracking number is required for the carrier.
3034	Shipping Weight is a required field.	The actualWeight specified is 0, and the shipping weight is required for the carrier.
3035	Shipping Rate is a required field.	The meterCharges is 0, and shipping rate is required for the carrier.
3036	Ship Date is invalid.	No shipDate is specified.
3037	Ship Date is invalid, ship date cannot be before create date.	The shipDate is before the date when the purchase order was created.
3038	Carrier is a required field.	No carrierCd is specified.
3042	Invalid PO Line (99) is not associated to PO (747).	The poLineNo does not specify an existing line on the purchase order. This error detail response occurs with header-level error 3050, described below.
3043	Invalid Qty, shipped quantity.	The shippedQty is 0. This error detail response occurs with header-level error 3050, described below.
3044	Invalid Qty, shipped quantity cannot exceed the available to ship.	The shippedQty specified exceeds the unshipped, uncanceled quantity on the purchase order line. This error detail response occurs with headerlevel error 3050, described below.
3050	Invalid PO Lines provided.	The poLineNo does not specify an open purchase order line.

setDSShipConfirm Response Message Contents

Message Element or Attribute	Alpha/numeric	Description
errorDetail		Includes information if there is an error related to a purchase order line. See Response Codes and Descriptions for more information.
Example		
		<pre> "errorDetail": [{ "poLineNo": 1, "shippedQty": 1, "responseCd": "3044", "responseDescription": "Invalid Qty, shipped quantity cannot exceed the available to ship. " }], </pre>

Message Element or Attribute	Alpha/numeric	Description
poLineNo	alphanumeric	The purchase order line number in error
shippedQty	alphanumeric	The shipped quantity indicated for the purchase order line number in error.
responseCd	alphanumeric	The response code associated with the error
responseDescription	alphanumeric	The description of the error.
messageHeader		Basic communication information
Example		
		<pre> { "messageHeader": { "datetime": "2013-10-03T09:59:31.734", "version": "4.5", "source": "locate", "destination": "abcde" }, </pre>
datetime	datetime	The date and time when the response message was generated. In the retailer's system's time zone.
version	numeric	From the <code>version</code> in the setDSShipConfirm Request Message .
source	alphanumeric	From the <code>destination</code> in the setDSShipConfirm Request Message .
destination	alphanumeric	From the <code>source</code> in the getDSOrders Request Message .
messageBody		Returns the information from the request and indicates whether the request was successful.
Example		
		<pre> "messageBody": { "vendorCd": "257", "vendorSystemCd": "vendor", "poNo": "746", "carrierCd": "50", "meterCharges": 1, "shipDate": "2013-12-14T13:42:12", "actualWeight": 1, "trackingNumber": "TRACK_NO", "responseCd": "0", "responseDescription": "Successfully Updated" } </pre>
vendorCd	alphanumeric	The number assigned by the retailer to identify the vendor fulfilling the drop ship order. From the <code>vendorCd</code> in the setDSShipConfirm Request Message .

Message Element or Attribute	Alpha/numeric	Description
vendorSystemCd	alphanumeric	The vendor system code assigned by the retailer. From the vendorSystemCd in the setDSShipConfirm Request Message .
poNo	alphanumeric	From the poNo in the setDSShipConfirm Request Message .
carrierCd	alphanumeric	From the carrierCD in the setDSShipConfirm Request Message .
meterCharges	numeric	From the meterCharges in the setDSShipConfirm Request Message .
shipdate	datetime	From the shipDate in the setDSShipConfirm Request Message .
actualWeight	numeric	From the actualWeight in the setDSShipConfirm Request Message .
trackingNumber	alphanumeric	From the trackingNumber in the setDSShipConfirm Request Message .
responseCD	numeric	Set to 0 if the acknowledgement was successful. See Troubleshooting the setDSShipConfirm response on page 7- 2 for information on other possible response codes.
responseDescription	alphanumeric	Set to Successfully Updated if the acknowledgement was successful. See Troubleshooting the setDSShipConfirm response on page 7-2 for information on other possible response descriptions.
