

Oracle® Retail Order Broker (Locate)
Vendor Integration Guide
Release 5.2

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Contents

Vendor Integration Overview	6
Process Overview	8
Required Information and Setup	10
Required Information	10
Integrated vendor configuration	11
Logging	12
launchDSOrders Request Message.....	13
Sample launchDSOrders Request Messages	15
launchDSOrders Request Sample: All Purchase Orders	15
launchDSOrders Request Sample: Specific Purchase Order	15
launchDSOrders Request Sample: Specific Item	15
launchDSOrders Request Message Contents	17
getDSOrders Request Message.....	20
Sample getDSOrder Request Messages	22
getDSOrders Request Message Contents	23
getDSOrders Response Message.....	27
Sample getDSOrders Response Message	28
Troubleshooting the getDSOrders response	32
Sample Unsuccessful Response	32
Response Codes and Descriptions	32
getDSOrders Response Message Contents	34
setDSAcknowledge Request Message.....	49
Sample setDSAcknowledge Request Message	50
setDSAcknowledge Request Message Contents	51
setDSAcknowledge Response Message.....	53
Sample setDSAcknowledge Response Message	54
Troubleshooting the setDSAcknowledge response	55

Sample Unsuccessful Response	55
Response Codes and Descriptions	55
getDSAcknowledge Response Message Contents	57
setDSShipConfirm Request Message	59
Sample setDSShipConfirm Request Message	60
setDSShipConfirm Request Message Contents	61
setDSShipConfirm Response Message	64
Sample setDSShipConfirm Response Message	65
Troubleshooting the setDSShipConfirm response	66
Sample Unsuccessful Response	66
Response Codes and Descriptions	66
getDSShipConfirm Response Message Contents	69

Vendor Integration Overview

Note: The rebranding for the latest version of this document is in development as part of post MICROS acquisition activities. References to former MICROS product names may exist throughout this document.

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 Locate 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:

- notifying the vendor's system that new purchase orders are assigned by sending a "nudge" message
- sending batches of new purchase orders to the vendor's system when the vendor's system requests them, typically based on receiving the "nudge" message
- 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 | MICROS representative for information on creating unique maps.

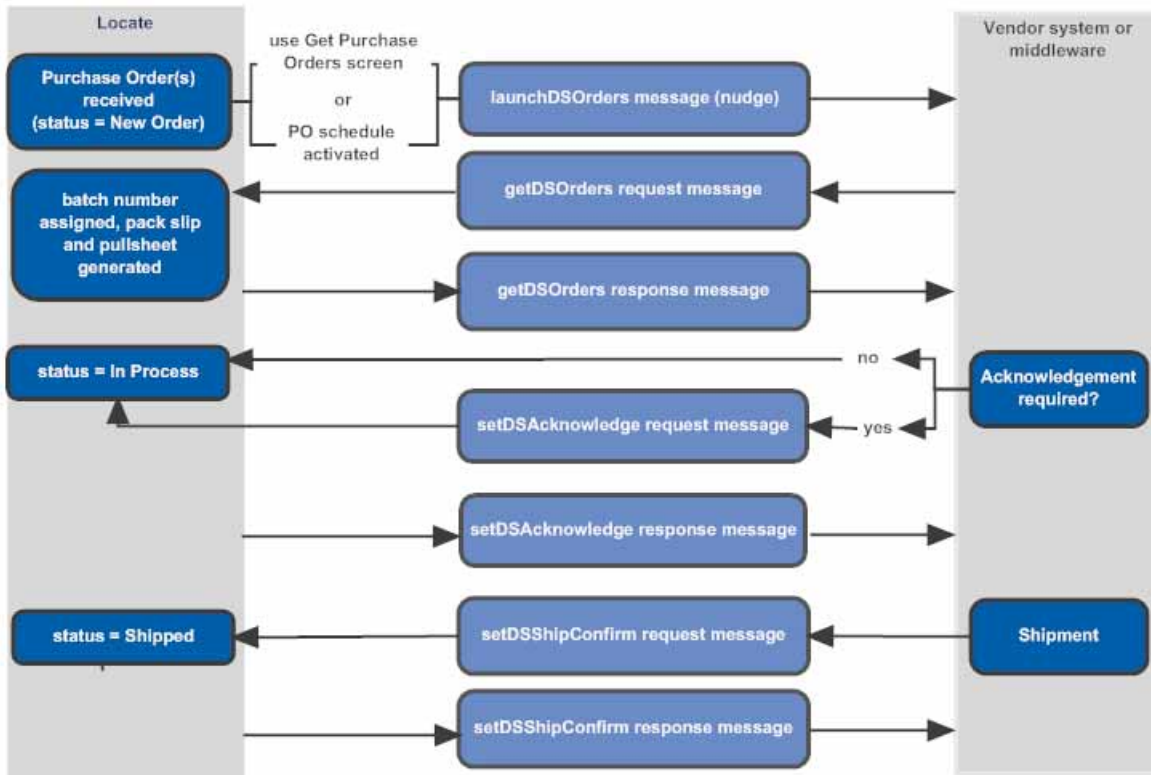
JSON messages: The vendor integration uses the JSON (JavaScript Object Notation) format for its messages. See the messages in this guide for examples.

Process Overview

The typical vendor integration process:

- **Creation:** Purchase orders are created in Locate (the status is **New Order** and no batch number are assigned yet).
 - **Get purchase orders:**
 - Locate generates the [launchDSOrders Request Message](#) to prompt (nudge) the vendor system to request new orders with the [getDSOrders Request Message](#). Generation of the nudge message is triggered when:
 - The vendor selects the generation of new purchase orders at the **Get Purchase Orders** screen, or
 - A nudge is scheduled based on the **PO Schedule Interval** setup for the vendor.
 - The [launchDSOrders Request Message](#) (nudge) triggers the vendor system to send the [getDSOrders Request Message](#) to Locate using the selection criteria from the nudge message. For example, if the vendor selects a single purchase order at the **Get Purchase Orders** screen, the nudge and the [getDSOrders Request Message](#) specify just this purchase order rather than all new purchase orders.
 - The [getDSOrders Response Message](#) from Locate includes the new purchase orders. At this time:
 - a batch number is assigned to the purchase orders included in the response message.
 - 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 acknowledgement, the status of the purchase orders in the response message changes automatically to **In Process**.
 - **Required:** Otherwise, if the vendor is configured to require acknowledgement, 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 Locate, specifying the batch received.
 - Locate sends the [setDSAcknowledge Response Message](#). At this time, the status of the purchase orders changes to **In Process**.
- Note:** If acknowledgement 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 Locate 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.
 - Locate 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 Locate. Displayed at the **Vendors** screen in Locate 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 Locate and at the **Carriers** tab of the **Vendor Configuration** screen in the Vendor Portal.
- **destination**: The name of the Locate database. Must match the `Account` value specified in the `locate-config.properties` file; however, not case-sensitive.
- **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 Locate). **Note**: Not the code identifying the system that originates the drop ship orders.

Properties file entries: Entries in the `locate-config.properties` file related to the vendor integration are:

- `run.scheduled.esb.jobs` = Set this entry to **Y** on the primary server that sends the `launchDSOrders` message for each integrated vendor configured with a schedule. Leave this entry set to **N** on any additional Locate servers.
- `esb.services.wsdl.location` = Enter the location of the wsdl (such as `http://server:8080/launchDSOrders/services/launchDSOrders?wsdl`) to indicate the wsdl that defines the `launchDSOrders` message. This setting is required because the `launchDSOrders` message is defined in a separate wsdl (web service description language), while the remaining messages are JSON messages and are defined in a wadl (web application description language) on the Locate server. An external wsdl may be required if the retailer does not use a vendor integration created and configured by Oracle | MICROS.

For more information: See:

- **Setting Up Data for the Supplier Direct Fulfillment Module** in the Locate online help

- **Additional Locate Configuration Options** in the **Locate Operations Guide**

Integrated vendor configuration

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

- **Locate:** When logged into Locate as a retailer user, use the **Create Vendor** or **Edit Vendor** screen, **Preferences** tab:
 - **Integration and PO Schedule** 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
 - Enter the *Authorization Token* to authenticate requests to Locate. Required only if the vendor uses a public wsdl; not used when the integration is within the firewall, such as with ESB on an internal server.
 - Use the **PO Schedule Interval** settings to have Locate send the [launchDSOrders Request Message](#) (nudge) at a regular interval.

Note: If a schedule is set up and activated, then the [nudge](#) message is generated according to the schedule regardless of whether there are any new purchase orders.

- **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 Locate 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 Locate online help for more information.
- **Vendor Portal:** When logged into the Vendor Portal as a vendor user, use the **Vendor Configuration** screen, **Preferences** tab:
 - **Integration and PO Schedule** folder: Use the **PO Schedule Interval** settings to have Locate send the [launchDSOrders Request Message](#) (nudge) at a regular interval.
 - **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 Locate online help (**New Vendor** or **Edit Vendor** screens) or the Vendor Portal online help (**Vendor Configuration** screen).

Logging

If the *Vendor Portal Request/Response* field at the **Event Logging** screen is set to Everything or Errors, Locate logs the JSON messages in the `json_ds.log` file in the `log` folder on the Locate server.

If the *Drop Ship Request/Response* field at the **Event Logging** screen is set to Everything or Errors, Locate logs the launchDSOrders XML messages in the `xml_ds.log` file in the same logging folder on the Locate server.

launchDSOrders Request Message

Purpose: Locate generates this message when:

- the vendor uses the **Get Purchase Orders** screen in the Vendor Portal to request all eligible purchase orders, a specific purchase order, or purchase orders that include a specific item.
- the request is scheduled based on the **PO Schedule Interval** set up for the vendor at the **New Vendor** or **Edit Vendor** screens in Locate or the **Vendor Configuration** screen in the Vendor Portal.

What does the message do? The message serves as a “nudge” to the vendor system indicating to send the [getDSOrders Request Message](#) using the criteria specified in the nudge message.

No updates take place in Locate as a result of generating this message.

Response message? The response message serves as a simple acknowledgement to the request message, echoing the information in the request, and does not cause any updates in Locate. A sample response:

```
<cbns0:launchDSOrders xmlns:cbns0="http://cbesb.bostechcorp.com/wsdl/locate/1.0">
<cbns0:message_header message_type="ack">
<cbns0:datetime>2013-10-14-04:00</cbns0:datetime>
<cbns0:version>4.5</cbns0:version>
<cbns0:source>Locate</cbns0:source>
<cbns0:destination>ESB</cbns0:destination>
</cbns0:message_header>
<cbns0:vendors>
<cbns0:vendor criteria_type="All PO" vendor_cd="11" vendor_system_cd="vendor"/>
</cbns0:vendors>
</cbns0:launchDSOrders>
```

Logged where? If the *Drop Ship Request/Response* field at the **Event Logging** screen is set to Everything or Errors, Locate logs the launchDSOrders XML messages in the `xml_ds.log` file in the logging folder on the Locate server.

In this topic:

- [Sample launchDSOrders Request Messages](#) on page 15
- [launchDSOrders Request Message Contents](#) on page 17

For more information: See the [Vendor Integration Overview](#) on page 6 for background.

Sample launchDSOrders Request Messages

- [launchDSOrders Request Sample: All Purchase Orders](#)
- [launchDSOrders Request Sample: Specific Purchase Order](#)
- [launchDSOrders Request Sample: Specific Item](#)

launchDSOrders Request Sample: All Purchase Orders

```
<cbns0:launchDSOrders xmlns:cbns0="http://cbesb.bostechcorp.com/wsdl/locate/1.0">
<cbns0:message_header>
<cbns0:datetime>2013-10-09-04:00</cbns0:datetime>
<cbns0:version>4.5</cbns0:version>
<cbns0:source>Locate</cbns0:source>
<cbns0:destination>ESB</cbns0:destination>
</cbns0:message_header>
<cbns0:vendors>
<cbns0:vendor criteria_type="All PO" vendor_cd="10" vendor_system_cd="vendor"/>
</cbns0:vendors>
</cbns0:launchDSOrders>
```

launchDSOrders Request Sample: Specific Purchase Order

```
<cbns0:launchDSOrders xmlns:cbns0="http://cbesb.bostechcorp.com/wsdl/locate/1.0">
<cbns0:message_header>
<cbns0:datetime>2013-10-09-04:00</cbns0:datetime>
<cbns0:version>4.5</cbns0:version>
<cbns0:source>Locate</cbns0:source>
<cbns0:destination>ESB</cbns0:destination>
</cbns0:message_header>
<cbns0:vendors>
<cbns0:vendor criteria_type="PO" criteria_value="718" vendor_cd="10"
vendor_system_cd="vendor"/>
</cbns0:vendors>
</cbns0:launchDSOrders>
```

launchDSOrders Request Sample: Specific Item

```
<cbns0:launchDSOrders xmlns:cbns0="http://cbesb.bostechcorp.com/wsdl/locate/1.0">
<cbns0:message_header>
<cbns0:datetime>2013-10-09-04:00</cbns0:datetime>
<cbns0:version>4.5</cbns0:version>
<cbns0:source>Locate</cbns0:source>
<cbns0:destination>ESB</cbns0:destination>
</cbns0:message_header>
<cbns0:vendors>
```

```
<cbns0:vendor criteria_type="Item" criteria_value="V11PIMABLUEMEDIUM" vendor_cd="11"  
vendor_system_cd="vendor"/>  
</cbns0:vendors>  
</cbns0:launchDSOrders>
```


launchDSOrders Request Message Contents

Message Element or Attribute	Alpha/numeric	Description
------------------------------	---------------	-------------

message_header

Example:

```
<cbns0:message_header>
<cbns0:datetime>2013-10-22T13:10:40.734</cbns0:datetime>
<cbns0:version>4.5</cbns0:version>
<cbns0:source>Locate</cbns0:source>
<cbns0:destination>ESB</cbns0:destination>
</cbns0:message_header>
```

datetime	datetime	Standard datetime format (YYYY-MM-DDTHH:MM:SS, or 2013-10-09T07:32:01). Required, and must be formatted correctly; should not include the offset from Greenwich Mean Time (for example, pass 2013-10-09T03:02:47.118 rather than 2013-10-09T03:02:47.118-05:00).
version	alphanumeric	The current version of Locate.
source	alphanumeric	The name of the Locate database. From the Account value specified in the <code>locate-config.properties</code> file.
destination	alphanumeric	Information will be provided at a later date.

vendors

Example:

```
<cbns0:vendors>
<cbns0:vendor criteria_type="Item" criteria_value="V11PIMABLUEMEDIUM" vendor_cd="11"
vendor_system_cd="vendor"/>
</cbns0:vendors>
```

Message Element or Attribute	Alpha/ numeric	Description
criteria_type	alphanumeric	Possible types: <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.
criteria_value	alphanumeric	If the criteriaType is: <ul style="list-style-type: none"> • All PO: The <code>criteriaValue</code> is not used. • item: The <code>criteriaValue</code> specifies a vendor item code for the vendor in order to request all eligible purchase orders (new order status, no batch number assigned) that include that item. • PO: The <code>criteriaValue</code> specifies a single eligible purchase order (new order status, no batch number assigned) for the vendor.
vendor_cd	alphanumeric	A code identifying the vendor to fulfill the purchase order.

Message Element or Attribute	Alpha/ numeric	Description
vendor_system_cd	alphanumeric	A code identifying the default vendor system for the organization (not the system originating the purchase orders).

getDSOrders Request Message

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

Triggered by “nudge” message: An integrated system is “nudged” to send the getDSOrders request when it receives the [launchDSOrders Request Message](#) from Locate. Locate generates the [launchDSOrders Request Message](#) when:

- **scheduled:** the vendor is configured to receive the launchDSOrders request (nudge) on a regular schedule. When Locate sends a scheduled nudge, the nudge request message specifies to request all new purchase orders for the vendor, so the `criteriaType` is "All PO".
- **on demand:** the vendor uses the **Get Purchase Orders** screen at the Vendor Portal to have Locate generate a nudge for:
 - *a specific purchase order:* the `criteriaType` is "PO" and indicates to send a getDSOrders request for that purchase order only.
 - *purchase orders that include a specific item:* the `criteriaType` is "item" and indicates to send a getDSOrders request for purchase orders that include that item.
 - *all new purchase orders:* the `criteriaType` is "All PO" and indicates to send a getDSOrders request for all new purchase orders.

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.

In this topic:

- [Sample getDSOrder Request Messages](#) on page 22
- [getDSOrders Request Message Contents](#) on page 23

For more information: See:

- [Vendor Integration Overview](#) on page 6 for background
- [launchDSOrders Request Message](#) on page 13 for information on the nudge message
- [getDSOrders Response Message](#) on page 27 for information on the response message generated to the getDSOrder request message and the causes of possible errors

Sample getDSOrder Request Messages

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-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).
version	alphanumeric	Indicates the current version of Locate. Must be set to 4.5 or higher. Required.
source	alphanumeric	The external system originating the request. Required.
destination	alphanumeric	The name of the Locate database. Must match the Account value specified in the locate-config.properties file; however, not case-sensitive. Required.

Identifying information

Example:

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

Message Element or Attribute	Alpha/ numeric	Description
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 <code>batchSize</code> is used only when the <code>criteriaType</code> is All PO or item .

Criteria

```
"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.

Message Element or Attribute	Alpha/ numeric	Description
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 <code>criteriaValue</code> is not used. • item: The <code>criteriaValue</code> 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 <code>criteriaValue</code> needs to specify a single eligible purchase order (new order status, no batch number assigned) for the vendor. • batch: The <code>criteriaValue</code> needs to specify a batch for the vendor. The batch does not need to be in new order status.

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.

In this topic:

- [Sample getDSOrders Response Message](#) on page 28
- [Troubleshooting the getDSOrders response](#) on page 32
- [getDSOrders Response Message Contents](#) on page 34

For more information: See:

- [Vendor Integration Overview](#) on page 6 for background
- [getDSOrders Request Message](#) on page 20 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": "HEB",
    "poEnteredDate": "2013-09-27T00:00:00.000",
    "discountPercentage": 0,
    "discountAmount": 0,
    "shippingInstructions": "DRP SHP ORD#00012433",
    "retailerCurrencyCd": "USA",
    "vendorCurrencyCd": "USA",
    "currencyConversionRate": 1,
    "brandName": "Blue Fish",
    "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": "WENDELL INDUSTRIES",
        "prefix": "MR.",
        "first": "MICKEY",
        "middle": "Q",
        "last": "WENDELL",
        "suffix": "ESQ",
        "apt": "ABC123",
        "address1": "257 GREY STREET",
        "address2": "SECOND ADDRESS LINE",
        "address3": "THIRD ADDRESS LINE",
        "address4": "FOURTH ADDRESS LINE",
        "city": "WORCESTER",
        "province": "MA",
        "postal": "01602",
        "country": "USA",
        "email": "ekaplan@commercialware.com",
        "dayPhone": "(508) 123-7890",
        "eveningPhone": "(508) 223-4455"
      },
      "shipTo": {
        "attention": "",
        "companyName": "WENDELL INDUSTRIES",
        "prefix": "MR.",
        "first": "MICKEY",
        "middle": "Q",
        "last": "WENDELL",
        "suffix": "ESQ",
        "apt": "ABC123",
        "address1": "257 GREY STREET",
```

```

    "address2": "SECOND ADDRESS LINE",
    "address3": "THIRD ADDRESS LINE",
    "address4": "FOURTH ADDRESS LINE",
    "city": "WORCESTER",
    "province": "MA",
    "postal": "01602",
    "country": "USA",
    "email": "ekaplan@commercialware.com",
    "dayPhone": "(508) 123-7890",
    "eveningPhone": "(508) 223-4455"
  },
  "orderMessages": {},
  "giftMessages": {},
  "payments": [
    {
      "tenderDescription": "MASTERCARD",
      "tenderAmount": 0,
      "tenderAccount": ""
    }
  ]
},
"poDetail": [
  {
    "poId": 0,
    "poLineNo": 1,
    "vendorItemID": "V10DUCK",
    "vendorItemDescription": "VENDOR 10 RUBBER DUCK",
    "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": "DUCK",
      "salesOrderItemDescription": "SQUEAKY RUBBER DUCK",
      "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": "V10TEETH",
        "vendorItemDescription": "VENDOR 10 CHATTERING TEETH",
        "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": "TEETH",
            "salesOrderItemDescription": "CHATTERING TEETH",
            "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",
                    "taxAmount": 1.25
                }
            ]
        },
        "customizationMessage": []
    }
]
}],
"messageHeader": {
    "datetime": "2013-09-27T09:24:42.019",
    "version": "4.5",
    "source": "locate",
    "destination": "elise"
},
"messageBody": {
    "vendorCd": "10",
    "vendorSystemCd": "vendor",
    "batchSize": 1,
    "remaining": 0,
    "batchID": 1226,

```

```
"responseCd": "0",  
  "responseDescription": ""  
}
```

Troubleshooting the getDSOrders response

If the response does not include at least one purchase order, the `responseCd` and `responseDescription` indicate why no purchase orders are included.

Sample Unsuccessful Response

The following sample indicates that there are no new orders matching the criteria specified in the request message.

Request by PO, item, or all purchase orders: A response such as the following might be returned if the request specifies a `criteriaType` of **All PO, Item, or PO**, and no new purchase orders match the `criteriaType` and `criteriaValue`.

Request by batch: If the `criteriaType` is **Batch** and the `criteriaValue` specifies a valid batch for the vendor, the response includes all purchase orders in the matching batch, even if the batch has already been sent and even if the number of purchase orders in the batch exceeds the `batchSize` specified in the request.

```
{
  "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 in the Tenant table.

responseCd	responseDescription	Explanation
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.
3007	Invalid or missing criteria type, (criteriaType) is required.	The criteriaType is blank.
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)	No new, unsent orders match the criteria specified. Returned only when the criteriaType was All PO, item, or PO .
	Invalid criteria value, PO (689) does not exist.	The criteriaType was PO , and there is no purchase order matching the criteriaValue specified.
310	Invalid criteria value, Item (qvllpimabluelarge) 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: The following descriptions indicate the attributes of data passed from CWDirect or CWSerenade rather than the limitations of the Locate database. Drop ship purchase orders from other systems may include different data. For example, CWDirect and CWSerenade assign a numeric purchase order of up to 7 positions, while the Locate database can accommodate an alphanumeric code of up to 50 positions.

Message Element or Attribute	Alpha/numeric	Description
poHeader Example: <pre>{ "poHeader": [{ "requestID": 66665, "type": "DROPSHIP", "poNo": "662", "buyerCd": "HEB", "poEnteredDate": "2013-09-27T00:00:00.000", "discountPercentage": 0, "discountAmount": 0, "shippingInstructions": "DRP SHP ORD#00012433", "retailerCurrencyCd": "USA", "vendorCurrencyCd": "USA", "currencyConversionRate": 1, "brandName": "Blue Fish", "brandCd": "456", "createdDate": "Sep 27, 2013 9:21:26 AM", }]</pre>		Purchase order header information.
requestID	numeric	The code assigned by Locate 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.

Message Element or Attribute	Alpha/ numeric	Description
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 CWDirect or CWSerenade.
shippingInstructions	alphanumeric	CWDirect and CWSerenade set this value to <code>DRP SHP ORD#12345678</code> , 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 <code>vendorCurrencyCd</code> , and the <code>currencyConversionRate</code> 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 <code>retailerCurrencyCd</code> , and the <code>currencyConversionRate</code> 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.

Message Element or Attribute	Alpha/numeric	Description
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 CWSerenade or CWDirect 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.
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).
salesOrder "salesOrder": { "orderId": "12433-001", "freightAmount": 2.2, "orderAdditionalFreightCharges": 0, "orderAdditionalCharges": 0, "gift": "N", "shipComplete": "N", "balanceDue": 0, "orderMessages": {}, "giftMessages": {}, }		Sales order header information. The <code>orderMessages</code> and <code>giftMessages</code> name/value pairs are after the soldTo and shipTo name/value pairs.
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).

Message Element or Attribute	Alpha/numeric	Description
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.
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 <pre> "payments": [{ "tenderDescription": "MASTERCARD", "tenderAmount": 0, "tenderAccount": "" }] </pre>		Each payment method on the sales order.

Message Element or Attribute	Alpha/numeric	Description
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.
soldTo <pre>"soldTo": { "customerNo": "144", "companyName": "WENDELL INDUSTRIES", "prefix": "MR.", "first": "MICKEY", "middle": "Q", "last": "WENDELL", "suffix": "ESQ", "apt": "ABC123", "address1": "257 GREY STREET", "address2": "SECOND ADDRESS LINE", "address3": "THIRD ADDRESS LINE", "address4": "FOURTH ADDRESS LINE", "city": "WORCESTER", "province": "MA", "postal": "01602", "country": "USA", "email": "ekaplan@commercialware.com", "dayPhone": "(508) 123-7890", "eveningPhone": "(508) 223-4455" },</pre>	The sold-to customer who placed the sales order.	
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.

Message Element or Attribute	Alpha/numeric	Description
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 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.
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.

Message Element or Attribute	Alpha/numeric	Description
eveningPhone	alphanumeric	The sold-to customer's evening phone number. Up to 14 positions, including any formatting. Does not include any extension.
shipTo <pre>"shipTo": { "attention": "", "companyName": "WENDELL INDUSTRIES", "prefix": "MR.", "first": "MICKEY", "middle": "Q", "last": "WENDELL", "suffix": "ESQ", "apt": "ABC123", "address1": "257 GREY STREET", "address2": "SECOND ADDRESS LINE", "address3": "THIRD ADDRESS LINE", "address4": "FOURTH ADDRESS LINE", "city": "WORCESTER", "province": "MA", "postal": "01602", "country": "USA", "email": "ekaplan@commercialware.com", "dayPhone": "(508) 123-7890", "eveningPhone": "(508) 223-4455" },</pre>		The shipping address for the order.
attention	alphanumeric	The attention line for the sales order. Up to 30 positions.
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.

Message Element or Attribute	Alpha/numeric	Description
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 <pre>"poDetail": [{ "poId": 0, "poLineNo": 1, "vendorItemID": "V10DUCK", "vendorItemDescription": "VENDOR 10 RUBBER DUCK", "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>		Each item on the purchase order.
pold	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.
vendorItemDescription	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.

Message Element or Attribute	Alpha/ numeric	Description
poQtyOrdered	numeric	The total ordered quantity of the item. Up to 7 positions.
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 CWDirect or CWSerenade.
orderDetail <pre>"orderDetail": { "salesOrderItemID": "DUCK", "salesOrderItemDescription": "SQUEAKY RUBBER DUCK", "salesOrderQtyOrdered": 2, "salesOrderUnitPrice": 1, "orderExtendedFreight": 0, "orderLineCustomizationCharge": 0, "orderLineEntryDate": "2013-09-27T09:21:26.470", "orderLineGiftWrap": "N", "orderLineShipAlone": "", "customizationMessage": [] }</pre>		Information about the line on the sales order. The customizationMessage name/value pair is after the orderLineTax name/value pair.
salesOrderItemID	alphanumeric	The item/SKU code from the originating system. Up to 27 positions.

Message Element or Attribute	Alpha/numeric	Description
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.
orderExtendedFreight	numeric	The total freight at the purchase order line level, if any. Can include a 2-position decimal.
orderLineCustomizationCharge	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 <pre> customizationMessage": [{ "customizationCd": "COLOR FLD LBL", "customizationMessage": "black" }, { "customizationCd": "FIRST NAME LABEL", "customizationMessage": "Jake" }, { "customizationCd": "LAST NAME LABEL", "customizationMessage": "Van Voorhis" }] </pre>	Special handling instructions for the item.	
customizationCd	alphanumeric	The field label identifying the customization element. Up to 15 positions.

Message Element or Attribute	Alpha/numeric	Description
customizationMessage	alphanumeric	The message, information, or instructions for the customization. Up to 45 positions.
orderLineTax <pre>"orderLineTax": [{ "taxDescription": "GST", "taxAmount": 0 }, { "taxDescription": "PST", "taxAmount": 0 }, { "taxDescription": "Tax", "taxAmount": 0.13 }],</pre>		The tax on the order line.
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 <pre>"messageHeader": { "datetime": "2013-09-27T09:24:42.019", "version": "4.5", "source": "locate", "destination": "elise" },</pre>		Basic communication information.
datetime	datetime	The date and time when the response message was generated.
version	numeric	From the <code>version</code> in the getDSOrders Request Message .
source	alphanumeric	From the <code>destination</code> in the getDSOrders Request Message .
destination	alphanumeric	From the <code>source</code> in the getDSOrders Request Message .

Message Element or Attribute	Alpha/numeric	Description
messageBody <pre> "messageBody": { "vendorCd": "10", "vendorSystemCd": "vendor", "batchSize": 1, "remaining": 0, "batchID": 1226, "responseCd": "0", "responseDescription": "" } </pre>		Basic information about the vendor and other criteria specified in the request message, and information on whether the response was successful.
vendorCd	alphanumeric	The number assigned by the retailer to identify the vendor fulfilling the drop ship order. From the <code>vendorCd</code> in the getDSOrders Request Message .
vendorSystemCd	alphanumeric	The vendor system code assigned by the retailer. From the <code>vendorSystemCd</code> in the getDSOrders Request Message .

Message Element or Attribute	Alpha/ numeric	Description
batchSize	numeric	<p>If the request <code>criteriaType</code> was:</p> <ul style="list-style-type: none"> • <code>Item</code>: The number of purchase orders included in the batch. From the <code>batchSize</code> from the request message or the number of new purchase orders including the item and not previously assigned to a batch, whichever is lower. • <code>PO</code>: Set to 1, regardless of the <code>batchSize</code> specified in the request. • <code>Batch</code>: Set to 1, regardless of the <code>batchSize</code> specified in the request and the number of purchase orders included in the response. • <code>All PO</code>: The number of purchase orders included in the batch. From the <code>batchSize</code> from the request message or the number of new purchase orders not previously assigned to a batch, whichever is lower.
remaining	numeric	<p>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.</p>
batchID	numeric	<p>The number assigned to identify the batch of purchase orders.</p>

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 on page 32 for information on other possible response codes.
responseDescription	alphanumeric	Blank if the response includes at least one purchase order. See Troubleshooting the getDSOrders response on page 32 for information on other possible response descriptions.

setDSAcknowledge Request Message

Overview: Use the setDSAcknowledge request message to acknowledge the receipt of a batch of purchase orders from Locate.

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 Locate sends them in the [getDSOrders Response Message](#), and you need to send the setDSAcknowledge message to change their status to **In Process**.

In this topic:

- [Sample setDSAcknowledge Request Message](#) on page 50
- [setDSAcknowledge Request Message Contents](#) on page 51

For more information: See:

- [Vendor Integration Overview](#) on page 6 for background
- [getDSOrders Response Message](#) on page 27

Sample setDSAcknowledge Request Message

The following sample acknowledges a batch of purchase orders.

```
{
  "messageHeader": {
    "datetime": "2013-09-25T13:42:12",
    "version": "4.5",
    "source": "abcde",
    "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	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).
version	alphanumeric	Indicates the current version of Locate. Must be set to 4.5 or higher. Required.
source	alphanumeric	The external system originating the request. Required.
destination	alphanumeric	The name of the Locate database. Must match the Account value specified in the locate-config.properties file; however, not case-sensitive. Required.

Identifying information

Example:

```
"vendorCd": "11",
  "vendorSystemCd": "vendor",
  "batchId": "1326"
}
```

Message Element or Attribute	Alpha/ numeric	Description
vendorCd	alphanumeric	A code identifying the vendor to fulfill the purchase orders. Required.
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.

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](#).

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

In this topic:

- [Sample setDSAcknowledge Response Message](#) on page 54
- [Troubleshooting the setDSAcknowledge response](#) on page 55
- [getDSAcknowledge Response Message Contents](#) on page 57

For more information: See:

- [Vendor Integration Overview](#) on page 6 for background
- [setDSAcknowledge Request Message](#) on page 49 for information on the 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": "257",
    "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.

```
{
  "messageHeader": {
    "datetime": "2013-10-03T10:11:25.262",
    "version": "4.5",
    "source": "locate",
    "destination": "abcde"
  },
  "messageBody": {
    "vendorCd": "257",
    "vendorSystemCd": "vendor",
    "responseCd": "3021",
    "responseDescription": "Request already at provided status. "
  }
}
```

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 in the Tenant table.
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.

responseCd	responseDescription	Explanation
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.
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

Message Element or Attribute	Alpha/numeric	Description
messageHeader <pre>{ "messageHeader": { "datetime": "2013-10-03T09:59:31.734", "version": "4.5", "source": "locate", "destination": "abcde" }, }</pre>		Basic communication information.
datetime	datetime	The date and time when the response message was generated.
version	numeric	From the <code>version</code> in the setDSAcknowledge Request Message .
source	alphanumeric	From the <code>destination</code> in the setDSAcknowledge Request Message .
destination	alphanumeric	From the <code>source</code> in the setDSAcknowledge Request Message .
messageBody <pre>"messageBody": { "vendorCd": "257", "vendorSystemCd": "vendor", "batchID": 1394, "responseCd": "0", "responseDescription": "Successfully Updated" }</pre>		Returns the information from the request and indicates whether the request was successful.
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 .

Message Element or Attribute	Alpha/ numeric	Description
vendorSystemCd	alphanumeric	The vendor system code assigned by the retailer. From the <code>vendorSystemCd</code> in the setDSAcknowledge Request Message .
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 on page 55 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 on page 55 for information on other possible response descriptions.

setDSShipConfirm Request Message

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

In this topic:

- [Sample setDSShipConfirm Request Message](#) on page 60
- [setDSShipConfirm Request Message Contents](#) on page 61

For more information: See:

- [Vendor Integration Overview](#) on page 6 for background
- [setDSShipConfirm Response Message](#) on page 64

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": "ABC12345",
  "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": "2013-10-03T13:42:12", "version": "4.5", "source": "ABCDE", "destination": "locate" } </pre>		
datetime	datetime	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).
version	alphanumeric	Indicates the current version of Locate. Must be set to 4.5 or higher. Required.
source	alphanumeric	The external system originating the request. Required.
destination	alphanumeric	The name of the Locate database. Must match the Account value specified in the locate-config.properties file; however, not case-sensitive. Required.

Message Element or Attribute	Alpha/ numeric	Description
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": "ABC12345", </pre>		
poNo	alphanumeric	The number identifying the purchase order shipped.
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.

Message Element or Attribute	Alpha/numeric	Description
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.
Shipment detail information Example: <pre>"detail": [{ "poLineNo": 1, "shippedQty": 2 }, { "poLineNo": 2, "shippedQty": 1 }]</pre>		Identifies the purchase order line number shipped and the shipment quantity. Can include multiple lines on a single purchase order.
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.

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 topic:

- [Sample setDSShipConfirm Response Message](#) on page 65
- [Troubleshooting the setDSShipConfirm response](#) on page 66
- [getDSShipConfirm Response Message Contents](#) on page 69

For more information: See:

- [Vendor Integration Overview](#) on page 6 for background
- [setDSShipConfirm Request Message](#) on page 59 for information on the 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": "257",
    "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": "elise"
  },
  "messageBody": {
    "vendorCd": "11",
    "vendorSystemCd": "vendor",
    "poNo": "724",
    "carrierCd": "50",
    "meterCharges": 0,
    "shipDate": "2013-10-14T13:42:12",
    "actualWeight": 0,
    "trackingNumber": "ABC1234",
    "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 in the Tenant table.
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.

responseCd	responseDescription	Explanation
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.
3031	Invalid PO (999) is not associated to vendor (11).	The poNo specified is not a valid purchase order number for the vendor.
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.

responseCd	responseDescription	Explanation
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 header-level error 3050, described below.
3050	Invalid PO Lines provided.	The poLineNo does not specify an open purchase order line.

getDSShipConfirm Response Message Contents

Message Element or Attribute	Alpha/numeric	Description
errorDetail <pre>"errorDetail": [{ "poLineNo": 1, "shippedQty": 1, "responseCd": "3044", "responseDescription": "Invalid Qty, shipped quantity cannot exceed the available to ship. " }],</pre>		Includes information if there is an error related to a purchase order line. See Response Codes and Descriptions on page 66 for more information.
poLineNo	numeric	The purchase order line number in error.
shippedQty	numeric	The shipped quantity indicated for the purchase order line number in error.
responseCd	numeric	The response code associated with the error.
responseDescription	alphanumeric	The description of the error.
messageHeader <pre>{ "messageHeader": { "datetime": "2013-10-03T09:59:31.734", "version": "4.5", "source": "locate", "destination": "abcde" }, }</pre>		Basic communication information.
datetime	datetime	The date and time when the response message was generated.
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 .

Message Element or Attribute	Alpha/ numeric	Description
messageBody <pre>"messageBody": { "vendorCd": "257", "vendorSystemCd": "vendor", "poNo": "746", "carrierCd": "50", "meterCharges": 1, "shipDate": "2013-12-14T13:42:12", "actualWeight": 1, "trackingNumber": "ABC12345", "responseCd": "0", "responseDescription": "Successfully Updated" }</pre>		Returns the information from the request and indicates whether the request was successful.
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 .
vendorSystemCd	alphanumeric	The vendor system code assigned by the retailer. From the <code>vendorSystemCd</code> in the setDSShipConfirm Request Message .
responseCd	numeric	Set to 0 if the acknowledgement was successful. See Troubleshooting the setDSShipConfirm response on page 66 for information on other possible response codes.
responseDescription	alphanumeric	Set to <code>Successfully Updated</code> if the acknowledgement was successful. See Troubleshooting the setDSShipConfirm response on page 66 for information on other possible response descriptions.