# Oracle® Retail Enterprise Inventory Cloud Service

## Inbound and Outbound Integration Guide

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Oracle Retail Enterprise Inventory Cloud Service Inbound and Outbound Implementation Guide

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# Preface

This document describes the administration tasks for Oracle Retail Enterprise Inventory Cloud Service.

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This document is intended for administrators.

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## Related Documents

For more information, see the following documents in the Oracle Retail Store Inventory Operations Cloud Services Release documentation set:

- *Oracle Retail Store Inventory Operations Cloud Services Release Notes*
- *Oracle Retail Store Inventory Operations Cloud Services Implementation Guide*
- *Oracle Retail Store Inventory Operations Cloud Services Data Model*
- *Oracle Retail Enterprise Inventory Cloud Service Administration Guide*
- *Oracle Retail Enterprise Inventory Cloud Service Security Guide*
- *Oracle Retail Enterprise Inventory Cloud Service User Guide*
- *Oracle Retail Store Operations Cloud Service User Guide*
- *Oracle Retail Store Operations Cloud Service Mobile Guide*

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# Conventions

The following text conventions are used in this document:

| Convention | Meaning |
|---|---|
| **boldface** | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary. |
| *italic* | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. |
| `monospace` | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |


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1

# Introduction

This guide describes integration through RIB, batches, web services and file transfer services.

- Retail Home Integration
- Retail Integration Cloud Service (RICS) - based Integration
- REST Web Services
- Sales Integration
- Outbound Integration — Including:
  - Integration with Customer Order System
  - Integration with Manifesting Systems
  - Integration for Notifications
  - Integration for Sales Forecast
  - Integration for Ticket Printing
- File Transfer Services
- SOAP Web Services


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2

# Retail Home Integration

EICS now supports following integration scenarios with Retail Home:

- Launch SIOCS web client from Retail Home
- Launch SIOCS favorites from Retail Home
- Display a tile report for items that are out of stock on shop floor
- Display a tile report for stock counts that are pending authorization
- Launch detailed operational views in SIOCS web client from related tile reports in Retail Home

## Launch SIOCS from Retail Home

Launching SIOCS client requires an entry to be made under the application navigator section of Retail Home. It enables the user to launch SIOCS web client in a new browser tab from within Retail Home. Please refer to *Oracle Retail Home Administration Guide* for information on how to work with application navigator in Retail Home.

The SIOCS application configuration should look like this:


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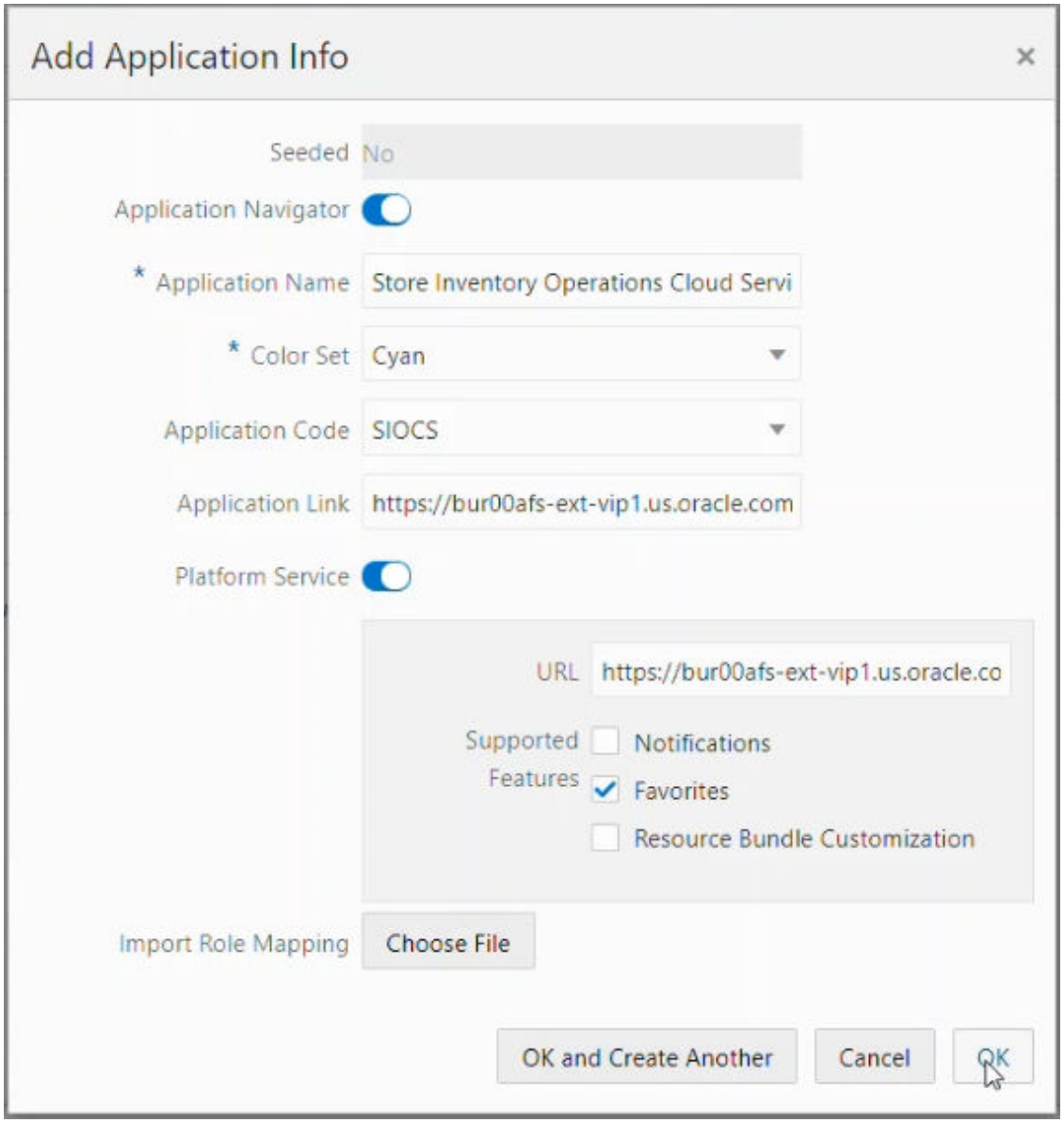
**Figure 2-1 Add Application Info**




- **Seeded**: Disabled and set to No.
- **Application Navigator**: Enable it to launch SIOCS client from Retail Home.
- **Application Name**: The name of the application that is, Store Inventory Operations Cloud.
- **Color Set**: Any color that you want to allocate to SIOCS.
- **Application Code**: Select SIOCS from the drop down.
- **Application Link**: The URL of SIOCS web client.
- **Platform Service**: Enable it to use Favorites feature.
  - **URL**: The base URL of the platform services. The URL would be of the form https://<SIOCS-HOST>/RetailAppsPlatformServices
    <SIOCS-HOST> is the same host in Application Link.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- **Supported Features**: Check only the favorites feature.

The user needs to be part of RETAIL_HOME_ADMIN security group in order to access Application Navigator in Retail Home.

# Tile Reports

EICS supports following two types of two metric reports:

- Shop Floor Out of Stock Items
- Stock Counts - Ready to Authorize

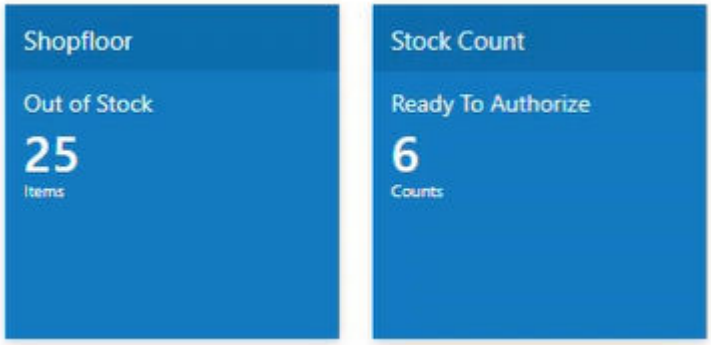
Adding an application navigator entry for SIOCS will automatically configure EICS tiles on Retail Home.

The data seed features do the following:

1. Creates a custom report for EICS tiles on Retail Home.
2. Creates two tiles from the custom report and maps them to retail_home_users IDCS or OCI IAM application role.
3. The data seed features will also configure tile states for the two tiles and hook them up with EICS end points.

After all the configuration, you should be able to see EICS tiles on the dashboard. They should look like the ones below:

**Figure 2-2 Example EICS Tiles**




# EICS Endpoints

EICS exposes following two endpoints:

## Shop Floor Out of Stock Items

This endpoint can be used as a data source for **Shop floor Out of Stock** tile state.

The response contains information on number of items that are out of stock across all the stores that are accessible to the user.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If the percentage of out of stock items to total items is greater than the **Shopfloor Out of Stock Items Critical Percentage** system configuration, EICS marks the response as important which displays a '!' mark next to the number on the tile report.

**Table 2-1 Shop Floor Out of Stock**

| Endpoint | Operational View |
|---|---|
| https://<eics_external_load_balancer_address>/<CUST_ENV>/siocs-client-services/internal/rhreports/outofstock/shopfloor/tile | Shopfloor Out of Stock |

## Stock Counts - Ready to Authorize

This endpoint can be used as a data source for **Stock Count - Ready to Authorize** tile state.

The response contains information on number of stock counts that are pending authorization across all stores that are accessible to the user.

**Table 2-2 Stock Counts - Ready to Authorize**

| Endpoint | Operational View |
|---|---|
| https://<eics_external_load_balancer_address>/<CUST_ENV>/siocs-client-services/internal/rhreports/readytoauthorize/tile | Stock Count - Ready To Authorize |

The response payloads of both these endpoints confirm to the two metric payload specifications of Retail Home.

User should be a part of retail_home_users IDCS or OCI IAM application role to access these endpoints.

For convenience, EICS also provides a RETAIL HOME security role that captures security permissions required to access these operational views. The user still needs appropriate functional area permissions to navigate to transaction detail screens.

# SIOCS Operational Views

EICS has added following operational views that can be hooked with related tiles:

- **Shopfloor Out of Stock Items**

  This view gives a store and item level breakdown of the information that is displayed on the tile. The user can look at item level records for each store and navigate to the item detail screen for any store/item combination provided he or she has the required permissions.

  This view is available under Operations / Operational Views / Shopfloor Out of Stock menu.

- **Stock Count - Ready to Authorize**

  This view gives a store and stock count level breakdown of the information that is displayed on the tile. The user can look at stock count level records for each store and navigate to the stock count detail for any store/count combination provided he or she has the required permissions.

  This view is available under Operations / Operational Views / Stock Count / Ready to Authorize menu.


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## Launch SIOCS Operational Views from Tile Report

Launching SIOCS operational views from related tile report requires the tile report to be configured with the URL of the related operational view. Once that is done, clicking on tile report header should open the related EICS operational view in a new browser tab.

# Subscription Usage Batch

EICS has added a new batch to extract subscription usage for EICS and SOCS respectively during the subscription period. These extracted metrics are pushed to platform services from where Retail Home displays these on the Application Dashboard screen.

This is a restricted batch which by default is scheduled to run every month. The schedule can only be updated by Oracle.

It can also be run as an Adhoc batch from EICS / Admin / Technical Maintenance / Job Admin / Adhoc Job.


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3

# Retail Integration Cloud Service (RICS) - based Integration


- Security Considerations
- Customer Orders
- Picking
- Deliveries
- Reverse Picking
- Multi Leg
- RIB Payloads
- Purchase Orders and Vendor Deliveries
- Inventory Adjustments
- Items
- Stock Counts
- Transfers
- Transfer Creation
- Transfer Messages
- Transfer Shipment Creation
- Transfer Receiving
- Transfer Doc
- Transfer Shipment
- Transfer Receiving
- Vendor Return


## Security Considerations

Customer Administration User must create an IDCS user with the required RIB admin group to access the publisher endpoints.

- ribAdminGroup – For Production environment
- ribAdminGroup_preprod – For Dev/Stage/UAT/test environments

The same user credentials must then be configured on the Credential Administration screen. Refer to Chapter 6 - Technical Maintenance Screens / Credential Administration section for more details.



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# Customer Orders

- Customer Order Create is used for Customer Orders that are a type of Web Order integrated through a message (FulfilOrdDesc). These integrations are used for the customer order from the Order Management System (OMS).
- The Customer Order Create failure message (FulfilOrdCfmDesc) is a message that will be sent out to external system when we get a Customer Order that comes into the system through the RIB and fails due to validation issues such as an invalid item. The purpose of the create failure is so other systems will know it has failed when it came in and that it is not being processed.
- The Stock Order Status message (SOStatusDesc) will be sent out with an SI upon reserving inventory for the customer order.

# Picking

- A Stock Order Status message (SOStatusDesc) is sent out with a type of SI upon reserving inventory. This happens when more is picked than what was on the order due to tolerances. This could also occur when a substitute item is added during the picking process.
- The Stock Order Status message (SOStatusDesc) with a type of SD will be published to un-reserve the original items inventory when a substitute item has been added during picking.
- A Stock Order status message (SOStatusDesc) is sent out with a type of PP when picking is completed.
- Item Substitutes are sent to EICS from the merchandising system through the item message (ItemDesc).

# Deliveries

- An ASN Out message (ASNOutDesc) is sent out upon dispatching of the Delivery. This will be done for pick-ups and for shipments.
- The Stock Order Status message (SOStatusDesc) with a type of PP will be published for the pick quantity in the scenario that more was delivered than what was picked.
- The Stock Order Status message (SOStatusDesc) with a type of SI will be published for the reserved quantity. This will occur when more was delivered than what was reserved. This can happen when picking was not required, the reservation occurs upon receipt of a delivery, and the full amount had not been received, therefore not reserved.

# Reverse Picking

- Customer Order Cancellations (FulfilOrdRef) will come into EICS from external system such as an OMS through the RIB. This service will perform all the validations to determine if it should create a reverse pick and whether or not that reverse pick should be auto completed.
- Customer Order Cancellation Confirmation (FulfilOrdRef) is a message to send to OMS upon completing of the system-generated reverse pick.


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- Stock Order Status message (SOStatusDesc) with a type of SD will be published for the reserved quantity to un-reserve the inventory for the reverse pick for system-generated picks.
- Stock Order Status message (SOStatusDesc) with a type of PU will be published for the reverse picked quantity to un-pick the inventory for system-generated picks.

# Multi Leg

The following integrations are in addition to the standard integrations that already exist such as receipt message, and so on:

- The Stock Order Status message (SOStatusDesc) with a type of SI will be published for the reserved quantity.
- The Stock Order Status message (SOStatusDesc) with type of PP will be published for the picked quantity.

# RIB Payloads

RIB payloads are used to communicate information to external systems through RIB Integration.

| RIB Payload | Description |
|---|---|
| FulfilOrdDesc | RIB payload that contains information about a new web order type of fulfillment order to be created in. |
| FulfilOrdCfmDesc | RIB payload sent from EICS that contains fulfillment order information when that order creating in EICS failed |
| FulfilOrdRef | RIB payload that contains information about a fulfillment order cancelation. It is sent to EICS to convey a cancelation request and sent from EICS to convey actual cancellations. |
| SOStatusDesc | Sent from EICS to convey changes in item status for a specific fulfillment order. Such changes of status include (un)reservation and (un)picking. |
| ASNOutDesc | Sent from EICS to convey a delivery for specified fulfillment order. |

# Purchase Orders and Vendor Deliveries

MERCHANDISING publishes the Purchase Orders created for the direct store deliveries using RIB messages. EICS subscribes to these messages and stores them in the EICS database to enable receipt against Purchase Orders.

MERCHANDISING publishes the unit cost of the item at the item/supplier/country level for EICS to use in the receiving process.

EICS publishes the receipts done against the Purchase Order to the merchandising system (Receiving message).

EICS publishes the DSD receipts created in EICS without a Purchase Order to the merchandising system (DSDReceipts and DSD Deals messages).

EICS publishes the receiver unit adjustment done for the deliveries that are already confirmed (receiving message).


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EICS is also capable of subscribing to the vendor EDI ASNs through RIB using the ASN In message format.

RIB payloads are used to communicate information from EICS to external systems and from external system to EICS through RIB Integration.

| RIB Payload (Subscriber) | Description |
|---|---|
| PORef | RIB payload that contains reference level information of a purchase order.This payload is used for removal of purchase orders. |
| PODesc | RIB payload that contains detailed information of a purchase order.This payload is used for creation and modification of purchase orders. |
| ASNInRef | RIB payload that contains reference level information of an ASN. This payload is used for removal of an ASN. |
| ASNInDesc | RIB payload that contains detailed information about the ASN. This payload is used for creation of a direct delivery (document type= 'P') or a warehouse delivery (document type= 'D').<br>EICS consumes this payload from warehouse when source and/or destination for ASN is a warehouse system. |

| RIB Payload | Description |
|---|---|
| ReceiptDesc | RIB payload that contains detailed information of the direct delivery receipt. This is published when the purchase order is not null.<br>EICS also consumes this payload for warehouse receiving. |
| DSDReceiptDesc | RIB payload that contains detailed information of the direct delivery receipt. This is published when the purchase order is null. |
| SOStatusDesc | RIB payload sent from EICS to convey changes in item status for a specific fulfillment order.<br>EICS also consumes this payload from warehouse for stock movements originating at the warehouse. |
| InvAdjustDesc | RIB payload that contains information about destination of the adjustment and an InvAdjustDtl. |

# Inventory Adjustments

Inventory adjustments integrate to MERCHANDISING at the item level using the RIB. EICS creates the adjustments and groups them together by a header with multiple items, but for integration purposes they are published out at an item level.

Inventory adjustments are published for all manual and external system generated adjustments where the Publish indicator for the reason code is checked. Adjustments are also published for other types of transactions in EICS where the merchandise system is expecting an adjustment for stock on hand updates, for example, receiving a DSD with damaged goods. An adjustment is created behind the scenes only for publishing purposes to notify the merchandising system to move the goods into the unavailable bucket. These system type adjustments are not considered an adjustment within EICS; however, they are published as such for integration purposes.

EICS subscribes to inventory adjustment messages from warehouse systems and updates the warehouse inventory buckets in EICS.

RIB payloads are used to communicate to external systems through RIB Integration.

The following table shows the list of RIB Payloads available for inventory adjustments.


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| RIB Payload | Description |
|---|---|
| InvAdjustDesc | RIB payload that contains information about destination of the adjustment and an InvAdjustDtl. |
| InvAdjustDtl | Contains detailed information about the item adjustment. |

# Items

Items come to EICS from a merchandising system through the RIB (items, item loc messages). EICS also gets information about items associated to a supplier through the RIB. Extended attributes are not received or sent on RIB payloads.

| RIB Payload | Description |
|---|---|
| ItemDesc | This payload contains information about an item. It contains a wide variety of information about the item including suppliers, UPCs, ticketing information, image information, UDAs, and related items |
| ItemLocDesc | This payload contains information about an item at a specific location. |
| ItemSupDesc | This payload contains information about an item for a specific supplier. |
| ItemSupCtyDesc | This payload contains information about an item for a specific supplier within a specific country. |

# Stock Counts

Stock counts generate inventory adjustment when completed.

RIB payloads are used to communicate to external systems through RIB.

| RIB Payload | Description |
|---|---|
| InvAdjustDesc | RIB payload that contains information about destination of the adjustment and an InvAdjustDtl. |
| InvAdjustDtl | Contains detailed information about the item adjustment. |

EICS does not integrate using a web service to any other Oracle Retail products for stock counts.

# Transfers

The Transfer Shipping allows for creating shipment, dispatching shipment, canceling shipment, creating container, approving container, adjusting container, and canceling the container.

The Transfer Receiving dialog allows for confirming receipt, copying misdirected container, receiving container and detailed receiving.

This section covers creating transfer documents which are then included in a transfer shipment and dispatched to another store, warehouse, or finisher.

# Transfer Creation

Transfer documents can be created in the following ways:


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- Requesting store can create a transfer request.
- Sending store can initiate a transfer by creating a transfer.
- Merchandising can create a transfer request.

Each transfer document will have one or more items.

# Transfer Messages

EICS will publish messages to Merchandising when the following happen:

- Transfer is rejected.
- Transfer is approved.
- Transfer quantity is updated from the shipment.

# Transfer Shipment Creation

Transfer Shipment describes the containers and the items for the shipment taking place. The shipment may be for one or more transfer documents if the transfer is going to the same destination. Dispatching a shipment will update the transfer document.

The user can create a shipment without referencing existing transfers or can create a new transfer on fly (Ad hoc transfer) based on the shipment information.

# Transfer Receiving

This transaction captures a delivery that took place from a warehouse, store, or finisher to the store receiving the delivery. It describes the containers and the items of the delivery that should be received by the store. Receiving a container of the delivery will update the transfer document.


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**Figure 3-1 Transfer Request Flow**

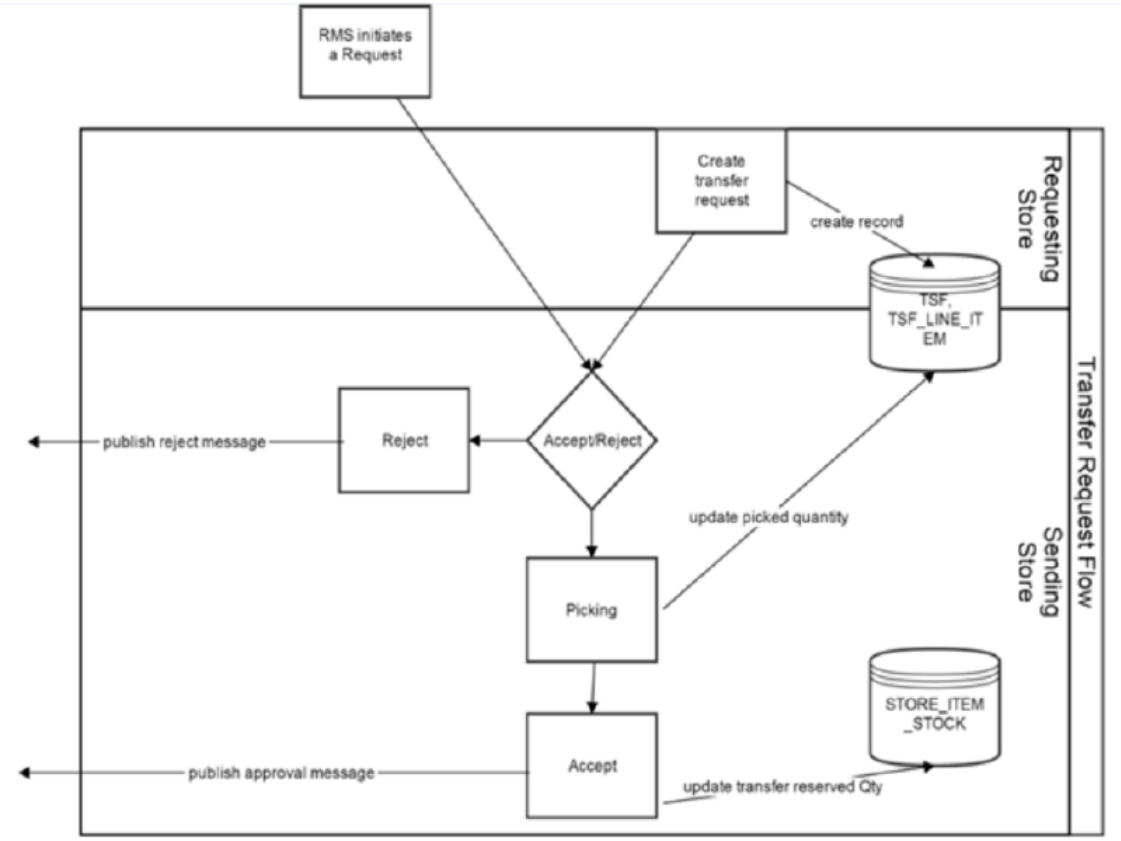


**Figure 3-2 Transfer Create Flow**

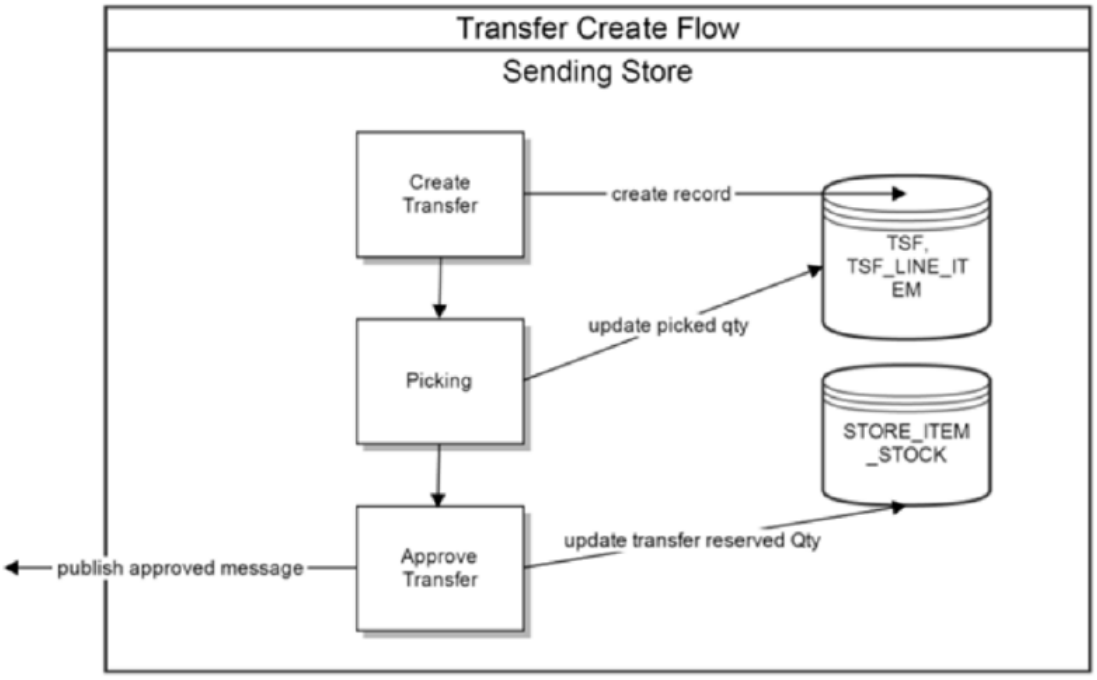



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**Figure 3-3 Transfer Shipment Creation Flow**

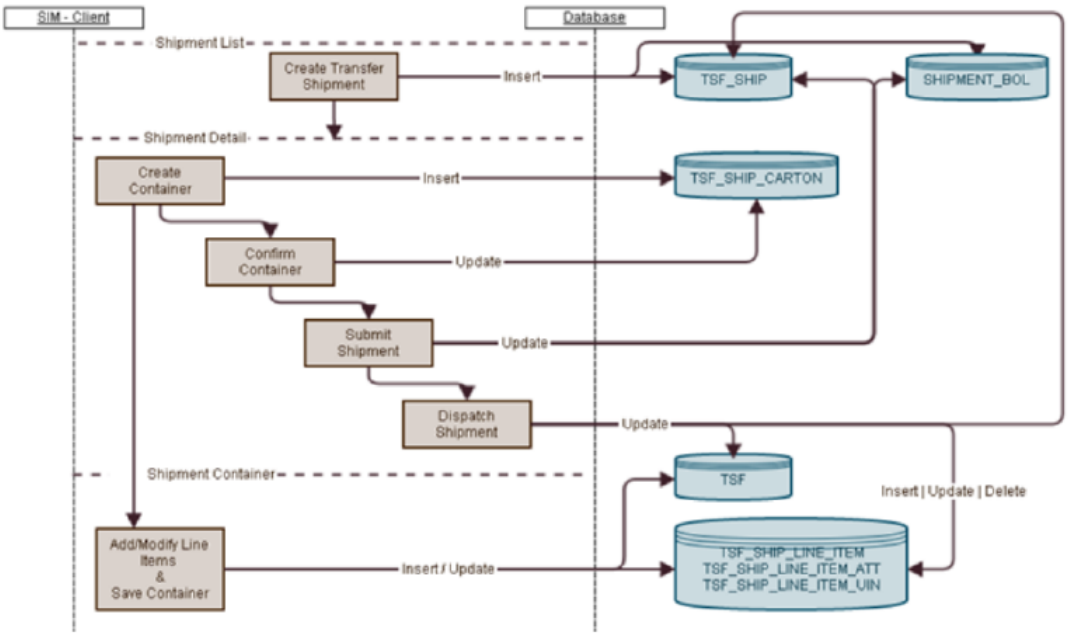



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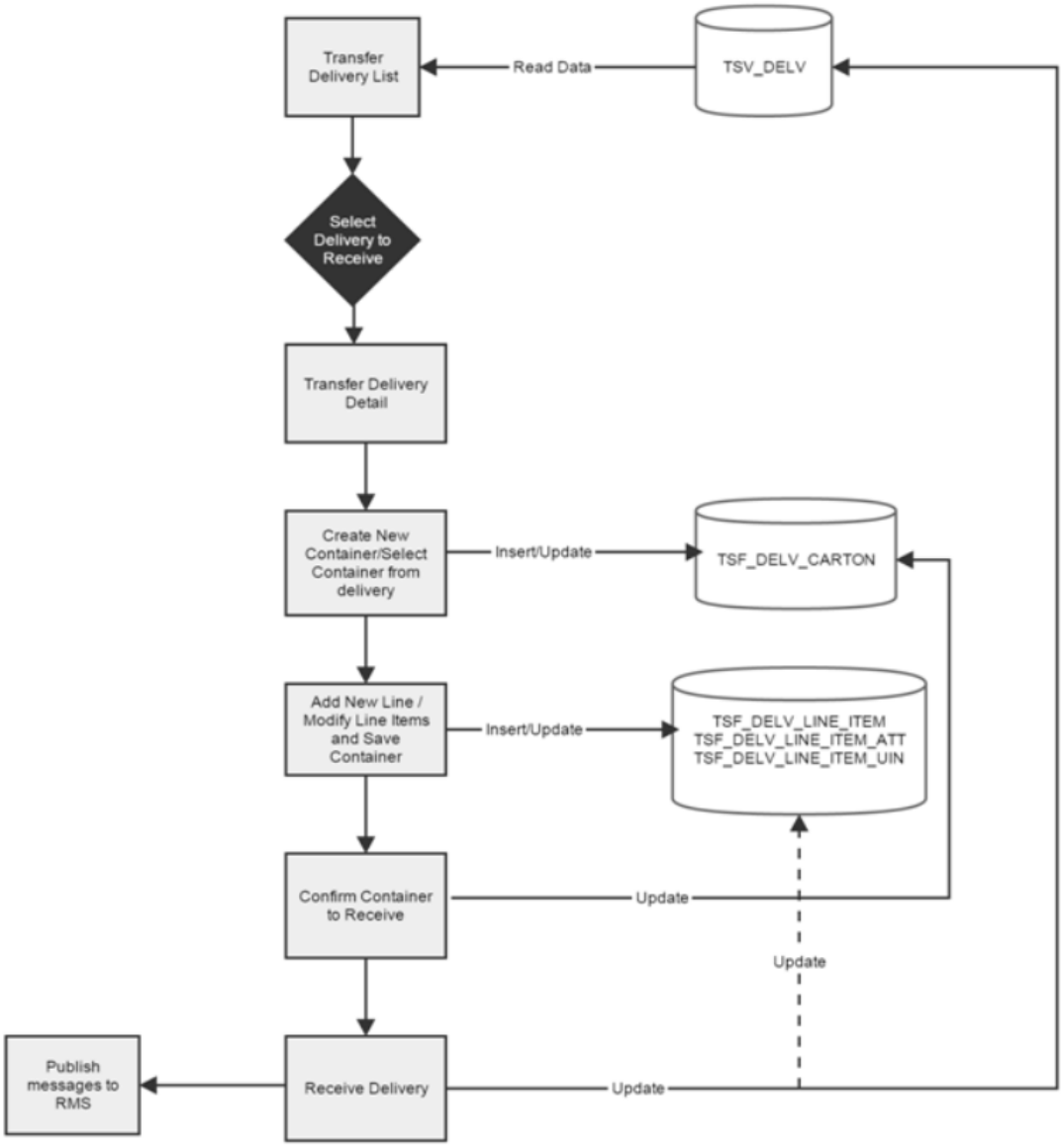
**Figure 3-4 Transfer Receiving Process Flow**




# Transfer Doc

| RIB Payload | Description |
|---|---|
| SODesc | This message is received from external systems when a stock order/ transfer has been created |
| SOStatusDesc | This message is received from external systems when a stock order/ transfer has been modified. |
| SORef | This message is received from external systems when a stock order/ transfer has been deleted. |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# Transfer Shipment

| RIB Payload | Description |
|---|---|
| ASNOutDesc | This message is sent to external systems when the transfer shipment is dispatched. |
| ManifestCloseVo | This message is received from an external system to indicate physical shipment has been accepted. This will attempt to auto-close the transfer shipment if all items are shipped. |
| ManifestDesc | This message is sent to an external system when manifesting is activated, and a transfer shipping container is confirmed. |
| ShipInfoDesc | This message is sent to an external system when pre-shipment notifications are active, and a transfer shipment is either submitted or dispatched (without previously being submitted). |
| SOStatusDesc | This message is sent to an external system when a transfer shipment container is saved with shipping quantities. It is also sent when a transfer shipment container is canceled but had shipping quantities. Increase and decrease of quantities is indicated by the SI or SD codes. |

# Transfer Receiving

| RIB Payload | Description |
|---|---|
| ASNInDesc | Sent from external system to indicate a delivery is tracking place. It creates a transfer delivery record within EICS when a store location is involved. |
| ReceiptDesc | Sent to external system when a transfer delivery is confirmed.<br>Sent from external warehouse system when a transfer delivery is received at the warehouse. |

# Vendor Return

## RTV Creation

RTVs can only be created by a request from MERCHANDISING:

Each vendor return will have one or more items.

## RTV Shipment

Each RTV shipment will tie back to a single vendor return document.

RTV shipment can be created in two ways:

- From an externally initiated approved vendor return document.
- Creation of ad hoc vendor return shipment which will create an approved vendor return on the fly.

Each vendor return shipment will have one or more containers; each container in turn will have one or more items.


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EICS may publish messages when the following happens:

- RTV shipment container is updated, and saved (Return To Vendor Publish)
- RTV shipment is cancelled or rejected (Return To Vendor Publish)
- RTV shipment is dispatched (Return to Vendor Publish and Ship Info Desc Publish, if dispatched without submitting)
- RTV shipment is submitted (Ship Info Desc Publish)
- RTV shipment container is confirmed (RTV manifesting, if configured)
- RTV shipment is submitted (Pre-shipment notification, if configured)

**Figure 3-5 RTV Creation Flow**

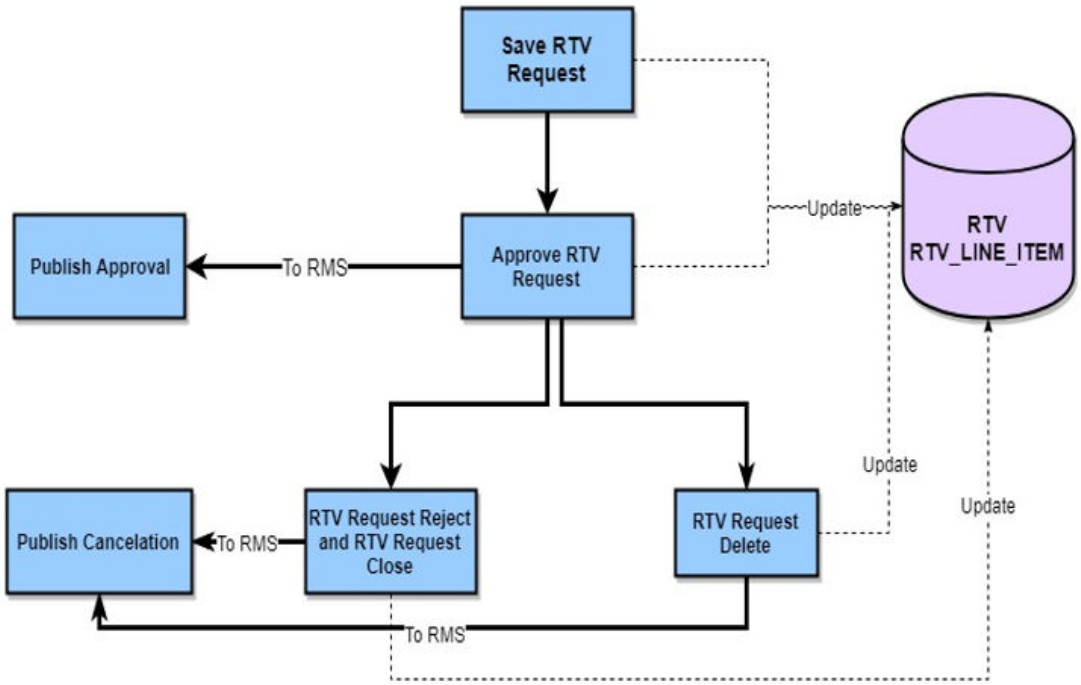



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**Figure 3-6 RTV Shipment Flow**

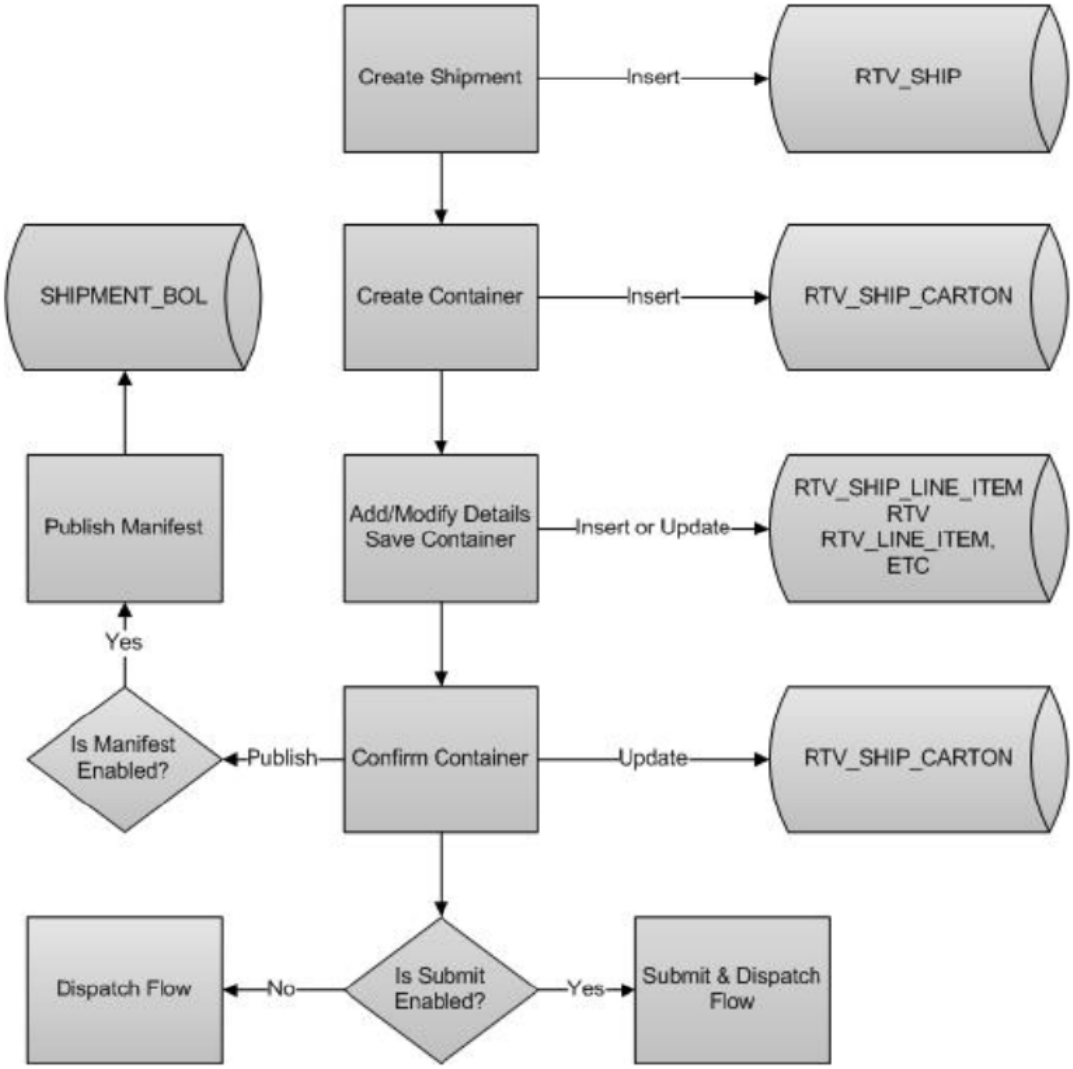



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**Figure 3-7 RTV Shipment Submit and Dispatch Flow**

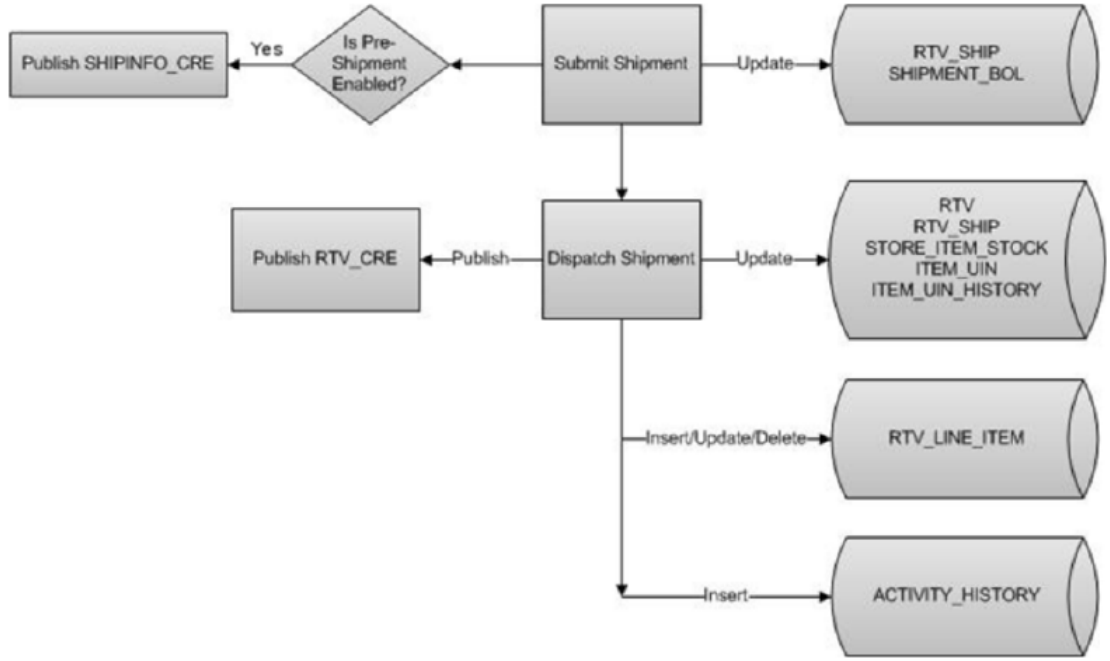
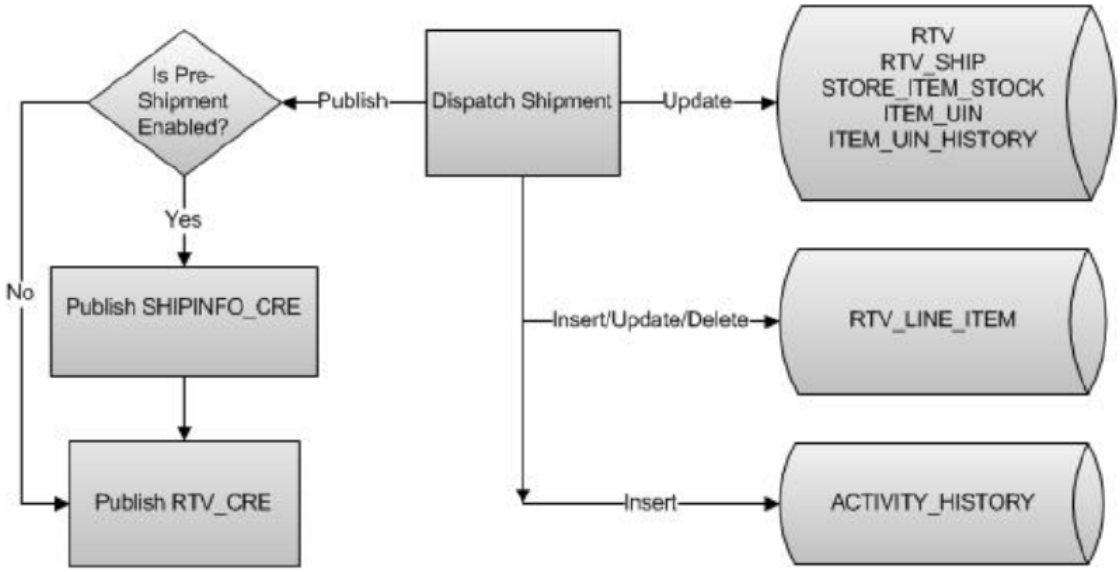



**Figure 3-8 RTV Shipment Dispatch Flow**




The following payloads are used in RTV operations.

| RIB Payload | Description |
|---|---|
| RTVReqDesc | This payload is sent from an external system to indicate a request for a vendor return. It creates or updates a vendor return document within EICS. It contains a series of RTVReqDtl. |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| RIB Payload | Description |
|---|---|
| RTVReqDtl | This payload contains the detailed information about the items on the vendor return. |
| RTVReqRef | This payload contains reference information about a vendor return when an external system wishes to attempt to cancel the return. |
| RTVDesc | This payload is sent from EICS to external systems when an RTV shipment is dispatched.<br>This payload is sent from external warehouse system for vendor returns originating at warehouse. |


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4

# REST Web Services

Web services are intended for integration to allow a system using those services to control the flow and processing of data within EICS. There are multiple types of data involved in this integration. Data that is managed by other systems and needs to get into our system, but that EICS does not manage. This includes such concepts as item, stores, and point-of-sale transaction. Data that is managed by EICS includes such ideas as inventory adjustments, transfers, deliveries, and stock counts. Some services will provide ability for external data to get into EICS, some are intended to be used real time such as approving, picking, and dispatching shipments.


- REST WEB Services Security Considerations
- REST WEB Services Basic Design Principles
- Hypertext Transfer Protocol Status Codes
- JSON Error Element and Error Codes
- Integration Error Codes
- Error Code Data Elements


## REST WEB Services Security Considerations

The REST web services provided by EICS are secured using OAuth2 tokens and require SSL.

The supported OAuth2 security requires a token requested for the *client_credentials* grant with the EICS integration scope (for example, *rgbu:siocs:integration*).

Note that the scope name differs for each environment.

### REST Web Service OAuth2 Requests

This section will describe how to call an EICS web service using the OAuth2 protocol. The target audience is developers who are looking to write code that calls the web service.

### Using the OAuth Protocol

The OAuth protocol is relatively straightforward:

- Get an access token from the authentication provider
- Pass the access token along with the web service request

In this case, the authentication provider is Oracle Identity Cloud Service (IDCS). Every customer who purchases a subscription to EICS gets a subscription to IDCS as part of their purchase.

### Obtaining a Token

REST APIs use OAuth2.0 for authorization.

To generate a token from IDCS, an IDCS application client will need to be created for you to use.



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The Customer Administration users must create their own client credential IDCS application using the Oracle Retail Home Cloud Service. For additional details, refer to Oracle® Retail Home Administration Guide- Chapter: Oauth Application Configuration chapter – Section: Creating OAuth Client Applications.

The App name and scope that should be used for IDCS application creation should be environment specific using the format :

App Name- RGBU_SIOCS_<ENV>_EICS_INT

Scope 1 - rgbu:siocs:integration-<ENV>

Scope 2 - rgbu:siocs:security-<ENV>

Please note that the integration scope is the default and other scopes are needed when specified.

**Example:**

App Name- RGBU_SIOCS_STG1_ EICS_INT

Scope 1 - rgbu:siocs:integration-STG1

Scope 2 - rgbu:siocs:security-STG1

You will need the following information about the IDCS application client to request a token:

- IDCS URL
- Client Id
- Client Secret
- Scope Name

> **Note**
>
> the application client must be assigned the scope from the EICS IDCS cloud service in order to request the token. This assignment is performed when the application client is created.

The scope name will differ for each environment. Please ensure the correct value is used for your environment.

To generate a token, you will need to invoke the appropriate IDCS REST API. The curl command in Linux that describes the POST that will return a token is as follows:

```
curl -H 'Authorization: Basic <base64(clientId:clientSecret)>' -H 'Content-Type:
application/x-www-form-urlencoded;charset=UTF-8' --request POST <IDCS URL>/
oauth2/v1/token -d 'grant_type=client_credentials&scope=<EICS Scope>'
```

In Windows, use double-quotes, as follows:

```
curl -H "Authorization: Basic <base64(clientId:clientSecret)>" -H "Content-Type:
application/x-www-form-urlencoded;charset=UTF-8" --request POST <IDCS URL>/
oauth2/v1/token -d "grant_type=client_credentials&scope=<EICS Scope>"
```

This is a standard REST POST, with the following details:

- <IDCS URL> is the IDCS URL the retailer provided


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- Include the Client Id and Client Secret as a Basic Authentication header
- Specify the Content Type as application/x-www-form-urlencoded;charset=UTF-8
- Specify the body as grant_type=client_credentials&scope=<EICS Scope>

The service will respond with the following JSON message:

{

"access_token": "<TOKEN>",

"token_type": "Bearer",

"expires_in": 3600

}

Note that the response will return how long the token is valid for. You should reuse the same token until it expires in order to minimize calls to IDCS to get a token.

If the token request fails, you will receive the following JSON response:

{

"error":"<error>",

"error_description":"<error description>",

"ecid":"u….."

}

The most common errors are:

- **Invalid Client**. This means that the client information you send in is not correct. The error description will expand on the reason:
  - **Client Authentication Failed** means that the client is valid, but the client secret is incorrect.
  - **Invalid OAuth Client <CLIENT>** means that the client id is not valid, and the invalid client will be listed in the error message.
- **Invalid Request**. Some part of the inbound request is not valid. The error description is usually descriptive about what the actual error condition is

**Calling the EICS Web Service**

To invoke the web service with an OAuth2 token, you must add an **Authorization** header to the request. The value of the Authorization header must be **Bearer <token>**, that is:

- The word **Bearer**
- A space
- A valid token

For a REST service call, the request might look something like this:

```
curl -X POST -H 'Content-Type: application/json' -H 'Authorization: Bearer
<TOKEN>' -i https://CloudServiceURL --data '{PAYLOAD}'
```

Remember that the token will expire after a specific amount time, and to be more efficient you should always use a token so long as it's valid. It is your responsibility to make sure that you are keeping track of whether the token is still valid. Your pattern should be:


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- Check to see if you have a valid token that has not expired.
- If not, call to IDCS and get a new token. Store it and its expiration time.
- Send the request into the web service with the token in the **Authorization** header as a **Bearer** token.

# REST WEB Services Basic Design Principles


- Requests and Responses
- API Versioning
- Content-Type
- JSON Validation
- Synchronous vs Asynchronous
- Configured System Options In EICS
- External vs Internal Attributes
- Dates In Content
- Links In Content


## Requests and Responses

When making requests and processing responses from REST web services it is important for the client to handle headers correctly.

The client should always use *Accept* for the appropriate content type when making requests.

The client should always check the response status code and *Content-Type* header before processing a response body.

When reading a payload from the response body, the *Content-Length* header must be used safely and securely along with the *Content-Type*.

This is important even for error responses. It is possible for errors to occur outside of the REST API layer, which may produce different content for the error. In these cases, it is common to get text or HTML content for the response body.

## API Versioning

*Accept-Version*

The REST end points have an optional API versioning feature allowing the client to specify an API version to be accepted.

This may be used by the client to ensure that no calls may be made to a web service that uses an incorrect version number.

For example: *Accept-Version: 22.1.301*

If the web service does not support this API version, then the server will produce a *400 Bad Request* error response.

## Content-Type

*application/json*


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The content type of both REST input and returned output is *application/json*.

In the case that no content is included, a content type may not be assigned.

When handling REST service responses, the client must always check the returned *Content-Type* and *Content-Length* before processing the payload.

## JSON Validation

When consuming a REST service end point that requires a request payload as JSON, the client is responsible for verifying that the JSON is valid. If invalid data is sent in a request, there may be a server error processing the JSON or it may ignore some fields if the JSON is valid but does not map correctly to the API payload definition.

Always make sure that the client sends valid JSON that is designed to satisfy the API payload definition.

## Synchronous vs Asynchronous

Each service API will be defined as synchronous or asynchronous. Both perform JSON validation as described above. If the API is synchronous, the remaining data validation and live updating of the data will take place immediately and the call will be rejected if any business errors occur. If the API is asynchronous, the data is set aside to be processed later and the REST service is successfully returned noting that the data has been accepted. In the case of asynchronous processing, business error and failed data recovery is monitored and the dealt with outside of the REST web service.

## Online Documentation

EICS has exposed Swagger JSON files for customers to download and use with the Swagger application as online documentation. The table below contains the files name for access. The file can be retrieved from on the server at:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/public/api/
filename.json
```

| |
|---|
| activitylock |
| address |
| adhoccount |
| allocation |
| batch |
| differentiator |
| finisher |
| fts |
| fulfillmentorder |
| fulfillmentorderdelivery |
| fulfillmentorderpick |
| fulfillmentorderreversepick |
| inventoryadjustment |
| item |


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itembasket
iteminquiry
iteminventory
itemisn
itemprice
itemuda
itemuin
manifest
notification
postransaction
productarea
productgroup
productgroupschedule
purchaseorder
reasoncode
rfid
security
shelfadjustment
shelfreplenishment
shelfreplenishmentgap
shipping
stockcount
store
storeitem
storeorder
storesequence
supplier
ticket
transfer
transferdelivery
transfershipment
translation
vendordelivery
vendorreturn
vendorshipment
warehouse

For external APIs that must be implemented by the customer for EICS to access, the files can be accessed on the server at:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/public/api-external/file.json
```


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| |
|---|
| fulfillmentorderaddress-external |
| fulfillmentorderstatus-external |
| inventoryadjustment-external |
| manifest-external |
| notification-external |
| preshipmentnotice-external |
| shipment-external |
| stockcountschedule-external |
| storeorder-external |
| ticketprint-external |
| transferdeliverreceipt-external |
| transferstatus-external |
| vendordeliveryreceipt-external |
| vendorreturn-external |

## Configured System Options In EICS

Web services apply system configuration to the request that are coming in through a web service but assumes that all in-put validation that requires user interaction to confirm has been completed by the third party system prior to accessing the service. It operates as if the user confirmed any activity. However, if a system option is a fixed restriction that does not require user interaction, and the input fails the restriction, this is always considered an error.

Examples of configurations being applied include:

Shipping inventory when inventory is less than 0 can be allowed by a user of EICS. The web services assumes that the application accessing the service did prompt the user or that their business always allows the user to this activity.

Adding a non-ranged item requires both a system configuration option to be enabled and the user to confirm the addition of the item. If the system configuration does not allow it, the web service will block the transaction and return an error (un-less processing asynchronously). If the system configuration does allow adding non-ranged items, it will automatically assume that a user confirmed this addition and processing will allow the addition of the item.

Allowing Receiver Unit Adjustments is dependent on a period of time. If a receiver unit adjustment were to come into EICS after that period of time, it would automatically be rejected, and the web service would return an error regardless of presentation or confirmation of user done by the external system.

## External vs Internal Attributes

EICS web services are EICS centric and track information from an internal application point-of-view. This has ramifications on three types of data: identifiers, dates, and users.

Almost all paths and information will contain an identifier. In almost all cases, this will be an EICS internal identifier generated within our system. If external identifiers also exist for the date, they will be defined as such in the information. For example, you might encounter transferId and externalTransferId as attributes. In some cases, an API only takes an internal identifier, and you may need to use lookup APIs to retrieve an internal identifier using an external identifier as search criteria.


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Timestamps are captured at the time an event occurs within EICS as part of EICS's internal tracking and state management. For example, we capture the timestamp when a shipment is created, last updated, and when it is dispatched. These timestamps occur at the time this occurred within EICS. When a REST service is called to create a transaction, such as a shipment, the create timestamp of the shipment will be the moment that service is called. If the shipment is dispatched using the web service, the dispatch date will be the moment that service is called. So if an external system dispatched a shipment two days earlier, and is just now calling the web service, it will not capture the external dispatch time. In some places, you will encounter a date that can be entered as part of the input information (for example, an externalDispatchDate, or simple a transactionTimestamp). If it is part of the input information, then it will be captured as that attribute defined in the API.

The user responsible for actions is often captured as part of transaction information with EICS. Some examples might be the user that created the data, the user the last updated it, or perhaps the user that approved it. In these cases, the user is considered an internal user as is assigned the current session user at the time the activity takes place. When accessing the REST service, the user will be fiwed as an “External User” to indicate it came from an external system, and not the user that manipulated the information in an external system. If external users are to be captured by the data, there will be independent attribute fields such as externalCreateUser that capture the identity of a user in an external system.

## Activity Locking

An activity lock is a record indicating that a user is currently actively working on a transaction. When using REST services, the accessing application is responsible for the management of activity locks. The Activity Lock REST service allows the finding, creating, and deleting of activity locks.

Developers should create a lock on transactional information prior to performing updating calls and delete those locks when the update is finished. For example, to update Inventory Adjustment 123, the first step is to create an activity lock for Inventory Adjustment 123 using the Activity Lock REST service. The next step is to update the inventory adjustment. Once the inventory adjustment is finished, you can then delete the activity lock for Inventory Adjustment 123. Note that an activity lock is not obtained, then an error may occur when updating the transaction indicating that the update can not happen due to a user currently holding the lock.

An alternate method to handling activity locks is to assume that REST service calls should override any current work a user is performing. Under this design, a delete lock call can be issued just prior to the update. For example, for Inventory Adjustment 123, you can simply delete locks for that transaction just prior to calling the update and this will remove the lock and terminate any work other users are doing on that transaction prior to your update.

## Dates In Content

Dates included as part of raw JSON data content (most often as part of a POST) must match the following format example: 2022-04-19T23:59:59-05:00.

The content includes year (4 digit), month, day, hour, minute, second, and timezone offset and allows formatting.

Dates included as a query parameter within the main URL must be in the following format example: 220227152543-0700

The content includes year (2 digit), month, day, hour, minute, second, and timezone offset without any formatting.

Due to URL encoding standards, the query parameter cannot directly contain a “+” symbol for positive shift from UTC timezones and this character will need to replace by its URL encoding.


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The URL encoding for a “+” symbol is “%2B”, so the actual query parameter for 220227152543+0700 would instead be 220227152543%2B0700.

> **Note**
>
> After the format permissible length, any additional trailing characters will be ignored and the date will still be processed.

## Links In Content

JSON information for a data object may include links. These are self-referential APIs that defined other APIs that are available with the information. In the example below, when reading an activity lock, the following links were included that define a path to accomplish other calls. HRef lists the basic reference and the “rel” the remainder of the path. So, when you read activity lock (1), you get a delete reference that maps to */activitylock/1/delete*, defining the REST path to delete that lock.

[ {

"links" : [ {

"href" : "/activitylocks/1",

"rel" : "self"

}, {

"href" : "/activitylocks/1",

"rel" : "delete"

} ],

# Hypertext Transfer Protocol Status Codes

The following information documents the HTTP status codes that Oracle returns via web services calls.

## Success Codes

Successful codes are returned whenever the accessing client call was made without any error in the form or content.

| Code | Description |
|---|---|
| 200 OK | The information supplied by the customer was in a correct form. This code is returned when reading a resource or querying information about an existing resource or schema. This response code is used when the access is synchronous. |
| 202 Accepted | The information supplied by the customer as in a correct form. This code is returned when access is asynchronous. |
| 204 No Content | The information supplied by the customer was in a correct form. The request was successful but the API itself never provides information as a response. |


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## Client Failure Codes

Client failure codes indicate the client made an error in their service access and must correct their code or its content to fix the failure.

| Code | Description |
|---|---|
| 400 Bad Request | If this code is returned, it indicates the customer made a call with invalid syntax or violated the defined properties of the input information. Detailed information may be returned that further identifies the error. |
| 401 Unauthorized<br>403 Forbidden | If either of these codes are returned, it indicates the access to service was denied. This may occur if no OAuth2 token was provided, or the token had expired, or the identity the token was generated for did not have sufficient access. |
| 404 Not Found | If this code is returned, it indicates the customer made an erroneous access call against a resource or schema that is not defined. |
| 405 Method Not Allowed | If this code is returned, it indicates that the wrong HTTP method was used to make the call. Please check the API. |
| 406 Not Acceptable | If this code is returned, it indicates the wrong Accept header value was used to make the call. Please check the API. |
| 409 Too Many Requests | If this code is returned, it indicates that the web service has received too many service requests recently. This may indicate a cloud issue requiring support to address or the client is making too many calls too frequently and a solution may be required to avoid the issue. |

## System Failure Codes

System failure codes are returned whenever the processing server encounters an unexpected or severe failure.

| Code | Description |
|---|---|
| 500 Internal Server Code | A server error occurred that did not allow the operation to complete. |
| 502 Bad Gateway<br>503 Service Unavailable<br>504 Gateway Timeout | If any of these codes are returned, it indicates an issue with the network or cloud services, which may occur due to either client or cloud networking or infrastructure issues, such as outages. |

# JSON Error Element and Error Codes

If an error occurs in the form of the content, or during processing of the content, an HTTP response code (400 Bad Request) will be returned along with JSON structure defined by the ErrorList schema.

## Schema — ErrorList

This section describes the ErrorList schema.


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**Table 4-1 ErrorList — Object**

| Element Name | Required | Data Type | Description |
|---|---|---|---|
| errors | NA | object | Information about the errors. |

The table below describes the information about the error. See the *Oracle Retail Enterprise Inventory Cloud Service Administration Guide* for further information.

**Table 4-2 Error — Object**

| Element Name | Required | Data Type | Description |
|---|---|---|---|
| code | NA | number example: 1 | The code error type. |
| description | NA | string example: AN_ERROR_TOOK_PLACE | A brief description of the error type (an error key). |
| dataElement | NA | string example: item | The attribute or element that caused the failure. |
| dataValue | NA | string example: 1234 | The value of the attribute or element that failed, or a piece of information about that element. |
| referenceElement | NA | string example: inventory adjustment | An attribute or element that may help further identify the error. Most often this is a containing element one level above the failed element. |
| referenceValue | NA | string example: 123 | The value of the reference attribute or element, often something to identify the specific reference element. |

# Example Value

```
[
  {
    "errors": [
      {
        "code": 1,
        "description": "AN_ERROR_TOOK_PLACE",
        "dataElement": "item",
        "dataValue": "1234",
        "referenceElement": "inventory adjustment",
        "referenceValue": "123"
      }
    ]
  }
]
```


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## Error Attribute Definitions

| Attribute | Definition |
|---|---|
| Code | A numeric code indicates the issue. See Integration Error Codes table. |
| Description | The name of the error or issue. |
| DataElement | The name of an attribute or element of the JSON structure that failed. |
| DataValue | The value of the attribute or element that failed, or a piece of information about the element that failed (such as a maximum value). |
| ReferenceElement | The name of an attribute or element that will help further identify the data element. Most often the containing element one level above the failed elements (such as a transaction header). |
| ReferenceValue | The value of the attribute or element that will help further identify the data element. |

# Integration Error Codes

The following table contains a listing of the error codes that can be found within returned error information.

| Code | Name | Issue |
|---|---|---|
| 1 | Business Error | A business processing error prevent the service from completing. |
| 2 | Date Range Error | The date range has a problem (usually indicates end date is earlier than start date in a date range. |
| 3 | Duplicate Error | Indicates duplicate element within the data is not permitted. |
| 4 | Forbidden | Access is not allowed to the service. |
| 5 | Internal Server Error | A severe error occurred with the service attempting to process the request. |
| 6 | Invalid Input | Most often this indicates that input was included that is not allowed or not needed, however it also doubles a kind of catch-all category. |
| 7 | Invalid Format | An input was in an invalid format (most often a date string in a query parameter not being in a valid date format). |
| 8 | Invalid Status | A transaction or entity is not in a valid status to proceed with the request. |
| 9 | Missing Path Element | A path element defining the path of the resource URL was not present. |
| 10 | Missing Attribute | A required attribute was missing on the input to the service. |
| 11 | Not Found | A data element in the input could not be found in the system (most often an invalid identifier). |
| 12 | No Data Input | No input exists for a service that requires input. |
| 13 | No Query Input | No query input exists at all for a query that requires at least one input. |
| 14 | Element Too Large | An input was too large (exceeded maximum count or maximum size). |
| 15 | Results Too Large | The results of the service were too large to return. |


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# Error Code Data Elements

The following table contains a listing of likely or possible data elements that would be matched with a code. Data element and value may not be returned in all cases.

| Code | Name | Data Element | Data Value |
|---|---|---|---|
| 1 | Business Error | Business exception name/key | Data Value |
| 2 | Date Range Error | Date element name | Value of date |
| 3 | Duplicate Error | Duplicate element name | Duplicated Value |
| 4 | Forbidden | N/A | - |
| 5 | Internal Server Error | N/A | - |
| 6 | Invalid Input | Element name | Value of element |
| 7 | Invalid Format | Element name | Value of element |
| 8 | Invalid Status | Element name | Status of element |
| 9 | Missing Path Element | Missing element | - |
| 10 | Missing Attribute | Required element name | - |
| 11 | Not Found | Element not found | Value of element not found |
| 12 | No Data Input | Missing element | - |
| 13 | No Query Input | N/A | - |
| 14 | Element Too Large | Element name | Allowed size limit |
| 15 | Results Too Large | N/A | - |

# REST Service: Activity Lock

This service allows the creation, removal, and finding of activity locks.

An activity lock is a record indicating the user, time, and apiece of information (a transaction) that should be considered "locked". All server processing validates that the accessing user has a lock on the information before updating, notifying the current user if someone else has modified the information while they were locked and preventing a stale update.

## Server Base URL

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Activity Lock

This section describes the Find Activity Lokc API. The Find Activity Lock API searches for up to 10,000 locks based on input criteria. At least one input criteria should be provided.

## Method

```
GET
```


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## URL

```
/activitylocks/find
```

## Request


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**Table 4-3 Find Activtiy Lock — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| activityType | NA | integer($int2) (query) | Include only activity locks with this activity type. Valid devices types are:<br>1 - Bill of Lading<br>2 - Direct Delivery Invoice<br>3 - Fulfillment Order<br>4 - Fulfillment Order Delivery<br>5 - Fulfillment Order Pick<br>6 - Fulfillment Order Reverse Pick<br>7 - Invnetory Adjustment<br>8 - Inventory Adjustment Reason<br>9 - Item Basket<br>10 - Item Request<br>11 - POS Transaction Resolution<br>12 - Price Change<br>13 - Product Basket<br>14 - Product Group<br>15 - Product Group Schedule<br>16 - Replenishment Gap<br>17 - Shelf Adjustment<br>18 - Shelf Replenishment<br>19 - Shipment Reason<br>20 - Stock Count Child<br>21 - Store Order<br>22 - Ticket<br>23 - Ticket Format Basket<br>24 - Transaction Event<br>25 - Transfer<br>26 - Transfer Delivery Carton<br>27 - Transfer Shipment Carton<br>28 - Vendor Delivery Carton<br>29 - Vendor Shipment Carton |


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**Table 4-3 (Cont.) Find Activtiy Lock — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| | | | 30 - Vendor Return<br>Available values : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 |
| sessionId | NA | string($text128) (query) | Include only activity locks with this session identifier. |
| deviceType | NA | integer($int4) (query) | Include only activity locks with this device type. Valid devices types are:<br>1 - Client<br>2 - Server<br>3 - Integration Service<br>Available values : 1, 2, 3 |
| userName | NA | string($text128) (query) | Include only activity locks with this user name. |
| lockDateFrom | NA | string($date-time) (query) | Include only activity locks created on or after this date. |
| lockDateTo | NA | string($date-time) (query) | Include only activity locks created on or before this date. |

## Responses

This section describes the responses of the Find Activity Lock API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "lockId": 1111111,
    "sessionId": "1234",
    "activityId": "5555",
    "activityType": 1,
    "deviceType": 1,
    "userName": "userAbc",
```



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```
    "lockDate": "2025-02-27T13:15:22.775Z"
  }
]
```

## Schema — ActivityLockIdo

**Table 4-4 ActivityLockIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| lockId | NA | number($int15)<br>example: 1111111 | The identifier of an activity lock. |
| sessionId | NA | string($text128)<br>example: 1234 | The identifier of the session that owns the lock. |
| activityId | NA | string($text128)<br>example: 5555 | The identifier of the activity that is locked. |


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**Table 4-4 (Cont.) ActivityLockIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| activityType | NA | integer($int4)<br>example: 1 | The type of activity that is locked. Valid devices types are:<br>1 - Bill of Lading<br>2 - Direct Delivery Invoice<br>3 - Fulfillment Order<br>4 - Fulfillment Order Delivery<br>5 - Fulfillment Order Pick<br>6 - Fulfillment Order Reverse Pick<br>7 - Inventory Adjustment<br>8 - Inventory Adjustment Reason<br>9 - Item Basket<br>10 - Item Request<br>11 - POS Transaction Resolution<br>12 - Price Change<br>13 - Product Basket<br>14 - Product Group<br>15 - Product Group Schedule<br>16 - Replenishment Gap<br>17 - Shelf Adjustment<br>18 - Shelf Replenishment<br>19 - Shipment Reason<br>20 - Stock Count Child<br>21 - Store Order<br>22 - Ticket<br>23 - Ticket Format Basket<br>24 - Transaction Event<br>25 - Transfer<br>26 - Transfer Delivery Carton<br>27 - Transfer Shipment Carton<br>28 - Vendor Delivery Carton<br>29 - Vendor Shipment Carton<br>30 - Vendor Return |


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**Table 4-4 (Cont.) ActivityLockIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| | | | Enum:<br>[ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 ] |
| deviceType | NA | integer($int4)<br>example: 1 | The device type that holds the activity lock. Valid types are:<br>1 - Client<br>2 - Server<br>3 - Integration Service<br>Enum: [ 1, 2, 3 ] |
| userName | NA | string($text128)<br>example: userAbc | The unique identifier of the user that owns the lock. |
| lockDate | NA | string($date-time) | The date the activity was locked. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Activity Lock

The Read Activity Lock API retrieves information about an activity lock.

### Method

```
GET
```

### URL

```
/activitylocks/{activityLockId}
```

### Request


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**Table 4-5 Read Activity Lock — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| activityLockId | Yes | integer($int15) (path) | The activity lock identifier. |

## Responses

This section describes the responses of the Read Activity Lock API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
{
  "lockId": 1111111,
  "sessionId": "1234",
  "activityId": "5555",
  "activityType": 1,
  "deviceType": 1,
  "userName": "userAbc",
  "lockDate": "2025-02-27T13:47:12.359Z"
}
```

### Schema — ActivityLockIdo

**Table 4-6 ActivityLockIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| lockId | NA | number($int15) example: 1111111 | The identifier of an activity lock. |
| sessionId | NA | string($text128) example: 1234 | The identifier of the session that owns the lock. |
| activityId | NA | string($text128) example: 5555 | The identifier of the activity that is locked. |


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**Table 4-6 (Cont.) ActivityLockIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| activityType | NA | integer($int4)<br>example: 1 | The type of activity that is locked. Valid devices types are:<br>1 - Bill of Lading<br>2 - Direct Delivery Invoice<br>3 - Fulfillment Order<br>4 - Fulfillment Order Delivery<br>5 - Fulfillment Order Pick<br>6 - Fulfillment Order Reverse Pick<br>7 - Inventory Adjustment<br>8 - Inventory Adjustment Reason<br>9 - Item Basket<br>10 - Item Request<br>11 - POS Transaction Resolution<br>12 - Price Change<br>13 - Product Basket<br>14 - Product Group<br>15 - Product Group Schedule<br>16 - Replenishment Gap<br>17 - Shelf Adjustment<br>18 - Shelf Replenishment<br>19 - Shipment Reason<br>20 - Stock Count Child<br>21 - Store Order<br>22 - Ticket<br>23 - Ticket Format Basket<br>24 - Transaction Event<br>25 - Transfer<br>26 - Transfer Delivery Carton<br>27 - Transfer Shipment Carton<br>28 - Vendor Delivery Carton<br>29 - Vendor Shipment Carton<br>30 - Vendor Return |


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**Table 4-6 (Cont.) ActivityLockIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| | | | Enum:<br>[ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 ] |
| deviceType | NA | integer($int4)<br>example: 1 | The device type that holds the activity lock. Valid types are:<br>1 - Client<br>2 - Server<br>3 - Integration Service<br>Enum: [ 1, 2, 3 ] |
| userName | NA | string($text128)<br>example: userAbc | The unique identifier of the user that owns the lock. |
| lockDate | NA | string($date-time) | The date the activity was locked. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Activity Lock

The Create Activity Lock API creates a new user transaction activity lock. This prevents two users from simultaneously changing the data.

### Method

```
POST
```

### URL

```
/activitylocks
```

### Request

There are no request parameters.

The request body is appliaction/json.


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The activity lock to create.

## Example Value

```
{
  "sessionId": "1234",
  "activityId": "5555",
  "activityType": 1
}
```

## Schema — ActivityLockCreateIdo

**Table 4-7 ActivityLockCreateIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| sessionId | Yes | string($text128) example: 1234 | The identifier of the session that owns the lock. |
| activityId | Yes | string($text128) example: 5555 | The identifier of the activity that is locked (this is often a primary identifier of a transaction). |


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**Table 4-7 (Cont.) ActivityLockCreateIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| activityType | Yes | integer($int4) example: 1 | The type of activity that is locked. Valid devices types are<br>1 - Bill of Lading<br>2 - Direct Delivery Invoice<br>3 - Fulfillment Order<br>4 - Fulfillment Order Delivery<br>5 - Fulfillment Order Pick<br>6 - Fulfillment Order Reverse Pick<br>7 - Invnetory Adjustment<br>8 - Inventory Adjustment Reason<br>9 - Item Basket<br>10 - Item Request<br>11 - POS Transaction Resolution<br>12 - Price Change<br>13 - Product Basket<br>14 - Product Group<br>15 - Product Group Schedule<br>16 - Replenishment Gap<br>17 - Shelf Adjustment<br>18 - Shelf Replenishment<br>19 - Shipment Reason<br>20 - Stock Count Child<br>21 - Store Order<br>22 - Ticket<br>23 - Ticket Format Basket<br>24 - Transaction Event<br>25 - Transfer<br>26 - Transfer Delivery Carton<br>27 - Transfer Shipment Carton<br>28 - Vendor Delivery Carton<br>29 - Vendor Shipment Carton<br>30 - Vendor Return<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 ] |

## Responses

This section describes the responses of the Create Activity Lock API.

## Response Code: 200

The request has been successful.


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The media type is application/json.

### Example Value

```
{
  "lockId": 1111111
}
```

### Schema — ActivityLockRefIdo

**Table 4-8 ActivityLockRefIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lockid | NA | number($int15) example: 1111111 | The identifier of an activity lock. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Delete Activity Lock

This section describes the Delete Activity Lock API. This API removes an activity lock and indicates the activity should no longer be restricted and another user can now being activity on that data. It will remove the lock if it exists and perform no action at all if the lock does not exist. In either case, it returns 204 code.

## Method

```
POST
```

## URL

```
/activitylocks/{activityLockId}/delete
```

## Request Parameters


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**Table 4-9 Delete Activity Lock — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| activityLockId | yes | integer($int15) (path) | The activity lock identifier. |

## Responses

This section describes the responses of the Delete Activity Lock API.

## Response Code: 204

No Content

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Address

This service integrates address foundation data. Asychronous address integration is processed through staged messages and is controlled by the MPS Work Type: DcsStore.

## Server Base URL

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Read Address

The Read Address API retrieves information about a single address.

## Method

```
GET
```

## URL

```
/addresses/{addressId}
```


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## Request

**Table 4-10 Read Address — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| addressId | Yes | integer($int15) (path) | The address identifier. |

## Responses

This section describes the responses of the Read Address API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
{
  "addressId": 1111111,
  "entityType": 1,
  "entityId": 5555,
  "addressType": 1,
  "primary": true,
  "addressLine1": "This is line 1.",
  "addressLine2": "This is line 2.",
  "addressLine3": "This is line 3.",
  "city": "City name",
  "state": "ST",
  "countryCode": "USA",
  "postalCode": "10000",
  "county": "County",
  "companyName": "Company name",
  "contactName": "Contact Name",
  "contactPhone": "123-456-7890",
  "contactFax": "123-456-7890",
  "contactEmail": "email@service.com",
  "firstName": "John",
  "lastName": "Smith",
  "phoneticFirstName": "jon",
  "phoneticLastName": "smith",
  "supplierLocation": "Location"
}
```


### Schema — AddressIdo


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**Table 4-11 AddressIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| addressId | NA | number($int25) example: 1111111 | The identifier of the address in an external system. |
| entityType | NA | integer($int4) example: 1 | Denotes the type of location of the entity. Valid values are:<br>1 - Bill Of Lading<br>2 - Direct Delivery Invoice<br>3 - Fulfillment Order<br>Enum: [ 1, 2, 3 ] |
| entityId | NA | integer($int10) example: 5555 | The external identifier of the entity the address belongs to. |
| addressType | NA | integer($int4) example: 1 | The type of address. Value values are:<br>1 - Business<br>2 - Postal<br>3 - Return<br>4 - Order<br>5 - Invoice<br>6 - Remittance<br>7 - Billing<br>8 - Delivery<br>9 - External<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9 ] |
| primary | NA | boolean example: true | True if this is the primary address of the entity. |
| addressLine1 | NA | string($text240) example: This is line 1. | The first line of the address. |
| addressLine2 | NA | string($text240) example: This is line 2. | The second line of the address. |
| addressLine3 | NA | string($text240) example: This is line 3. | The third line of the address. |
| city | NA | string($text120) example: City name | The city of the address. |
| state | NA | string($text3) example: ST | The state abbreviation of the address. |
| countryCode | NA | string($text3) example: USA | The country code of the address (used by supplier).) |
| postalCode | NA | string($text30) example: 10000 | The postal code of the address. |
| county | NA | string($text250) example: County | The county name of the address. |


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**Table 4-11 (Cont.) AddressIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| companyName | NA | string($text120) example: Company name | A company name associated to the address. |
| contactName | NA | string($text120) example: Contact Name | A contact name for the address. |
| contactPhone | NA | string($text20) example: 123-456-7890 | A contact phone number for the address. |
| contactFax | NA | string($text20) example: 123-456-7890 | A contact fax number for the address. |
| contactEmail | NA | string($text100) example: email@service.com | A contact email for the address. |
| firstName | NA | string($text120) example: John | The first name of the contact for the address. |
| lastName | NA | string($text120) example: Smith | The last name of the contact for the address. |
| phoneticFirstName | NA | string($text120) example: jon | A phonetic spelling of the first name of a contact for the address. |
| phoneticLastName | NA | string($text120) example: smith | A phonetic spelling of the last name of a contact for the address. |
| supplierLocation | NA | string($text120) example: Location | Supplier location information |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Import Address

Imports a series of addresses. This allows up to 1,000 addresses. A forbidden response will occurs if the application is integrated with MFCS or RMS..

### Method

POST


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## URL

```
/addresses/{addressId}/delete
```

## Request Parameters

Threr are no request parameters.

The request body is application/json.

A list of addresses to import.

### Example Value


```
{
  "addresses": [
    {
      "addressId": 1111111,
      "entityType": 1,
      "entityId": 5555,
      "addressType": 1,
      "primary": true,
      "addressLine1": "This is line 1.",
      "addressLine2": "This is line 2.",
      "addressLine3": "This is line 3.",
      "city": "City name",
      "state": "ST",
      "countryCode": "USA",
      "postalCode": "10000",
      "county": "County",
      "companyName": "Company name",
      "contactName": "Contact Name",
      "contactPhone": "123-456-7890",
      "contactFax": "123-456-7890",
      "contactEmail": "email@service.com",
      "firstName": "John",
      "lastName": "Smith",
      "phoneticFirstName": "jon",
      "phoneticLastName": "smith",
      "supplierLocation": "Location"
    }
  ]
}
```


## Schema - AddressImportListIdo

**Table 4-12 AddressImportListIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| addresses | NA | object | Addresses |


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**Table 4-13 AddressImportIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| addressId | NA | number($int25) example: 1111111 | The identifier of the address in an external system. |
| entityType | NA | integer($int4) example: 1 | Denotes the type of location of the entity. Valid values are:<br>1 - Bill of Lading<br>2 - Direct Delivery Invoice<br>3 - Fulfillment Order<br>Enum: [ 1, 2, 3 ] |
| entityId | NA | integer($int10) example: 5555 | The external identifier of the entity the address belongs to. |
| addressType | NA | integer($int4) example: 1 | The type of address. Value values are:<br>1 - Business<br>2 - Postal<br>3 - Return<br>4 - Order<br>5 - Invoice<br>6 - Remittance<br>7 - Billing<br>8 - Delivery<br>9 - External<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9 ] |
| primary | NA | boolean example: true | True if this is the primary address of the entity. |
| addressLine1 | NA | string($text240) example: This is line 1. | The first line of the address. |
| addressLine2 | NA | string($text240) example: This is line 2. | The second line of the address. |
| addressLine3 | NA | string($text240) example: This is line 3. | The third line of the address. |
| city | NA | string($text120) example: City name | The city of the address. |
| state | NA | string($text3) example: ST | The state abbreviation of the address. |
| countryCode | NA | string($text3) example: USA | The country code of the address (used by supplier).) |
| postalCode | NA | string($text30) example: 10000 | The postal code of the address. |
| county | NA | string($text250) example: County | The county name of the address. |


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**Table 4-13 (Cont.) AddressImportIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| companyName | NA | string($text120) example: Company name | A company name associated to the address. |
| contactName | NA | string($text120) example: Contact Name | A contact name for the address. |
| contactPhone | NA | string($text20) example: 123-456-7890 | A contact phone number for the address. |
| contactFax | NA | string($text20) example: 123-456-7890 | A contact fax number for the address. |
| contactEmail | NA | string($text100) example: email@service.com | A contact email for the address. |
| firstName | NA | string($text120) example: John | The first name of the contact for the address. |
| lastName | NA | string($text120) example: Smith | The last name of the contact for the address. |
| phoneticFirstName | NA | string($text120) example: jon | A phonetic spelling of the first name of a contact for the address. |
| phoneticLastName | NA | string($text120) example: smith | A phonetic spelling of the last name of a contact for the address. |
| supplierLocation | NA | string($text120) example: Location | Supplier location information |

## Responses

This section describes the responses of the Import Address API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Delete Address


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Deletes an address. A forbidden response will occur if the application is integrated with Oracle merchandising.

### Method

POST

### URL

/addresses/{addressId}/delete

### Request

**Table 4-14 Delete Address — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| addressId | Yes | integer($int15) (path) | address ID |

### Responses

This section describes the responses of the Delete Address API.

### Response Code: 204

No Content

### Response Code: 400

Forbidden

## REST Service: Adhoc Count

An Adhoc Count is a stock count created and counted on the fly without previous sheduling or determination of what is going to be counted. All stock counts are broken down into child counts. An adhoc count is broken down into a single child count for processing.

### Server Base URL

https://<external_load_balancer>/<cust_env>/siocs-int-services/api

### Find Counts


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Finds up to a maximum of 1,000 adhoc counts for the input criteria.

## Method

`GET`

## URL

`/adhoccounts`

## Request

**Table 4-15 Find Counts — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | integer($int10) (query) | Include only stock counts for this store. |
| scheduleDate | NA | string($date-time) (query) | Include only stock counts that are scheduled to be executed on this date. |
| phase | NA | integer($int4) (query) | Include only stock counts in this phase. Valid values are:<br>1 - Count<br>2 - Authorize<br>*Available values* : 1, 2<br>--12 |
| status | NA | integer($int4)(query) | Include only stock counts in this status. Valid values are:<br>1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Approval Scheduled<br>6 - Approval In Progress<br>7 - Approval Processing<br>8 - Approval Authorized<br>9 - Approval Complete<br>10 - Canceled<br>*Available values* : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10<br>--12345678910 |


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**Table 4-15 (Cont.) Find Counts — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| departmentId | NA | number($int12) (query) | Include only stock counts associated to this department. |
| classId | NA | number($int12) (query) | Include only stock counts associated to this class. A department is required if this attribute is used. |
| subclassId | NA | number($int12) (query) | Include only stock counts associated to this subclass. A class is required if this attribute is used. |

## Responses

This section describes the responses of the Find Counts API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "stockCountId": 11111,
    "storeId": 5000,
    "description": "Weekly Department Count",
    "status": 1,
    "phase": 1,
    "totalItemsOnCount": 120,
    "scheduleDate": "2025-07-14T11:17:07.440Z",
    "startDateTime": "2025-07-14T11:17:07.440Z",
    "updateDateTime": "2025-07-14T11:17:07.440Z"
  }
]
```

### Schema — AdhocCountHeaderIdo

**Table 4-16 AdhocCountHeaderIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| stockCountId | NA | number($int12) example: 11111 | The unique identifier of the adhoc count. |


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**Table 4-16 (Cont.) AdhocCountHeaderIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store. |
| description | NA | string($text255)<br>example: Weekly Department Count | A description of the adhoc count. |
| status | NA | integer($int4)<br>example: 1 | The current status of the adhoc count. Valid values are<br>1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Approval Scheduled<br>6 - Approval In Progress<br>7 - Approval Processing<br>8 - Approval Authorized<br>9 - Approval Complete<br>10 - Canceled<br>Enum:[ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| phase | NA | integer($int4)<br>example: 1 | integer($int4)*example: 1*<br>The current phase of the adhoc count. Valid values are<br>1 - Count<br>2 - Authorize<br>Enum:[ 1, 2 ] |
| totalItemsOnCount | NA | number($int12)<br>example: 120 | The total number of items on the adhoc count. |
| scheduleDate | NA | string($date-time) | The date the adhoc count is being counted. |
| startDateTime | NA | string($date-time) | The time stamp when the adhoc count was started. |
| updateDateTime | NA | string($date-time) | The time stamp when the adhoc count was last updated. |

## Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# Create Count

The Create Count API creates a new adhoc stock count.

## Method

```
POST
```

## URL

```
/adhoccounts
```

## Request

There are no request parameters.

The request body is appliaction/json.

Details to create the adhoc count with.

### Example Value

```
{
  "storeId": 11111,
  "description": "Weekly Department Count",
  "scheduleDate": "2025-07-14T11:47:12.274Z",
  "timeframe": 1
}
```

### Schema — AdhocCountCreateIdo

**Table 4-17 AdhocCountCreateIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | Yes | integer($int10)example: 11111 | The store where the count is taking place. |
| description | NA | string($text255)example: Weekly Department Count | A description of the adhoc count. |
| scheduleDate | NA | string($date-time) | The date the adhoc count is being counted. |


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**Table 4-17 (Cont.) AdhocCountCreateIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| timeframe | | number($int2)<br>example: 1 | The timeframe of the processing. If daily sales, only before store open and after store close are allowed. For not daily sales, only None is allowed. If daily sales and not included, default configuration will be used instead. Valid values are<br>1 - Before Store Open<br>2 - After Store Close<br>3 - None<br>Enum:[ 1, 2, 3 ] |

## Responses

This section describes the responses of the Create Count API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "stockCountId": 11111,
    "storeId": 5000,
    "description": "Weekly Department Count",
    "status": 1,
    "phase": 1,
    "totalItemsOnCount": 120,
    "scheduleDate": "2025-07-14T11:17:07.440Z",
    "startDateTime": "2025-07-14T11:17:07.440Z",
    "updateDateTime": "2025-07-14T11:17:07.440Z"
  }
]
```

### Schema — AdhocCountHeaderIdo


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**Table 4-18 AdhocCountHeaderIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| stockCountId | NA | number($int12)<br>example: 11111 | The unique identifier of the adhoc count. |
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store. |
| description | NA | string($text255)<br>example: Weekly Department Count | A description of the adhoc count. |
| status | NA | integer($int4)<br>example: 1 | The current status of the adhoc count. Valid values are<br>1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Approval Scheduled<br>6 - Approval In Progress<br>7 - Approval Processing<br>8 - Approval Authorized<br>9 - Approval Complete<br>10 - Canceled<br>Enum:[ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| phase | NA | integer($int4)<br>example: 1 | integer($int4)*example: 1*<br>The current phase of the adhoc count. Valid values are<br>1 - Count<br>2 - Authorize<br>Enum:[ 1, 2 ] |
| totalItemsOnCount | NA | number($int12)<br>example: 120 | The total number of items on the adhoc count. |
| scheduleDate | NA | string($date-time) | The date the adhoc count is being counted. |
| startDateTime | NA | string($date-time) | The time stamp when the adhoc count was started. |
| updateDateTime | NA | string($date-time) | The time stamp when the adhoc count was last updated. |

## Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Count

The Read Cound API retrieves all the details about an adhoc count.

## Method

```
GET
```

## URL

```
/adhoccounts/{adhocCountId}
```

## Request

**Table 4-19 Read Count— Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| adhocCountId | Yes | number($int12) (path) | The unique identifier of the adhoc count. |

## Responses

This section describes the responses of the Read Count API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "stockCountId": 11111,
    "storeId": 5000,
    "description": "Weekly Department Count",
    "status": 1,
    "phase": 1,
    "totalItemsOnCount": 120,
    "scheduleDate": "2025-07-14T13:07:06.824Z",
    "startDateTime": "2025-07-14T13:07:06.824Z",
```



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```
    "updateDateTime": "2025-07-14T13:07:06.824Z",
    "adhocItemLock": true,
    "childCounts": [
      {
        "childCountId": 11111,
        "status": 1,
        "phase": 1,
        "countUser": "jsmith",
        "authorizeUser": "jsmith",
        "authorizedDate": "2025-07-14T13:07:06.824Z",
        "lineItems": [
          {
            "lineId": 1223465,
            "itemId": "20045673",
            "departmentId": 2000,
            "classId": 3000,
            "subclassId": 4000,
            "primaryLocation": true,
            "multiLocated": false,
            "discrepant": true,
            "breakableComponent": false,
            "countSnapshot": 100,
            "quantityCounted": 99,
            "quantityAuthorized": 101,
            "quantityCountedTotal": 99,
            "countedDateTime": "2025-07-14T13:07:06.824Z",
            "authorizedDateTime": "2025-07-14T13:07:06.824Z",
            "snapshotDateTime": "2025-07-14T13:07:06.824Z",
            "priceType": 1,
            "priceCurrency": "USD",
            "priceValue": 12.99,
            "uins": [
              {
                "uin": "200456734823",
                "uinId": 1223465,
                "snapshotStatus": 1
              }
            ]
          }
        ]
      }
    ]
  }
]
```


## Schema — AdhocCountIdo

**Table 4-20 AdhocCountdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| stockCountId | NA | number($int12)<br>example: 11111 | The unique identifier of the adhoc count. |


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**Table 4-20 (Cont.) AdhocCountdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store. |
| description | NA | string($text255)<br>example: Weekly Department Count | A description of the adhoc count. |
| status | NA | integer($int4)<br>example: 1 | The current status of the adhoc count. Valid values are<br>1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Approval Scheduled<br>6 - Approval In Progress<br>7 - Approval Processing<br>8 - Approval Authorized<br>9 - Approval Complete<br>10 - Canceled<br>Enum:[ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| phase | NA | integer($int4)<br>example: 1 | The current phase of the adhoc count. Valid values are<br>1 - Count<br>2 - Authorize<br>Enum:[ 1, 2 ] |
| totalItemsOnCount | NA | number($int12)<br>example: 120 | The total number of items on the adhoc count. |
| scheduleDate | NA | string($date-time) | The date the adhoc count is being counted. |
| startDateTime | NA | string($date-time) | The time stamp when the adhoc count was started. |
| updateDateTime | NA | string($date-time) | The time stamp when the adhoc count was last updated. |
| adhocItemLock | NA | boolean | True indicates that items can no longer be added. |
| childCounts | NA | objects | child counts |


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**Table 4-21 AdhocCountChildIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| childCountId | NA | number($int12)<br>example: 11111 | The unique identifier of the adhoc child count. |
| status | NA | integer($int4)<br>example: 1 | The current status of the adhoc count. Valid values are<br>1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Approval Scheduled<br>6 - Approval In Progress<br>7 - Approval Processing<br>8 - Approval Authorized<br>9 - Approval Complete<br>10 - Canceled<br>Enum:[ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| phase | NA | integer($int4)example: 1 | The current phase of the adhoc count. Valid values are<br>1 - Count<br>2 - Authorize<br>Enum:[ 1, 2 ] |
| countUser | NA | string($text128)<br>example: jsmith | The last user to count the adhoc count child. |
| authorizeUser | NA | string($text128)<br>example: jsmith | The user that authorized this adhoc count child. |
| authorizedDate | NA | string($date-time) | The date the adhoc count child was authorized. |
| lineItems | NA | object | line items |

**Table 4-22 AdhocCountLineItemIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| lineId | NA | number($int12)<br>example: 1223465 | The unique identifier of the line item record. |
| itemId | NA | string($text128)<br>example: 20045673 | The unique identifier of the item. |
| departmentId | NA | number($int12)<br>example: 2000 | The unique identifier of the department. |


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**Table 4-22 (Cont.) AdhocCountLineItemIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| classId | NA | number($int12) example: 3000 | The unique identifier of the class. |
| subclassId | NA | number($int12) example: 4000 | The unique identifier of the subclass. |
| primaryLocation | NA | boolean example: true | True indicates this is the primary stock count child for the item. |
| multiLocated | NA | boolean example: false | True indicates this item is located within multiple stock count child records. |
| discrepant | NA | boolean example: true | True indicates the item count is discrepant. |
| breakableComponent | NA | boolean example: false | True indicates this is a component of a breakable (notional) pack. |
| countSnapshot | NA | number($decimal(12,4)) example: 100 | The stock on hand at the time the count snapshot was executed. |
| quantityCounted | NA | number($decimal(12,4)) example: 99 | The amount in standard unit of measure counted during the initial stock counting phase. |
| quantityAuthorized | NA | number($decimal(12,4)) example: 101 | The amount in standard unit of measure to be approved during authorization. |
| quantityCountedTotal | NA | number($decimal(12,4)) example: 99 | The amount in standard unit of measure counted during the initial stock counting phase for this item across all children in which it appears. |
| countedDateTime | NA | string($date-time) | The time stamp when counting began for the item. |
| authorizedDateTime | NA | | The time stamp when the item was authorized. |
| snapshotDateTime | NA | string($date-time) | string($date-time) The time stamp when the snapshot was last taken for this item. |


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**Table 4-22 (Cont.) AdhocCountLineItemIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| priceType | NA | integer($int3) example: 1 | The price type of the price value and currency. Valid values are<br>1 - Permanent<br>2 - Promotional 3 - Clearance<br>Enum:[ 1, 2, 3 ] |
| priceCurrency | NA | string($text3) example: USD | The price currency at the time of the snapshot. |
| priceValue | NA | number($decimal(20,4)) example: 12.99 | The price amount at the time of the snapshot. |
| uins | NA | object | UINS |

**Table 4-23 AdhocCountLineItemUinIdo - Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| uin | NA | string($text128) example: 200456734823 | The unique identifier number. |
| uinId | NA | number($int12) example: 1223465 | The record identifier of the UIN. |


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**Table 4-23 (Cont.) AdhocCountLineItemUinIdo - Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| snapshotStatus | NA | number($int2)<br>example: 1 | The status of the UIN at the time of the snapshot. Valid values are<br>1 - In Stock<br>2 - Sold<br>3 - Shipped To Warehouse<br>4 - Shipped To Store<br>5 - Reserved For Shipping<br>6 - Shipped To Vendor<br>7 - Remove From Inventory<br>8 - Unavailable<br>9 - Missing<br>10 - In Receiving<br>11 - Customer Reserved<br>12 - Customer Fulfilled<br>13 - Shipped To Finisher<br>99 - Unconfirmed<br>Enum:[ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 99 ] |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Count

The Update Count API adds or updates the counted quantities of items on the adhoc stock count.

## Method

POST


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## URL

```
/adhoccounts/{adhocCountId}
```

## Request

**Table 4-24 Update Count— Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| adhocCountId | Yes | number($int12) (path) | The unique identifier of the adhoc count. |

The request body is application/json.

Item details to update on the adhoc count.

## Example Value

```
{
  "lineItems": [
    {
      "itemId": "55001234",
      "quantity": 2,
      "timestamp": "2025-07-24T16:07:12.174Z",
      "uins": [
        111222333,
        444555666
      ]
    }
  ]
}
```

## Schema — AdhocCountUpdateIdo

**Table 4-25 AdhocCountUpdateIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| lineItems | NA | object | line items |

**Table 4-26 AdhocCountUpdateLineItemIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 55001234 | The SKU level item identifier. |
| quantity | Yes | number($decimal(20,4)) example: 2 | The quantity of the item counted. |


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**Table 4-26 (Cont.) AdhocCountUpdateLineItemIdo —Object**

| Element Name: | Required | Data Type/Example | Description |
|---|---|---|---|
| timestamp | NA | string($date-time) | The date and time that the item was counted. |
| uins | NA | string($text128)] [example: List [ 111222333, 444555666 ] | The UINs to attach to this line item. If UINs are included, the total number of UINs must match the quantity. |

## Responses

This section describes the responses of the Update Count API.

### Response Code: 204

No content.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Complete Count

The Complete Count API completes the counting phase of the adhoc stock count moving it to authorization phase.

## Method

`POST`

## URL

`/adhoccounts/{adhocCountId}/complete`

## Request


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**Table 4-27 Complete Count— Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| adhocCountId | Yes | number($int12) (path) | The unique identifier of the adhoc count. |

## Responses

This section describes the responses of the Complete Count API.

### Response Code: 204

No content.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Count

The Cancel Count API cancels the adhoc stock count that is currently in progress.

## Method

`POST`

## URL

`/adhoccounts/{adhocCountId}/cancel`

## Request

**Table 4-28 Cancel Count— Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| adhocCountId | Yes | number($int12) (path) | The unique identifier of the adhoc count. |


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## Responses

This section describes the responses of the Cancel Count API.

### Response Code: 204

No content.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Allocation

Allocation documents defined the intent to ship goods from a warehouse to a store. Allocations may be managed by Oracle Merchandising, and if so, then some operations within this service will be blocked.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Allocation

This section describes the Find Allocation API. This API finds up to 5,000 purchase orders headers for the input criteria. No item information is returned.

### Method

```
GET
```

### URL

```
/allocations
```

### Request Parameters


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**Table 4-29 Find Allocation — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| allocationId | NA | integer($int12) (query) | Include only allocations with this allocation identifier. |
| itemId | NA | string($text25) (query) | Include only allocations for this item. |
| storeId | NA | integer($int10) (query) | Include only allocations for this store. |
| warehouseId | NA | integer($int10) (query) | Include only allocations for this warehouse. |
| deliveryDateFrom | NA | string($date-time) (query) | Include only allocations where the delivery date is on or after this date. |
| deliveryDateTo | NA | string($date-time) (query) | Include only allocations where the delivery date is on or before this date. |
| status | NA | integer($int4) (query) | Include only allocations in this status. Valid values are:<br>1 - Approved<br>2 - Completed<br>3 - Canceled<br>Available values : 1, 2, 3 |

## Responses

This section describes the responses of the Find Allocation API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "allocationId": 11111,
    "itemId": "100637121",
    "storeId": 5000,
    "warehouseId": 7000,
    "scheduleDate": "2025-01-02T12:38:48.481Z",
    "status": 1,
    "contextId": 14562,
    "contextValue": "Season End",
    "distributionParentId": "19384731",
    "deliverySlotId": 134143,
    "quantityExpected": 20,
    "quantityReceived": 10,
    "quantityDamaged": 10
```



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```
  }
]
```

## Schema — AllocationIdo

**Table 4-30 AllocationIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| allocationId | NA | number($int12) example: 11111 | The unique identifier of the allocation. |
| itemId | NA | string($text25) example: 100637121 | The identifier of the item. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the goods. |
| warehouseId | NA | number($int10) example: 7000 | The identifier of the warehouse shipping the goods. |
| scheduleDate | NA | string($date-time) | The date the allocation is expected to be delivered. |
| status | NA | integer($int4) example: 1 | The current status of the allocation. Valid values are:<br>1 - Approved<br>2 - Completed<br>3 - Canceled<br>Enum: [ 1, 2, 3 ] |
| contextId | NA | number($int18) example: 14562 | The identifier of a context associated to the allocation. |
| contextValue | NA | string($text25) example: Season End | A value associated to the context. |
| distributionParentId | NA | string($text25) example: 19384731 | A unique identifier of a parent allocation document. |
| deliverySlotId | NA | number($int15) example: 134143 | The identifier of the delivery slot of the expected delivery time. |
| quantityExpected | NA | number($decimal(20,4)) example: 20 | The quantity expected to be delivered. |
| quantityReceived | NA | number($decimal(20,4)) example: 10 | The quantity of the allocation that has been received. |
| quantityDamaged | NA | number($decimal(20,4)) example: 10 | The quantity of the allocation that has been received as damaged. |


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Import Allocation

This API imports an allocation order approved in an external system through an asynchronous process. These allocations will be staged as a message for later processing in the MPS queue (DcsAllocation).

### Method

`POST`

### URL

`/allocations/import`

### Request Parameters

There are no request parameters.

The request body is application/json.

The allocation details of the allocation to import.

### Example Value

```
{
  "allocationId": 11111,
  "itemId": "100637121",
  "warehouseId": 7000,
  "distributionParentId": 19384731,
  "contextId": 14562,
  "contextValue": "Season End",
  "details": [
    {
      "storeId": 5000,
      "deliveryDate": "2025-01-02T13:18:14.085Z",
      "quantity": 20
    }
  ]
}
```


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## Schema — AllocationImportIdo

**Table 4-31 AllocationImportIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| allocationId | Yes | number($int12) example: 11111 | The unique identifier of the allocation. |
| itemId | Yes | string($text25) example: 100637121 | The identifier of the item. |
| warehouseId | Yes | number($int10) example: 7000 | The unique identifier of the warehouse shipping the goods. |
| distributionParentId | NA | number($int15) example: 19384731 | A unique identifier of a parent allocation document. |
| contextId | NA | number($int18) example: 14562 | The identifier of a context associated to the allocation. |
| contextValue | NA | string($text25) example: Season End | A value associated to the context. |
| details | Yes | object | A set of stores and quantities for delivery. |

**Table 4-32 AllocationImportDetailIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 5000 | The identifier of the store receiving the goods. |
| deliveryDate | NA | string($date-time) | The date the allocation is expected to be delivered. |
| quantity | Yes | number($decimal(20, 4)) example: 20 | The quantity to be delivered. |

## Responses

This section describes the responses of the Import Allocation API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Complete Allocation


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This section describes the Complete Allocation API. This API completes an allocation. This operation will return a forbidden response if the application is integrated with Oracle Merchandising.

## Method

POST

## URL

/allocations/{allocationId}/complete

## Request Parameters

**Table 4-33 Complete Allocation — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| allocationId | yes | integer($int12) (path) | The allocation identifier. |

## Responses

This section describes the responses of the Complete Allocation API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Allocation

This section describes the Cancel Allocation API. This API cancels an allocation. This operation will return a forbidden response if the application is integrated with Oracle Merchandising.


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## Method

POST

## URL

/allocations/{allocationId}/cancel

## Request Parameters

**Table 4-34 Cancel Allocation — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| allocationId | yes | integer($int12) (path) | The allocation identifier. |

## Responses

This section describes the responses of the Cancel Allocation API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Batch

This service allows an external system to schedule an *adhoc* batch job for execution.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api

## Find Batch


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This section describes the Find Batch API. The Find Batch API finds all the batch jobs available to schedule.

## Method

```
GET
```

## URL

```
/batches
```

## Request

There are no parameters.

## Responses

This section describes the responses of the Find Batch API.

### Response Code: 200

The request has been successful.

The media type is application/json.

#### Example Value


```
[
  {
    "jobName": "ShelfReplenishmentClosure_OpsJob",
    "shortDescription": "opsJob.shelfReplenishmentClosure",
    "longDescription": "opsJob.shelfReplenishmentClosure.desc",
    "jobParamHint": "Transaction identifier",
    "jobInterval": 9,
    "batchType": 2,
    "storeRelated": true,
    "enabled": true,
    "lastExecutionTime": "2025-03-04T14:46:45.738Z",
    "updateDate": "2025-03-04T14:46:45.738Z"
  }
```


#### Schema — BatchJobIdo


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**Table 4-35 BatchJobIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| jobName | NA | string($text256) example: ShelfReplenishmentClosure_OpsJob | The job name used to execute the batch. |
| shortDescription | NA | string($text256) example: opsJob.shelfReplenishmentClosure | A short description of the batch job. |
| longDescription | NA | string($text2000) example: opsJob.shelfReplenishmentClosure.desc | A long description of the batch job. |
| jobParamHint | NA | string($text1000) example: Transaction identifier | Some hint text for what parameter values might be. |
| jobInterval | NA | integer($int2) example: 9 | The execution interval of the batch job. Valid values are:<br>1 - 30 Minutes<br>2 - 1 Hour<br>3 - 2 Hours<br>4 - 3 Hours<br>5 - 4 Hours<br>6 - 6 Hours<br>7 - 8 Hours<br>8 - 12 Hours<br>9 - 24 Hours<br>10 - Monthly<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| batchType | NA | integer($int4) example: 2 | 1 - Cleanup<br>2 - Operation<br>3 - System<br>4 - System Cleanup<br>5 - Data Seed<br>6 - Archive<br>Enum: [ 1, 2, 3, 4, 5, 6 ] |
| storeRelated | NA | boolean example: true | True indicates the batch job requires store level processing. |
| enabled | NA | boolean example: true | True indicates the batch job is currently enabled and scheduled. This will not prevent batch execution via this service. |


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**Table 4-35 (Cont.) BatchJobIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| lastExecutionTime | NA | string($date-time) | The timestamp of the last execution of the batch job. |
| updateDate | NA | string($date-time) | The last time this record was updated. |

Successful

The media type appliction/json.

# Execute Batch Job

Schedules the specific batch job for immediate execution. If parameter date and/or parameter identifier are entered, they are passed as parameters to the batch job identified by the batch name.

## Method

```
POST
```

## URL

```
/batches
```

## Request

There are no parameters.

The request body is application/json.

The batch job requested.

## Example Value

```
{
  "batchName": "11111",
  "storeId": 1234,
  "parameterDate": "2025-03-27T09:32:56.299Z",
  "parameterId": "123"
}
```


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### Schema - BatchRequestIdo

**Table 4-36 BatchRequestIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| batchName | NA | string($text120)<br>example: 11111 | The name of the batch job to execute. |
| storeId | NA | number($int10)<br>example: 1234 | A store identifier of a store to run the batch for. If included, it will run for this specific store. If not included, it will function for all stores (based on the individual batch functionality description). |
| parameterDate | NA | string($date-time) | A parameter date passed to the batch job (see adhoc batch documentation). |
| parameterId | NA | string($text120)<br>example: 123 | A parameter identifier passed to the batch job (see adhoc batch documentation); |

## Responses

This section describes the responses of the Execute Batch Job API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Differentiator

This service integrates differentiator foundation data. Asychronous differentiator integration is processed through staged messages and is controlled by the MPS Work Type: DcsDiff.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api


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# Import Differentiator Type

Imports up to 1,000 differentiator types by writing a staged message and processing asynchronously through the MPS system. A forbidden response will occur if the application is integrated with MFCS or RMS.

## Method

```
POST
```

## URL

```
/differentiators/types/import
```

## Request

There are no parameters.

The request body is application/json.

A list of differentiator types to import.

## Example Value

```
{
  "differentiatorTypes": [
    {
      "differentiatorTypeId": "S",
      "description": "Size"
    }
  ]
}
```

## Schema - DifferentiatorTypeImportListIdo

**Table 4-37 DifferentiatorTypeImportListIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| differentiatorTypes | NA | object | Differentiator Types |

**Table 4-38 DifferentiatorTypeImportIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| differentiatorTypeId | NA | string($text10) example: S | The differentiator type identifier. |


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**Table 4-38 (Cont.) DifferentiatorTypeImportIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| description | NA | string($text255)<br>example: Size | The differentiator type description. |

## Responses

This section describes the responses of the Delete Differentiator Type API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Delete Differentiator Type

Deletes a differentiator type. The processing occurs asynchronously through a MPS staged message.

## Method

`POST`

## URL

`/differentiators/types/{differentiatorTypeId}/delete`

## Request

**Table 4-39 Delete Differentiator Type — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| differentiatorTypeId | Yes | string($text10)(path) | Differentiator Type ID |

## Responses

This section describes the responses of the Import Differentiator Type API.


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### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Import Differentiator

Imports up to 1,000 differentiators by writing a s staged message and processing asynchronously through the MPS system. A forbidden response will occur if the application is integrated with MFCS or RMS.

## Method

`POST`

## URL

`/differentiators/import`

## Request

There are no request parameters.

The request body is applicattion/json.

A list of differentiators to import.

### Example Value

```
{
  "differentiatorTypes": [
    {
      "differentiatorId": "Color 00",
      "differentiatorTypeId": "C",
      "description": "Assorted Color Pack"
    }
  ]
}
```


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## Schema - DifferentiatorImportListIdo

**Table 4-40 DifferentiatorImportListIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| differentiatorTypes | NA | object | Differentiator types |

**Table 4-41 DifferentiatorImportIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| differentiatorId | NA | string($text10)<br>example: Color 00 | The differentiator identifier. |
| differentiatorTypeId | NA | string($text10)<br>example: C | The differentiator type identifier. |
| description | NA | string($text255)<br>example: Assorted Color Pack | The differentiator description. |

# Responses

This section describes the responses of the Import Differentiator Type API.

## Response Code: 202

Accepted

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Response Code: 403

Forbidden

# Delete Differentiator

Deletes a differentiator. The processing occurs asynchronously through a MPS staged message.

# Method

POST


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## URL

```
/differentiators/{differentiatorId}/delete
```

## Request

**Table 4-42 Delete Differentiator — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| differentiatorId | Yes | string($text10)(path) | Differentiator ID |

## Responses

This section describes the responses of the Delete Differentiator API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

# REST Service: Finisher

This service integrates finisher and finisher item foundation data. Asychronous finisher integration is processed through staged messages and is controlled by the MPS Work Type: DcsPartner. Asynchronous finisher item integration is processed through staged messages and is controlled by the MPS Work Type: DcsItemLocation.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api

## Import Finisher

Imports a series of up to 500 finishers. A forbidden response will occurs if the application is integrated with MFCS or RMS.


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## Method

```
POST
```

## URL

```
/finishers/import
```

## Request

There are no request parameters.

The request body is application/json.

A list of finishers to import.

### Example Value

```
{
  "finishers": [
    {
      "finisherId": 1111111,
      "name": "Egravers, Inc.",
      "status": 1,
      "currencyCode": "USD",
      "countryCode": "USA",
      "languageCode": "en",
      "contactName": "John Smith",
      "contactPhone": "123-456-7890",
      "contactFax": "123-456-7891",
      "contactTelex": "123-456-7892",
      "contactEmail": "address@service.com",
      "manufacturerId": "4321",
      "taxId": "67890",
      "transferEntityId": "88888",
      "paymentTerms": "30 Days",
      "importCountryCode": "USD",
      "importPrimary": false
    }
  ]
}
```

### Schema - FinisherImportListIdo

**Table 4-43 FinisherImportListIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| finishers | NA | object | finishers |


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**Table 4-44 FinisherImportIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| finisherId | Yes | number($int10) example: 1111111 | The identifier of the finisher. |
| name | NA | string($text240) example: Egravers, Inc. | The name of the finisher. |
| status | NA | integer($int4) example: 1 | The current status of the finisher. Valid values are:<br>1 - Active<br>2 - Inactive<br>Enum: [ 1, 2 ] |
| currencyCode | NA | string($text3) example: USD | ISO currency code assigned to the finisher. |
| countryCode | NA | string($text3) example: USA | ISO country code assigned to the finisher. |
| languageCode | NA | string($text6) example: en | ISO language code assigned to the finisher. |
| contactName | NA | string($text120) example: John Smith | Name of the finisher's representative contact. |
| contactPhone | NA | string($text20) example: 123-456-7890 | Phone number of the finisher's representative contact. |
| contactFax | NA | string($text20) example: 123-456-7891 | Fax number of the finisher's representative contact. |
| contactTelex | NA | string($text20) example: 123-456-7892 | Telex number of the finisher's representative contact. |
| contactEmail | NA | string($text100) example:address@service.com | Email address of the finisher's representative contact. |
| manufacturerId | NA | string($text18) example: 4321 | Manufacturer's identification number. |
| taxId | NA | string($text18) example: 67890 | Tax identifier number of the finisher. |
| transferEntityId | NA | string($text20) example: 88888 | Identifier of the transfer entity that the finisher belongs to. |
| paymentTerms | NA | string($text20) example: 30 Days | Payment terms for the partner. |
| importCountryCode | NA | string($text3) example: USD | The ISO country code of the import authority. |
| importPrimary | NA | boolean example: false | True indicates the code is the primary import authority of the import country. |

## Responses

This section describes the responses of the Import Finisher API.


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### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

## Delete Finisher

Deletes a finisher. A forbidden response will occur if the application is integrated with Oracle merchandising.

### Method

`POST`

### URL

`/finishers/{finisherId}/delete`

### Request

**Table 4-45 Delete Finisher — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| finisherId | Yes | integer($int15) (path) | The finisher identifier. |

### Responses

This section describes the responses of the Delete Finisher API.

### Response Code: 202

Accepted

### Response Code: 400


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Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

## Import Finisher Item

Imports up to 5,000 finisher items. A forbidden response will occurs if the application is integrated with MFCS or RMS.

### Method

`POST`

### URL

`/finishers/{finisherId}/items/import`

### Request

**Table 4-46 Import Finisher Item — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| finisherId | Yes | integer($int15) (path) | The finisher identifier. |

The request body is application/json.

A list of finisher items to import.

### Example Value

```
{
  "items": [
    {
      "itemId": "1111111",
      "status": 1
    }
  ]
}
```


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## Schema - FinisherItemImportListIdo

**Table 4-47 FinisherItemImportListIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| items | NA | object | items |

**Table 4-48 FinisherItemImportIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | Yes | string($int25) example: 1111111 | The identifier of the item. |
| status | Yes | integer($int4) example: 1 | The status of the item. Valid values are:<br>1 - Active<br>2 - Discontinued<br>3 - Inactive<br>Enum: [ 1, 2, 3 ] |

## Responses

This section describes the responses of the Import Finisher Item API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

# Delete Finisher Item

Marks up to 5,000 finisher items for later deletion. A forbidden response will occurs if the application is integrated with MFCS or RMS.

## Method

POST


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## URL

```
/finishers/{finisherId}/items/remove
```

## Request

**Table 4-49 Delete Finisher Item — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| finisherId | Yes | integer($int15) (path) | The finisher identifier. |

The request body is application/json.

A list of finisher items to remove.

### Example Value

```
{
  "itemIds": [
    11111,
    22222
  ]
}
```

### Schema - FinisherItemRemoveListIdo

**Table 4-50 FinisherItemRemoveListIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemIds | NA | string($text25) example: List [ 11111, 22222 ] | items IDs |

## Responses

This section describes the responses of the Delete Finisher Item API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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### Response Code: 403

Forbidden

# REST Service: Customer Fulfillment Order

This service defines operations to manage customer fulfillment order information by integration with an external system. A fulfillment order the portion of a customer order to be fulfilled at a particular store. There can be many fulfillment orders for the same customer order.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Fulfillment Order

This section describes the Find Fulfillment Order API. This API finds up to a maximum of 3,0000 fulfillment order headers based on input search criteria.

## Method

```
GET
```

## URL

```
/fulfillmentorders
```

## Request Parameters

**Table 4-51 Find Fulfillment Order — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| fulfillmentOrderNumber | NA | string($text128) (query) | Include only fulfillment orders with this external fulfillment order number. |
| customerOrderNumber | NA | string($text128) (query) | Include only fulfillment orders with this external customer order number. |
| storeId | NA | integer($int10) (query) | Include only fulfillment orders for this store. |


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**Table 4-51 (Cont.) Find Fulfillment Order — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| orderType | NA | integer($int4) (query) | Include only fulfillment orders with this order type. Valid values are:<br>1 - Layaway<br>2 - Pickup and Delivery<br>3 - Customer Order<br>4 - Pending Purchase<br>5 - Special Order<br>6 - Web Order<br>7 - On Hold<br>Available values : 1, 2, 3, 4, 5, 6, 7 |
| status | NA | integer($int4) (query) | Include only fulfillment orders with this status. Value values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>5 - Reverse Pick<br>6 - Pick In Progress<br>7 - Delivery In Progress<br>8 - Ready To Ship<br>9 - Ready For Pickup<br>10 - Picking Required<br>11 - Under Review<br>Available values : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 |
| releaseDateFrom | NA | string($date-time) (query) | Include only fulfillment orders with an release date on or after this date. |
| releaseDateTo | NA | string($date-time) (query) | Include only fulfillment orders with an release date on or before this date. |
| updateDateFrom | NA | string($date-time) (query) | Include only fulfillment orders with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only fulfillment orders with an update date on or before this date. |
| itemId | NA | string($text25) (query) | Include only fulfillment orders containing this item. |

## Responses

This section describes the responses of the Find Fulfillment Order API.

## Response Code: 200

The request has been successful.

The media type is application/json.


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## Example Value


```
[
  {
    "orderId": 11111,
    "customerOrderId": "222345666",
    "fulfillmentOrderId": "76544400",
    "storeId": 1234,
    "orderType": 1,
    "deliveryType": 1,
    "status": 1,
    "holdLocation": "Pickup Desk"
  }
]
```


## Schema — FulfillmentOrderHeaderIdo

**Table 4-52 FulfillmentOrderHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderId | NA | number($int12) example: 11111 | The unique identifier of the fulfillment order. |
| customerOrderId | NA | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | NA | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |
| orderType | NA | integer($int4) example: 1 | The current status of the inventory adjustment. Valid values are:<br>1 - Layaway<br>2 - Pickup and Delivery<br>3 - Customer Order<br>4 - Pending Purchase<br>5 - Special Order<br>6 - Web Order<br>7 - On Hold<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |
| deliveryType | NA | integer($int4) example: 1 | The delivery type of the customer order. Valid values are:<br>1 - Customer Pickup<br>2 - Ship To Store<br>Enum: [ 1, 2 ] |


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**Table 4-52 (Cont.) FulfillmentOrderHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| status | NA | integer($int4) example: 1 | The current status of the customer order. Value values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>5 - Reverse Pick<br>6 - Pick In Progress<br>7 - Delivery In Progress<br>8 - Ready To Ship<br>9 - Ready For Pickup<br>10 - Picking Required<br>11 - Under Review<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 ] |
| holdLocation | NA | string($text128) example: Pickup Desk | Descripton of where the order is being held for pickup or delivery. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Fulfillment Order

This section describes the Read Fulfillment Order API. This API retrieves all the details about a fulfillment order.

## Method

```
GET
```

## URL

```
/fulfillmentorders/{orderId}
```

## Request Parameters


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**Table 4-53 Read Fulfillment Order — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| orderId | Yes | number($int12) (path) | The unique SIOCS internal identifier of the fulfillment order. |

## Responses

This section describes the responses of the Read Fulfillment Order API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "orderId": 11111,
    "customerOrderId": "222345666",
    "fulfillmentOrderId": "76544400",
    "storeId": 1234,
    "customerId": "JXA244443",
    "orderType": 1,
    "deliveryType": 1,
    "status": 1,
    "orderDate": "2025-01-15T12:53:31.299Z",
    "releaseDate": "2025-01-15T12:53:31.299Z",
    "deliveryDate": "2025-01-15T12:53:31.299Z",
    "carrierId": 4500674,
    "carrierServiceId": 4500222,
    "allowPartialDelivery": true,
    "deliveryCharge": 12.5,
    "deliveryChargeCurrency": "USD",
    "holdLocation": "Pickup Desk",
    "orderComments": "Customer will arrive by 2pm.",
    "underReview": false,
    "fullFlow": true,
    "deliveryComments1": "First line.",
    "deliveryComments2": "Second line.",
    "deliveryComments3": "Third line.",
    "customerArrivalDate": "2025-01-15T12:53:31.299Z",
    "createDate": "2025-01-15T12:53:31.299Z",
    "updateDate": "2025-01-15T12:53:31.299Z",
    "lineItems": [
      {
        "lineId": 333444,
        "itemId": "55001234",
        "substituteLineId": 5600043,
        "lineNumber": 2,
```



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```
        "preferredUom": "KG",
        "comments": "Item packaging slightly damaged.",
        "quantityOrdered": 10,
        "quantityPicked": 6,
        "quantityDelivered": 2,
        "quantityCanceled": 2,
        "quantityReserved": 8,
        "allowSubstitution": true,
        "price": 4500674,
        "priceCurrency": "USD",
        "createDate": "2025-01-15T12:53:31.299Z",
        "updateDate": "2025-01-15T12:53:31.299Z"
      }
    ]
  }
]
```


## Schema — FulfillmentOrderIdo

**Table 4-54 FulfillmentOrderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderId | NA | number($int12) example: 11111 | The unique identifier of the fulfillment order. |
| customerOrderId | NA | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | NA | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |
| customerId | NA | string($text14) example: JXA244443 | The identifier of the customer for this fulfillment order. |
| orderType | NA | integer($int4) example: 1 | The order type of the customer order. Valid values are:<br>1 - Layaway<br>2 - Pickup and Delivery<br>3 - Customer Order<br>4 - Pending Purchase<br>5 - Special Order<br>6 - Web Order<br>7 - On Hold<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |


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**Table 4-54 (Cont.) FulfillmentOrderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryType | NA | integer($int4) example: 1 | The delivery type of the customer order. Valid values are:<br>1 - Customer Pickup<br>2 - Ship To Store<br>Enum: [ 1, 2 ] |
| status | NA | integer($int4) example: 1 | The current status of the customer order. Value values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>5 - Reverse Pick<br>6 - Pick In Progress<br>7 - Delivery In Progress<br>8 - Ready To Ship<br>9 - Ready For Pickup<br>10 - Picking Required<br>11 - Under Review<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 ] |
| orderDate | NA | string($date-time) | The date the customer placed the order. |
| releaseDate | NA | string($date-time) | The date in which the order must be shipped by the store or picked up in the store. |
| deliveryDate | NA | string($date-time) | The date in which the order is to be delivered. |
| carrierId | NA | integer($int10) example: 4500674 | The identifier of the carrier who will deliver the order. |
| carrierServiceId | NA | integer($int10) example: 4500222 | The identifier of the carrier service used for the delivery. |
| allowPartialDelivery | NA | boolean example: true | True indicates delivery can occur without all items being available and ready. False indicates all items must be shipped in the delivery. |
| deliveryCharge | NA | number($decimal(12,4)) example: 12.5 | The cost of shipment of this order. |
| deliveryChargeCurrency | NA | string($text3) example: USD | The current of the delivery charge value. |
| holdLocation | NA | string($text128) example: Pickup Desk | Descripton of where the order is being held for pickup or delivery. |


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**Table 4-54 (Cont.) FulfillmentOrderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderComments | NA | string($text2000) example: Customer will arrive by 2pm. | Comments entered in the external system for the order. |
| underReview | NA | boolean example: false | True indicates that the fulfilling system needs to delay either shipping or fulfilling the order until this flag is cleared. |
| fullFlow | NA | boolean example: true | True indicates this customer order can only be fulfilled using SOCS. If false, it must be fulfilled using JET mobile. |
| deliveryComments1 | NA | string($text128) example: First line. | The first line of delivery comments. |
| deliveryComments2 | NA | string($text128) example: Second line. | The second line of delivery comments. |
| deliveryComments3 | NA | string($text128) example: Third line. | The third line of delivery comments. |
| customerArrivalDate | NA | string($date-time) | The date that the customer arrived for pickup. |
| createDate | NA | string($date-time) | The date the fulfillment order was created in SIOCS. |
| updateDate | NA | string($date-time) | The date the fulfillment order was last updated in SIOCS. |
| lineItems | NA | object | A collection of line items on the fulfillment order |

**Table 4-55 FulfillmentOrderLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | number($int12) example: 333444 | The unique identifier of the line item. |
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| substituteLineId | NA | number($int12) example: 5600043 | The identifier of a line item that this item has been substituted for. |
| lineNumber | NA | number($int10) example: 2 | The line number of the fulfillment order this item is fulfilling. |


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**Table 4-55 (Cont.) FulfillmentOrderLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| preferredUom | NA | string($text4) example: KG | The preferred unit of measure the item quantities should be processed or displayed in. |
| comments | NA | string($text2000) example: Item packaging slightly damaged. | Comments from an external system associated to this item. |
| quantityOrdered | NA | number($decimal(12,4)) example: 10 | The quantity ordered on this line item. |
| quantityPicked | NA | number($decimal(12,4)) example: 6 | The quantity picked for this line item. |
| quantityDelivered | NA | number($decimal(12,4)) example: 2 | The quantity delivered to date on this line item. |
| quantityCanceled | NA | number($decimal(12,4)) example: 2 | The quantity canceled on this line item. |
| quantityReserved | NA | number($decimal(12,4)) example: 8 | The quantity reserved for this line item. |
| allowSubstitution | NA | boolean example: true | True indicates a substitution is allowed for this item, false indicates it is not. |
| price | NA | number($decimal(20,4)) example: 4500674 | The amount of the price of the item. |
| priceCurrency | NA | string($text3) example: USD | The currency of the price of the item. |
| createDate | NA | string($date-time) | The date the order item was created in SIOCS. |


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**Table 4-55 (Cont.) FulfillmentOrderLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| updateDate | NA | string($date-time) | The date the order item was last updated in SIOCS. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Import Fulfillment Order

This section describes the Import Fulfillment Order API. This service operation takes a request to import a collection of new fulfillment orders. All orders passed in must be new orders. The sent will be processed asynchronously. A notification of accepted or rejected status will be published out after the processing is finished to a fulfillment order status service. Duplicate fulfillment orders in a single access will immediately return a bad request error. Duplicate fulfillment orders seperated into different requests will cause the second or later orders to be rejected at a later time with a duplicate order error.

### Method

`POST`

### URL

`/fulfillmentorders/import`

### Request Parameters

**Table 4-56 Update Delivery - Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the fulfillment order delivery. |

There are no request parameters.

The request body is application/json.

Details about the fulfillment orders to import.


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## Example Value


```
{
  "fulfillmentOrders": [
    {
      "customerOrderId": "222345666",
      "fulfillmentOrderId": "76544400",
      "storeId": 1234,
      "customerId": "JXA244443",
      "deliveryType": 1,
      "deliveryDate": "2025-01-15T13:25:05.331Z",
      "carrierId": 4500674,
      "carrierServiceId": 4500674,
      "allowPartialDelivery": true,
      "deliveryCharge": 4500674,
      "deliveryChargeCurrency": "USD",
      "holdLocation": "Pickup Desk",
      "orderComments": "Customer will arrive by 2pm.",
      "lineItems": [
        {
          "itemId": "55001234",
          "lineNumber": 2,
          "preferredUom": "KG",
          "comments": "Item packaging slightly damaged.",
          "quantityOrdered": 10,
          "allowSubstitution": true,
          "price": 4500674,
          "priceCurrency": "USD"
        }
      ]
    }
  ]
}
```


## Schema — FulfillmentOrderImportListIdo

**Table 4-57 FulfillmentOrderImportListIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| fulfillmentOrders | yes | object | A collection of fulfillment orders to import |

FulfillmentOrderImportIdo{Jump to path


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**Table 4-58 FulfillmentOrderImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). The combination of customer order number and fulfillment order number will determine if the order is treated a new or existing. |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). The combination of customer order number and fulfillment order number will determine if the order is treated a new or existing. |
| storeId | yes | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. This value is required but will be ignored if the order already exists. |
| customerId | yes | string($text14) example: JXA244443 | The identifier of the customer for this fulfillment order. The value is required but will be ignored if the order already exists. |
| deliveryType | yes | integer($int4) example: 1 | The delivery type of the fulfillment order. This value is required but will be ignored if the order already exists. Valid values are:<br>1 - Customer Pickup<br>2 - Ship To Store<br>Enum: [ 1, 2 ] |
| deliveryDate | NA | string($date-time) | The date in which the order is to be delivered. This value will be ignored if the order already exists. |
| carrierId | NA | integer($int10) example: 4500674 | The identifier of the carrier who will deliver the order. This value will be ignored if the order already exists. |
| carrierServiceId | NA | integer($int10) example: 4500674 | The identifier of the carrier service used for the delivery. This value will be ignored if the order already exists. |
| allowPartialDelivery | NA | boolean example: true | True indicates delivery can occur without all items being available and ready. False indicates all items must be shipped in the delivery. This value will be ignored if the order already exists. |
| deliveryCharge | NA | number($decimal(12,4)) example: 4500674 | The cost of shipment of this order. This value will be ignored if the order already exists. |
| deliveryChargeCurrency | NA | string($text3) example: USD | The currency of the delivery charge value. This value will be ignored if the order already exists. |
| holdLocation | NA | string($text128) example: Pickup Desk | Description of where the order is being held for pickup or delivery. |
| orderComments | NA | string($text2000) example: Customer will arrive by 2pm. | Comments entered in the external system for the order. |


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**Table 4-58 (Cont.) FulfillmentOrderImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineItems | yes | object | A collection of line items on the fulfillment order. |

**Table 4-59 FulfillmentOrderImporLineItemtIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | yes | string($text25) example: 55001234 | The SKU level item identifier. |
| lineNumber | NA | number($int10) example: 2 | The line number of the fulfillment order this item is fulfilling. |
| preferredUom | NA | string($text4) example: KG | The preferred unit of measure the item quantities should be processed or displayed in. |
| comments | NA | string($text2000) example: Item packaging slightly damaged. | Comments from an external system associated to this item. |
| quantityOrdered | yes | number($decimal(12,4)) example: 10 | The quantity ordered on this line itemm. |
| allowSubstitution | NA | boolean example: true | True indicates a substitution is allowed for this item, false indicates it is not. |
| price | NA | number($decimal(20,4)) example: 4500674 | The amount of the price of the item. |
| priceCurrency | NA | string($text3) example: USD | The currency of the price of the item. |

# Responses

This section describes the responses of the Import Fulfillment Order API.

## Response Code: 204

No content

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# Pickup Fulfillment Order

This section describes the Pickup Fulfillment Order API. This service will update an order to indicate a customer is arriving (or has arrived) to pickup the order.

## Method

```
POST
```

## URL

```
/fulfillmentorders/pickup
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the fulfillment order for pickup.

## Example Value

```
{
  "customerOrderId": "222345666",
  "fulfillmentOrderId": "76544400",
  "storeId": 1234,
  "deliveryComments1": "First line.",
  "deliveryComments2": "Second line.",
  "deliveryComments3": "Third line.",
  "customerArrivalDate": "2025-01-15T14:20:01.431Z"
}
```

## Schema — FulfillmentOrderPickupIdo

**Table 4-60 FulfillmentOrderPickupIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | Yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |


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**Table 4-60 (Cont.) FulfillmentOrderPickupIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |
| deliveryComments1 | NA | string($text128) example: First line. | The first line of delivery comments. |
| deliveryComments2 | NA | string($text128) example: Second line. | The second line of delivery comments. |
| deliveryComments3 | NA | string($text128) example: Third line. | The third line of delivery comments. |
| customerArrivalDate | Yes | string($date-time) | The date that the customer arrived for pickup. |

## Responses

This section describes the responses of the Pickup Fulfillment Order API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Reject Fulfillment Order

This section describes the Reject Fulfillment Order API. This will cause the store to reject the fulfillment order specified notifying external systems that the fulfillment order has been rejected.

## Method

POST


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## URL

```
/fulfillmentorders/reject
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the fulfillment order to reject.

### Example Value

```
{
  "customerOrderId": "222345666",
  "fulfillmentOrderId": "76544400",
  "storeId": 1234
}
```

### Schema — FulfillmentOrderRejectIdo

**Table 4-61 FulfillmentOrderRejectIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | Yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | Yes | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |

## Responses

This section describes the responses of the Reject Fulfillment Order API.

### Response Code: 204

No content

### Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Fulfillment Order

This section describes the Cancel Fulfillment Order API. This API will cancel all remaining ordered quantities on the fulfillment order.

## Method

```
POST
```

## URL

```
/fulfillmentorders/cancel
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the fulfillment order to cancel.

### Example Value

```
{
  "customerOrderId": "222345666",
  "fulfillmentOrderId": "76544400",
  "storeId": 1234
}
```

## Schema — FulfillmentOrderCancelIdo

**Table 4-62 FulfillmentOrderCancelIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | Yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |


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**Table 4-62 (Cont.) FulfillmentOrderCancelIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |

## Responses

This section describes the responses of the Read Fulfillment Order API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "customerOrderId": "222345666",
    "fulfillmentOrderId": "76544400",
    "storeId": 1234,
    "lineItems": [
      {
        "itemId": "55001234",
        "lineNumber": 2,
        "preferredUom": "KG",
        "standardUom": "KG",
        "quantityCanceled": 2
      }
    ]
  }
]
```

### Schema — FulfillmentOrderCancelStatusIdo

**Table 4-63 FulfillmentOrderCancelStatusIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | NA | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |


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**Table 4-63 (Cont.) FulfillmentOrderCancelStatusIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |
| lineItems | NA | object | A collection of line items with the quantities that were cancelled. |

**Table 4-64 FulfillmentOrderCancelStatusItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| lineNumber | NA | number($int10) example: 2 | The line number of the fulfillment order this item is fulfilling. |
| preferredUom | NA | string($text4) example: KG | The preferred unit of measure the item quantities should be processed or displayed in. |
| standardUom | NA | string($text4) example: KG | The standard unit of measure for the item. |
| quantityCanceled | NA | number($decimal(12,4)) example: 2 | The quantity canceled on this line itemm. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Cancel Fulfillment Order Quantities

This section describes the Cancel Fulfillment Order Quantities API. This API will cancel quantities on specific line items of a fulfillment order.

### Method

```
POST
```

### URL

```
/fulfillmentorders/cancelitems
```


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## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the fulfillment order items to cancel.

## Example Value

```
{
  "customerOrderId": "222345666",
  "fulfillmentOrderId": "76544400",
  "storeId": 1234,
  "lineItems": [
    {
      "itemId": "55001234",
      "lineNumber": 2,
      "preferredUom": "KG",
      "standardUom": "KG",
      "quantityCanceled": 2
    }
  ]
}
```

## Schema — FulfillmentOrderItemCancelIdo

**Table 4-65 FulfillmentOrderItemCancelIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | Yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | Yes | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |
| lineItems | NA | object | A collection of line items with the quantities that were cancelled. |

**Table 4-66 FulfillmentOrderItemCancelLineIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 55001234 | The SKU level item identifier. |


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**Table 4-66 (Cont.) FulfillmentOrderItemCancelLineIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineNumber | NA | number($int10) example: 2 | The line number of the fulfillment order this item is fulfilling. |
| preferredUom | NA | string($text4) example: KG | The preferred unit of measure the item quantities should be processed or displayed in. |
| standardUom | NA | string($text4) example: KG | The standard unit of measure for the item. |
| quantityCanceled | Yes | number($decimal(12,4)) example: 2 | The quantity canceled on this line itemm. |

## Responses

This section describes the responses of the Cancel Fulfillment Order Quantities API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "customerOrderId": "222345666",
    "fulfillmentOrderId": "76544400",
    "storeId": 1234,
    "lineItems": [
      {
        "itemId": "55001234",
        "lineNumber": 2,
        "preferredUom": "KG",
        "standardUom": "KG",
        "quantityCanceled": 2
      }
    ]
  }
]
```

### Schema — FulfillmentOrderCancelStatusIdo


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**Table 4-67 FulfillmentOrderCancelStatusIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | NA | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | NA | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |
| lineItems | NA | object | A collection of line items with the quantities that were cancelled. |

**Table 4-68 FulfillmentOrderCancelStatusItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| lineNumber | NA | number($int10) example: 2 | The line number of the fulfillment order this item is fulfilling. |
| preferredUom | NA | string($text4) example: KG | The preferred unit of measure the item quantities should be processed or displayed in. |
| standardUom | NA | string($text4) example: KG | The standard unit of measure for the item. |
| quantityCanceled | NA | number($decimal(12,4)) example: 2 | The quantity canceled on this line itemm. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Fulfillment Order Delivery

Delivering of a customer order consists of collecting the items that have been picked and then getting them to the customer (shipment or pickup). This might be for a customer pickup or shipping them to the customer.This service integrations a fulfillment order delivery with an external application.

## Service Base URL


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The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

# Find Delivery

Finds up to a maximum of 500 fulfillment order delivery headers based on input search criteria.

## Method

```
GET
```

## URL

```
/fulfillorderdeliveries
```

## Request Parameters

**Table 4-69 Find Delivery - Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | integer($int10) (query) | Include only customer deliveries from this store. |
| orderId | NA | number($int12) (query) | Include only customer deliveries for this SIOCS fulfillment order id. |
| externalDeliveryId | NA | string($text25) (query) | Included only customer deliveries with this external identifier. |
| status | NA | integer($int4) (query) | Include only customer deliveries this status. Valid values are<br>1 - In Progress<br>2 - Submitted<br>3 - Completed<br>4 - Canceled<br>*Available values*: 1, 2, 3, 4 |
| updateDateFrom | NA | string($date-time) (query) | Include only customer deliveries with an update date on or after this date. |


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**Table 4-69 (Cont.) Find Delivery - Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| updateDateTo | NA | string($date-time) (query) | Include only customer deliveries with an update date on or before this date. |

## Responses

This section describes the responses of the Find Delivery API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "deliveryId": 11111,
    "orderId": 11111,
    "storeId": 1234,
    "status": 1,
    "submitDate": "2025-04-11T10:06:38.846Z",
    "submitUser": "smith123",
    "dispatchDate": "2025-04-11T10:06:38.846Z",
    "dispatchUser": "smith123",
    "createDate": "2025-04-11T10:06:38.846Z",
    "createUser": "smith123",
    "updateDate": "2025-04-11T10:06:38.846Z",
    "updateUser": "smith123"
  }
]
```

### Schema — FulfillmentOrderDeliveryHeaderIdo

**Table 4-70 FulfillmentOrderDeliveryHeaderIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | NA | number (int12) example 11111 | The unique identifier of the fulfillment order delivery. |
| orderId | NA | number (int12) example 11111 | The unique SIOCS identifier of the fulfillment order. |
| storeId | NA | number (int10) example 1234 | The identifier of the store at which this order will be fulfilled. |


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**Table 4-70 (Cont.) FulfillmentOrderDeliveryHeaderIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| status | NA | integer (int4) example 1 | The current status of the customer delivery. Valid values are:<br>1 - In Progress<br>2 – Submitted<br>3 – Completed<br>4 - Canceled<br>Enum: 1,2,3, 4 |
| submitDate | NA | string (date-time) | The date the delivery was submitted. |
| submitUser | NA | string (text128) example: smith123 | The user that submitted the delivery. |
| dispatchDate | NA | string (date-time) | The date the delivery was dispatched. |
| dispatchUser | NA | string (text128) example: smith123 | The user that dispatched the delivery. |
| createDate | NA | string (date-time) | The date the delivery was created |
| createUser | NA | string (text128) example: smith123 | The user that created the delivery |
| updateDate | NA | string (date-time) | The date the delivery was updated. |
| updateUser | NA | string (text128) example: smith123 | The user that last updated the delivery. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Delivery

Creatures a fulfillment order delivery from an order (and responds with the newly created delivery).

### Method

```
POST
```

### URL

```
/fulfillorderdeliveries
```

### Request Parameters


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There are no request parameters.

The request body is application/json.

The fulfillment order delivery to create.

## Example Value

```
{
  "orderId": 11111,
  "carrierRole": 1,
  "carrierId": 112233,
  "carrierServiceId": 445566,
  "alternateAddress": "PO Box 28, Apple Street, Nowhereville",
  "alternateCarrierName": "Speedy Delivery",
  "alternateCarrierAddress": "200 Box Street, Nowhereville",
  "motiveId": 874297,
  "trackingNumber": "ANV343255",
  "cartonSizeId": 9375834,
  "cartonWeight": 12.1,
  "cartonWeightUom": "KG",
  "requestedPickupDate": "2025-04-11T10:16:03.960Z",
  "lineItems": [
    {
      "orderLineId": 11111,
      "quantity": 11111,
      "uins": [
        11111,
        22222
      ]
    }
  ]
}
```

## Schema —FulfillmentOrderDeliveryCreateIdo

**Table 4-71 FulfillmentOrderDeliveryCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderId | Yes | number *(int12)* example: 11111 | The unique SIOCS identifier of the fulfillment |
| carrierRole | NA | number *(int2)* example: 1 | The type of carrier. Valid values are:<br>1 – Sender<br>2 – Received<br>3 - Third Party<br>Enum: 1, 2, 3 |
| carrierId | NA | number *(int10)* example:112233 | The unique identifier of the carrier. |
| carrierServiceId | NA | number *(int10)* example:445566 | The unique identifier of the carrier service being used. |


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**Table 4-71 (Cont.) FulfillmentOrderDeliveryCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| alternateAddress | NA | string *(text2000)* example: PO Box 28, Apple Street, Nowhereville | An alternate destination address for the delivery. |
| alternateCarrierName | NA | string *(text240)* example: Speedy Delivery | Name of the carrier responsible for the delivery. |
| alternateCarrierAddress | NA | string *(text2000)* example: 200 Box Street, Nowhereville | Address of the carrier responsible for the delivery. |
| motiveId | NA | number *(int18)* example:874297 | The unique identifier of the motive. |
| trackingNumber | NA | string *(text128)* example: ANV343255 | A tracking number for the shipment |
| cartonSizeId | NA | number *(int12)* example: 9375834 | The unique identifier of a carton size (dimension) for that store. |
| cartonWeight | NA | number *(decimal(12,4))* example: 12.1 | The weight of the shipment. |
| cartonWeightUom | NA | string *(text4)* example KG | The unit of measure of the shipment weight. |
| requestedPickupDate | NA | string *(date-time)* | The date that this delivery will be picked up |
| lineItems | Yes | object | A collection of up to 500 line items on the fulfillment order delivery. |

**Table 4-72 FulfillmentOrderDeliveryCreateItemIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| orderLineId | Yes | number($int12) example: 11111 | The unique identifier of the fulfillment order line item being delivered. |
| quantity | Yes | number($decimal(20,4)) example: 11111 | The quantity being delivered. |
| uins | NA | string ($text128) example: List [ 11111, 22222 ] | A list of uins (must match the quantity) if serial numbers are being delivered. |

## Responses

This section describes the responses of the Create Delivery API.

### Response Code: 200

The request has been successful.


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The media type is application/json.

## Example Value


```
[
  {
    "deliveryId": 11111,
    "orderId": 11111,
    "storeId": 1234,
    "status": 1,
    "billOfLadingId": 573804,
    "additionalReference": "XDER78393",
    "submitDate": "2025-04-11T15:39:51.433Z",
    "submitUser": "smith123",
    "dispatchDate": "2025-04-11T15:39:51.433Z",
    "dispatchUser": "smith123",
    "createDate": "2025-04-11T15:39:51.433Z",
    "createUser": "smith123",
    "updateDate": "2025-04-11T15:39:51.433Z",
    "updateUser": "smith123",
    "lineItems": [
      {
        "lineId": 333444,
        "orderLineId": 4563,
        "quantity": 10,
        "caseSize": 6
      }
    ]
  }
]
```


## Schema - FullfillmentOrderDeliveryIdo

**Table 4-73 FulfillmentOrderDeliveryIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | NA | number($int12)<br>example: 11111 | The unique identifier of the fulfillment order delivery. |
| orderId | NA | number($int12)<br>example: 11111 | The unique SIOCS identifier of the fulfillment order. |
| storeId | NA | number($int10)<br>example: 1234 | The identifier of the store at which this order will be fulfilled. |
| status | NA | integer($int4)<br>example: 1 | The current status of the customer delivery. Valid values are<br>1 - In Progress<br>2 - Submitted<br>3 - Completed<br>4 - Canceled<br>Enum: [ 1, 2, 3, 4 ] |


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**Table 4-73 (Cont.) FulfillmentOrderDeliveryIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| billOfLadingId | NA | number($int12) example: 573804 | The shipment bill of lading identifier. |
| additionalReference | NA | string($text128) example: XDER78393 | A government reference identifier from an external system. |
| submitDate | NA | string($date-time) | The date the delivery was submitted. |
| submitUser | NA | string($text128) example: smith123 | The user that submitted the delivery. |
| dispatchDate | NA | string($date-time) | The date the delivery was dispatched. |
| dispatchUser | NA | string($text128) example: smith123 | The user that dispatched the delivery. |
| createDate | NA | string($date-time) | The date the delivery was created. |
| createUser | NA | string($text128) example: smith123 | The user that created the delivery. |
| updateDate | NA | string($date-time) | The date the delivery was updated. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the delivery. |
| lineItems | NA | object | A collection of line items on the fulfillment order delivery. |

**Table 4-74 FulfillmentOrderDeliveryLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| lineId | NA | number($int12)example: 333444 | The unique identifier of the line item. |
| orderLineId | NA | number($int12)example: 4563 | The unique identifier of the fulfillment order line item this delivery item is for. |
| quantity | NA | number($decimal(12,4))example: 10 | The quantity to be delivered. |
| caseSize | NA | number($decimal(10,2))example: 6 | The case size of this line item. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# Read Delivery

This API retrieves all the details about a fulfillment order delivery.

## Method

```
GET
```

## URL

```
/fulfillorderdeliveries/{deliveryId}
```

## Request Parameters

**Table 4-75 Read Delivery — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the fulfillment order delivery. |

## Responses

This section describes the responses of the Read Delivery API.

### Response Code: 200

The request has been successful.

The media type is application/json.

For details about the schema, see the Schema - FullfillmentOrderDeliveryIdo section.

### Example Value


```
[
  {
    "deliveryId": 11111,
    "orderId": 11111,
    "storeId": 1234,
    "status": 1,
    "billOfLadingId": 573804,
    "additionalReference": "XDER78393",
    "submitDate": "2025-04-14T06:44:40.769Z",
    "submitUser": "smith123",
    "dispatchDate": "2025-04-14T06:44:40.769Z",
    "dispatchUser": "smith123",
```



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```
    "createDate": "2025-04-14T06:44:40.769Z",
    "createUser": "smith123",
    "updateDate": "2025-04-14T06:44:40.769Z",
    "updateUser": "smith123",
    "lineItems": [
      {
        "lineId": 333444,
        "orderLineId": 4563,
        "quantity": 10,
        "caseSize": 6
      }
    ]
  }
]
```

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Delivery

This section describes the Update Delivery API. This API updates the details of an order delivery that is currently "In Progress". Detailed information left blank using this service will remove this information from the delivery.

### Method

```
POST
```

### URL

```
/fulfillorderdeliveries/{deliveryId}
```

### Request Parameters

**Table 4-76 Update Delivery — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12)(path) | The unique identifier of the fulfillment order delivery. |

The request body is application/json.

The fulfillment order delivery to update.


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## Example Value


```
{
  "carrierRole": 1,
  "carrierId": 112233,
  "carrierServiceId": 445566,
  "alternateAddress": "PO Box 28, Apple Street, Nowhereville",
  "alternateCarrierName": "Speedy Delivery",
  "alternateCarrierAddress": "200 Box Street, Nowhereville",
  "motiveId": 874297,
  "trackingNumber": "ANV343255",
  "cartonSizeId": 9375834,
  "cartonWeight": 12.1,
  "cartonWeightUom": "KG",
  "requestedPickupDate": "2025-04-14T08:49:44.110Z",
  "lineItems": [
    {
      "orderLineId": 11111,
      "quantity": 2,
      "uins": [
        11111,
        22222
      ]
    }
  ]
}
```


## Schema — FulfillmentOrderDeliveryUpdateIdo

**Table 4-77 FulfillmentOrderDeliveryUpdateIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| carrierRole | NA | number($int2) example: 1 | The type of carrier. Valid values are:<br>1 - Sender<br>2 - Received<br>3 - Third Party<br>Enum: [ 1, 2, 3 ] |
| carrierId | NA | number($int10) example: 112233 | The unique identifier of the carrier. |
| carrierServiceId | NA | number($int10) example: 445566 | The unique identifier of the carrier service being used. |
| alternateAddress | NA | string($text2000) example: PO Box 28, Apple Street, Nowhereville | An alternate destination address for the delivery. |
| alternateCarrierName | NA | string($text240) example: Speedy Delivery | Name of the carrier responsible for the delivery. |


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**Table 4-77 (Cont.) FulfillmentOrderDeliveryUpdateIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| alternateCarrierAddress | NA | string($text2000) example: 200 Box Street, Nowhereville | Address of the carrier responsible for the delivery. |
| motiveId | NA | number($int18) example: 874297 | The unique identifier of the motive. |
| trackingNumber | NA | string($text128) example: ANV343255 | A tracking number for the shipment. |
| cartonSizeId | NA | number($int12) example: 9375834 | The unique identifier of a carton size (dimension) for that store. |
| cartonWeight | NA | number($decimal(12,4)) example: 12.1 | The weight of the shipment. |
| cartonWeightUom | NA | string($text4) example: KG | The unit of measure of the shipment weight. |
| requestedPickupDate | NA | string($date-time) | The date that this delivery will be picked up. |
| lineItems | NA | object | A collection of up to 500 line items on the fulfillment order delivery. |

**Table 4-78 FulfillmentOrderDeliveryUpdateItemIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderLineId | Yes | number($int12) example: 11111 | The unique identifier of the fulfillment order line item being delivered. |
| quantity | Yes | number($decimal(20,4)) example: 2 | The quantity being delivered. If the quantity is reduced to 0, this item will be removed from the delivery. |
| uins | NA | string($text128) example: List [ 11111, 22222 ] | A list of uins (must match the quantity) if serial numbers are being delivered. |

## Responses

This section describes the responses of the Update Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# Submit Delivery

This section describes the Submit Delivery API.This API will submit the delivery and set it to Submitted status. Submit is only available when store configured for Dispatch Validate to Ship Submit. Submitting will set the delivery to a Submitted status and not allow for edits, since there are no updates to inventory at this point. The only step possible will be to cancel Submit or Dispatch.

## Method

`POST`

## URL

`/fulfillorderdeliveries/{deliveryId}/submit`

## Request Parameters

**Table 4-79 Submit Delivery — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12)(path) | The unique identifier of the fulfillment order delivery. |

## Responses

This section describes the responses of the Submit Delivery API.

## Response Code: 204

No content

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Submit Delivery

This section describes the Cancel Submit Delivery API. This API cancels a fulfillment order delivery submission.


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## Method

POST

## URL

/fulfillorderdeliveries/{deliveryId}/cancelSubmit

## Request Parameters

**Table 4-80 Cancel Submit Delivery — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12)(path) | The unique identifier of the fulfillment order delivery. |

## Responses

This section describes the responses of the Cancel Submit Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Dispatch Delivery

This section describes the Dispatch Delivery API. Dispatch will check if Allow Partial Indicator is set to No, it will validate that the entire order is being delivered together. If not, the system will restrict the user from dispatching. Those users with certain privileges will be able to override this and it will be a warning. If Allow Partial Indicator is set to Yes, the customer order can be delivered partially. If system parameter 'Customer Order Fulfillment Restriction' is set to 'Line Controlled' and Allow Partial Indicator is set to Yes, if an item is getting delivered then it has to be delivered fully. Partial delivery of an item is not allowed. Also, if the store parameter Manifest Customer Order Deliveries is set to No and system parameter Tracking ID Required is set to Yes, the system should check if the Tracking ID has been captured or not, if not captured, an error message will be displayed. Upon dispatch of the delivery the delivery will move to Completed status, and user returns to the Delivery List screen. The stock on hand and customer order reserved quantities will be decremented by the delivered quantities. The


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customer order fulfillment order will have the delivered and remaining quantity updated. If the entire customer order has been fulfilled, meaning there is no remaining quantity, the customer order will be set to Completed status. If the system is enabled to obtain Fiscal Doc ID/E-way bill ID as part of the shipping process, the delivery cannot be dispatched until the Fiscal Doc ID/E-way bill ID is available. The exception is when the user has 'Allow dispatch without Fiscal Document ID' security permission.

### Method

POST

### URL

/fulfillorderdeliveries/{deliveryId}/dispatch

### Request Parameters

**Table 4-81 Dispatch Delivery — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12)(path) | The unique identifier of the fulfillment order delivery. |

### Responses

This section describes the responses of the Dispatch Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## REST Service: Fulfillment Order Pick

The Picking process is a formal process of the system telling the user what items need to be picked and the user going out, physically picking the items, and setting them aside. Once the items are set aside, they will then be used during the fulfillment process for shipping to, or pick up by the customer.The service integrates a fulfillment order pick with an external application.


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# Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

# Find Pick

Finds up to a maximum of 3,0000 fulfillment order picks based on input search criteria.

## Method

```
GET
```

## URL

```
/fulfillorderpicks
```

## Request Parameters

**Table 4-82 Find Pick — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | integer($int10) (query) | Include only order picks for this store. |
| orderId | NA | integer($int12) (query) | Include only order picks with this fulfillment order identifier. |
| itemId | NA | string($text25) (query) | Include only order picks orders containing this item. |
| status | NA | integer($int4) (query) | 1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>99 - Active<br>Available values : 1, 2, 3, 4, 99 |
| createDateFrom | NA | string($date-time) (query) | Include only order picks with an create date on or after this date. |
| createDateTo | NA | string($date-time) (query) | Include only order picks with an create date on or before this date. |

## Responses

This section describes the responses of the Find Pick API.


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## Response Code: 200

The request has been successful.

The media type is application/json.

## Example Value


```
[
  {
    "deliveryId": 11111,
    "orderId": 11111,
    "storeId": 1234,
    "status": 1,
    "submitDate": "2025-04-11T10:06:38.846Z",
    "submitUser": "smith123",
    "dispatchDate": "2025-04-11T10:06:38.846Z",
    "dispatchUser": "smith123",
    "createDate": "2025-04-11T10:06:38.846Z",
    "createUser": "smith123",
    "updateDate": "2025-04-11T10:06:38.846Z",
    "updateUser": "smith123"
  }
]
```


## Schema — FulfillmentOrderPickHeaderIdo

**Table 4-83 FulfillmentOrderPickHeaderIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| pickId | NA | number($int12) example: 11111 | The unique identifier of the fulfillment order pick. |
| storeId | NA | number($int10) example: 1234 | The store this pick will occur at. |
| type | NA | integer($int4) example: 1 | The type of pick. Valid values are:<br>1 - Order<br>2 - Bin<br>Enum: [ 1, 2 ] |
| status | NA | integer($int4) example: 1 | The current status of the order pick. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>Enum: [ 1, 2, 3, 4] |
| productBasketId | NA | integer($int12) example: 488552 | The identifier of the product basket associated to the pick. |
| createDate | NA | string($date-time) | The date the order pick was created. |


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**Table 4-83 (Cont.) FulfillmentOrderPickHeaderIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| createUser | NA | string($text128) example: smith123 | The user that created the order pick. |
| completeDate | NA | string($date-time) | The date the order pick was completed. |
| completeUser | NA | string($text128) example: smith123 | The user the completed the order pick. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Pick

This API retrieves all the details about a fulfillment order pick.

## Method

```
GET
```

## URL

```
/fulfillorderpicks/{pickId}
```

## Request Parameters

**Table 4-84 Read Pick - Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| pickId | Yes | number($int12) (path) | The unique identifier of the fulfillment order pick. |

## Responses

This section describes the responses of the Read Pick API.


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## Response Code: 200

The request has been successful.

The media type is application/json.

## Example Value


```
[
  {
    "pickId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "productBasketId": 488552,
    "createDate": "2025-04-14T12:15:59.708Z",
    "createUser": "smith123",
    "completeDate": "2025-04-14T12:15:59.708Z",
    "completeUser": "smith123",
    "lineItems": [
      {
        "lineId": 333444,
        "itemId": "55001234",
        "orderId": 100,
        "orderLineId": 200,
        "substituteLineId": 5600043,
        "preferredUom": "KG",
        "caseSize": 10,
        "quantitySuggested": 2,
        "quantityPicked": 6,
        "ordinal": 6
      }
    ]
  }
]
```


## Schema — FulfillmentOrderPickIdo

**Table 4-85 FulfillmentOrderPickIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| pickId | NA | number($int12) example: 11111 | The unique identifier of the fulfillment order. |
| storeId | NA | number($int10) example: 5000 | The store this pick will occur at. |


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**Table 4-85 (Cont.) FulfillmentOrderPickIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| type | NA | integer($int4) example: 1 | The type of pick. Valid values are:<br>1 - Order<br>2 - Bin<br>Enum: Array [ 2 ] |
| status | NA | integer($int4) example: 1 | The current status of the order pick. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>Enum: [ 1, 2, 3, 4 ] |
| productBasketId | NA | integer($int12) example: 488552 | The identifier of the product basket associated to the pick. |
| createDate | NA | string($date-time) | The date the order pick was created. |
| createUser | NA | string($text128) example: smith123 | The user that created the order pick. |
| completeDate | NA | string($date-time) | The date the order pick was completed. |
| completeUser | NA | string($text128) example: smith123 | The user the completed the order pick. |
| lineItems | NA | object | A collection of line items on the fulfillment order pick. |

**Table 4-86 FulfillmentOrderLineItemPickIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | number($int12) example: 333444 | The unique identifier of the line item. |
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| orderId | NA | number($int12) example: 100 | The unique SIOCS identifier of the fulfillment order. |
| orderLineId | NA | number($int12) example: 200 | The unique SIOCS identifier of the fulfillment order line item. |
| substituteLineId | NA | number($int12) example: 5600043 | The identifier of another pick line item for which this item is a substitute for. |
| preferredUom | NA | string($text4) example: KG | The preferred unit of measure in which to pick. |
| caseSize | | number($decimal(10,2)) example: 10 | The case of this item pick. |


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**Table 4-86 (Cont.) FulfillmentOrderLineItemPickIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| quantitySuggested | | number($decimal(12,4)) example: 2 | The suggested quantity to pick for this item. |
| quantityPicked | | number($decimal(12,4)) example: 6 | The quantity picked for this line item. |
| ordinal | | integer($int4) example: 6 | The order in which this line should be picked. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Pick

This section describes the Update Pick API. This API updates the fulfillment order pick.

### Method

```
POST
```

### URL

```
/fulfillorderpicks/{pickId}
```

### Request Parameters

**Table 4-87 Update Pick— Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| pickId | Yes | number($int12)(path) | The unique identifier of the fulfillment order pick. |

The request body is application/json.

Details to update the fulfillment order pick from.


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## Example Value

```
{
  "lineItems": [
    {
      "lineId": 333444,
      "quantity": 2,
      "substituteItems": [
        {
          "itemId": 333444,
          "quantity": 2
        }
      ]
    }
  ]
}
```

## Schema — FulfillmentOrderPickUpdateIdo

**Table 4-88 FulfillmentOrderPickUpdateIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineItems | Yes | object | A collection of line items on the fulfillment order pick. |

**Table 4-89 FulfillmentOrderPickUpdateItemIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | Yes | number($int12) example: 333444 | The unique identifier of the line item. |
| quantity | Yes | number($decimal(12,4)) example: 2 | The quantity picked for this item. |
| substituteItems | NA | object | A collection of line items on the fulfillment order pick. |

**Table 4-90 FulfillmentOrderPickUpdateSubstituteIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | number($int12) example: 333444 | The SKU number of the item. |
| quantity | Yes | number($decimal(12,4)) example: 2 | The quantity picked for this item. |


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## Responses

This section describes the responses of the Update Pick API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Pick

This section describes the Confirm Pick API. This API confirms the fulfillment order pick.

## Method

`POST`

## URL

`/fulfillorderpicks/{pickId}/confirm`

## Request Parameters

**Table 4-91 Confirm Pick — Request Parameters**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| pickId | Yes | number($int12) (path) | The unique identifier of the fulfillment order pick. |

## Responses

This section describes the responses of the Confirm Pick API.

### Response Code: 204

No content


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Cancel Pick

This section describes the Cancel Pick API. This API cancels the fulfillment order pick.

### Method

`POST`

### URL

`/fulfillorderpicks/{pickId}/cancel`

### Request Parameters

**Table 4-92 Cancel Pick — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| pickId | Yes | number($int12) (path) | The unique identifier of the fulfillment order pick. |

### Responses

This section describes the responses of the Cancel Pick API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Pick By Order


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Creates new fulfillment order pick within the system by order information. It returns the pick that it created.

## Method

```
POST
```

## URL

```
/fulfillorderpicks/orders
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details to generate the fulfillment order pick from.

### Example Value

```
{
  "orderId": 11111,
  "productBasketId": 488552
}
```

### Schema - FulfillmentOrderPickByOrderCreateIdo

**Table 4-93 FulfillmentOrderPickByOrderCreateIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderId | Yes | number($int 12) example: 11111 | The unique SIOCS identifier of the fulfillment order. |
| productBasketId | NA | integer($int12) example: 488552 | The identifier of the product basket to generate the pick from. |

## Responses

This section describes the responses of the Create Pick By Order API.

### Response Code: 200

The request has been successful.

The media type is application/json.


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For details about the schema, see the Schema — FulfillmentOrderPickIdo section.

### Example Value


```
[
  {
    "pickId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "productBasketId": 488552,
    "createDate": "2025-04-14T13:09:21.228Z",
    "createUser": "smith123",
    "completeDate": "2025-04-14T13:09:21.228Z",
    "completeUser": "smith123",
    "lineItems": [
      {
        "lineId": 333444,
        "itemId": "55001234",
        "orderId": 100,
        "orderLineId": 200,
        "substituteLineId": 5600043,
        "preferredUom": "KG",
        "caseSize": 10,
        "quantitySuggested": 2,
        "quantityPicked": 6,
        "ordinal": 6
      }
    ]
  }
]
```


### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Pick By Bin

Creates new fulfillment order pick within the system by bin information. It returns the pick that it created.

### Method

`POST`


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## URL

```
/fulfillorderpicks/bins
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details to generate the fulfillment order pick from.

### Example Value

```
{
  {
  "storeId": 5000,
  "productBasketId": 488552,
  "numberOfBins": 2,
  "binIds": [
    333000,
    444001
  ]
}
```

### Schema - FulfillmentOrderPickByBinCreateIdo

**Table 4-94 FulfillmentOrderPickByBinCreateIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 5000 | The unique identifier of the store. |
| productBasketId | NA | integer($int12) example: 488552 | The identifier of the product basket to generate the pick from. |
| numberOfBins | NA | integer($int3) example: 2 | The number of bins being picked. This is required if store generation bin option is system generation. |
| binIds | NA | string($text128) example: List [ 333000, 444001 ] | If manual bin generation is set for the store, this must contain all the bin identifiers. This is required when store generation bin option is manual generation. |

## Responses

This section describes the responses of the Create Pick By Bin API.

### Response Code: 200


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The request has been successful.

The media type is application/json.

For details about the schema, see the Schema — FulfillmentOrderPickIdo section.

### Example Value


```
{
  "pickId": 11111,
  "storeId": 5000,
  "type": 1,
  "status": 1,
  "productBasketId": 488552,
  "createDate": "2025-04-14T13:48:55.269Z",
  "createUser": "smith123",
  "completeDate": "2025-04-14T13:48:55.269Z",
  "completeUser": "smith123",
  "lineItems": [
    {
      "lineId": 333444,
      "itemId": "55001234",
      "orderId": 100,
      "orderLineId": 200,
      "substituteLineId": 5600043,
      "preferredUom": "KG",
      "caseSize": 10,
      "quantitySuggested": 2,
      "quantityPicked": 6,
      "ordinal": 6
    }
  ]
}
]
```


### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Fulfillment Order Reverse Pick

Canceling of customer orders can come in from an external system, such as an Order Management System. When this happens, a reverse pick list will be generated. If there are items that physically need to be un-picked, the user will action the reverse pick list which will then take the items that were canceled and move the picked quantities back to the appropriate area in the store. If the items that are being canceled are not picked, then the system generated reverse pick will just be created in a Completed status with no action required through the application.A system-generated reverse pick may get created if the user rejects an open customer order.A manual reverse pick might also be necessary. This happens when the


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user discovers that something which was picked has to be unpicked, maybe because it has been damaged. The manual reverse pick will reverse the pick quantities.This service integrates a fulfillment order reverse pick with an external application.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Reverse Pick

Finds up to a maximum of 500 order reverse pick headers based on input search criteria.

### Method

```
GET
```

### URL

```
/fulfillorderreversepicks
```

### Request Parameters

**Table 4-95 Find Reverse Pick — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | integer($int10) (query) | Include only reverse picks for this store. |
| status | NA | integer($int4) (query) | Include only reverse picks orders with this status. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>Available values : 1, 2, 3, 4 |
| orderId | NA | integer($int12) (query) | Include only reverse picks for this fulfillment order identifier. |
| itemId | NA | string($text25) (query) | Include only reverse picks that contain this item. |
| createDateFrom | NA | string($date-time) (query) | Include only reverse picks with a create date on or after this date. |
| createDateTo | NA | string($date-time) (query) | Include only reverse picks with a create date on or before this date. |


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# Responses

This section describes the responses of the Find Reverse Pick API.

## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "reversePickId": 1234,
    "storeId": 5000,
    "orderId": 11111,
    "status": 1,
    "createUser": "smith123",
    "createDate": "2025-04-14T14:06:42.816Z"
  }
]
```

### Schema — FulfillmentOrderReversePickHeaderIdo

**Table 4-96 [FulfillmentOrderReversePickHeaderIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| reversePickId | NA | number($int12) example: 1234 | The identifier of the reverse pick. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store for this reverse pick. |
| orderId | NA | number($int12) example: 11111 | The unique identifier of the fulfillment order the reverse pick is for. |
| status | NA | integer($int4) example: 1 | The current status of the reverse pick. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>Enum: [ 1, 2, 3, 4 ] |
| createUser | NA | string($text128) example: smith123 | The user that created the reverse pick. |
| createDate | NA | string($date-time) | The date the reverse pick was created in SIOCS. |


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Reverse Pick

This section describes the Create Reverse Pick API. This API will create a new reverse pick within the system. It responds with the reverse pick that it created.

### Method

```
POST
```

### URL

```
/fulfillorderreversepicks
```

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the reverse pick to create.

#### Example Value

```
{
  "orderId": 222345666,
  "lineItems": [
    {
      "orderLineId": 55001234,
      "quantity": 2
    }
  ]
}
```

#### Schema — FulfillmentOrderReversePickCreateIdo


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**Table 4-97 FulfillmentOrderReversePickCreatedo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderID | Yes | number($int12) example: 222345666 | The unique SIOCS identifier of the fulfillment order to be reverse picked. |
| lineItems | Yes | object | A collection of line items to reverse pick. |

**Table 4-98 FulfillmentOrderReversePickCreateItemIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderLineId | Yes | number($int12) example: 55001234 | The unique identifier of the fulfillment order line item to be reverse picked. |
| quantity | Yes | number($decimal(12,4)) example: 2 | The quantity to reverse pick. |

## Responses

This section describes the responses of the Create Reverse Pick API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "reversePickId": 1234,
    "storeId": 5000,
    "orderId": 11111,
    "status": 1,
    "createUser": "smith123",
    "createDate": "2025-04-15T08:14:57.283Z",
    "lineItems": [
      {
        "lineId": 333444,
        "orderLineId": 55001234,
        "caseSize": 10,
        "quantitySuggested": 6,
        "quantityReversePick": 2
      }
    ]
```



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## Schema — FulfillmentOrderReversePickIdo

**Table 4-99 FulfillmentOrderReversePickIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| reversePickId | NA | number($int12) example: 1234 | The identifier of the reverse pick. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store for this reverse pick. |
| orderId | NA | number($int12) example: 11111 | The unique identifier of the fulfillment order the reverse pick is for. |
| status | NA | integer($int4) example: 1 | The current status of the reverse pick. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>Enum: [ 1, 2, 3, 4 |
| createUser | NA | string($text128) example: smith123 | The user that created the reverse pick. |
| createDate | NA | string($date-time) | The date the reverse pick was created in SIOCS. |
| lineItems | NA | object | A collection of line items on the fulfillment order reverse pick. |

**Table 4-100 FulfillmentOrderReversePickLineItemIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | number($int12) example: 333444 | The unique identifier of the line item. |
| orderLineId | NA | number($int12) example: 55001234 | The unique identifier of the fulfillment order line item to be reverse picked. |
| caseSize | NA | number($decimal(10,2)) example: 10 | The case size of this item reverse pick. |
| quantitySuggested | NA | number($decimal(12,4)) example: 6 | The system suggested reverse pick quantity. |
| quantityReversePick | NA | number($decimal(12,4)) example: 2 | The actual quantity that was reverse picked. |

## Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# Read Reverse Pick

This API retrieves all the details about a fulfillment order reverse pick.

## Method

```
GET
```

## URL

```
/fulfillorderreversepicks/{reversePickId}
```

## Request Parameters

**Table 4-101 Read Reverse Pick — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| reversePickId | Yes | number($int12) (path) | The unique identifier of the fulfillment order reverse pick. |

## Responses

This section describes the responses of the Read Reverse Pick API.

### Response Code: 200

The request has been successful.

The media type is application/json.

For details about the schema, see the Schema - FulfillmentOrderReversePickIdo section.

### Example Value


```
[
  {
    "reversePickId": 1234,
    "storeId": 5000,
    "orderId": 11111,
    "status": 1,
    "createUser": "smith123",
    "createDate": "2025-04-15T06:35:19.059Z",
    "lineItems": [
      {
        "lineId": 333444,
```



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```
        "orderLineId": 55001234,
        "caseSize": 10,
        "quantitySuggested": 6,
        "quantityReversePick": 2
      }
    ]
  }
]
```

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Reverse Pick

This section describes the Update Reverse Pick API. This API updates the fulfillment order reverse pick.

### Method

`POST`

### URL

`/fulfillorderreversepicks/{reversePickId}`

### Request Parameters

**Table 4-102 Update Reverse Pick— Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| reversePickId | Yes | number($int12)(path) | The unique identifier of the fulfillment order reverse pick. |

The request body is application/json.

Details to update the fulfillment order reverse pick from.

### Example Value

```
{{
  "lineItems": [
    {
```


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```
      "orderLineId": 55001234,
      "quantity": 2
    }
  ]
}
```

## Schema — FulfillmentOrderReversePickUpdateIdo

**Table 4-103 FulfillmentOrderReversePickUpdateIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineItems | Yes | object | A collection of line items to update. |

**Table 4-104 FulfillmentOrderReversePickUpdateItemIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderLineId | Yes | number($int12) example: 55001234 | The unique identifier of the fulfillment order line item to be reverse picked. |
| quantity | Yes | number($decimal(12,4)) example: 2 | The quantity to reverse pick. |

# Responses

This section describes the responses of the Update Reverse Pick API.

## Response Code: 204

No content

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Reverse Pick

This section describes the Confirm Reverse Pick API. This API confirms the fulfillment order reverse pick.


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## Method

POST

## URL

/fulfillorderreversepicks/{reversePickId}/confirm

## Request Parameters

**Table 4-105 Confirm Pick— Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| reversePickId | Yes | number($int12)(path) | The unique identifier of the fulfillment order reverse pick. |

## Responses

This section describes the responses of the Confirm Reverse Pick API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Reverse Pick

This section describes the Cancel Reverse Pick API. This API cancels the fulfillment order reverse pick.

## Method

POST


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## URL

```
/fulfillorderreversepicks/{reversePickId}/cancel
```

## Request Parameters

**Table 4-106 Cancel Reverse Pick— Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| reversePickId | Yes | number($int12)(path) | The unique identifier of the fulfillment order reverse pick. |

## Responses

This section describes the responses of the Cancel Reverse Pick API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Inventory Adjustment

Inventory Adjustments allow a user to change the number of units in stock or mark them as non-sellable due to damage. Reason codes are defined on the desktop. When creating a reason code, a disposition is assigned to the reason code and it defines how the stock will be moved. So, adjustments are made to different buckets depending on the reason code's disposition. For example, a reason code of Stock - In has a disposition of + Stock on Hand which moves inventory from Out of the store to Available inventory where as, a Reason if Damaged - Hold has a disposition of + Unavailable that moves inventory from Available to Unavailable. See Reason Codes REST service for the ability to retrieve reason code. The service defines operations to manage inventory adjustment information by integration with an external system.

## Service Base URL


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The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

# Find Inventory Adjustment

This section describes the Find Inventory Adjustment API. This API finds up to a maximum of 10,000 inventory adjustments headers based on input search criteria. No items or detailed information is returned via this search.

## Method

```
GET
```

## URL

```
/invadjustments
```

## Request

**Table 4-107 Find Inventory Adjustment — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| referenceId | NA | number ($int12) (query) | Include only records with this reference identifier. |
| status | NA | integer ($int4) (query) | Include only records with this inventory adjustment status. Valid values are:<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>*Available values* : 1, 2, 3 --123 |
| adjustmentDateFrom | NA | string ($date-time) (query) | Include only records with an adjustment date on or after this date. |
| adjustmentDateTo | NA | string ($date-time) (query) | Include only records with an adjustment date on or before this date. |
| updateDateFrom | NA | string ($date-time) (query) | Include only records with an update date on or after this date. |
| updateDateTo | NA | string ($date-time) (query) | Include only records with an update date on or before this date. |
| itemId | NA | string ($text25) (query) | Include only records of adjustments containing this item. |
| reasonId | NA | number ($int12) (query) | Include only records of adjustments containing this reason. |


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# Responses

This section describes responses of the Find Inventory Adjustment API.

## Response Code: 200

The response has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "adjustmentId": 11111,
    "storeId": 1234,
    "referenceId": 7890,
    "externalId": "AB87656",
    "adjustmentDate": "2024-09-11T13:30:40.820Z",
    "status": 1,
    "createDate": "2024-09-11T13:30:40.820Z",
    "updateDate": "2024-09-11T13:30:40.820Z",
    "approveDate": "2024-09-11T13:30:40.820Z"
  }
]
```


### Schema — InventoryAdjustmentHeaderIdo

This section describes the InventoryAdjustmentHeaderIdo schema.

**Table 4-108 InventoryAdjustmentHeaderIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | NA | number($int12)<br>example: 11111 | The unique identifier of the inventory adjustment. |
| storeId | NA | number($int10)<br>example: 1234 | The store identifier of the inventory adjustment. |
| referenceId | NA | number($int12)<br>example: 7890 | Identifier of original adjustment it was copied from. |
| externalId | NA | string($text120)<br>example: AB87656 | A unique identifier of the adjustment in an external system. |
| adjustmentDate | NA | string($date-time) | The timestamp the inventory if officially considered to have been adjusted. |
| status | NA | integer($int4)<br>example: 1 | The current status of the inventory adjustment. Valid values are<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Enum: [ 1, 2, 3 ] |


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**Table 4-108 (Cont.) InventoryAdjustmentHeaderIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| createDate | NA | string($date-time) | The date the adjustment was created in EICS. |
| updateDate | NA | string($date-time) | The date the adjustment was lasted updated in EICS. |
| approveDate | NA | string($date-time) | The date the adjustment was approved in EICS. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Inventory Adjustment

This section describes the Create Inventory Adjustment API. This API creates a new manual inventory whose status will be "In Progress". If more than 5,000 items are included, an error response will be returned. When adding items to the adjustment a reason code with a disposition associated to it determines stock movement of the item.

### Method

```
POST
```

### URL

```
/invadjustments
```

### Request

There are no request parameters.

The request body is application/json.

The inventory adjustment to create.

### Example Value

```
{
  "storeId": 1234,
  "referenceId": 7890,
  "externalId": "AB87656",
```


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```
  "externalUser": "AB87656",
  "adjustmentDate": "2024-09-12T13:07:55.023Z",
  "comments": "This is a comment.",
  "lineItems": [
    {
      "itemId": "55001234",
      "reasonId": 5678,
      "caseSize": 5,
      "quantity": 2,
      "uins": [
        111222333,
        444555666
      ]
    }
  ]
}
```

## Schema — InventoryAdjustmentCreateIdo

**Table 4-109 InventoryAdjustmentCreateIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 1234 | The store identifier of the inventory adjustment. |
| referenceId | NA | number($int12) example: 7890 | Identifier of original adjustment it was copied from. |
| externalId | NA | string($text128) example: AB87656 | A unique identifier of the adjustment in an external system. |
| externalUser | NA | string($text128) example: AB87656 | A non-EICS user that created the inventory adjustment in an external system. |
| adjustmentDate | NA | string($date-time) | The timestamp the inventory if officially considered to have been adjusted. If left blank, it will default to the creation date of the record. |
| comments | NA | string($text2000) example: This is a comment. | Comments associated to the adjustment. Comments will be trimmed down to 2000 characters if the entry is larger. |
| lineItems | Yes | object | A collection of line items attached to the adjustment. |

**Table 4-110 InventoryAdjustmentCreateLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 55001234 | The SKU level item identifier. |
| reasonId | Yes | number($int12) example: 5678 | The unique identifier of the reason code associated to the adjustment. |
| caseSize | NA | number($decimal10, 2) example: 5 | The case size of this line item. |


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**Table 4-110 (Cont.) InventoryAdjustmentCreateLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| quantity | Yes | number($decimal20, 4) example: 2 | The quantity of this line item. For UINS, the quantity must match the number of UINs. |
| uins | NA | string($text128) example: List [ 111222333, 444555666 ] | The UINs to attach to this line item. |

## Responses

This section describes the responses of the Create Inventory Adjustment API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "adjustmentId": 1234
  }
]
```

### Schema — InventoryAdjustmentRefIdo

**Table 4-111 InventoryAdjustmentRefIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | NA | number($int12) example: 1234 | The newly created inventory adjustment identifier. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Inventory Adjustment

The Read Inventory Adjustment API retrieves all the details about an inventory adjustment.


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## Method

```
GET
```

## URL

```
/invadjustments/{adjustmentId}
```

## Request

**Table 4-112 Read Inventory Adjustment — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | Yes | number($int12) (path) | The unique identifier of the inventory adjustment. |

## Responses

This section describes the responses of the Read Inventory Adjustment API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "adjustmentId": 11111,
    "storeId": 1234,
    "referenceId": 7890,
    "externalId": "AB87656",
    "adjustmentDate": "2024-09-17T13:47:31.101Z",
    "status": 1,
    "comments": "This is a comment.",
    "createDate": "2024-09-17T13:47:31.101Z",
    "createUser": "userAbc",
    "updateDate": "2024-09-17T13:47:31.101Z",
    "updateUser": "userAbc",
    "approveDate": "2024-09-17T13:47:31.101Z",
    "approveUser": "userAbc",
    "externalCreateUser": "userAbc",
    "externalUpdateUser": "userAbc",
    "lineItems": [
```



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```
      {
        "lineId": 1234,
        "itemId": "55001234",
        "reasonId": 5678,
        "caseSize": 5,
        "quantity": 2,
        "uins": [
          111222333,
          444555666
        ]
      }
    ]
  }
]
```


## Schema — InventoryAdjustmentIdo

This section describes the InventoryAdjustmentIdo schema.

**Table 4-113 InventoryAdjustmentIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | NA | number($int12) example: 11111 | The unique identifier of the inventory adjustment. |
| storeId | NA | number($int10) example: 1234 | The store identifier of the inventory adjustment. |
| referenceId | NA | number($int12) example: 7890 | Identifier of original adjustment it was copied from. |
| externalId | NA | string($text120) example: AB87656 | A unique identifier of the adjustment in an external system. |
| adjustmentDate | NA | string($date-time) | The timestamp the inventory if officially considered to have been adjusted. |
| status | NA | integer($int4) example: 1 | The current status of the inventory adjustment. lid values are:<br>1 - In Progress<br>2 – Completed<br>3 – Canceled<br>Enum: [ 1, 2, 3 ] |
| comments | NA | string($text2000) example: This is a comment. | Comments associated to the adjustment. |
| createDate | NA | string($date-time) | The date the adjustment was created in EICS. |
| createUser | NA | string($text128) example: userAbc | The user that created the adjustment in EICS. |
| updateDate | NA | string($date-time) | The date the adjustment was lasted updated in EICS. |
| updateUser | NA | string($text128) example: userAbc | The user that last updated the adjustment in EICS. |


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**Table 4-113 (Cont.) InventoryAdjustmentIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| approveDate | NA | string($date-time) | The date the adjustment was approved in EICS. |
| approveUser | NA | string($text128) example: userAbc | The user that approved the adjustment in EICS. |
| externalCreateUser | NA | string($text128) example: userAbc | A non-EICS user that created the adjustment in an external system. |
| externalUpdateUser | NA | string($text128) example: userAbc | A non-EICS user that last updated the adjustment in an external system. |
| lineItems | NA | object | line items |

**Table 4-114 InventoryAdjustmentLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| lineId | NA | number($int12) example: 1234 | The unique identifier of the line item. |
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| reasonId | NA | number($int12) example: 5678 | The unique identifier of the reason code associated to the adjustment. |
| caseSize | NA | number($decimal10,2) example: 5 | The case size of this line item. |
| quantity | NA | number($decimal20,4) example: 2 | The quantity of this line item. |
| uins | NA | string($text128) example: List [ 111222333, 444555666 ] | The UINs associated to this line item. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Inventory Adjustment

The Update Inventory Adjustment API updates the details of an inventory adjustment that is currently "In Progress".


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## Method

```
POST
```

## URL

```
/invadjustments/{adjustmentId}
```

## Request

The inventory adjustment to update.

The request body is application/json.

**Table 4-115 Update Inventory Adjustment — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | Yes | number($int12) (path) | The unique identifier of the inventory adjustment. |

## Example Value

```
{
  "referenceId": 7890,
  "externalUser": "AB87656",
  "adjustmentDate": "2024-09-18T08:36:13.027Z",
  "comments": "This is a comment.",
  "lineItems": [
    {
      "itemId": "55001234",
      "reasonId": 5678,
      "caseSize": 5,
      "quantity": 2,
      "uins": [
        111222333,
        444555666
      ]
    }
  ]
}
```

## Schema — InventoryAdjustmentUpdateIdo

This section describes the InventoryAdjustmentUpdateIdo schema.


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**Table 4-116 InventoryAdjustementUpdateIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| referenceId | NA | number($int12) example: 7890 | Identifier of original adjustment it was copied from. |
| externalUser | NA | string($text128) example: AB87656 | A non-EICS user that created the inventory adjustment in an external system. |
| adjustmentDate | NA | string($date-time) | The timestamp the inventory if officially considered to have been adjusted. If left blank, it will default to the creation date of the record. |
| comments | NA | string($text2000) example: This is a comment. | Comments associated to the adjustment. These comments will replace any previous comments Comments will be trimmed down to 2000 characters if the entry is larger. |
| lineItems | Yes | object | A collection of line items attached to the adjustment. |

**Table 4-117 InventoryAdjustmentUpdateLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 55001234 | The SKU level item identifier. If SKU is already present, its line item will be updated. Otherwise, a new line item will be added. |
| reasonId | Yes | number($int12) example: 5678 | The unique identifier of the reason code associated to the adjustment. The reason code is not modifiable on an update, but it will be used if a new item is added. |
| caseSize | NA | number($decimal10,2) example: 5 | The case size of this line item. |
| quantity | Yes | number($decimal20,4) example: 2 | The quantity of this line item. For UINS, the quantity must match the number of UINs. If the quantity is set to 0, the system will attempt to remove the line item from the adjustment. |
| uins | NA | string($text128) example: List [ 111222333, 444555666 ] | The UINs to attach to this line item. |

# Responses

This section describes the responses of the Update Inventory Adjustment API.

## Response Code: 204

No content

## Response Code: 400


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Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Inventory Adjustment

This section describes the Confirm Inventory Adjustment API. This API confirms an inventory adjustment, finalizing it and processing the inventory movement.

## Method

`POST`

## URL

`/invadjustments/{adjustmentId}/confirm`

## Request

**Table 4-118 Confirm Inventory Adjustment — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | Yes | number($int12) (path) | The unique identifier of the inventory adjustment. |

## Responses

This section describes the responses of the Confirm Inventory Adjustment API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Inventory Adjustment

This section describes the Cancel Inventory Adjustment API. This API cancels an inventory adjustment.


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## Method

POST

## URL

/invadjustments/{adjustmentId}/cancel

## Request

**Table 4-119 Cancel Inventory Adjustment — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | Yes | number($int12) (path) | The unique identifier of the inventory adjustment. |

## Responses

This section describes the responses of the Cancel Inventory Adjustment API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Item

This service integrates item foundation data from an external system. For item retrieval or lookup, please see the Item Inquiry REST service..

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api


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# Import Item

Imports up to 100 items. A forbidden response will occurs if the application is integrated with MFCS or RMS. Asychronous item integration is processed through staged messages and is ccontrolled by the MPS Work Type (DcsItem).

## Method

`POST`

## URL

`/items/import`

## Request

There are no request parameters.

The request body is application/json.

A list of items to import.

## Example Value

```
{
  "items": [
    {
      "itemId": "1111111",
      "transactionLevel": 2,
      "itemLevel": 2,
      "status": 1,
      "departmentId": 1000,
      "classId": 2000,
      "subclassId": 3000,
      "shortDescription": "12p-Water",
      "longDescription": "12-Pack of Water",
      "differentiator1": "Color 01",
      "differentiator2": "Size 06",
      "differentiator3": "Flavor 08",
      "differentiator4": "Fruit 04",
      "parentId": "567000333",
      "pack": false,
      "simplePack": false,
      "sellable": true,
      "orderable": true,
      "shipAlone": false,
      "inventoriable": true,
      "notionalPack": false,
      "estimatePackInventory": false,
      "primaryReferenceItem": false,
      "orderAsType": false,
```


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```
      "standardUom": "EA",
      "packageUom": "a",
      "packageSize": "EA",
      "eachToUomFactor": "a",
      "barcodeFormat": "a",
      "barcodePrefix": "a",
      "wastageType": 1,
      "wastagePercent": 1.5,
      "wastagePercentDefault": 1.5,
      "suggestedRetailCurrency": "USD",
      "suggestedRetailPrice": 9.99,
      "brand": "Brand A",
      "brandDescription": "Brand A Full Description",
      "components": [
        {
          "componentItemId": "1111111",
          "quantity": 2
        }
      ]
    }
  ]
}
```


## Schema - ItemImportListIdo

**Table 4-120 ItemImportListIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| Items | Yes | object | items |

**Table 4-121 ItemImportIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 1111111 | The unique item identifier (SKU number). |
| transactionLevel | Yes | integer($int1) example: 2 | Number indicating which of the three levels transactions occur for this item. Items may only be used on transactions with inventory tracked if the transaction level and item level match. |
| itemLevel | NA | integer($int1) example: 2 | Number indicating which of the three levels an item resides at. Items may only be used on transactions with inventory tracked if the transaction level and item level match. |
| status | NA | integer($int1) example: 1 | The status of the item. Value values are:<br>1 - Active<br>5 - Auto-Stockable<br>6 - Non-Ranged<br>Enum: [ 1, 5, 6 N ] |
| departmentId | Yes | number($int12) example: 1000 | The merchandise hierarchy department identifier. |


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**Table 4-121 (Cont.) ItemImportIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| classId | NA | number($int12) example: 2000 | The merchandise hierarchy class identifier. |
| subclassId | NA | number($int12) example: 3000 | The merchandise hierarchy subclass identifier. |
| shortDescription | NA | string($text255) example: 12p-Water | A short description of the item. |
| longDescription | NA | string($text400) example: 12-Pack of Water | A long description of the item. |
| differentiator1 | NA | string($text10) example: Color 01 | The first differentiator identifier. |
| differentiator2 | NA | string($text10) example: Size 06 | The second differentiator identifier. |
| differentiator3 | NA | string($text10) example: Flavor 08 | The third differentiator identifier. |
| differentiator4 | NA | string($text10) example: Fruit 04 | The fourth differentiator identifier. |
| parentId | NA | string($text25) example: 567000333 | The unique identifier of the item at the next level about this item. |
| pack | NA | boolean example: false | True if the item is a pack, false otherwise. |
| simplePack | NA | boolean example: false | True if the item is a simple pack, false otherwise. |
| sellable | NA | boolean example: true | True if the item is a sellable, false otherwise. |
| orderable | NA | boolean example: true | True if the item can be ordered from a supplier, false otherwise. |
| shipAlone | NA | boolean example: false | True if the item must be shipped in separated packaging, false otherwise. |
| inventoriable | NA | boolean example: true | True if the item is inventoried, false otherwise. |
| notionalPack | NA | Boolean example: false | True indicates that the inventory is held at the component level, false otherwise. Take special note that all notional packs are automatically marked as invertoriable in SIOCS. |
| estimatePackInventory | NA | boolean example: false | True if the item allows estimating pack inventory from component positions, false otherwise. |
| primaryReferenceItem | NA | boolean example: false | True indicates the item is the primary sub-transaction level item. |
| orderAsType | NA | boolean example: false | True indicates a buyer pack is receivable at the pack level. False indicates it is receivable at the component level. |
| standardUom | NA | string($text4) example: EA | The unit of measure that inventory is tracked in. |
| packageUom | NA | string($text4) example: a | The unit of measure associated with the package size. |
| packageSize | NA | number($text) example: EA | The size of the product printed (or will be printed on the label). |


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**Table 4-121 (Cont.) ItemImportIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| eachToUomFactor | NA | number($decimal20,10) example: a | The multiplication factor to convert 1 EA to the equivalent standard unit of measure. |
| barcodeFormat | NA | string($text4) example: a | The format of a barcode (used for Type 2 barcode items). |
| barcodePrefix | NA | number($int9) example: a | The barcode prefix used in association with the Type 2 barcode of this item. |
| wastageType | NA | integer($int4) example: 1 | The type of wastage. Valid values are:<br>1 - Sales Wastage<br>2 - Spoilage Wastage<br>Enum: [ 1, 2 |
| wastagePercent | NA | number($decimal12,4) example: 1.5 | The wastage percent. |
| wastagePercentDefault | NA | number($decimal12,4) example: 1.5 | The default wastage percent. |
| suggestedRetailCurrency | NA | string($text3) example: USD | The currency of the manufacturer suggested retail price. |
| suggestedRetailPrice | NA | number($decimal20,4) example: 9.99 | The manufacturer suggested retail price. |
| brand | NA | string($text30) example: Brand A | Brand name of the brand the item belongs to. |
| brandDescription | NA | string($text120) example: Brand A Full Description | Brand description of the brand the item belongs to. |
| components | NA | object | A list of components if the item is a pack. |

**Table 4-122 ItemComponentImportIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| componentItemId | Yes | string($text25) example: 1111111 | The item identifier of the component item within the pack. |
| quantity | Yes | number($decimal) example: 2 | The quantity of the component item within the pack. |

# Responses

This section describes the responses of the Import Item API.

## Response Code: 202

Accepted

## Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

## Remove Item

Marks items for removal with a non-active status. They are removed later from the system when item cleanup occurs through batch processing. Asychronous item integration is processed through staged messages and is controlled by the MPS Work Type (DcsItem).

### Method

`POST`

### URL

`/items/remove`

### Request

There are no request parameters.

The request body is application/json.

A list of items to remove.

### Example Value

```
{
  "items": [
    {
      "itemId": "1111111",
      "status": 2
    }
  ]
```

### Schema - ItemRemoveListIdo

**Table 4-123 ItemRemoveListIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| Items | Yes | object | A list of items to mark for removal. |


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**Table 4-124 ItemRemoveIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 1111111 | The unique item identifier (SKU number). |
| status | Yes | integer($int4) example: 2 | The status to assign to the item to mark it for removal. Valid values are:<br>2 - Discontinued<br>3 - Inactive<br>4 - Deleted<br>Enum: [ 2, 3, 4 |

## Responses

This section describes the responses of the Remove Item API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

# Import Item Hierarchy

Imports up to 500 item hierarchies. A forbidden response will occurs if the application is integrated with MFCS or RMS. Asychronous item integration is processed through staged messages and is ccontrolled by the MPS Work Type (DcsHierarchy).

## Method

POST

## URL

/items/hierarchies/import


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## Request

There are no request parameters.

The request body is application/json.

A list of item hierarchies to import.

## Example Value

```
{
  "hierarchies": [
    {
      "departmentId": 1000,
      "departmentName": "Electronics",
      "classId": 2000,
      "className": "Blu-Ray",
      "subclassId": 3000,
      "subclassName": "Supports 4K"
    }
  ]
}
```

## Schema - ItemHierarchyImportListIdo

**Table 4-125 ItemHierarchyImportListIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| hierarchies | Yes | Objec | A list of item hierarchies to import. |

**Table 4-126 ItemHierarchyImportIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| departmentId | Yes | number($int12) example: 1000 | The hierarchy department identifier. |
| departmentName | NA | string($text360) example: Electronics | The hierarchy department name. |
| classId | NA | number($int12) example: 2000 | The hierarchy class identifier. |
| className | NA | string($text360) example: Blu-Ray | The hierarchy class name. |
| subclassId | NA | number($int12) example: 3000 | The hierarchy subclass identifier. |
| subclassName | NA | string($text360) example: Supports 4K | The hierarchy subclass name. |


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## Responses

This section describes the responses of the Import Item Hierarchy API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

# Remove Item Hierarchy

Marks up to 500 item hierarchies for removal. They are removed later from the system when item cleanup occurs through batch processing. A forbidden response will occurs if the application is integrated with MFCS or RMS. Asychronous item integration is processed through staged messages and is ccontrolled by the MPS Work Type (DcsHierarchy).

## Method

`POST`

## URL

`/items/hierarchies/remove`

## Request

There are no request parameters.

The request body is application/json.

A list of items to remove.

### Example Value

```
{
  "hierarchies": [
    {
      "departmentId": 1000,
      "classId": 2000,
```


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```
      "subclassId": 3000
    }
  ]
}
```

## Schema - ItemHierarchyRemoveListIdo

**Table 4-127 ItemHierarchyRemoveListIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| hierarchies | Yes | object | A list of item hierarchies to remove. |

**Table 4-128 ItemHierarchyRemoveIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| departmentId | Yes | number($int12) example: 1000 | The hierarchy department identifier. |
| classId | NA | number($int12) example: 2000 | The hierarchy class identifier. |
| subclassId | NA | number($int12) example: 3000 | The hierarchy subclass identifier. |

## Responses

This section describes the responses of the Remove Item Hierarchy API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

# Import Related Item

Imports up to 500 item relationships records. A forbidden response will occurs if the application is integrated with MFCS or RMS. Asychronous item integration is processed through staged messages and is ccontrolled by the MPS Work Type (DcsItem).


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## Method

```
POST
```

## URL

```
/items/related/import
```

## Request

There are no request parameters.

The request body is application/json.

A list of related items to import.

### Example Value

```
{
  "relationships": [
    {
      "relationshipId": 12,
      "relationshipType": 1,
      "name": "Relationship Name",
      "itemId": "300100400",
      "mandatory": true,
      "relatedItems": [
        {
          "itemId": "1000456",
          "effectiveDate": "2025-03-12T12:23:25.195Z",
          "endDate": "2025-03-12T12:23:25.195Z",
          "priorityNumber": 2
        }
      ]
    }
  ]
}
```

### Schema - ItemRelationshipImportListIdo

**Table 4-129 ItemRelationshipImportListIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| relationships | Yes | object | A list of item relationships to import. |


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**Table 4-130 ItemRelationshipImportIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| relationshipId | Yes | number($text20) example: 12 | The identifier of the relationship. |
| relationshipType | Yes | integer($int6) example: 1 | The relationship type. Valid values are:<br>1 - Related<br>2 - Substitute<br>3 - Up-Sell<br>4 - Cross-Sell<br>Enum: [ 1, 2, 3, 4 |
| name | NA | string($text120) example: Relationship Name | The name of the relationship. |
| itemId | Yes | string($text25) example: 300100400 | The item whose related records are being records. |
| mandatory | Yes | boolean example: true | True if the relationship is mandatory. |
| relatedItems | Yes | object | A list of item relationships to import. |

**Table 4-131 ItemRelationshipDetailIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 1000456 | The item that is related to the base item. |
| effectiveDate | NA | string($date-time) | Date at which this relationship becomes active. |
| endDate | NA | string($date-time) | Last date at which this relationship is active. |
| priorityNumber | NA | integer($int4) example: 2 | The item that is related to the base item. |

# Responses

This section describes the responses of the Import Related Item API.

## Response Code: 202

Accepted

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Response Code: 403

Forbidden


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# Delete Related Item

Deletes up to 500 relationships between items. A forbidden response will occurs if the application is integrated with MFCS or RMS. Asychronous item integration is processed through staged messages and is controlled by the MPS Work Type (DcsItem).

## Method

`POST`

## URL

`/items/related/delete`

## Request

There are no request parameters.

The request body is application/json.

A list of item relationships to remove.

## Example Value

```
{
  "relationshipIds": [
    11111,
    22222
  ]
}
```

## Schema - ItemRelationshipRemoveListIdo

**Table 4-132 ItemRelationshipRemoveListIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| relationshipIds | Yes | string($text25) | relationship IDs |

## Responses

This section describes the responses of the Delete Related Item API.

## Response Code: 202

Accepted


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

## Import Item Image

Imports up to 500 item image URLS associated to the item. A forbidden response will occurs if the application is integrated with MFCS or RMS. Asychronous item integration is processed through staged messages and is ccontrolled by the MPS Work Type (DcsItem).

## Method

`POST`

## URL

`/items/images/import`

## Request

There are no request parameters.

The request body is application/json.

A list of item image URLs to import.

### Example Value

```
{
  "images": [
    {
      "itemId": "1000456",
      "imageType": 1,
      "storeId": 5000,
      "imageName": "Hat",
      "imageSize": "T",
      "url": "1000456",
      "displaySequence": 2,
      "startDate": "2025-03-12T13:29:07.670Z",
      "endDate": "2025-03-12T13:29:07.670Z"
    }
  ]
}
```


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## Schema - ItemImageImportListIdo

**Table 4-133 ItemImageImportListIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| Images | Yes | object | A list of item relationships to import. |

**Table 4-134 ItemImageImportIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 1000456 | The unique SKU number of the item. |
| imageType | Yes | integer example: 1 | The type of the image. Valid values are:<br>1 - Image<br>2 - QR Code<br>Enum: [ 1, 2 ] |
| storeId | NA | number($int10) example: 5000 | The store identifier. This attribute is required if the image type is a QR code. |
| imageName | Yes | string($text120) example: Hat | The name of the image. |
| imageSize | NA | string($text6) example: T | The size of the image. (T) is the only understood value (which indicates a thumbnail and is treated differently by the system). |
| url | Yes | string($text1000) example: 1000456 | The universal resource locator of the image. |
| displaySequence | NA | integer($int2) example: 2 | The sequence the item image should be displayed in. |
| startDate | NA | string($date-time) | The date the image becomes active. |
| endDate | NA | string($date-time) | The date the image ceases being active. |

1.

# Responses

This section describes the responses of the Import Item Image API.

## Response Code: 202

Accepted

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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### Response Code: 403

Forbidden

## Delete Item Image

Deletes up to 500 item image URLs. They are removed later from the system when item cleanup occurs through batch processing. A forbidden response will occurs if the application is integrated with MFCS or RMS. Asychronous item integration is processed through staged messages and is ccontrolled by the MPS Work Type (DcsItem).

### Method

`POST`

### URL

`/items/images/delete`

### Request

There are no request parameters.

The request body is application/json.

A list of item images URLs to delete.

### Example Value

```
{
  "images": [
    {
      "itemId": "1000456",
      "imageType": 1,
      "imageName": "Hat"
    }
  ]
}
```

### Schema - ItemImageDeleteListIdo

**Table 4-135 ItemImageDeleteListIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| Images | Yes | Object | A list of item images to remove. |


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**Table 4-136 ItemImageRefIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 1000456 | The unique SKU number of the item. |
| imageType | Yes | integer example: 1 | The type of the image. Valid values are:<br>1 - Image<br>2 - QR Code<br>Enum: [ 1, 2 ] |
| imageName | Yes | string($text120) example: Hat | The name of the image. |

## Responses

This section describes the responses of the Delete Item Image API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

# REST Service: Item Basket

tem Basket is a way of creating a list of items that can be utilized for other things such as line busting, gift registries, and so on. Item Basket allows a user to capture items and their quantities. An item basket that has only items on it is considered static, meaning that the number of items does not change. An item basket that has only hierarchies or hierarchies and items is considered dynamic, meaning that the items on the basket can change based upon the items associated to the hierarchy. This service defines operations to manage transfer delivery information by integration with an external system.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```


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# Find Baskets

This section describes the Find Baskets API. This API finds up to 10,000 item basket headers for the input criteria.

## Method

```
GET
```

## URL

```
/itembaskets
```

## Request Parameters

This section describes the request parameters.

**Table 4-137 Find Baskets — Request Parameters**

| Parameters | Required | Data Type/ Example | Description |
|---|---|---|---|
| referenceId | NA | number($int12) (query) | Include only item baskets with this reference identifier. |
| alternateId | NA | number($int12) (query) | Include only item baskets with this alternate identifier. |
| storeId | NA | number($int10) (query) | Include only item baskets with this store identifier. |
| typeId | NA | number($int18) (query) | Include only item baskets with this item basket type. |
| status | NA | integer($int4) (query) | Include only item baskets with this status. Valid values are<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>*Available values* : 1, 2, 3 |
| updateDateFrom | NA | string($date-time) (query) | Include only item baskets with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only item baskets with an update date on or before this date. |
| itemId | NA | string($text25) (query) | Include only item baskets that contain this item. |

## Responses

This section describes the responses of the Find Baskets API.


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## Reason Code: 200

Successful response

The media type is application/json.

### Example Value


```
[
  {
    "basketId": 11111,
    "referenceId": 211933,
    "alternateId": 83027,
    "storeId": 5000,
    "typeId": 5,
    "description": "Broken item investigation",
    "status": 1,
    "createDate": "2024-10-28T14:18:42.543Z",
    "updateDate": "2024-10-28T14:18:42.543Z",
    "expirationDate": "2024-10-28T14:18:42.543Z"
  }
]
```


### Schema — ItemBasketHeaderIdo

This section describes the ItemBasketHeaderIdo schema.

**Table 4-138 ItemBasketHeaderIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| basketId | NA | number($int12) example: 11111 | The unique identifier of the item basket. |
| referenceId | NA | number($int12) example: 211933 | An external reference identifier to the item basket. |
| alternateId | NA | number($int12) example: 83027 | An alternate identifier assigned by the user to the item basket. |
| storeId | NA | number($int10) example: 5000 | A store identifier if the item basket belongs to a particular store. An empty or not-included store identifier indicates it can be used by all stores. |
| typeId | NA | number($int18) example: 5 | The unique identifier of the item basket type. |


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**Table 4-138 (Cont.) ItemBasketHeaderIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| description | NA | string($text255)<br>example: Broken item investigation | A description of the item basket. |
| status | NA | integer($int4)<br>example: 1 | The current status of the item basket. Valid values are:<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Enum:<br>[ 1, 2, 3 ] |
| createDate | NA | string($date-time) | The date the item basket was created. |
| updateDate | NA | string($date-time) | The date the item basket was last updated. |
| expirationDate | NA | string($date-time) | The date the item basket will expire. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Basket

This section describes the Create Basket API. This API creates an in-progress item basket.

### Method

```
POST
```

### URL

```
/itembaskets
```

### Request Parameters

There are not request parameters.


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Request body is application/json.

The item basket details of the new item basket.

## Example Value


```
{
  "alternateId": 83027,
  "storeId": 5000,
  "typeId": 5,
  "description": "Broken item investigation",
  "expirationDate": "2024-10-28T15:00:53.432Z",
  "hierarchies": [
    {
      "departmentId": 1000,
      "classId": 2000,
      "subclassId": 3000
    }
  ],
  "lineItems": [
    {
      "itemId": "11111",
      "caseSize": 1,
      "quantity": 20
    }
  ]
}
```


## Schema — ItemBasketCreateIdo

This section describes the ItemBasketCreateIdo schema.

**Table 4-139 ItemBasketCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| alternateId | NA | number($int12) example: 83027 | An alternate identifier assigned by rgw user to the item basket |
| storeId | NA | number($int10) example: 5000 | A store identifier if the item basket belongs to a particular store. An empty or not-included store identifier indicates it can be used by all stores. |
| typeId | Yes | number($int18) example: 5 | The unique identifier of the item basket type. |
| description | NA | string($text255) example: Broken item investigation | A description of the item basket. |
| expirationDate | NA | string($date-time) | The date the item basket will expire. |


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**Table 4-139 (Cont.) ItemBasketCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| hierarchies | NA | object | A collection of hierarchies in the basket. |
| lineItems | NA | object | A collection of items in the basket. |

**Table 4-140 ItemBasketHierarchyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| departmentId | NA | number($int12) example: 1000 | The unique identifier of the department. |
| classId | NA | number($int12) example: 2000 | The unique identifier of the class. |
| subclassId | NA | number($int12) example: 3000 | The unique identifier of the subclass. |

**Table 4-141 ItemBasketCreateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 11111 | The unique identifier of the item. |
| caseSize | NA | number($decimal(10,2)) example: 1 | The case size of the item for this record. |
| quantity | NA | number($decimal(12,4)) example: 20 | The quantity of the item in the basket. |

## Responses

This section describes the responses of the Create Baskets API.

### Reason Code: 200

Successful response

The media type is application/json.


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### Example Value

```
[
  {
    "basketId": 11111,
    "typeId": 5,
    "status": 1
  }
]
```

### Schema — ItemBasketStatusIdo

This section describes the ItemBasketStatusIdo schema.

**Table 4-142 ItemBasketStatusIdo**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| basketId | NA | number($int12) example: 11111 | The unique identifier of the item basket. |
| typeId | NA | number($int18) example: 5 | The unique identifier of the item basket type. |
| status | NA | integer($int4) example: 1 | The current status of the item basket. Valid values are:<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Enum: [ 1, 2, 3 ] |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Basket

This section describes the Read Basket API. This API retrieves all the details about an item basket.

## Method

`GET`


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## URL

```
/itembaskets/{basketId}
```

## Request Parameters

**Table 4-143 Read Basket — Request Parameters**

| Parameter | Required | Data Type/ Example | Description |
|---|---|---|---|
| basketId | Yes | number($int12) (path) | The unique identifier of the item basket. |

## Responses

This section describes the responses of the Read Baskets API.

### Reason Code: 200

Successful response

The media type is application/json.

### Example Value


```
[
  {
    "basketId": 11111,
    "referenceId": 211933,
    "alternateId": 83027,
    "storeId": 5000,
    "typeId": 5,
    "description": "Broken item investigation",
    "status": 1,
    "createDate": "2024-10-30T12:43:35.561Z",
    "updateDate": "2024-10-30T12:43:35.561Z",
    "expirationDate": "2024-10-30T12:43:35.561Z",
    "createUser": "smith123",
    "updateUser": "smith123",
    "dynamic": true,
    "hierarchies": [
      {
        "departmentId": 1000,
        "classId": 2000,
        "subclassId": 3000
      }
    ],
    "lineItems": [
```



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```
      {
        "lineId": 11111,
        "itemId": "11111",
        "caseSize": 1,
        "quantity": 20
      }
    ]
  }
]
```

### Schema — ItemBasketStatusIdo

This section describes the ItemBasketStatusIdo schema.

**Table 4-144 ItemBasketStatusIdo**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| basketId | NA | number($int12) example: 11111 | The unique identifier of the item basket. |
| typeId | NA | number($int18) example: 5 | The unique identifier of the item basket type. |
| status | NA | integer($int4) example: 1 | The current status of the item basket. Valid values are:<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Enum: [ 1, 2, 3 ] |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Basket

This section describes the Update Basket API. This API updates an item basket.

## Method

POST


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## URL

```
/itembaskets/{basketId}
```

## Request Parameters

**Table 4-145 Update Basket — Request Parameters**

| Parameter | Required | Data Type/ Example | Description |
|---|---|---|---|
| basketId | Yes | number($int12) (path) | The unique identifier of the item basket. |

The request body is application/json.

Item basket details to update.

## Example Value

```
{
  "alternateId": 83027,
  "description": "Broken item investigation",
  "expirationDate": "2024-10-30T13:17:43.434Z",
  "hierarchies": [
    {
      "departmentId": 1000,
      "classId": 2000,
      "subclassId": 3000
    }
  ],
  "lineItems": [
    {
      "itemId": "11111",
      "caseSize": 1,
      "quantity": 20
    }
  ]
}
```

## Schema — ItemBasketUpdateIdo

**Table 4-146 ItemBasketUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| alternateId | NA | number($int12) example: 83027 | An alternate identifier assigned by the user to the item basket. |


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**Table 4-146 (Cont.) ItemBasketUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| description | NA | string($text255) example: Broken item investigation | A description of the item basket. |
| expirationDate | NA | string($date-time) | The date the item basket will expire. |
| hierarchies | NA | object | A collection of hierarchies in the basket. |
| lineItems | NA | object | A collection of items in the basket. |

**Table 4-147 ItemBasketHierarchyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| departmentId | NA | number($int12) example: 1000 | The unique identifier of the department. |
| classId | NA | number($int12) example: 2000 | The unique identifier of the class. |
| subclassId | NA | number($int12) example: 3000 | The unique identifier of the subclass. |

**Table 4-148 ItemBasketUpdateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 11111 | The unique identifier of the item. |
| caseSize | NA | number($decimal(10,2)) example: 1 | The case size of the item for this record. |
| quantity | NA | number($decimal(12,4)) example: 20 | The quantity of the item in the basket. |

## Responses

This section describes the responses of the Update Baskets API.

### Response Code: 204


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no content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Copy Basket

This section describes the Copy Basket API. This API copies an item basket returning the newly copied basket.

### Method

`POST`

### URL

`/itembaskets/{basketId}/copy`

### Request Parameters

**Table 4-149 Copy Basket — Request Parameters**

| Parameter | Required | Data Type/ Example | Description |
|---|---|---|---|
| basketId | Yes | number($int12) (path) | The unique identifier of the item basket. |

### Responses

This section describes the responses of the Copy Baskets API.

### Response Code: 200

The response has been successful.

The media type os application/json.

### Example Value

```
[
  {
```


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```
    "basketId": 11111,
    "referenceId": 211933,
    "alternateId": 83027,
    "storeId": 5000,
    "typeId": 5,
    "description": "Broken item investigation",
    "status": 1,
    "createDate": "2024-10-30T14:05:24.790Z",
    "updateDate": "2024-10-30T14:05:24.790Z",
    "expirationDate": "2024-10-30T14:05:24.790Z",
    "createUser": "smith123",
    "updateUser": "smith123",
    "dynamic": true,
    "hierarchies": [
      {
        "departmentId": 1000,
        "classId": 2000,
        "subclassId": 3000
      }
    ],
    "lineItems": [
      {
        "lineId": 11111,
        "itemId": "11111",
        "caseSize": 1,
        "quantity": 20
      }
    ]
  }
]
```


## Schema — ItemBasketStatusIdo

This section describes the ItemBasketStatusIdo schema.

**Table 4-150 ItemBasketStatusIdo**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| basketId | NA | number($int12) example: 11111 | The unique identifier of the item basket. |
| typeId | NA | number($int18) example: 5 | The unique identifier of the item basket type. |
| status | NA | integer($int4) example: 1 | The current status of the item basket. Valid values are:<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Enum: [ 1, 2, 3 ] |

## Response Code: 400


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Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Basket

This section describes the Confirm Basket API. This API confirms the item basket making it available for usage.

## Method

```
POST
```

## URL

```
/itembaskets/{basketId}/confirm
```

## Responses

This section describes the responses of the Confirm Basket API.

### Response Code: 204

no content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Delete Basket

This section describes the Delete Basket API. This API deletes the item basket.

## Method

```
POST
```


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## URL

```
/itembaskets/{basketId}/delete
```

## Request Parameters

**Table 4-151 Delete Basket — Request Parameters**

| Parameter | Required | Data Type/ Example | Description |
|---|---|---|---|
| basketId | Yes | number($int12) (path) | The unique identifier of the item basket. |

## Responses

This section describes the responses of the Delete Basket API.

### Response Code: 204

no content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Find Basket Types

This section describes the Find Basket Types API. This API finds all the available item basket types for an item basket.

## Method

```
GET
```

## URL

```
/itembaskets/types
```

## Request Parameters


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No parameters

## Responses

This section describes the responses of the Find Basket Types API.

### Response Code: 200

The response has been successful.

The media type os application/json.

### Example Value

```
[
  {
    "typeId": 1,
    "code": "INV",
    "description": "Investigation"
  }
]
```

### Schema — ItemBasketTypeIdo

This section describes the ItemBasketTypeIdo schema.

**Table 4-152 ItemBasketTypeIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| typeId | NA | number($int18) example: 1 | The unique identifier of the item basket type. |
| code | NA | string($text6) example: INV | A short code of the item basket type. |
| description | NA | string($text120) example: Investigation | The description of the item basket type. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Item Inquiry

The service provides an external system the ability to retrieve information about items (with the exception of inventory information).


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# Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

# Retrieve Items

The Retrieve Items API searches for detailed information about the items using the specified input. If the number of items found exceeds 10,000, a maximum limit error will be returned. Additional limiting input criteria will be required.

## Method

```
POST
```

## URL

```
/iteminquiries
```

## Request

There are no request parameters.

The request body is application/json.

The store and items to find information for.

### Example Value

```
{
  "storeId": 5000,
  "itemIds": [
    333000,
    444001
  ]
}
```

### Schema — ItemInquiryCriteriaIdo


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**Table 4-153 ItemInquiryCriteria — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) example: 5000 | The store identifier (if passed in as query parameter). |
| itemIds | Yes | string($text25) example: List [ 333000, 444001 ] | A list of items to retrieve information for. |

## Responses

This section describes the responses of the Retrieve Items API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "itemId": "1111111",
    "transactionLevel": 2,
    "itemLevel": 2,
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000,
    "shortDescription": "12p-Water",
    "longDescription": "12-Pack of Water",
    "differentiator1": "Color 01",
    "differentiator2": "Size 06",
    "differentiator3": "Flavor 08",
    "differentiator4": "Fruit 04",
    "parentId": "567000333",
    "pack": false,
    "simplePack": false,
    "sellable": true,
    "orderable": true,
    "shipAlone": false,
    "inventoriable": true,
    "notionalPack": false,
    "estimatePackInventory": false,
    "primaryReferenceItem": false,
    "orderAsType": false,
    "standardUom": "EA",
    "packageUom": "a",
    "packageSize": "EA",
    "eachToUomFactor": "a",
    "barcodeFormat": "a",
```



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```
    "barcodePrefix": "a",
    "wastageType": 1,
    "wastagePercent": 1.5,
    "wastagePercentDefault": 1.5,
    "suggestedRetailCurrency": "USD",
    "suggestedRetailPrice": 9.99,
    "brand": "Brand A",
    "brandDescription": "Brand A Full Description",
    "createDate": "2024-09-18T13:33:41.160Z",
    "updateDate": "2024-09-18T13:33:41.160Z",
    "storeId": 4000,
    "status": 1,
    "primarySupplierId": 40001,
    "storeControlPricing": true,
    "rfid": false,
    "defaultCurrencyCode": "USD",
    "purchaseType": 1,
    "uinType": 1,
    "uinCaptureTime": 1,
    "uinLabelId": 876544,
    "uinExternalCreateAllowed": true,
    "replenishmentMethod": "SO",
    "rejectStoreOrder": false,
    "multipleDeliveryPerDayAllowed": false,
    "nextDeliveryDate": "2024-09-18T13:33:41.160Z",
    "toleranceType": 1,
    "toleranceUnit": 5.5,
    "tolerancePercent": 2
  }
]
```


## Schema — ItemInquiryIdo

**Table 4-154 ItemInquiryIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 1111111 | The unique item identifier (SKU number). |
| transactionLevel | NA | integer($int1) example: 2 | Number indicating which of the three levels transactions occur for this item. Items may only be used on transactions with inventory tracked if the transaction level and item level match. |
| itemLevel | NA | integer($int1) example: 2 | Number indicating which of the three levels an item resides at. Items may only be used on transactions with inventory tracked if the transaction level and item level match. |
| departmentId | NA | number($int12) example: 1000 | The merchandise hierarchy department identifier. |
| classId | NA | number($int12) example: 2000 | The merchandise hierarchy class identifier. |


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**Table 4-154 (Cont.) ItemInquiryIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| subclassId | NA | number($int12) example: 3000 | The merchandise hierarchy subclass identifier. |
| shortDescription | NA | string($text255) example: 12p-Water | A short description of the item. |
| longDescription | NA | string($text400) example: 12-Pack of Water | A long description of the item. |
| differentiator1 | NA | string($text10) example: Color 01 | The first differentiator identifier. |
| differentiator2 | NA | string($text10) example: Size 06 | The second differentiator identifier. |
| differentiator3 | NA | string($text10) example: Flavor 08 | The third differentiator identifier. |
| differentiator4 | NA | string($text10) example: Fruit 04 | The fourth differentiator identifier. |
| parentId | NA | string($text25) example: 567000333 | The unique ientifier of the item at the next level about this item. |
| pack | NA | boolean example: false | True if the item is a pack, false otherwise. |
| simplePack | NA | Boolean example: false | True if the item is a simple pack, false otherwise. |
| sellable | NA | boolean example: true | True if the item is a sellable, false otherwise. |
| orderable | NA | boolean example: true | True if the item can be ordered from a supplier, false otherwise. |
| shipAlone | NA | boolean example: false | True if the item must be shipped in separated packaging, false otherwise. |
| inventoriable | NA | boolean example: true | True if the item is inventoried, false otherwise. |
| notionalPack | NA | boolean example: false | True indicates that the inventory is held at the component level, false otherwise. Take special note that all notional packs are automatically marked as invertoriable in SIOCS. |
| estimatePackInventory | NA | boolean example: false | True if the item alows estimating pack inventory from component positions, false otherwise. |
| primaryReferenceItem | NA | boolean example: false | True indicates the item is the primary sub-transaction level item. |
| orderAsType | NA | boolean example: false | True indicates a buyer pack is receivable at the pack level. False indicates it is receivable at the component level. |


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**Table 4-154 (Cont.) ItemInquiryIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| standardUom | NA | string($text4) example: EA | The unit of measure that inventory is tracked in. |
| packageUom | NA | string($text4) example: a | The unit of measure associated with the package size. |
| packageSize | NA | number($text) example: EA | The size of the product printed (or will be printed on the label). |
| eachToUomFactor | NA | number($decimal20,10) example: a | The multiplication favtor to convert 1 EA to the equivalent standard unit of measure. |
| barcodeFormat | NA | string($text4) example: a | The format of a barcode (used for Type 2 barcode items). |
| barcodePrefix | NA | number($int9) example: a | The barcode prefix used in association with the Type 2 barcode of this item. |
| wastageType | NA | integer($int4) example: 1 | The type of wastage. Validate value are:<br>1 - Sales Wastage<br>2 - Spoilage Wastage<br>Enum: [ 1, 2 ] |
| wastagePercent | NA | number($decimal12,4) example: 1.5 | The wastage percent. |
| wastagePercentDefault | NA | number($decimal12,4) example: 1.5 | The default wastage percent. |
| suggestedRetailCurrency | NA | string($text3) example: USD | The currency of the manufacturer suggested retail price. |
| suggestedRetailPrice | NA | number($decimal20,4) example: 9.99 | The manufacturer suggested retail price. |
| brand | NA | string($text30) example: Brand A | Brand name of the brand the item belongs to. |
| brandDescription | NA | string($text120) example: Brand A Full Descriptio | Brand description of the brand the item belongs to. |
| createDate | NA | string($date-time) | The date the item was created in EICS. |
| updateDate | NA | string($date-time) | The date the item was created in EICS. |
| storeId | NA | integer($int10) example: 4000 | The store identifier |


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**Table 4-154 (Cont.) ItemInquiryIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| status | NA | integer($int1) example: 1 | The status of the item. Valid values are:<br>1 - Active<br>2 - Discontinued<br>3 - Inactive<br>4 - Deleted<br>5 - Auto-Stockable<br>Non-Ranged<br>Enum: [ 1, 2, 3, 4, 5, 6 ] |
| primarySupplierId | NA | integer($int10) example: 40001 | The unique identifier of the primary supplier of the item to this store location. |
| storeControlPricing | NA | boolean example: true | True indicates the item price can be controlled by the store. |
| rfid | NA | boolean example: false | True indicates the item is RFID tagged. |
| defaultCurrencyCode | NA | string($text3) example: USD | The default currency fo the item's price at this store. |
| purchaseType | NA | integer($int2) example: 1 | The purchase type. Valid values are:<br>1 - Consignment<br>2 - Concession<br>Enum: [ 1, 2 ] |
| uinType | NA | integer($int2) example: 1 | 1 - Serial Number<br>2 - AGSN<br>Enum: [1, 2 ] |
| uinCaptureTime | NA | integer($int2) example: 1 | The UIN capture time. Valid values are:<br>1 - Sale<br>2 - Store Receiving<br>Enum: [ 1, 2 ] |
| uinLabelId | NA | integer($int12) example: 876544 | The unique identifier of the UIN label. |
| uinExternalCreateAllowed | NA | boolean example: true | True if an external system can create a UIN, false otherwise. |
| replenishmentMethod | NA | string($text6) example: SO | The replenishment method. (SO) Store Orders has specific processing in the system, otherwise this is any text. |
| rejectStoreOrder | NA | boolean example: false | True indicates store orders must be on or after the next delivery date or should be rejected. |
| multipleDeliveryPerDayAllowed | NA | boolean example: false | True indicates the itemm allows multiple deliveries per day at the location. |
| nextDeliveryDate | NA | string($date-time) | The next delivery date of the time based on its replenishment type. |


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**Table 4-154 (Cont.) ItemInquiryIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| toleranceType | NA | integer($int1) example: 1 | If not include, will default to unit. Valid values are:<br>1 - Unit<br>2 - Percent<br>Enum: [ 1, 2 ] |
| toleranceUnit | NA | integer($decimal12,4) example: 5.5 | The unit tolerance amount. |
| tolerancePercent | NA | integer($decimal12,4) example: 2 | The percent tolerance amount. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Retrieve Items By Scan

Search for item information by an unknown identifier, most likely a scan. It first searches for the item using the input as a potential item, and if found will return records based on that. It then searches as a UPC, barcode (including GS1), or UIN, in that order, halting if it finds potential matches. An optional store identifier can be included as well.

### Method

```
POST
```

### URL

```
/iteminquiries/scan
```

### Request

There are no request parameters.

The request body is application/json.

The store and scan to search for.


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### Example Value

```
{
  "searchScan": "333001",
  "storeId": 5000
}
```

### Schema - ItemScanIdo

**Table 4-155 ItemScanIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| searchScan | Yes | string($text128)<br>example: 333001 | A scan to find matching items for. |
| storeId | NA | integer($int10)<br>example: 5000 | The store identifier. |

## Responses

This section describes the responses of the Retrieve Items By Scan API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "itemId": "1111111",
    "type": 1,
    "status": 1,
    "shortDescription": "Shoe",
    "longDescription": "Steel-toed Shoe (two-tone)",
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000,
    "storeId": 5000,
    "ranged": true
  }
]
```


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## Schema - ItemScannedIdo

**Table 4-156 ItemScannedIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 1111111 | The item identifier. |
| type | NA | integer($int2) example: 1 | The item type. Valid values are:<br>1 - Item<br>2 - Simple Pack<br>3 - Complex Pack<br>4 - Simple Breakable Pack<br>5 - Complex Breakable Pack<br>Enum: [ 1, 2, 3, 4, 5 |
| status | NA | integer($int2) example: 1 | The status of the item. Valid values are:<br>1 - Active<br>2 - Discontinued<br>3 - Inactive<br>4 - Deleted<br>5 - Auto-Stockable<br>6 - Non-Ranged<br>Enum: [ 1, 2, 3, 4, 5, 6 ] |
| shortDescription | NA | string($text255) example: Shoe | The short description of the item. |
| longDescription | NA | string($text400) example: Steel-toed Shoe (two-tone) | The long description of the item. |
| departmentId | NA | number($int12) example: 1000 | The identifier of the department the item belongs to. |
| classId | NA | number($int12) example: 2000 | The identifier of the class the item belongs to. |
| subclassId | NA | number($int12) example: 3000 | The identifier of the subclass the item belongs to. |
| storeId | NA | integer($int10) example: 5000 | The store identifier (only if passed in as query parameter). |
| ranged | NA | boolean example: true | True if the item is ranged to the requested store, false otherwise. |

## Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# Retrieve Items by Search Scan

Search for item information by an unknown identifier, most likely a scan. It first searches for the item using the input as a potential item, and if found will return records based on that. It then searches as a UPC, barcode, or UIN, in that order, halting if it finds potential matches. An optional store identifier can be included as well. This operation is deprecated and should not be used! Use the retrieve items by scan POST version instead.

## Method

```
GET
```

## URL

```
/iteminquiries/scan/{searchScan}
```

## Request

**Table 4-157 Retrieve Items By San Request — Request Parameters**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| searchScan | Yes | string($text128) (path) | A scan or entered item information. |
| storeId | NA | integer($int10) (query) | The identifier of a store to search within. |

## Responses

This section describes the responses of the Retrieve Items By Search Scan API.

### Response Code: 200

The request has been successful.

The media type is application/json.

For details about the schema, see the Schema - ItemScannedIdo section.

### Example Value


```
[
  {
    "itemId": "1111111",
    "type": 1,
    "status": 1,
```



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```
    "shortDescription": "Shoe",
    "longDescription": "Steel-toed Shoe (two-tone)",
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000,
    "storeId": 5000,
    "ranged": true
  }
]
```

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Retrieve Items by Source

The Retrieve Items by Source API searches for summary information about an item based on search criteria, primarily hierarchy and source location.

### Method

```
GET
```

### URL

```
/iteminquiries/source
```

### Request

**Table 4-158 Retrieve Items By Source — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| description | NA | string($text255) (query) | Include only items with description text matching this description. |
| sourceType | NA | integer($int4) (query) | Include only items available from this source type. Valid values are:<br>1 - Supplier<br>2 - Warehouse<br>3 - Finisher<br>Available values : 1, 2, 3 |
| sourceId | NA | integer($int10) (query) | Include only items available from this source. If source id is included, then sourceType is also required. |


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**Table 4-158 (Cont.) Retrieve Items By Source — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| departmentId | NA | integer($int12) (query) | Include only items associated to this merchandise hierarchy department. |
| classId | NA | integer($int12) (query) | Include only items associated to this merchandise hierarchy class. |
| subclassId | NA | integer($int12) (query) | Include only items associated to this merchandise hierarchy subclass. |
| storeId | NA | integer($int10) (query) | Include only items ranged to this particular store. |

## Responses

This section describes the responses of the Retrieve Items by Source API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "itemId": "1111111",
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "shortDescription": "Shoe",
    "longDescription": "Steel-toed Shoe (two-tone)",
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000
  }
]
```

### Schema — ItemSummaryIdo

**Table 4-159 ItemSummaryIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 1111111 | The item identifier. |
| storeId | NA | integer($int10) example: 5000 | The store identifier (if passed in as query parameter). |


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**Table 4-159 (Cont.) ItemSummaryIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| type | NA | integer($int2)<br>example: 1 | The item type. Valid values are:<br>1 - Item<br>2 - Simple Pack<br>3 - Complex Pack<br>4 - Simple Breakable Pack<br>5 - Complex Breakable Pack<br>Enum: [ 1, 2, 3, 4, 5 ] |
| status | NA | integer($int2)<br>example: 1 | The status of the item. Valid values are:<br>1 - Active<br>2 - Discontinued<br>3 - Inactive<br>4 - Deleted<br>5 - Auto-Stockable<br>Non-Ranged<br>Enum: [ 1, 2, 3, 4, 5, 6 ] |
| shortDescription | NA | string($text255)<br>example: Shoe | The short description of the item. |
| longDescription | NA | string($text400)<br>example: Steel-toed Shoe (two-tone) | The long description of the item. |
| departmentId | NA | number($int12)<br>example: 1000 | The identifier of the department the item belongs to. |
| classId | NA | number($int12)<br>example: 2000 | The identifier of the class the item belongs to. |
| subclassId | NA | number($int12)<br>example: 3000 | The identifier of the subclass the item belongs to. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Retrieve Items by Inventory

This section describes the Retrieve Items by Inventory API. This API searches for summary information about an item based on search criteria, primarily inventory information.

## URL

```
/iteminquiries/inventory
```


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## Method

GET

## Request

**Table 4-160 Retrieve Items by Inventory - Request Parameters**

| Name | Required | Data Type | Description |
|---|---|---|---|
| available | NA | boolean (query) | Include only items with positive available inventory. |
| unavailable | NA | boolean (query) | Include only items with positive unavailable inventory. |
| nonsellableTypeId | NA | integer($int12) (query) | Include only items with this non-sellable quantity type. |
| departmentId | NA | integer($int12) (query) | Include only items associated to this merchandise hierarchy department. |
| classId | NA | integer($int12) (query) | Include only items associated to this merchandise hierarchy class. |
| subclassId | NA | integer($int12) (query) | Include only items associated to this merchandise hierarchy subclass. |
| storeId | NA | integer($int10) (query) | Include only items ranged to this particular store. |

## Responses

This section describes the responses of the Retrieve Items by Inventory API.

### Response Code: 200

The request has been successful.

The media type is application/json.

For details about the schema, see the Schema — ItemSummaryIdo section.

### Example Value

```
[
  {
    "itemId": "1111111",
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "shortDescription": "Shoe",
    "longDescription": "Steel-toed Shoe (two-tone)",
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000
  }
]
```


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Retrieve Items by Relationship

This section describes the Retrieve Items by Relationship API. This API searches for summary information about an item based on search criteria, primarily items associated by relationship.

### Method

```
GET
```

### URL

```
/iteminquiries/related
```

### Request

**Table 4-161 Retrieve Items by Relationship - Request Parameter**

| Name | Required | Data Type | Description |
|---|---|---|---|
| itemId | NA | string($text25) (query) | Include only items that have a relationship to this item identifier. |
| storeId | NA | integer($int10) (query) | Include only items ranged to this particular store. |

### Responses

This section describes the responses of the Retrieve Items by Relationship API.

### Response Code: 200

The request has been successful.

The media type is application/json.

For details about the schema, see the Schema — ItemSummaryIdo section.

### Example Value

```
{
  "itemId": "1111111",
  "storeId": 5000,
  "type": 1,
```


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```
    "status": 1,
    "shortDescription": "Shoe",
    "longDescription": "Steel-toed Shoe (two-tone)",
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000
  }
]
```

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Retrieve Items by UDA

This section descibes the Retrieve Items by UDA API. This API searches for summary information about an item based on search criteria, primarily user defined attributes.

### Method

```
GET
```

### URL

```
/iteminquiries/uda
```

### Request

**Table 4-162 Retrieve Items by UDA - Request Parameter**

| Name | Required | Data Type | Description |
|---|---|---|---|
| udaId | NA | integer($int5) (query) | Include only items with this user defined attribute. |
| udaText | NA | string($text250) (query) | Include only items with this UDA text value. |
| udaLovId | NA | string($text25) (query) | Include only items with a UDA value matching this list of values identifiers. |
| udaDateFrom | NA | string($date-time) (query) | Include only items with a date UDA value on or after this date. |
| udaDateTo | NA | string($date-time) (query) | Include only items with a date UDA value on or before this date. |
| storeId | NA | integer($int10) (query) | Include only items ranged to this particular store. |


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## Responses

This section describes the responses of the Retrieve Items by UDA API.

### Response Code: 200

The request has been successful.

The media type is applicaton/json.

For details about the schema, see the Schema — ItemSummaryIdo section.

### Example Value

```
[
  {
    "itemId": "1111111",
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "shortDescription": "Shoe",
    "longDescription": "Steel-toed Shoe (two-tone)",
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000
  }
]
```

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Item Inventory

This service retrieves information about item inventory.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/inventory

## API Definitions

| API | Description |
|---|---|
| Find Available Inventory | Search for available inventory information by multiple items and multiple locations. |


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| API | Description |
|---|---|
| Find Inventory | Searches for standard inventory information by multiple items and multiple locations. |
| Find Expanded Inventory | Searches for expanded inventory information by multiple items at a single store. |
| Find Future Inventory | Searches for future inventory delivery information by a single item and a single store. |
| Find Inventory In Buddy Stores | Searches for inventory information at buddy stores by single input store and multiple items. |
| Find Inventory In Transfer Stores | Searches for inventory information at transfer zone stores by single input store and multiple items. |

# API: Find Available Inventory

Searches for available inventory quantity about an item in requested locations. Only transaction-level items are processed, and only current available inventory is returned. The multiplied combination of items and locations within the input criteria cannot exceed 10,000. Invalid items or locations will not cause this API to fail. Inventory is returned for any item and locations found and is not returned invalid or not found items or locations.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/available |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Criteria |
| Output | List of items |
| Max Response Limit | 10,000 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemIds | List of Strings | Yes | A list of items to retrieve available inventory for. |
| locationIds | List of Longs | Yes | A list of location identifiers to retrieve available inventory for. |
| locationType | Integer | Yes | A location type: See Location Type |

### Example Input

{

"itemIds": [

"100637156",

"100637172",

"100653105"


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],
"locationIds": [
5000,
5001,
5005
],
"locationType": 1
}

### Output Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String | Yes | The item identifier. |
| locationId | Long | Yes | The location identifier. |
| locationType | Integer | Yes | The location type: See Location Type. |
| availableQuantity | BigDecimal | Yes | The amount of available inventory. |
| unitOfMeasure | String | Yes | The unit of measure of the available inventory. |
| estimatedPack | Boolean | Yes | True if this is an estimated pack quantity, false otherwise. |

### Example Output

[
{
"itemId": "100637113",
"locationId": 5000,
"locationType": 1,
"availableQuantity": 200.0000,
"unitOfMeasure": "EA",
"estimatedPack": false
},
{
"itemId": "100637113",
"locationId": 5001,
"locationType": 1,
"availableQuantity": 200.0000,
"unitOfMeasure": "EA",


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"estimatedPack": false

},

}

### Additional Data Definitions

### Location Type

| Value | Definition |
|---|---|
| 1 | Store |
| 2 | Warehouse |

# API: Find Inventory

Query lookup of detailed inventory information about a multiple item in multiple stores. The multiplied combination of items and locations within the input criteria cannot exceed 10,000. Invalid items or locations will not cause this API to fail. Inventory is returned for any item and locations found and is not returned invalid or not found items or locations.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/positions |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Criteria |
| Output | List of inventory of item at stores |
| Max Response Limit | 10,000 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemIds | List of Strings | Yes | A list of items to retrieve inventory for. |
| storeIds | List of Longs | Yes | A list of store identifiers to retrieve inventory for. |
| sellingUnitOfMeasure | Boolean | - | True indicates an attempt to use the selling unit of measure of the item, false indicates to use the standard unit of measure. If conversion cannot take place, it defaults back to standard unit of measure. |

### Example Input

{

"itemIds": [

"100637156",

"100637172",


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"100668091"

],

"storeIds": [

5000,

5001,

5002

],

"sellingUnitOfMeasure": true

}

### Output Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String | Yes | The item identifier. |
| storeId | Long | | The store identifier if the item is ranged to a store. |
| ranged | Boolean | Yes | True if the item is ranged to the store, false otherwise. |
| estimated | Boolean | Yes | True if the quantities are estimated, false otherwise. |
| unitOfMeasure | String | Yes | The unit of measure of the quantities. |
| caseSize | BigDecimal | Yes | The default case size of the item. |
| quantityStockOnHand | BigDecimal | Yes | The stock on hand quantity. |
| quantityBackroom | BigDecimal | Yes | The quantity located in the back room area. |
| quantityShopfloor | BigDecimal | Yes | The quantity located on the shop floor. |
| quantityDeliveryBay | BigDecimal | Yes | The quantity located in the delivery bay. |
| quantityAvailable | BigDecimal | Yes | The available to sell quantity. |
| quantityUnavailable | BigDecimal | Yes | The unavailable to sell quantity. |
| quantityNonSellable | BigDecimal | Yes | The total non-sellable quantity. |
| quantityInTransit | BigDecimal | Yes | The quantity currently in transit. |
| quantityCustomerReserved | BigDecimal | Yes | The quantity reserved for customer orders. |
| quantityTransferReserved | BigDecimal | Yes | The quantity reserved for transfers. |
| quantityVendorReturn | BigDecimal | Yes | The quantity reserved for vendor returns. |
| nonSellableQuantities | List of Non-Sellable Quantities | - | A collection containing the specific quantity in each non-sellable quantity type bucket. |

### Non-Sellable Quantity Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| nonsellableTypeId | Long | Yes | The non-sellable type unique identifier. |


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| Attribute | Data Type | Required | Description |
|---|---|---|---|
| quantity | quantity | Yes | The quantity in this particular non-sellable type bucket. |

### Example Output

[
{
"itemId": "100637156",
"storeId": 5000,
"ranged": true,
"estimated": false,
"unitOfMeasure": "EA",
"caseSize": 100.00,
"quantityStockOnHand": 10.0000,
"quantityBackroom": 10.0000,
"quantityShopfloor": 0.0000,
"quantityDeliveryBay": 0.0000,
"quantityAvailable": 10.0000,
"quantityUnavailable": 0.0000,
"quantityNonSellable": 0.0000,
"quantityInTransit": 0.0000,
"quantityCustomerReserved": 0.0000,
"quantityTransferReserved": 0.0000,
"quantityVendorReturn": 0.0000
},
{
"itemId": "100637172",
"storeId": 5000,
"ranged": true,
"estimated": false,
"unitOfMeasure": "EA",
"caseSize": 100.00,
"quantityStockOnHand": 10.0000,
"quantityBackroom": -10.0000,


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"quantityShopfloor": 0.0000,
"quantityDeliveryBay": 0.0000,
"quantityAvailable": -10.0000,
"quantityUnavailable": 20.0000,
"quantityNonSellable": 20.0000,
"quantityInTransit": 0.0000,
"quantityCustomerReserved": 0.0000,
"quantityTransferReserved": 0.0000,
"quantityVendorReturn": 0.0000,
"nonSellableIdos": [
{
"nonsellableTypeId": 1,
"quantity": 15.0000
},
{
"nonsellableTypeId": 2,
"quantity": 5.0000
}
]
}
}

# API: Find Expanded Inventory

Searches for expanded inventory information about multiple items within a single store.

**API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{storeId}/expanded |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Criteria |
| Output | List of inventory of items |
| Max Response Limit | 2,500 |


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### Path Parameter Definitions

| Attribute | Description |
|---|---|
| storeId | The store identifier of the store to process items for. |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemIds | List of Strings | Yes | A list of items to retrieve expanded inventory for. |

### Example Input

{

"itemIds": [

"100637156",

"100637172",

"100695081"

]

}

### Output Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String | Yes | The item identifier. |
| storeId | Long | | The store identifier if the item is ranged to a store. |
| ranged | Boolean | Yes | True if the item is ranged to the store, false otherwise. |
| estimated | Boolean | Yes | True if the quantities are estimated, false otherwise. |
| unitOfMeasure | String | Yes | The unit of measure of the quantities. |
| caseSize | BigDecimal | Yes | The default case size of the item. |
| quantityStockOnHand | BigDecimal | Yes | The stock on hand quantity. |
| quantityBackroom | BigDecimal | Yes | The quantity located in the back room area. |
| quantityShopfloor | BigDecimal | Yes | The quantity located on the shop floor. |
| quantityDeliveryBay | BigDecimal | Yes | The quantity located in the delivery bay. |
| quantityAvailable | BigDecimal | Yes | The available to sell quantity. |
| quantityUnavailable | BigDecimal | Yes | The unavailable to sell quantity. |
| quantityNonSellable | BigDecimal | Yes | The total non-sellable quantity. |
| quantityInTransit | BigDecimal | Yes | The quantity currently in transit. |
| quantityCustomerReserved | BigDecimal | Yes | The quantity reserved for customer orders. |


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| Attribute | Data Type | Required | Description |
|---|---|---|---|
| quantityTransferReserved | BigDecimal | Yes | The quantity reserved for transfers. |
| quantityVendorReturn | BigDecimal | Yes | The quantity reserved for vendor returns. |
| firstReceivedDate | Date | - | The first date the item was received into stock. |
| lastReceivedDate | Date | - | The date the item last received inventory into stock. |
| lastReceivedQuantity | BigDecimal | - | Total amount of inventory received on the last date it was received. |
| openStockCounts | Integer | - | The number of stock counts open for the item at this store. |
| lastStockCountType | Integer | - | The type of stock count (see Additional Data Definition). |
| lastStockCountApprovedDate | Date | - | The date this item was last approved on a stock count at this store. |
| lastStockCountTimeframe | Integer | - | The stock count timeframe (see Additional Data Definition). |
| uinProblemLine | Boolean | Yes | True indicates it is UIN problem line item, false otherwise. |
| lastRequestedQuantity | BigDecimal | - | The quantity last requested for this item. |
| lastUpdateDate | Date | Yes | The timestamp of the last time this record was updated. |
| nonSellableQuantities | Collection of Non-Sellable Quantities | - | The specific quantities in each non-sellable quantity type bucket. |

### Non-Sellable Quantity Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| nonsellableTypeId | Long | Yes | The non-sellable type unique identifier. |
| quantity | quantity | Yes | The quantity in this particular non-sellable type bucket. |

### Example Output

[

{

"itemId": "100637113",

"storeId": 5000,

"ranged": true,

"estimated": false,

"unitOfMeasure": "EA",

"caseSize": 100.00,

"quantityStockOnHand": 200.0000,

"quantityBackroom": 200.0000,


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"quantityShopfloor": 0.0000,
"quantityDeliveryBay": 0.0000,
"quantityAvailable": 200.0000,
"quantityUnavailable": 0.0000,
"quantityNonSellable": 0.0000,
"quantityInTransit": 0.0000,
"quantityCustomerReserved": 0.0000,
"quantityTransferReserved": 0.0000,
"quantityVendorReturn": 0.0000,
"quantityLastReceived": 0.0000,
"quantityLastRequested": 0.0000,
"openStockCounts": 0,
"lastStockCountTimeframe": 3,
"uinProblemLine": false,
"lastUpdateDate": "2022-07-15T06:23:27-05:00"
},
{
"itemId": "100637121",
"storeId": 5000,
"ranged": true,
"estimated": false,
"unitOfMeasure": "EA",
"caseSize": 100.00,
"quantityStockOnHand": 200.0000,
"quantityBackroom": 180.0000,
"quantityShopfloor": 0.0000,
"quantityDeliveryBay": 0.0000,
"quantityAvailable": 180.0000,
"quantityUnavailable": 20.0000,
"quantityNonSellable": 20.0000,
"quantityInTransit": 0.0000,
"quantityCustomerReserved": 0.0000,
"quantityTransferReserved": 0.0000,
"quantityVendorReturn": 0.0000,


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"quantityLastReceived": 0.0000,
"quantityLastRequested": 0.0000,
"openStockCounts": 0,
"lastStockCountTimeframe": 3,
"uinProblemLine": false,
"lastUpdateDate": "2022-07-15T06:23:27-05:00",
"nonSellableIdos": [
{
"nonsellableTypeId": 1,
"quantity": 15.0000
},
{
"nonsellableTypeId": 2,
"quantity": 5.0000
}
]
}
}

# API: Find Future Inventory

Searches for future delivery records for a single store and single item.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/{storeId}/{itemId}/future |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | None |
| Output | List of delivery records |
| Max Response Limit | N/A |

### Path Parameter Definitions

| Attribute | Description |
|---|---|
| storeId | The store identifier to retrieve future inventory for. |
| itemId | The item identifier to retrieve future inventory for. |


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### Output Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String (25) | Yes | The item identifier. |
| storeId | Long | Yes | The store identifier. |
| deliveries | List of deliveryIds | - | A list of delivery information if it exists. |

### Delivery Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| sourceLocationType | Integer | Yes | Item Location Type (see Additional Data Definition). |
| sourceLocationId | Long | Yes | The unique identifier of the source location of the delivery. |
| deliveryType | Integer | Yes | Item Delivery Type (see Additional Data Definition). |
| expectedDate | Date | Yes | The date the inventory is expected to arrive. |
| quantityInbound | BigDecimal | Yes | Amount of inventory inbound on the delivery. |
| quantityOrdered | BigDecimal | Yes | Amount of inventory on order. |

### Example Output

{

"itemId": "100637121",

"storeId": 5000,

"deliveryIdos": [

{

"sourceLocationType": 1,

"sourceLocationId": 5001,

"deliveryType": 3,

"quantityInbound": 30.0000,

"quantityOrdered": 0.0000

}

]

}

### Additional Data Definitions

#### Item Delivery Type


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| Value | Definition |
|---|---|
| 1 | Allocation |
| 2 | Purchase Order |
| 3 | Transfer |
| - | - |

### Item Location Type

| Value | Definition |
|---|---|
| 1 | Store |
| 2 | Supplier |
| 3 | Warehouse |
| 4 | Finisher |

# API: Find Inventory in Buddy Stores

Searches for inventory information at buddy stores by single input store and multiple items.

### API Basics

| | |
|---|---|
| Endpoint URL | {baseUrl}/{storeId}/associated |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | List of items |
| Output | List of inventory records |
| Max Response Limit | N/A |

### Path Parameter Definitions

| Attribute | Description |
|---|---|
| storeId | The store identifier to find buddy stores for. |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemIds | List of Strings | Yes | A list of items to retrieve inventory for. |
| sellingUnitOfMeasure | Boolean | - | True indicates an attempt to use the selling unit of measure of the item, false indicates to use the standard unit of measure. If conversion cannot take place, it defaults back to standard unit of measure. |


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### Example Input

{

"itemIds": [

"100637156",

"100637172",

"100668091"

],

"sellingUnitOfMeasure": true

}

### Output Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String | Yes | The item identifier. |
| storeId | Long | | The store identifier if the item is ranged to a store. |
| ranged | Boolean | Yes | True if the item is ranged to the store, false otherwise. |
| estimated | Boolean | Yes | True if the quantities are estimated, false otherwise. |
| unitOfMeasure | String | Yes | The unit of measure of the quantities. |
| caseSize | BigDecimal | Yes | The default case size of the item. |
| quantityStockOnHand | BigDecimal | Yes | The stock on hand quantity. |
| quantityBackroom | BigDecimal | Yes | The quantity located in the back room area. |
| quantityShopfloor | BigDecimal | Yes | The quantity located on the shop floor. |
| quantityDeliveryBay | BigDecimal | Yes | The quantity located in the delivery bay. |
| quantityAvailable | BigDecimal | Yes | The available to sell quantity. |
| quantityUnavailable | BigDecimal | Yes | The unavailable to sell quantity. |
| quantityNonSellable | BigDecimal | Yes | The total non-sellable quantity. |
| quantityInTransit | BigDecimal | Yes | The quantity currently in transit. |
| quantityCustomerReserved | BigDecimal | Yes | The quantity reserved for customer orders. |
| quantityTransferReserved | BigDecimal | Yes | The quantity reserved for transfers. |
| quantityVendorReturn | BigDecimal | Yes | The quantity reserved for vendor returns. |
| nonSellableQuantities | List of Non-Sellable Quantities | - | A collection containing the specific quantity in each non-sellable quantity type bucket. |

### Non-Sellable Quantity Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| nonsellableTypeId | Long | Yes | The non-sellable type unique identifier. |


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| Attribute | Data Type | Required | Description |
|---|---|---|---|
| quantity | quantity | Yes | The quantity in this particular non-sellable type bucket. |

### Example Output

[
{
"itemId": "100637156",
"storeId": 5000,
"ranged": true,
"estimated": false,
"unitOfMeasure": "EA",
"caseSize": 100.00,
"quantityStockOnHand": 10.0000,
"quantityBackroom": 10.0000,
"quantityShopfloor": 0.0000,
"quantityDeliveryBay": 0.0000,
"quantityAvailable": 10.0000,
"quantityUnavailable": 0.0000,
"quantityNonSellable": 0.0000,
"quantityInTransit": 0.0000,
"quantityCustomerReserved": 0.0000,
"quantityTransferReserved": 0.0000,
"quantityVendorReturn": 0.0000
},
{
"itemId": "100637172",
"storeId": 5000,
"ranged": true,
"estimated": false,
"unitOfMeasure": "EA",
"caseSize": 100.00,
"quantityStockOnHand": 10.0000,
"quantityBackroom": -10.0000,


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"quantityShopfloor": 0.0000,
"quantityDeliveryBay": 0.0000,
"quantityAvailable": -10.0000,
"quantityUnavailable": 20.0000,
"quantityNonSellable": 20.0000,
"quantityInTransit": 0.0000,
"quantityCustomerReserved": 0.0000,
"quantityTransferReserved": 0.0000,
"quantityVendorReturn": 0.0000,
"nonSellableIdos": [
{
"nonsellableTypeId": 1,
"quantity": 15.0000
},
{
"nonsellableTypeId": 2,
"quantity": 5.0000
}
]
}
}

# API: Find Inventory in Transfer Zone Stores

Searches for inventory at transfer zone stores by single input store and multiple items.

**API Basics**

| | |
|---|---|
| Endpoint URL | {baseUrl}/{storeId}/transferzone |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | List of items |
| Output | List of inventory records |
| Max Response Limit | N/A |


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### Path Parameter Definitions

| Attribute | Description |
|---|---|
| storeId | The store identifier to find transfer zone stores for. |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemIds | List of Strings | Yes | A list of items to retrieve inventory for. |
| sellingUnitOfMeasure | Boolean | - | True indicates an attempt to use the selling unit of measure of the item, false indicates to use the standard unit of measure. If conversion cannot take place, it defaults back to standard unit of measure. |

### Example Input

{

"itemIds": [

"100637156",

"100637172",

"100668091"

],

"sellingUnitOfMeasure": true

}

### Output Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String | Yes | The item identifier. |
| storeId | Long | | The store identifier if the item is ranged to a store. |
| ranged | Boolean | Yes | True if the item is ranged to the store, false otherwise. |
| estimated | Boolean | Yes | True if the quantities are estimated, false otherwise. |
| unitOfMeasure | String | Yes | The unit of measure of the quantities. |
| caseSize | BigDecimal | Yes | The default case size of the item. |
| quantityStockOnHand | BigDecimal | Yes | The stock on hand quantity. |
| quantityBackroom | BigDecimal | Yes | The quantity located in the back room area. |
| quantityShopfloor | BigDecimal | Yes | The quantity located on the shop floor. |
| quantityDeliveryBay | BigDecimal | Yes | The quantity located in the delivery bay. |
| quantityAvailable | BigDecimal | Yes | The available to sell quantity. |


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| Attribute | Data Type | Required | Description |
|---|---|---|---|
| quantityUnavailable | BigDecimal | Yes | The unavailable to sell quantity. |
| quantityNonSellable | BigDecimal | Yes | The total non-sellable quantity. |
| quantityInTransit | BigDecimal | Yes | The quantity currently in transit. |
| quantityCustomerReserved | BigDecimal | Yes | The quantity reserved for customer orders. |
| quantityTransferReserved | BigDecimal | Yes | The quantity reserved for transfers. |
| quantityVendorReturn | BigDecimal | Yes | The quantity reserved for vendor returns. |
| nonSellableQuantities | List of Non-Sellable Quantities | - | A collection containing the specific quantity in each non-sellable quantity type bucket. |

### Non-Sellable Quantity Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| nonsellableTypeId | Long | Yes | The non-sellable type unique identifier. |
| quantity | quantity | Yes | The quantity in this particular non-sellable type bucket. |

### Example Output

[

{

"itemId": "100637156",

"storeId": 5000,

"ranged": true,

"estimated": false,

"unitOfMeasure": "EA",

"caseSize": 100.00,

"quantityStockOnHand": 10.0000,

"quantityBackroom": 10.0000,

"quantityShopfloor": 0.0000,

"quantityDeliveryBay": 0.0000,

"quantityAvailable": 10.0000,

"quantityUnavailable": 0.0000,

"quantityNonSellable": 0.0000,

"quantityInTransit": 0.0000,

"quantityCustomerReserved": 0.0000,


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"quantityTransferReserved": 0.0000,
"quantityVendorReturn": 0.0000
},
{
"itemId": "100637172",
"storeId": 5000,
"ranged": true,
"estimated": false,
"unitOfMeasure": "EA",
"caseSize": 100.00,
"quantityStockOnHand": 10.0000,
"quantityBackroom": -10.0000,
"quantityShopfloor": 0.0000,
"quantityDeliveryBay": 0.0000,
"quantityAvailable": -10.0000,
"quantityUnavailable": 20.0000,
"quantityNonSellable": 20.0000,
"quantityInTransit": 0.0000,
"quantityCustomerReserved": 0.0000,
"quantityTransferReserved": 0.0000,
"quantityVendorReturn": 0.0000,
"nonSellableIdos": [
{
"nonsellableTypeId": 1,
"quantity": 15.0000
},
{
"nonsellableTypeId": 2,
"quantity": 5.0000
}
]
}
}


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# REST Service: Item ISN

This rest service defines operations to manage Item ISN information.

**Service Base URL**

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env/siocs-int-services>/api/isns

## APIs

| API | Description |
|---|---|
| Create ISN | Create a new ISN |
| Update ISN | Updates an existing ISN |
| Delete ISN | Delete an existing ISN |
| Find ISNs | Search for ISNs based on a set of criteria |
| Read ISN Types | Read all Item ISN types |

## API: Create ISN

This API will create ISN information.

**API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | The ISN |
| Output | The ISN including ID |
| Max Response Limit | N/A |

**Input Data Definition**

| Attribute | Type | Req | Definition |
|---|---|---|---|
| isn | String(128) | X | A scan number used to scan the item |
| isnTypeId | Long(12) | X | The unique identifier of the item ISN type |
| itemId | String(25) | X | The unique item identifier (sku number) |
| uin | String(128) | | A universal identification number |
| externalId | String(128) | | An identifier from an external system |

**Example**


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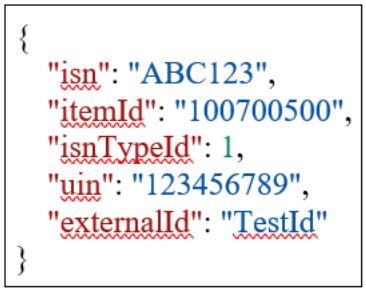


### Output Data Definition

| Attribute | Type | Definition |
|---|---|---|
| isnId | Long(12) | The unique identifier of the ISN record |
| isn | String(128) | This is a scan number used to scan the item |
| externalId | String(128) | An identifier from an external system |

## API: Update ISN

This API allows the ISN information to be modified. An optional value left blank will update the ISN information to blank for that value.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/isnId |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | ISN Update Information |
| Output | N/A |
| Max Response Limit | N/A |

### Path Data Definiton

| Attribute | Type | Definition |
|---|---|---|
| isnId | Long(12) | The unique identifier of the item ISN. |

### Input Data Definition

| Attribute | Type | Req | Definition |
|---|---|---|---|
| isnTypeId | Long(12) | X | The unique identifier of the item ISN type |
| itemId | String(25) | X | The unique item identifier (sku number) |
| uin | String(128) | | A universal identification number |
| externalId | String(128) | | An identifier from an external system |

### Example


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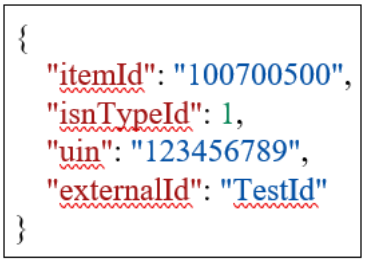


# API: Delete ISN

This API deletes an item ISN.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/{isnId}/delete |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | N/A |
| Output | N/A |
| Max Response Limit | N/A |

### Path Data Definition

| Attribute | Type | Definition |
|---|---|---|
| isinId | Long(12) | The unique identifier of the item ISN. |

# API: Find ISNs

This API is used to lookup or find ISNs.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | N/A |
| Output | List of ISNs |
| Max Response Limit | 10,000 |

### Query Parameters

| Attribute | Type | Definition |
|---|---|---|


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| | | |
|---|---|---|
| isn | String(128) | Retrieves records containing this ISN, which could be for multiple items. |
| ItemId | String(25) | Retrieves records associated to this unique item identifier (sku number). |
| uin | String(128) | Retrieves records associated to this universal identification number. |
| updateDateFrom | String | Retrieves records on or after this date. |
| updateDateTo | String | Retrieves records on or before this date. |

### Output Data Definition

| Attribute | Type | Definition |
|---|---|---|
| itemIsnId | Long(12) | The unique identifier of the record |
| isn | String(128) | Retrieves records containing this ISN, which could be for multiple items. |
| ItemId | String(25) | Retrieves records associated to this unique item identifier (sku number). |
| uin | String(128) | Retrieves records associated to this universal identification number. |
| itemIsnTypeId | Long(12) | The unique identifier of the item ISN type |
| externalId | String(128) | An identifier of this ISN from an external system |
| createDate | Date | The date this ISN record was first created |
| createUser | String(128) | The user that created this ISN record |
| updateDate | Date | The last date this ISN record was updated |
| updateUser | String(128) | The user that last updated this ISN record. |

# API: Read ISN Types

This API is used to lookup all the ISN types available for an ISN.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/types |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | N/A |
| Output | List of ISN Types |
| Max Response Limit | N/A |

### Output Data Definition

| Attribute | Type | Definition |
|---|---|---|
| isnTypeId | Long(12) | The unique ISN type identifier |
| labelKey | String(128) | A label for the ISN type (not translated) |


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| | | |
|---|---|---|
| restricted | Boolean | Y if this represents secure data, N otherwise. |

# REST Service: Item Price

This service allows for the search and retrieval of item pricing information stored within EICS.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer></cust_env>/siocs-int-services/api/prices

## API Definitions

**API Definitions**

| API | Description |
|---|---|
| findPrices | This API can be used to search for price summary information matching filter criteria. |
| FindPriceByIds | Find extended price information based on a list of potential unique price identifiers. |

## API: findPrices

This API can be used to search for price summary information matching filter criteria.

At least one input criteria is required or a bad request error will be returned.

API Basics

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query Parameters |
| Output | List of Prices |
| Maximum Results Allowed | 10,000 |

**Input Data Definition**

| Attribute | Data Type | Definition |
|---|---|---|
| storeId | Long(10) | Only retrieve item price information for this store. |
| effectiveDateFrom | String | Only retrieve item price information on or after this date. |
| effectiveDateTo | String | Only retrieve item price information on or before this date. |
| itemId | String(25) | Only retrieve item price information for this item. |


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### Output Data Definition

| Attribute | Data Type | Definition |
|---|---|---|
| priceId | Long(12) | The unique identifier of the price. |
| itemId | String(25) | The unique identifier of the item. |
| storeId | Long(10) | The unique identifier of the store. |
| status | Integer | The status of the price. |
| priceType | Integer | The type of the price. |
| effectiveDate | Date | The effective date of the price. |
| endDate | Date | The end date of the price. |
| priceValue | BigDecimal(20,4) | The price amount. |
| priceCurrency | String(3) | The price currency. |
| unitOfMeasure | String(4) | The item unit of measure associated with the price. |

## API: findPriceByIds

Find extended price information based on a list of potential unique price identifiers.

It will return information only for price identifiers that are found. It will not return errors or fail to process if invalid identifiers occur. It is up to the accessing information to determined prices not found using this API.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/find |
| Method | POST |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | ID List |
| Output | List of Prices |
| Maximum Input Allowed | 5,000 |

### Input Data Definition

| Attribute | Type | Definition |
|---|---|---|
| priceIds | List<Long(12)> | A list of price identifiers. |

### Output Data Definition

| Attribute | Type | Definition |
|---|---|---|
| priceId | Long(12) | The unique identifier of the price. |
| itemId | String(25) | The unique identifier of the item. |
| storeId | Long(10) | The unique identifier of the store. |
| Status | Integer | The status of the price. |
| priceType | Integer | The type of the price |
| effectiveDate | Date | The effective date of the price. |
| endDate | Date | The end date of the price. |
| priceValue | BigDecimal(20, 4) | The price amount. |


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| | | |
|---|---|---|
| priceCurrency | String(3) | The price currency. |
| unitOfMeasure | String(4) | The item unit of measure associated with the price. |
| externalPriceId | Long(12) | The unique identifier of the external price or price event. |
| clearanceId | Long(15) | The unique identifier of the clearance price change from the pricing engine. |
| promotionId | Long(10) | The unique identifier of the promotion. |
| regularPriceChangeId | Long(15) | The unique identifier of the regular price change from the pricing engine. |
| resetClearanceId | Long(15) | The identifier of the clearance reset. |
| storeRequested | Boolean | True indicates it is store requested, false indicates it is not store requested. |
| sellingUnitPriceChange | Boolean | True indicates the selling unit retail price has changed, false indicates it has not. |
| multiUnitPriceChange | Boolean | True indicates the multi-unit pricing has changed, false indicates it has not. |
| multiUnitRetail | BigDecimal(20, 4) | The multi-unit retail price. |
| multiUnitRetailCurrency | String(3) | The currency type of the multi-unit retail price in the multi-selling unit of measure. |
| multiUnits | BigDecimal(12, 4) | The number of multi-units. |
| multiUnitUom | String(4) | The unit of measure of the multi-unit retail price. |
| promotionName | String(160 | The promotion name. |
| promotionCompDtlId | Long(15) | The unique identifier of the promotion component detail from the pricing engine. |
| promotionType | Integer | Promotion Component Type (See Index) |
| promotionDurationType | Integer | Promotion Duration Type (See Index) |
| promotionCompId | Long(10) | The unique identifier of the promotion component. |
| promotionCompName | String(160) | The promotion component name. |
| promotionDescription | String(640) | The promotion description. |
| updateDate | Date | The date that the update took place. |

Example Input:

```
{
"priceIds": [
123,
 456,
 789,
 012
  ]
}
```

### Additional Data Definitions

### Price Type


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| ID | Status |
|---|---|
| 1 | Permanent |
| 2 | Promotional |
| 3 | Clearance |
| 4 | Clearance Reset |

**Price Status**

| ID | Status |
|---|---|
| 1 | New |
| 2 | Pending |
| 3 | Approved |
| 4 | Completed |
| 5 | Rejected |
| 6 | Ticket List |
| 7 | Extract Failed |
| 8 | Deleted |
| 99 | Default |

**Promotion Component Type**

| ID | Status |
|---|---|
| 1 | Complex Promotion |
| 2 | Simple Promotion |
| 3 | Threshold Promotion |
| 4 | Credit (Finance) Promotion |
| 5 | Transaction Promotion |

**Promotion Duration Type**

| ID | Status |
|---|---|
| 1 | All Day Promotion |
| 2 | Partial Day Promotion |
| 3 | Multiple Day Promotion |

# REST Service: Item UDA

This service integrates user defined attribute foundation data. Asynchronous item UDA integration is processed through staged messages and is controlled by the MPS Work Types.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/udas

## API Definitions


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| API | Description |
|---|---|
| importUdas | Imports user defined attributes. |
| deleteUdas | Deletes user defined attributes. |
| importItemUdas | Imports an association between items and user defined attributes. |
| deleteItemUdas | Deletes the association between items and user defined attributes. |
| readItemUdas | Retrieves all the user defined attributes for a particular item. |

# API: Import Udas

Imports user defined attributes. It is managed by DcsUda work type. If the input exceeds 500 UDAs an input too large exception will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/import |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | UDA import List |
| Output | None |
| Max Response Limit | N/A |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| udas | List of details | Yes | A list of user defined attributes. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| udaId | Integer (5) | Yes | The user defined attribute identifier. |
| type | Integer | Yes | See Index: UdaType |
| description | String (120) | Yes | The description of the user defined attribute. |
| printTicket | Boolean | | True indicates tickets are printed for this user defined attribute. |
| printLabel | Boolean | | True indicates labels are printed for this user defined attribute. |


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| | | |
|---|---|---|
| lovId | String (25) | The unique identifier of a list of values UDA. |
| lovDescription | String (250) | The description of the list of values UDA. |

# API: Delete Udas

Deletes user defined attributes. It is managed by DcsUda work type. If the input exceeds 500 UDAs an input too large exception will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | UDA delete list |
| Output | None |
| Max Response Limit | N/A |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| udaIds | List<Long> | Yes | A list of user defined attribute. |

# API: Import Item Udas

Imports associations between items and user defined attributes. This is controlled by the work type: DcsItem.

If the input exceeds 500 Item UDAs an input too large exception will be returned.

A "Forbidden" response will occur if application is integrated with MFCS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/items/import |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | Item UDA list |
| Output | None |
| Max Response Limit | N/A |


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### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemUdas | List of details | x | A list of associations between an item and user defined attributes. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String | X | The item identifier. |
| udaId | Integer | X | The user defined attribute identifier. |
| udaDate | Date | | Holds the value of the user defined attribute if it is a date. |
| udaText | String (250) | | Holds the value of the user defined attribute if it is text. |
| udaLovId | String (25) | | Holds the unique numeric identifier of the user defined attribute if it is a list of values selection. |
| print | Boolean | | Y indicates printing is done for this item and user defined attribute (which is also controlled by the UDA). |

## API: Delete Item Udas

Deletes an association between item and user defined attributes. This is controlled by the work type: DcsItem.

If the input exceeds 500 Item UDAs an input too large exception will be returned.

A "Forbidden" response will occur if application is integrated with MFCS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/items/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | UDA item delete list |
| Output | None |
| Max Response Limit | N/A |


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### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemUdas | List of details | Yes | A list of associations between item and user defined attribute identifiers. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String (25) | Yes | The item identifier. |
| udaId | Integer (5) | Yes | The user defined attribute identifier. |
| udaDate | Date | | Holds the value of the user defined attribute if it is a date. |
| udaText | String (250) | | Holds the value of the user defined attribute if it is text. |
| udaLovId | String (25) | | Holds the unique numeric identifier of the user defined attribute if it is a list of values selection. |

## API: Find Item Udas

It will retrieve UDAs for the inputted items.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/items/find |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Item list |
| Output | UDA item list |
| Max Response Limit | N/A |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemIds | List<String> | Yes | A list of items to find UDAs for. |

### Output Data Definition

| Attribute | Data Type | Description |
|---|---|---|
| itemId | String | The item identifier. |


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| | | |
|---|---|---|
| udaId | Integer | The user defined attribute identifier. |
| type | String | The user defined attribute type: (LV) List of Value, (FF) Free Form Text, DT (Date) |
| description | String | The description of the user defined attribute. |
| udaDate | Date | Holds the value of the user defined attribute if it is a date. |
| udaText | String | Holds the value of the user defined attribute if it is text. |
| udaLovId | Long | Holds the unique numeric identifier of the user defined attribute if it is a list of values selection. |
| udaLoveDescription | String | Holds the value description of the UDA List of Values selection. |
| printTicket | Boolean | True indicates tickets are printed for this user defined attribute. |
| printLabel | Boolean | True indicates labels are printed for this user defined attribute. |

#### Additional Data Definitions

#### UDA Type

| Value | Definition |
|---|---|
| 1 | Date |
| 2 | Free Form Text |
| 3 | List of Value |

# REST Service: Item UIN

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/uins

## API Definitions

| API | Description |
|---|---|
| createUin | Create a new unique identification number. |
| readUin | Reads information about a Universal Identification Number. |


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| | |
|---|---|
| findUins | Find unique identification number summary information based on search criteria. |
| findUinLabels | This API is used to find all the UIN labels available for a uin items. |
| findUinHistory | This API is used to find UIN historical information based on search criteria. |
| generateUins | This API generates new Type 2 (Auto Generated Serial Numbers) Universal Identification Numbers without changing store inventory positions. |

# API: createUin

Create a new unique identification number. Note that the combination of store and item determines the administrative information about a UIN (such as UIN Type).

The newly created UIN will be in "Unconfirmed" status and its transaction type will be "UIN Web Service." To move it into inventory, use inventory adjustment or another transaction.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | POST |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | UIN information |
| Output | UIN confirmation information |

### Input Data Definition

| Payload | Type | Req | Definition |
|---|---|---|---|
| storeId | Long | X | The identifier of the store. |
| itemId | String | X | The identifier of the item. |
| uin | String | X | The universal identification number. |

### Output Data Definition

| Payload | Type | Definition |
|---|---|---|
| itemUinId | Long | The unique identifier to the record. |
| storeId | Long | The identifier of the store. |
| itemId | String | The identifier of the item. |
| uin | String | The universal identification number. |
| status | Integer | The current status of the UIN. Valid values are in index. |

### Example

```
{
  "storeId": 5000,,
```


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"itemId": "100700500",
"uin": "1234"
}

# API: readUin

Reads information about a Universal Identification Number.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/items/{itemId}/{uin} |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Path Parameters Item identifier and UIN |
| Output | UIN information |

### Output Data Definition

| Payload | Type | Definition |
|---|---|---|
| itemUinId | Long | A unique identifier representing the record in the database. |
| itemId | String | The identifier of the item. |
| uin | String | The universal identification number. |
| type | Integer | The type of UIN. Valid values are: (1) Serial Number, (2) Auto Generated Serial Number |
| status | Integer | The current status of the UIN. See Index for valid values. |
| storeId | Long | The store identifier |
| transactionType | Integer | The business area that last contained the UIN, |
| transactionId | String | The transaction id of the transaction containing the UIN. |
| cartonId | String | The identifier of the carton containing the UIN. |
| nonsellableTypeId | Long | A non-sellable inventory bucket the UIN was within. |
| previousStatus | Integer | The previous status of the UIN. Valid values are in index. |
| previousStoreId | Long | The previous store identifier associated with the previous status. |
| previousTransactionType | Integer | The previous business area that contained the UIN for that previous status. |
| previousTransactionId | String | The transaction id of the transaction that previously contained the UIN for that previous status. |
| previousCartonId | String | The identifier of the carton that previously container the UIN for that previous status. |
| previousNonsellableTypeId | Long | A non-sellabable inventory bucket the UIN was last within for that previous status. |
| damaged | Boolean | True if the UIN is damaged, N otherwise. |
| createDate | Date | The date the UIN was first inserted into the system. |


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| | | |
|---|---|---|
| updateDate | Date | The last date the UIN was updated. |
| createUser | String | The user that first inserted the UIN into the system. |
| updateUser | String | The user that last updated the UIN in the system. |

# API: findUins

Find unique identification number summary information based on search criteria.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query Parameters |
| Output | List of UINs (see ReadUIN API for Data Output) |
| Maximum Results Allowed | 10,000 |

### Input Data Definition

| Attribute | Type | Definition |
|---|---|---|
| storeId | Long | Include only UINs for this store identifier. |
| itemId | String | Include only UINS for this item |
| status | Integer | Include only UINs with this current status. |
| updateDateFrom | Date/String | Include only UINs updated on or after this date. |
| updateDateTo | Date/String | Include only UINs updated on or before this date. |

# API: findUinLabels

This API is used to find all the UIN labels available for a uin items.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/labels |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | N/A |
| Output | List of labels |

### Output Data Definition

| Attribute | Type | Definition |
|---|---|---|
| labelId | Long | The unique identifier of the record. |


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| | | |
|---|---|---|
| labelCode | String | A unique code that defines the label. |
| description | String | The description or label associated to the code (not translated). |

# API: findUinHistory

This API is used to find UIN historical information based on search criteria.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/histories |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query parameters |
| Output | List of UIN history records |
| Maximum Results Allowed | 10,000 |

### Input Data Definition

| Attribute | Type | Definition |
|---|---|---|
| itemId | String | Include only UIN history for this item. |
| uin | Integer | Include only UIN history for this UIN. |
| createDateFrom | Date/String | Include only UIN history created on or after this date. |
| createDateTo | Date/String | Include only UIN history created on or before this date. |

### Output Data Definition

| Payload | Type | Definition |
|---|---|---|
| itemId | String | The identifier of the item. |
| uin | String | The universal identification number. |
| type | Integer | The type of UIN. Valid values are: (1) Serial Number, (2) Auto Generated Serial Number |
| status | Integer | The current status of the UIN. Valid values are in index. |
| storeId | Long | The store identifier |
| transactionType | Integer | The business area that last contained the UIN, |
| transactionId | String | The transaction id of the transaction containing the UIN. |
| cartonId | String | The identifier of the carton containing the UIN. |
| nonsellableTypeId | Integer | A non-sellable inventory bucket the UIN was within. |
| createDate | Date | The date the UIN was first inserted into the system. |


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| | | |
|---|---|---|
| updateDate | Date | The last date the UIN was updated. |
| createUser | String | The user that first inserted the UIN into the system. |
| updateUser | String | The user that last updated the UIN in the system. |

# API: generateUins

This API generates new Type 2 (Auto Generated Serial Numbers) Universal Identification Numbers without changing store inventory positions.

If the UIN administrative data for the item and store used do not indicate Type 2, an error will be returned.

The new UINs generated will have a status of “Unconfirmed”.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/generate |
| Method | POST |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | UIN generation information |
| Output | N/A |

### Input Data Definition

| Payload | Type | Req | Definition |
|---|---|---|---|
| itemId | String | X | The identifier of the item. |
| storeId | Long | X | The identifier of the store |
| quantity | Integer | X | The amount of universal identification numbers to generate. |
| transactionType | Integer | X | See Index: UIN Functional Area |
| transactionId | String | | A transaction reference identifier. |

### Example

```
{
  "storeId": 5000,
  "itemId": "100663071",
  "uin": "1234",
 "quantity": 5,
   "transactionType": 13
}
```


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### Additional Data Definitions

UIN Type

| ID | Description |
|---|---|
| 1 | Serial Number |
| 2 | Auto-Generated Serial Number |

### UIN Status

| ID | Description |
|---|---|
| 1 | In Stock |
| 2 | Sold |
| 3 | Shipped To Warehouse |
| 4 | Shipped To Store |
| 5 | Reserved For Shipping |
| 6 | Shipped To Vendor |
| 7 | Removed From Inventory |
| 8 | Unavailable |
| 9 | Missing |
| 10 | In Receiving |
| 11 | Customer Order Reserved |
| 12 | Customer Order Fulfilled |
| 13 | Shipped To Finisher |
| 99 | Unconfirmed |

### UIN Functional Area

| ID | Description |
|---|---|
| 1 | Warehouse Delivery Receipt |
| 2 | Direct Delivery Receipt |
| 3 | Create Transfer |
| 4 | Dispatch Transfer |
| 5 | Receive Transfer |
| 6 | Receipt Adjustment |
| 7 | Create Return |
| 8 | Dispatch Return |
| 9 | Inventory Adjustment |
| 10 | Stock Count |
| 11 | Stock Recount |
| 12 | Stock Count Authorized |
| 13 | Manual |
| 14 | POS Sale |
| 15 | POS Return |


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| | |
|---|---|
| 16 | POS Sales Void |
| 17 | POS Return Void |
| 18 | UIN Web Service |
| 19 | Customer Order |
| 20 | Direct Delivery ASN Inbound |
| 21 | Transfer ASN Inbound |
| 22 | Transfer Shipment |

# REST Service: Manifest

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/manifests

## API Definitions

| API | Description |
|---|---|
| Close Manifest | Call this method to close all manifested shipments matching the input criteria. |

## API: Close Manifest

Call this method to close all manifested shipments for the carrier code and carrier services. A processing message is sent to the internal message processing system and the services returns an “Accepted” response. The closing of the manifest will occur later when the message is processed.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/close |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | Criteria |
| Output | None |
| Max Response Limit | - |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| carrierCode | String (4) | Yes | A carrier code. |


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| | | | |
|---|---|---|---|
| carrierServiceCode | String (6) | Yes | A carrier service code. |
| trackingNumber | List of Strings (120) | Yes | A list of tracking numbers associated to the contents of the manifest. |
| shipDate | Date | - | Indicates all items manifested prior to this date for the carrier have been shipped. |

**Example Input**

```
{
    "carrierCode": "O",
    "carrierServiceCode": "O",
    "trackingIds": ["7861","45722"],
    "shipDate":"2022-04-19T23:59:59-05:00"
}
```

# REST Service: Notification

This page captures the service APIs related to accepting notification from an external system.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/notifications

## APIs

| API | Description |
|---|---|
| findNotifications | Find notifications |
| createNotifications | Create a series of notifications |

## API: findNotifications

API is used to search for notifications.

**Table 4-163 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |


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**Table 4-163 (Cont.) API Basics**

| | |
|---|---|
| Input | Query parameters |
| Output | Collection of notifications |
| Max Response Limit | 20,000 |

**Table 4-164 Query Parameters**

| Attribute | Type | Definition |
|---|---|---|
| storeId | Long(10) | Include only records with this store identifier. |
| notificationType | Integer(4) | Include only records with this notification type. |
| transactionType | Integer(4) | Include only records with this transaction type. |
| status | Integer(4) | Include only records with this status. |
| createDateFrom | Date | Include only records with a create date on or after this date. |
| createDateTo | Date | Include only records with a create date on or before this date. |

| Attribute | Type | Definition |
|---|---|---|
| notificationId | Long(15) | The unique identifier of the notification. |
| notificationType | Integer(4) | The type of notification. See Index. |
| storeId | Long(10) | The store identifier. |
| subject | String(400) | The title or subject of the notification. |
| message | String(2000) | The message text of the notification. |
| status | Integer(4) | The current status of the notification. |
| transactionType | Integer(4) | The type of a transaction associated to the notification. See Index. |
| transactionId | Long(15) | The identifier of a transaction associated to the notification. |
| createDate | Date | The date the notification was originally created. |
| createUser | String(128) | The user that created the notification. |

# API: createNotifications

Create one or more notifications within the system.

| Payload | Type | Req | Definition |
|---|---|---|---|
| notifications | Collection | X | The list of notifications to create. |

**Table 4-165 Notification**

| Attribute | Type | Req | Definition |
|---|---|---|---|
| storeId | Long(10) | X | The store identifier. |
| notificationType | Integer(4) | X | The type of notification. See Index. |


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**Table 4-165 (Cont.) Notification**

| | | | |
|---|---|---|---|
| subject | String(400) | X | The title or subject of the notification. |
| message | String(2000) | X | The message text of the notification. |
| transactionType | Integer(4) | X | The type of a transaction associated to the notification. See Index. |
| transactionId | Long(15) | X | The identifier of a transaction associated to the notification. |
| createDate | Date | | The date the notification was originally created. This will default to current date if not supplied. |
| createUser | String(128) | | The user that created the notification. This will default to integration user if not supplied. |

**Example**


```
{
    "notifications": [
        {
            "storeId": 5000,
            "subject": "New
Subject 2",
            "message": "New
Message 2",
            "notificationType":
8,
            "transactionType":
6,
            "transactionId":
5555,
            "createDate":
"2024-02-16T12:00:00-06:00"
        }
    ]
}
```


# Index

**Table 4-166 Notification Type**

| ID | Description |
|---|---|
| 1 | Customer Order (New) |
| 2 | Customer Order Reauthorization |
| 3 | Customer Order Pick Reminder |
| 4 | Customer Order Pickup |
| 5 | Customer Order Receipt |
| 6 | Customer Order Reminder |


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**Table 4-166 (Cont.) Notification Type**

| | |
|---|---|
| 7 | Fulfillment Order Reverse Pick (New) |
| 8 | UIN Items on Incoming ASN Failed |
| 9 | Return To Vendor Expiration Approaching |
| 10 | Transfer Delivery Damaged |
| 11 | Transfer Delivery Receiving Discrepancy |
| 12 | Transfer Delivery Carton Misdirected |
| 13 | Transfer Delivery Overdue |
| 14 | Transfer Delivery UIN Discrepancy (From Finisher) |
| 15 | Transfer Delivery UIN Discrepancy |
| 16 | Transfer Delivery Auto-Receive Failure (From Finisher) |
| 17 | Transfer Delivery Auto-Receive Failure (From Warehouse) |
| 18 | Transfer Delivery Auto-Receive Failure (From Store) |
| 19 | Transfer Request Approved |
| 20 | Transfer Request Quantity Unavailable |
| 21 | Transfer Request Expiration Approaching |
| 22 | Transfer Request Submitted |
| 23 | Transfer Request Rejected |
| 24 | UIN Store Unexpectedly Altered |
| 25 | Vendor Delivery Over Received Quantity |
| 26 | Vendor Return Quantity Unavailable |

**Table 4-167 Transaction Type**

| ID | Description |
|---|---|
| 1 | Customer Order |
| 2 | Customer Order Pick |
| 3 | Customer Order Delivery |
| 4 | Customer Order Reverse Pick |
| 5 | Direct Store Delivery Receiving |
| 6 | Inventory Adjustment |
| 7 | Item Basket |
| 8 | Return To Vendor |
| 9 | Return To Vendor Shipment |
| 10 | Shelf Adjustment |
| 11 | Shelf Replenishment |
| 12 | Shelf Replenishment Gap |
| 13 | Stock Count |
| 14 | Store Order |
| 15 | Transfer |
| 16 | Transfer Shipment |


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**Table 4-167 (Cont.) Transaction Type**

| | |
|---|---|
| 17 | Transfer Receiving |

**Table 4-168 Notification Status**

| ID | Description |
|---|---|
| 1 | Unread |
| 2 | Read |

# REST Service: POS Transaction

EICS integrates with POS systems and Sales Audit systems to ensure that the inventory positions are accurate. This is especially important where accurate up-to-date inventory positions are required to reduce customer disappointment when trying to locate items that appear in inventory or delays in filling customer orders. POS is the primary source of sales, returns, void, and some customer order transaction information to EICS. ReSA sends only modified or new POS transaction records to EICS. This service processes the information asynchronously so a short delay may occurs before inventory is updated. As part of the sales processing, EICS updates the inventory depending on the nature of the transaction. The following are the supported transaction types for the sales processing Sale, Return, and Post Void of these transactions. The audit system should not modify the post void transactions. A change to a void is not supported by EICS. Please refer to Sales Integration in the integration guide for more information. Duplicate transactions are prevented by scanning for unique instances of transactions by id, date, and register id. However, it is the responsibility of the calling application to make sure that duplicate transactions are not sent. Even in the case of REST call that fails, any retry or attempt to resend the transaction should have a delayed time period to make sure multiple attempts to transmit or retransmit a transaction does not occur simultaneously.

## Service Base URL

The Cloud Service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Import POS Transaction

Point-Of-Sale systems may integration transactions to EICS using this service, which imports and processes point-of-sale transactions through an asynchronous process. The service has a default limit of 1,000 total items, though they may be distrubted across any number of transactions. Only one store is allowed across all the transactions sent in a single request. The web service is optimized for speed at greater than 400 items and less than 500 items per service call. The further above or below this optimized point, processing speed will be reduced, and it may take longer for the sales to be recorded in inventory. Since this import is asynchronous, only the basic form of the input is validated prior to the data being captured and processed.


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## Method

POST

## URL

/postransactions

## Request

There are no request parameters.

The request body is application/json.

An array of transactions.

### Example Value


```
{
  "transactions": [
    {
      "storeId": 1234,
      "transactionId": "444-555",
      "transactionTimestamp": "2024-09-11T12:10:53.145Z",
      "custOrderId": "44444",
      "customerOrderComment": "Customer attrived late.",
      "externalUser": "Employee A",
      "items": [
        {
          "itemId": "10000345",
          "quantity": 4,
          "unitOfMeasure": "EA",
          "uin": "14000567000",
          "epc": "urn:epc:tag:sgtin-96:1.012345.67890.10478932",
          "reasonCode": 1,
          "dropShip": true,
          "fulfillmentOrderId": "7000",
          "fulfillOrderLineNumber": 2,
          "reservationType": 1,
          "transactionCode": 1,
          "comments": "Item packaging is slightly damaged."
        }
      ]
    }
  ]
}
```


### Schema — PosTransactionListIdo


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This section describes the POSTransactionListIdo schema.

**Table 4-169 PosTransactionListIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transaction | Yes | object | transaction |

**Table 4-170 PosTransactionIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 1234 | The unique identifier of the store that is the source of the transaction. |
| transactionId | Yes | string($text128) example: 444-555 | A unique identifier of this point-of-sale transaction. In order for the sales audit process to match and audit a POS transaction that was previously received, the transactionId attribute of the POS transaction must use the same data elements and format as the sales audit file. The sales audit file concatenates the THEAD file line id value, plus a dash separator, plus the THEAD transaction number value. For example, it will appear as 111-222. The transactionId attribute of the imported point-of-sale record must match that value and format. |
| transactionTimestamp | Yes | string($date-time) | The date and time of the sale transaction. |
| custOrderId | NA | string($text128) example: 44444 | An external customer order identifier. This attribute is required for customer order releated point-of-sale transactions. |
| customerOrderComment | NA | string($text512) example: Customer attrived late. | A comment associated with the customer order. |
| externalUser | NA | string($text128) example: Employee A | User information from the external point-of-sale system. |
| items | Yes | object | Items |

**Table 4-171 PosTransactionItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10000345 | The transaction-level SKU number of the item. |
| quantity | Yes | number($dec12.4) example: 4 | The quantity of the item transacted. |
| unitOfMeasure | Yes | string($text4) example: EA | The unit of measure of the quantity. |


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**Table 4-171 (Cont.) PosTransactionItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| uin | NA | string($text128) example: 14000567000 | A unique identifaction number. If not empty, the quantity will be modified to 1. |
| epc | NA | string($text256) example: urn:epc:tag:sgtin-96:1.012345.67890.10478932 | The complete SGTIN-96 Electronic Product Code of the item. |
| reasonCode | NA | integer($int4) example:1 | Reason code associated to the item transaction. This field is required if unavailable sub-buckets system configuration is active and you wish to move unavailable inventory. |
| dropShip | Yes | Boolean example:true | True if this item is drop ship, false if it is not. Drop ship sales will not impact stock positions. |
| fulfillmentOrderId | NA | string($text128) *example: 7000* If the transaction is associated to a customer order, this is the external fulfillment order identifier. | |
| fulfillOrderLineNumber | NA | number($int15) example:2 | If the transaction is for a customer order, this is the line number on the order that this item transactions aligns with. |
| reservationType | NA | integer($int4) example:1 | If the transaction is a custoemr order, this is the type of reservation. Valid values are:<br>1 - Web Order<br>2 - Special Order<br>3 - Pickup or Delivery<br>4 - Layaway<br>5 - On Hold<br>Enum:[ 1, 2, 3, 4, 5 ] |
| transactionCode | Yes | integer($int4) example: 1 | A code that indicates the transaction event that took place on item. Valid values are:<br>1 - Sale<br>2 - Return<br>3 - Void Sale<br>4 - Void Return<br>5 - Order New<br>6 - Order Fulfill<br>7 - Order Cancel<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |
| comments | NA | string($text512) example: Item packaging is slightly damaged. | Comments associated to this line item of the transaction. |


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## Responses

This section describes the responses of the Import POS Transaction API.

### Response Code: 200

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Product Area

A product area consists of an item basket (group of items) associated to a group of stores. Areas are used within customer order picking and to manage store order restrictions.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Product Areas

This section describes the Find Product Areas API. This API finds up to 1000 product areas for the input criteria.

### Method

```
GET
```

### URL

```
/productareas
```

### Request Parameters


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**Table 4-172 Find Product Areas — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| itemBasketId | NA | number($int12) (query) | Include only product areas that are associated to this item basket. |
| description | NA | string($text255) (query) | Include only product areas with this description. |
| status | NA | integer($int4) (query) | Include only product areas with this status. Valid values are:<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Available values : 1, 2, 3 |
| type | NA | integer($int2) (query) | Include only product areas with this type. Valid values are<br>1 - Customer Order Picking<br>Available values : 1 |
| updateDateFrom | NA | string($date-time) (query) | Include only product areas with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only product areas with an update date on or before this date. |

## Responses

This section describes the responses of the Find Product Areas API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "productAreaId": 11111,
    "itemBasketId": 211933,
    "description": "Cold Items",
    "status": 1,
    "type": 1,
    "createStoreId": 5000,
    "updateDate": "2024-11-04T14:16:17.231Z",
    "updateUser": "john.smith"
  }
]
```

### Schema — ProductAreaHeaderIdo


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**Table 4-173 ProductAreaHeaderIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| productAreaId | NA | number($int12) example: 11111 | The unique identifier of the product area. |
| itemBasketId | NA | number($int12) example: 211933 | The identifier of an item basket associated to the product area. |
| description | NA | string($text255) example: Cold Items | A description of the product area. |
| status | NA | integer($int4) example: 1 | The current status of the product area. Valid values are<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Enum: [ 1, 2, 3 ] |
| type | NA | integer($int4) example: 1 | The type of the product area. Valid values are:<br>1 - Customer Order Picking<br>Enum: [ 1 ] |
| createStoreId | NA | number($int10) example: 5000 | The identifier of the store that created the product area. |
| updateDate | NA | string($date-time) | The date the product area was last updated. |
| updateUser | NA | string($text128) example: john.smith | The user that last updated the product area. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Create Product Area

This section describes the Create Product Area API. This API creates an in-progress product area.

## Method

POST


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## URL

```
/productareas
```

## Request Parameters

There are no parameters.

The request body is application/json.

### Example Value

```
{
  "itemBasketId": 211933,
  "description": "Cold Items",
  "type": 1,
  "createStoreId": 5000,
  "stores": [
    5000,
    5001
  ]
}
```

### Schema — ProductAreaCreateIdo

**Table 4-174 ProductAreaCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemBasketId | NA | number($int12) example: 211933 | The identifier of an item basket associated to the product area. |
| description | NA | string($text255) example: Cold Items | A description of the product area. |
| type | Yes | integer($int4) example: 1 | The type of the product area. Valid values are<br>1 - Customer Order Picking<br>Enum:<br>Array [ 1 ] |
| createStoreId | Yes | number($int10) example: 5000 | The identifier of the store that created the product area. |
| stores | NA | example: List [ 5000, 5001 ] | The stores associated to this product area. |

## Responses

This section describes the responses of the Create Product Areas API.


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### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "productAreaId": 11111,
    "status": 1,
    "type": 1
  }
]
```

### Schema — ProductAreaStatusIdo

**Table 4-175 ProductAreaStatusIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| productAreaId | NA | number($int12) example: 11111 | The unique identifier of the product area. |
| status | NA | integer($int4) example: 1 | The current status of the product area. Valid values are<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Enum:<br>Array [ 3 ] |
| type | NA | integer($int4) example: 1 | The type of the product area. Valid values are<br>1 - Customer Order Picking<br>Enum: Array [ 1 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Product Area

This section describes the Read Product Area API. This API retrieves all the details about a product area.


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## Method

```
GET
```

## URL

```
/productareas/{areaId}
```

## Request Parameters

**Table 4-176 Read Product Area — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| areaId | Yes | number($int12) (path) | The unique identifier of the product area. |

## Responses

This section describes the responses of the Read Product Areas API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "productAreaId": 11111,
    "itemBasketId": 211933,
    "description": "Cold Items",
    "status": 1,
    "type": 1,
    "createStoreId": 5000,
    "createDate": "2024-11-05T11:49:20.419Z",
    "createUser": "smith123",
    "updateDate": "2024-11-05T11:49:20.419Z",
    "updateUser": "smith123",
    "stores": [
      5000,
      5001
    ]
  }
]
```



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## Schema — ProductAreaIdo

**Table 4-177 ProductAreaIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| productAreaId | NA | number($int12) example: 11111 | The unique identifier of the product area. |
| itemBasketId | NA | number($int12) example: 211933 | The identifier of an item basket associated to the product area. |
| description | NA | string($text255) example: Cold Items | A description of the product area. |
| status | NA | integer($int4) example: 1 | The current status of the product area. Valid values are<br>1 - In Progress<br>2 - Completed<br>3 - Canceled<br>Enum: [ 1, 2, 3 ] |
| type | NA | integer($int4) example: 1 | The type of the product area. Valid values are<br>1 - Customer Order Picking<br>Enum: Array [ 1 ] |
| createStoreId | NA | number($int10) example: 5000 | The identifier of the store that created the product area. |
| createDate | NA | string($date-time) | The date the product area was created. |
| createUser | NA | string($text128) example: smith123 | The user that created the product area. |
| updateDate | NA | string($date-time) | The date the product area was last updated. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the product area. |
| stores | NA | number($int10)] example: List [ 5000, 5001 ] | The stores associated to this product area. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Product Area


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This section describes the Update Product Area API. This API updates a product area.

## Method

```
POST
```

## URL

```
/productareas/{areaId}
```

## Request Parameters

**Table 4-178 Update Product Area — Request Parameters**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| areaId | Yes | number($int12) (path) | The unique identifier of the product area. |

The request body is application/json.

Item basket details to update.

## Example Value

```
{
  "description": "Cold Items",
  "stores": [
    5000,
    5001
  ]
}
```

## Schema — ProductAreaUpdateIdo

**Table 4-179 ProductAreaUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| description | NA | string($text255) example: Cold Items | A description of the product area. |
| stores | NA | example: List [ 5000, 5001 ] | The stores associated to this product area. |

## Responses


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This section describes the responses of the Update Product Area API.

### Response Code: 204

No content.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Cancel Product Area

This section describes the Cancel Product Area API. This API cancels a product area.

### Method

`POST`

### URL

`/productareas/{areaId}/cancel`

### Request Parameters

**Table 4-180 Cancel Product Area — Request Parameters**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| areaId | Yes | number($int12) (path) | The unique identifier of the product area. |

### Responses

This section describes the responses of the Cancel Product Area API.

### Response Code: 204

No content.

### Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

## Confirm Product Area

This section describes the Confirm Product Area API. This API confirms the product area making it available for usage.

### Method

`POST`

### URL

`/productareas/{areaId}/confirm`

### Request Parameters

**Table 4-181 Confirm Product Area — Request Parameters**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| areaId | Yes | number($int12) (path) | The unique identifier of the product area. |

### Responses

This section describes the responses of the Confirm Product Area API.

### Response Code: 204

No content.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Product Group

This service allows for the integration of product group with external systems.


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# Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/productgroups

# APIs

| API | Description |
|---|---|
| findProductGroups | Searches for product group summary headers based on input criteria. |
| readProductGroup | Reads the details about a specific product group. |
| createProductGroup | Creates a new product group including its components. |
| updateProductGroup | Modifies an existing product group including its components. |
| cancelProductGroup | Cancels an existing product group. |

# API: findProductGroup

This API is used to search for a product group summary using input criteria.

**Table 4-182 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query parameters |
| Output | Collection of product groups |
| Max Response Limit | 5,000 |

**Table 4-183 Query Parameters**

| Query | Type | Definition |
|---|---|---|
| storeId | Long(10) | Returns only product groups that match this store (which includes all store product groups). |
| type | Integer(3) | Returns only product groups that match this product group type. See Index for types. |
| description | String(100) | Returns only products groups that contain this text in its description. |
| itemId | String(25) | Returns only product groups that contain this individual sku number in its single items list. |
| departmentId | Long(12) | Returns only product groups that contain this hierarchy department identifier. |
| classId | Long(12) | Returns only product groups that contain this hierarchy class identifier. |


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**Table 4-183 (Cont.) Query Parameters**

| | | |
|---|---|---|
| subclassId | Long(12) | Returns only product groups that contain this hierarchy subclass identifier. |
| updateDateFrom | String | Returns only product groups updated on or after this date. |
| updateDateTo | String | Returns only product groups updated on or before this date. |

**Table 4-184 Output Data Definitions**

| Payload | Type | Definition |
|---|---|---|
| productGroupId | Long(12) | The unique product group identifier. |
| description | String(100) | A description of the product group. |
| storeId | Long(10) | The store identifier or blank if the product group is for all stores. |
| type | Integer(3) | Indicates the type of product group. See Index. |
| status | Integer(1) | Indicates the status of the product group. See Index. |
| updateDate | Date | The date the product group was last updated. |

# API: readProductGroup

This API is used to read a product group.

**Table 4-185 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{productGroupId} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Path Parameter | The identifier of the product group. |
| Output | Collection of product groups |
| Max Response Limit | 5,000 |

**Table 4-186 Output Data Definition**

| Payload | Type | Definition |
|---|---|---|
| productGroupId | Long(12) | The unique identifier of the product group. |
| description | String(100) | A description of the product group. |
| storeId | Long(10) | The unique identifier of a store associated to the product group. This will be blank/null if the product group is for all stores. |
| type | Integer(3) | Indicates the type of product group. See Index. |
| status | Integer(1) | Indicates the status of the product group. See Index. |
| unitOfMeasureMode | Integer(4) | Unit of measure type for pick list product groups. See Index. |


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**Table 4-186 (Cont.) Output Data Definition**

| | | |
|---|---|---|
| allItemGroup | Boolean | True indicates the product group is for all items. If set to true, then hierarchies and items will not be present. |
| updateDate | Date | The date the product group was last updated. |
| stockCountDetail | Object | Details about a stock count product group (used for all three stock count types). This will only be populated if the product group type is for a stock count. |
| replenishmentDetail | Object | Details about a replenishment product group. This will only be populated if the product group type is for replenishment. |
| storeOrderDetail | Object | Details about a store order product group. This will only be populated if the product group type is for store orders. |
| autoAdjustmentDetail | Object | Details about an auto inventory adjustment product group. This will only be populated if the product group type is for auto adjustments. |
| autoTicketPrintDetail | Object | Details about an auto ticket print product group. This will only be populated if the product group type is for auto ticket print. |
| hierarchies | List<Object> | A list of merchandise item hierarchies that belong to the group. |
| itemIds | List<String(25)> | A list of item SKU numbers associated to the product group. |

**Table 4-187 Stock Count Detail**

| Payload | Type | Definition |
|---|---|---|
| countingMethod | Integer | The method of counting a stock count: See Index (StockCountingMethod) |
| breakdownType | Integer | The method of breaking a stock count down into child counts: See Index (StockCountBreakdownType) |
| varianceCount | Integer(8) | The number of units in standard unit of measure considered discrepant on a stock count. |
| variancePercent | BigDecimal(12,4) | The percentage of units in standard unit of measure considered discrepant on a stock count. |
| varianceValue | BigDecimal(12,4) | The value of units considered discrepant on a stock count. This will only be populated for unit and amount stock count product group type. |
| performRecount | Boolean | True indicates the stock count should be recounted if discrepancies are found. |
| autoAuthorize | Boolean | True indicates the stock count should be automatically authorized after count. |
| activeItems | Boolean | True indicates active items should be included on the stock count. |
| inactiveItems | Boolean | True indicates inactive items should be included on the stock count. |
| discontinuedItems | Boolean | True indicates discontinued items should be included on the stock count. |


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**Table 4-187 (Cont.) Stock Count Detail**

| | | |
|---|---|---|
| deletedItems | Boolean | True indicates deleted items should be included on the stock count. |
| zeroStockOnHand | Boolean | True indicates items with 0 stock on hand should be included on the stock count. |
| positiveStockOnHand | Boolean | True indicates items with positive stock on hand should be included on the stock count. |
| negativeStockOnHand | Boolean | True indicates items with negative stock on hand should be included on the stock count. |
| problemLineNegativeAvailable | Boolean | True indicates to include items with negative available quantities. This will only be populated if the product group type is for a problem line stock count. |
| problemLinePickLessSuggested | Boolean | True indicates to include pick lists less than suggested amount. This will only be populated if the product group type is for a problem line stock count. |
| problemLineReplenishLessSuggested | Boolean | True indicates to include shelf replenishments that are less than the suggested amount. This will only be populated if the product group type is for a problem line stock count. |
| problemLineUinDiscrepancy | Boolean | True indicates UIN discrepancies should be included in the stock count. This will only be populated if the product group type is for a problem line stock count. |

**Table 4-188 Replenishment Detail**

| Payload | Type | Definition |
|---|---|---|
| autoReplenishment | Boolean | True indicates that the product group is eligible for automatic replenishment through a scheduled batch run. |
| differentiatorMode | Integer(3) | The display type of the diffentiator. See Index. |

**Table 4-189 Store Order Detail**

| Payload | Type | Definition |
|---|---|---|
| daysBeforeDelivery | Integer(3) | The date calculated from the creation date that the user wants the store order delivery by. |
| storeOrderAddItems | Boolean | True indicates items can be added to the store order after it has been generated by the system. |
| storeOrderItemsOnly | Boolean | Y indicates the store order can only include items that are marked as store order replenishment. |
| restrictSupplierId | Long(12) | Limits the creation of a store order from this product group to only this supplier. |
| restrictWarehouseId | Long(12) | Limits the creation of a store order from this product group to only this warehouse. |
| restrictHierarchyId | Long(12) | Limits the creation of a store order from this product group to only this merchandise hierarchy. |
| restrictAreaId | Long(12) | Limits the creation of a store order from this product group to only this store sequence area. |


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**Table 4-190 Auto Adjustment Detail**

| Payload | Type | Definition |
|---|---|---|
| adjustmentQuantity | BigDecimal(20,4) | The quantity that should be automatically adjusted by this product group. |
| adjustmentPercent | BigDecimal(20,4) | The percentage of quantity that should be automatically adjusted by this product group. |
| adjustmentReasonCode | Long(12) | The unique identifier of a reason code associated to this product group. |
| updateToZero | Boolean | Update stock to zero when generating adjustment with this product group. |

**Table 4-191 Auto Ticket Print Detail**

| Payload | Type | Definition |
|---|---|---|
| refreshTicketQuantity | Boolean | True if the ticket quantity should be refreshed prior to printing. |

**Table 4-192 Item Hierarchy Detail**

| Payload | Type | Definition |
|---|---|---|
| departmentId | Long(12) | The department identifier |
| classId | Long(12) | The class identifier |
| subclassId | Long(12) | The subclass identifier |

# API: createProductGroup

This API is used to create a new product group that will be **in progress** status.

**Table 4-193 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Product Group |
| Output | Product Group Status |
| Max Response Limit | 5,000 |

**Table 4-194 Input Data Definition**

| Payload | Type | Req | Definition |
|---|---|---|---|
| description | String(100) | X | A description of the product group. |
| type | Integer(3) | X | Indicates the type of product group. See Index. |


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**Table 4-194 (Cont.) Input Data Definition**

| | | |
|---|---|---|
| storeId | Long(10) | The unique identifier of a store associated to the product group. This will be blank/null if the product group is for all stores. |
| allItems | Boolean | True if the product group is for all items, false otherwise. If all items, any hierarchies and items included will be ignored. |
| unitOfMeasureMode | Integer | Unit of measure type for pick lists. See Index.. |
| autoAdjustmentDetail | Object | Details about an auto inventory adjustment product group. This is only processed and is required if the type is auto inventory adjustment type. |
| autoTicketPrintDetail | Object | Details about an auto ticket print product group. This is only processed and is required if the type is auto ticket print. |
| replenishmentDetail | Object | Details about a replenishment product group. This is only processed and is required if the type is a shelf replenishment type.. |
| storeOrderDetail | Object | Details about a store order product group. This is only processed and is required if the type is the store order type. |
| unitCountDetail | Object | Details about a unit stock count product group. This is only processed and is required if the type is a stock count type. |
| unitAmountCountDetail | Object | Details about a unit and amount stock count product group. This is only processed and is required if the type is a stock count type. |
| problemLineCountDetail | Object | Details about a problem line stock count product group. This is only processed and is required if the type is a stock count type. |
| hierarchies | List<Object> | A list of up to 5,000 unique merchandise item hierarchies that belong to the group (avoid duplicate or overlapping hierarchies). |
| itemIds | List<String(25)> | A list of up to 5,000 unique item SKU numbers on the product group. |

**Table 4-195 Unit Count Detail**

| Payload | Type | Req | Definition |
|---|---|---|---|
| countingMethod | Integer | X | The method of counting a stock count: See Index (StockCountingMethod) |
| breakdownType | Integer | X | The method of breaking a stock count down into child counts: See Index (StockCountBreakdownType). Must be "Location" for guided counts. |
| varianceCount | Integer(8) | | The number of units in standard unit of measure considered discrepant on a stock count. Variance count and percent cannot both be empty. |


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**Table 4-195 (Cont.) Unit Count Detail**

| | | |
|---|---|---|
| variancePercent | BigDecimal(12,4) | The percentage of units in standard unit of measure considered discrepant on a stock count. Variance count and percent cannot both be empty. |
| performRecount | Boolean | True indicates the stock count should be recounted if discrepancies are found. This cannot be set to true if the counting method is "Third Party. |
| autoAuthorize | Boolean | True indicates the stock count should be automatically authorized after count. |
| activeItems | Boolean | True indicates active items should be included on the stock count. At least one item status choice is required as true. |
| inactiveItems | Boolean | True indicates inactive items should be included on the stock count. At least one item status choice is required as true. |
| discontinuedItems | Boolean | True indicates discontinued items should be included on the stock count. At least one item status choice is required as true. |
| deletedItems | Boolean | True indicates deleted items should be included on the stock count. At least one item status choice is required as true. |
| zeroStockOnHand | Boolean | True indicates items with 0 stock on hand should be included on the stock count. At least one stock choice is required as true. |
| positiveStockOnHand | Boolean | True indicates items with positive stock on hand should be included on the stock count. At least one stock choice is required as true. |
| negativeStockOnHand | Boolean | True indicates items with negative stock on hand should be included on the stock count. At least one stock choice is required as true. |

**Table 4-196 Unit and Amount Count Detail**

| Payload | Type | Req | Definition |
|---|---|---|---|
| countingMethod | Integer | X | The method of counting a stock count: See Index (StockCountingMethod) |
| breakdownType | Integer | X | The method of breaking a stock count down into child counts: See Index (StockCountBreakdownType). Must be "Location" for guided counts. |
| varianceCount | BigDecimal(12,4) | | The number of units in standard unit of measure considered discrepant on a stock count. Count, percent, and value cannot all be empty. |
| variancePercent | BigDecimal(12,4) | | The percentage of units in standard unit of measure considered discrepant on a stock count. Count, percent, and value cannot all be empty. |


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**Table 4-196 (Cont.) Unit and Amount Count Detail**

| | | |
|---|---|---|
| varianceValue | BigDecimal(12,4) | The value of units considered discrepant on a stock count. Count, percent, and value cannot all be empty. |
| performRecount | Boolean | True indicates the stock count should be recounted if discrepancies are found. This cannot be set to true if the counting method is "Third Party". |
| autoAuthorize | Boolean | True indicates the stock count should be automatically authorized after count. |
| zeroStockOnHand | Boolean | True indicates items with 0 stock on hand should be included on the stock count. |

**Table 4-197 Problem Line Count Detail**

| Payload | Type | Req | Definition |
|---|---|---|---|
| countingMethod | Integer | X | The method of counting a stock count: See Index (StockCountingMethod). |
| breakdownType | Integer | X | The method of breaking a stock count down into child counts: See Index (StockCountBreakdownType). Must be "Location" for guided counts. |
| autoReplenishment | Boolean | | True indicates that the product group is eligible for automatic replenishment through a scheduled batch run. |
| differentiatorMode | Integer(3) | | The display type of the differentiator. See Index. |
| varianceCount | BigDecimal(12,4) | | The number of units in standard unit of measure considered discrepant on a stock count. Variance count and percent cannot both be empty. |
| variancePercent | BigDecimal(12,4) | | The percentage of units in standard unit of measure considered discrepant on a stock count. Variance count and percent cannot both be empty |
| performRecount | Boolean | | True indicates the stock count should be recounted if discrepancies are found. This cannot be set to true if the counting method is "Third Party." |
| autoAuthorize | Boolean | | True indicates the stock count should be automatically authorized after count. |
| negativeStockOnHand | Boolean | | True indicates items with negative stock on hand should be included on the stock count. |
| negativeAvailable | Boolean | | True indicates to include items with negative available quantities. |
| pickLessSuggested | Boolean | | True indicates to include pick lists less than suggested amount. |
| replenishLessSuggested | Boolean | | True indicates to include shelf replenishments that are less than the suggested amount. |


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**Table 4-197 (Cont.) Problem Line Count Detail**

| | | |
|---|---|---|
| uinDiscrepancy | Boolean | True indicates UIN discrepancies should be included in the stock count. This will only be populated if the product group type is for a problem line stock count. |

**Table 4-198 Store Order Detail**

| Payload | Type | Req | Definition |
|---|---|---|---|
| daysBeforeDelivery | Integer(3) | | The date calculated from the creation date that the user wants the store order delivery by. |
| storeOrderAddItems | Boolean | | True indicates items can be added to the store order after it has been generated by the system. |
| storeOrderItemsOnly | Boolean | | Y indicates can only include items that are marked as store order replenishment. |
| restrictSupplierId | Long(12) | | Limits the creation of a store order from this product group to only this supplier. |
| restrictWarehouseId | Long(12) | | Limits the creation of a store order from this product group to only this warehouse. |
| restrictHierarchyId | Long(12) | | Limits the creation of a store order from this product group to only this merchandise hierarchy. |
| restrictAreaId | Long(12) | | Limits the creation of a store order from this product group to only this store sequence area. |

**Table 4-199 Auto Adjustment Detail**

| Payload | Type | Req | Definition |
|---|---|---|---|
| adjustmentQuantity | BigDecimal(20, 4) | | The quantity that should be automatically adjusted by this product group. Either quantity or percent is required. |
| adjustmentPercent | BigDecimal(20, 4) | | The percentage of quantity that should be automatically adjusted by this product group. Either quantity or percent is required. |
| adjustmentReasonCode | Long(12) | X | The unique identifier of a reason code associated to this product group. |
| updateToZero | Boolean | | Update stock to zero when generating adjustment with this product group. |

**Table 4-200 Auto Ticket Print Detail**

| Payload | Type | Req | Definition |
|---|---|---|---|
| refreshTicketQuantity | Boolean | | True if the ticket quantity should be refreshed prior to printing. |


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**Table 4-201 Item Hierarchy Detail**

| Payload | Type | Req | Definition |
|---|---|---|---|
| departmentId | Long(12) | X | The department identifier |
| classId | Long(12) | | The class identifier |
| subclassId | Long(12) | | The subclass identifier |

**Table 4-202 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| productGroupId | Long(12) | The product group identifier. |
| status | Integer(1) | Indicates the status of the product group: (0) Active, (1) Canceled |

**Figure 4-1 Example input unitCountDetail**


```
{
   "description": "product group type
1",
   "type": 1,
   "storeId": 5000,
   "allItems":false,
   "unitOfMeasureMode":1,
   "unitCountDetail":{
      "countingMethod":4,
      "breakdownType":1,
      "varianceCount":1,
      "variancePercent":1,
      "performRecount":true,
      "autoAuthorize":true,
      "activeItems":true,
      "inactiveItems":true,
      "discontinuedItems":true,
      "deletedItems":true,
      "zeroStockOnHand":true,
      "positiveStockOnHand":true,
      "negativeStockOnHand":true
   },
   "hierarchies": [
      {
         "departmentId":2345,
         "classId":2,
         "subclassId":1
      },{
         "departmentId":4567,
         "classId":1000,
         "subclassId":5000
      }
   ],
   "itemIds": [
"100000001"
   ]
}
```



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**Figure 4-2 Example input unitAmountCountDetail:**

```
{
   "description": "Product group type 2",
   "type": 2,
   "storeId": 5000,
   "allItems":false,
   "unitOfMeasureMode":1,
   "unitAmountCountDetail":{
      "countingMethod":4,
      "breakdownType":1,
      "varianceCount":1,
      "variancePercent":1,
      "variannceValue":1,
      "performRecount":false,
      "autoAuthorize":false,
      "zeroStockOnHand":false
   },
   "hierarchies": [
      {
         "departmentId":2345,
         "classId":2,
         "subclassId":1
      },{
         "departmentId":4567,
         "classId":1000,
         "subclassId":5000
      }
   ]
}
```


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**Figure 4-3 Example input problemLineCountDetail:**


```
{
   "description": "Product group type 3",
   "type": 3,
   "storeId": 5000,
   "allItems":false,
   "unitOfMeasureMode":1,
   "problemLineCountDetail":{
      "countingMethod":4,
      "breakdownType":1,
      "varianceCount":1,
      "variancePercent":1,
      "performRecount":true,
      "autoAuthorize":true,
      "negativeStockOnHand":true,
      "negativeAvailable":true,
      "pickLessSuggested":true,
      "replenishLessSuggested":true,
      "uinDiscrepancy":true
   },
   "hierarchies": [
      {
         "departmentId":2345,
         "classId":2,
         "subclassId":1
      },{
         "departmentId":4567,
         "classId":1000,
         "subclassId":5000
      }
   ],
   "itemIds": [
"100000001"
   ]
}
```



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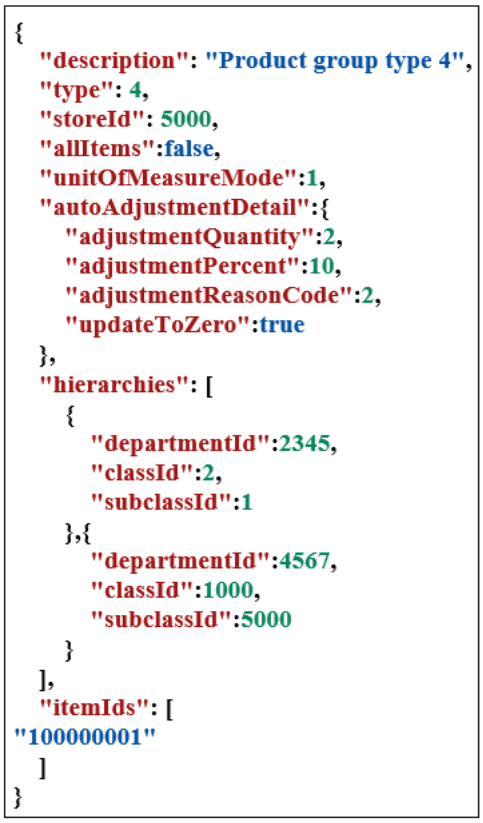
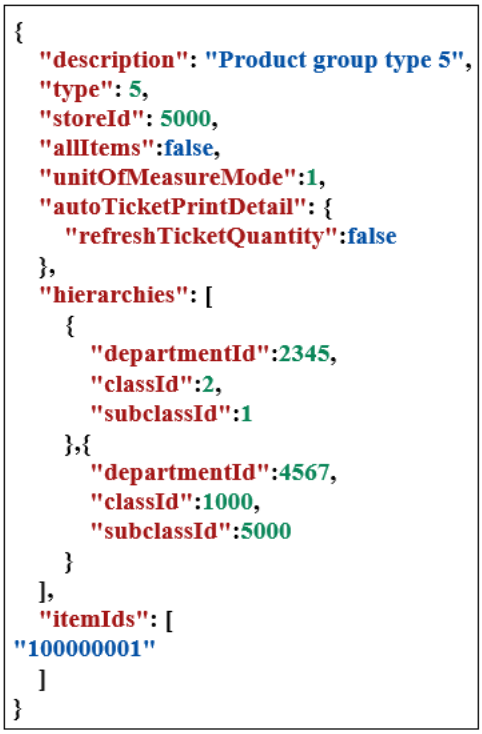
**Figure 4-4 Example input autoAdjustmentDetail:**



```
{
  "description": "Product group type 4",
  "type": 4,
  "storeId": 5000,
  "allItems":false,
  "unitOfMeasureMode":1,
  "autoAdjustmentDetail":{
    "adjustmentQuantity":2,
    "adjustmentPercent":10,
    "adjustmentReasonCode":2,
    "updateToZero":true
  },
  "hierarchies": [
    {
      "departmentId":2345,
      "classId":2,
      "subclassId":1
    },{
      "departmentId":4567,
      "classId":1000,
      "subclassId":5000
    }
  ],
  "itemIds": [
"100000001"
  ]
}
```

**Figure 4-5 Example input autoTicketPrintDetail:**



```
{
  "description": "Product group type 5",
  "type": 5,
  "storeId": 5000,
  "allItems":false,
  "unitOfMeasureMode":1,
  "autoTicketPrintDetail": {
    "refreshTicketQuantity":false
  },
  "hierarchies": [
    {
      "departmentId":2345,
      "classId":2,
      "subclassId":1
    },{
      "departmentId":4567,
      "classId":1000,
      "subclassId":5000
    }
  ],
  "itemIds": [
"100000001"
  ]
}
```


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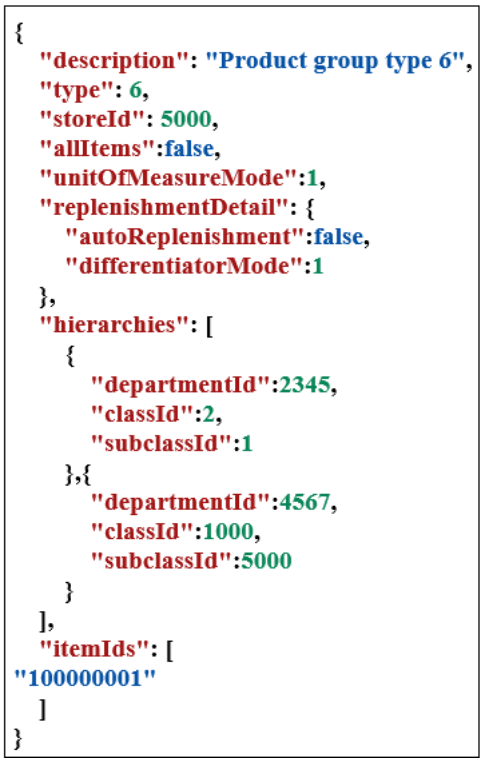
**Figure 4-6 Example input replenishmentDetail:**



```
{
   "description": "Product group type 6",
   "type": 6,
   "storeId": 5000,
   "allItems":false,
   "unitOfMeasureMode":1,
   "replenishmentDetail": {
      "autoReplenishment":false,
      "differentiatorMode":1
   },
   "hierarchies": [
      {
         "departmentId":2345,
         "classId":2,
         "subclassId":1
      },{
         "departmentId":4567,
         "classId":1000,
         "subclassId":5000
      }
   ],
   "itemIds": [
"100000001"
   ]
}
```


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**Figure 4-7 Example input storeOrderDetail:**

```
{
  "description": "Product group type 7",
  "type": 7,
  "storeId": 5000,
  "allItems":false,
  "unitOfMeasureMode":1,
  "storeOrderDetail":{
    "daysBeforeDelivery":4,
    "storeOrderAddItems":true,
    "storeOrderItemsOnly":true,
    "restrictSupplierId":9001,
    "restrictWarehouseId":7001,
    "restrictHierarchyId":173,
    "restrictAreaId":1
  },
  "hierarchies": [
    {
      "departmentId":2345,
      "classId":2,
      "subclassId":1
    },{
      "departmentId":4567,
      "classId":1000,
      "subclassId":5000
    }
  ],
  "itemIds": [
"100000001"
  ]
}
```

# API: updateProductGroup

This API is used to modify a product group.

See API createProductGroup for the data definition of the product group type data objects.

## API Basics

**Table 4-203 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{productGroupId} |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Path Parameter | The identifier of the product group |
| Input | Product Group |
| Output | Product Group Status |


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## Input Data Definition

| Payload | Type | Req | Definition |
|---|---|---|---|
| storeId | Long(10) | | The unique identifier of a store associated to the product group. This will be blank/null if the product group is for all stores. If this is altered for a unit and amount group already assigned to schedules, it may return a validate error that it can no longer be altered. |
| description | String(100) | X | A description of the product group. |
| allItems | Boolean | | True if the product group is for all items, false otherwise. If all items, any hierarchies and items included will be ignored. Unit of measure type for pick lists. See Index. |
| unitOfMeasureMode | Integer | | Unit of measure type for pick lists. See Index. |
| autoAdjustmentDetail | ProductGroupAdjustmentIdo | | Details about an auto inventory adjustment product group. This is only processed and is required if the type is auto inventory adjustment type. |
| autoTicketPrintDetail | ProductGroupTicketPrintIdo | | Details about an auto ticket print product group. This is only processed and is required if the type is auto ticket print. |
| replenishmentDetail | ProductGroupReplenishmentIdo | | Details about a replenishment product group. This is only processed and is required if the type is a shelf replenishment type. |
| storeOrderDetail | ProductGroupStoreOrderIdo | | Details about a store order product group. This is only processed and is required if the type is the store order type. |
| unitCountDetail | ProductGroupUnitCountIdo | | Details about a unit stock count product group. This is only processed and is required if the type is a stock count type. |
| unitAmountCountDetail | ProductGroupUnitAmountCountIdo | | Details about a unit and amount stock count product group. This is only processed and is required if the type is a stock count type. |
| problemLineCountDetail | ProductGroupProblemLineCountIdo | | Details about a problem line stock count product group. This is only processed and is required if the type is a stock count type. |
| hierarchies | ProductGroupHierarchyIdo | | A list of up to 5,000 unique merchandise item hierarchies that belong to the group (avoid duplicates or overlapping hierarchies). |
| itemIds | List<String(25)> | | A list of up to 5,000 unique item SKU numbers on the product group. |


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**Figure 4-8 Example Input unitCountDetail:**

```
{
  "description": "unitCountDetail",
  "allItems":false,
  "unitOfMeasureMode":1,
  "unitCountDetail":{
    "countingMethod":2,
    "breakdownType":3,
    "varianceCount":100,
    "variancePercent":0,
    "performRecount":122,
    "autoAuthorize":123,
    "activeItems":123,
    "inactiveItems":123,
    "discontinuedItems":123,
    "deletedItems":123,
    "zeroStockOnHand":123,
    "positiveStockOnHand":123,
    "negativeStockOnHand":123
  },
  "hierarchies": [
    {
      "departmentId":1119,
      "classId":1,
      "subclassId":2
    }
  ],
  "itemIds": [
"100000147"
  ]
}
```

**Figure 4-9 Example Input unitAmountCountDetail:**

```
{
  "description": "unitAmountCountDetail",
  "allItems":false,
  "unitOfMeasureMode":1,
  "unitAmountCountDetail":{
    "countingMethod":4,
    "breakdownType":1,
    "varianceCount":1,
    "variancePercent":12,
    "varianceValue":12,
    "performRecount":false,
    "autoAuthorize":false,
    "zeroStockOnHand":false
  },
  "hierarchies": [
    {
      "departmentId":1119,
      "classId":1,
      "subclassId":2
    }
  ]
}
```


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**Figure 4-10 Example Input problemLineCountDetail:**

```
{
   "description": "problemLineCountDetail",
   "allItems":false,
   "unitOfMeasureMode":2,
   "problemLineCountDetail":{
      "countingMethod":2,
      "breakdownType":2,
      "varianceCount":1,
      "variancePercent":1,
      "performRecount":true,
      "autoAuthorize":true,
      "negativeStockOnHand":true,
      "negativeAvailable":true,
      "pickLessSuggested":true,
      "replenishLessSuggested":true,
      "uinDiscrepancy":123
   },
   "hierarchies": [
      {
         "departmentId":1119,
         "classId":1,
         "subclassId":2
      }
   ],
   "itemIds": [
"100000147"
   ]
}
```

**Figure 4-11 Example Input autoAdjustmentDetail:**

```
{
   "description": "autoAdjustmentDetail",
   "allItems":false,
   "unitOfMeasureMode":2,
   "autoAdjustmentDetail":{
      "adjustmentQuantity":2,
      "adjustmentPercent":2,
      "adjustmentReasonCode":3,
      "updateToZero":false
   },
   "hierarchies": [{
         "departmentId":1119,
         "classId":1,
         "subclassId":2
      }
   ],
   "itemIds": [
"100000147"
   ]
}
```


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**Figure 4-12 Example Input autoTicketPrintDetail:**


```
{
   "description": "autoTicketPrintDetail",
   "allItems":false,
   "unitOfMeasureMode":2,
   "autoTicketPrintDetail": {
      "refreshTicketQuantity":true
   },
   "hierarchies": [
      {
        "departmentId":1119,
         "classId":1,
         "subclassId":2
      }
   ],
   "itemIds": [
"100000147"
   ]
}
```


**Figure 4-13 Example Input replenishmentDetail:**


```
{
   "description": "replenishDetail",
   "allItems":false,
   "unitOfMeasureMode":1,
   "replenishmentDetail": {
      "autoReplenishment":false,
      "differentiatorMode":false
   },
   "hierarchies": [
      {
         "departmentId":1119,
         "classId":1,
         "subclassId":2
      }
   ],
   "itemIds": [
"100000147"
   ]
}
```



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**Figure 4-14 Example Input storeOrderDetail:**

```
{
  "description": "storeOrderDetail",
  "allItems":false,
  "unitOfMeasureMode":2,
  "storeOrderDetail":{
    "daysBeforeDelivery":5,
    "storeOrderAddItems":false,
    "storeOrderItemsOnly":false,
    "restrictSupplierId":9002,
    "restrictWarehouseId":7002,
    "restrictHierarchyId":false,
    "restrictAreaId":false
  },
  "hierarchies": [
    {
      "departmentId":"1119",
      "classId":"1",
      "subclassId":"2"
    }
  ],
  "itemIds": [
"100000147"
  ]
}
```

# API: cancelProductGroup

Cancels the product group.

**Table 4-204 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{productGroupId}/cancel |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Path Parameter | The identifier of the product group |

# Index

**Table 4-205 Product Group Type**

| ID | Description |
|---|---|
| 1 | Stock Count: Unit |
| 2 | Stock Count: Unit and Amount |
| 3 | Stock Count: Problem Line |
| 4 | Auto Inventory Adjustment |
| 5 | Auto Ticket Print |


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**Table 4-205 (Cont.) Product Group Type**

| | |
|---|---|
| 6 | Shelf Replenishment |
| 7 | Store Order |

**Table 4-206 Product Group Status**

| ID | Description |
|---|---|
| 1 | Active |
| 2 | Canceled |

**Table 4-207 Unit of Measure Mode**

| ID | Description |
|---|---|
| 1 | Standard |
| 2 | Cases |
| 3 | Preferred |

**Table 4-208 Shelf Replenishment Differentiator Mode**

| ID | Description |
|---|---|
| 1 | Differentiator 1 |
| 2 | Differentiator 2 |
| 3 | Differentiator 3 |
| 4 | Differentiator 4 |

**Table 4-209 Stock Counting Method**

| ID | Description |
|---|---|
| 1 | Guided |
| 2 | Unguided |
| 3 | Third Party |
| 4 | Auto |

**Table 4-210 Stock Count Breakdown Type**

| ID | Description |
|---|---|
| 1 | Department |
| 2 | Class |
| 3 | Subclass |
| 4 | Location |
| 5 | None |


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# REST Service: Product Group Schedule

A product group schedule allows the customer to schedule different kinds of product groups for work. A product group can be scheduled for a date range where the start date must be greater than today. For unit and amount counts, the start date must be greater than today plus the configured stock count lockout days. Schedules are setup daily, weekly, monthly, or yearly. Schedules may be assigned to execute for all stores or created for selected specific stores. Once a product group schedule is created, it becomes available for the system batches to pick up and execute. This service defines operations to manage product group schedule information by integration with an external system.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Schedules

This section describes the Find Schedules API. This API finds up to a maximum of 5,000 schedule summary headers based on input search criteria.

### Method

```
GET
```

### URL

```
/productgroupschedules
```

### Request Parameters

**Table 4-211 Find Schedules — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| productGroupId | NA | integer($int10) (query) | Include only schedules associated to this product group. |
| description | NA | string($text250) (query) | Include only schedules that contain this text in its description. |


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**Table 4-211 (Cont.) Find Schedules — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| type | NA | integer($int3) (query) | Include only schedules that match this schedule type. Valid values are:<br>1 - Daily<br>2 - Daily By Weekday<br>3 - Weekly<br>4 - Monthy by Day<br>5 - Monthly By Week<br>6 - Yearly By Day<br>7 - Yearly By Week<br>Available values : 1, 2, 3, 4, 5, 6, 7 |
| status | NA | integer($int3) (query) | Include only schedules that match this status. Valid values are:<br>1 - Open<br>2 - Closed<br>Available values : 1, 2 |
| updateDateFrom | NA | string($date-time) (query) | Include only schedules with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only schedules with an update date on or before this date. |

## Responses

This section describes the responses of the Find Schedules API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "scheduleId": 11111,
    "productGroupId": 223343,
    "description": "Test Schedule",
    "type": 1,
    "status": 1,
    "startDate": "2024-11-07T11:17:51.016Z",
    "endDate": "2024-11-07T11:17:51.016Z",
    "updateDate": "2024-11-07T11:17:51.016Z"
  }
]
```


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### Schema — ProductGroupScheduleHeaderIdo

**Table 4-212 ProductGroupScheduleHeaderIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| scheduleId | NA | integer($int8) example: 11111 | The unique identifier of the schedule. |
| productGroupId | NA | number($int12) example: 223343 | The unique identifier of the product group the schedule is for. |
| description | NA | string($text250) example: Test Schedule | A description of the schedule. |
| type | NA | integer($int4) example: 1 | The type of schedule. Valid values are:<br>1 - Daily<br>2 - Daily By Weekday<br>3 - Weekly<br>4 - Monthly by Day<br>5 - Monthly By Week<br>6 - Yearly By Day<br>7 - Yearly By Week<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |
| status | NA | integer($int4) example: 1 | The current status of the schedule. Valid values are:<br>1 - Open<br>2 - Closed<br>Enum: [ 1, 2 ] |
| startDate | NA | string($date-time) | The date the schedule becomes active. |
| endDate | NA | string($date-time) | The date the schedule terminates. |
| updateDate | NA | string($date-time) | The date the schedule was last updated. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Create Schedule

This section describes the Create Schedule API. This API creates a new open schedule.


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## Method

POST

## URL

/productgroupschedules

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the schedule to create.

## Example Value


```
{
  "productGroupId": 223343,
  "description": "Test Schedule",
  "type": 1,
  "startDate": "2024-11-07T11:44:35.142Z",
  "endDate": "2024-11-07T11:44:35.142Z",
  "dailySchedule": {
    "dailyFrequency": 3
  },
  "dailyByWeekSchedule": {
    "weeklyFrequency": 3,
    "sunday": false,
    "monday": false,
    "tuesday": false,
    "wednesday": false,
    "thursday": false,
    "friday": false,
    "saturday": false
  },
  "weeklySchedule": {
    "weeklyFrequency": 3,
    "sunday": false,
    "monday": false,
    "tuesday": false,
    "wednesday": false,
    "thursday": false,
    "friday": false,
    "saturday": false
  },
  "monthlyByDaySchedule": {
    "monthlyFrequency": 6,
    "dayOfMonth": 10
```



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```
  },
  "monthlyByWeekSchedule": {
    "monthlyFrequency": 6,
    "weekOfTheMonth": 1,
    "dayOfTheWeek": 7
  },
  "yearlyByDaySchedule": {
    "monthOfTheYear": 1,
    "dayOfTheMonth": 20
  },
  "yearlyByWeekSchedule": {
    "monthOfTheYear": 1,
    "weekOfTheMonth": 1,
    "dayOfTheWeek": 7
  },
  "stores": [
    333,
    444
  ]
}
```

## Schema — ProductGroupScheduleCreateIdo

**Table 4-213 ProductGroupScheduleCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| productGroupId | yes | number($int12) example: 223343 | The unique identifier of the product group the schedule is for. |
| description | yes | string($text250) example: Test Schedule | A description of the schedule. |
| type | yes | integer($int4) example: 1 | The type of schedule. Only the data set matching this type needs to be included. Valid values are<br>1 - Daily<br>2 - Daily By Weekday<br>3 - Weekly<br>4 - Monthly by Day<br>5 - Monthly By Week<br>6 - Yearly By Day<br>7 - Yearly By Week<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |
| startDate | NA | string($date-time) | The date the schedule becomes active. This must be tomorrow or a later date except for unit stock counts, which allow for same day scheduling. |
| endDate | NA | string($date-time) | The date the schedule terminates. |
| dailySchedule | | object | daily schedule |
| dailyByWeekSchedule | | object | daily schedule |


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**Table 4-213 (Cont.) ProductGroupScheduleCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklySchedule | | object | weekly schedule |
| monthlyByDaySchedule | | object | monthly by day schedule |
| monthlyByWeekSchedule | | object | monthly by week schedule |
| yearlyByDaySchedule | | object | yearly by day schedule |
| yearlyByWeekSchedule | | object | yearly by week schedule |
| stores | yes | number($int15)] example: List [ 333, 444 ] | A list of store identifiers the schedule applies to. |

**Table 4-214 ScheduleDailyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| dailyFrequency | yes | number ($int12) example: 3 | The number of days between occurrences of the schedule. |

**Table 4-215 ScheduleDailyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| sunday | NA | boolean example: false | True if scheduled on Sunday. |
| monday | NA | boolean example: false | True if scheduled on Monday. |
| tuesday | NA | boolean example: false | True if scheduled on Tuesday. |
| wednesday | NA | boolean example: false | True if scheduled on Wednesday. |
| thursday | NA | boolean example: false | True if scheduled on Thursday. |
| friday | NA | boolean example: false | True if scheduled on Friday. |
| saturday | NA | boolean example: false | True if scheduled on Saturday. |


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**Table 4-216 ScheduleDailyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| sunday | NA | boolean example: false | True if scheduled on Sunday. |
| monday | NA | boolean example: false | True if scheduled on Monday. |
| tuesday | NA | boolean example: false | True if scheduled on Tuesday. |
| wednesday | NA | boolean example: false | True if scheduled on Wednesday. |
| thursday | NA | boolean example: false | True if scheduled on Thursday. |
| friday | NA | boolean example: false | True if scheduled on Friday. |
| saturday | NA | boolean example: false | True if scheduled on Saturday. |

**Table 4-217 ScheduleWeeklyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| sunday | NA | boolean example: false | True if scheduled on Sunday. |
| monday | NA | boolean example: false | True if scheduled on Monday. |
| tuesday | NA | boolean example: false | True if scheduled on Tuesday. |
| wednesday | NA | boolean example: false | True if scheduled on Wednesday. |
| thursday | NA | boolean example: false | True if scheduled on Thursday. |
| friday | NA | boolean example: false | True if scheduled on Friday. |
| saturday | NA | boolean example: false | True if scheduled on Saturday. |

**Table 4-218 ScheduleMonthlyByDayIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| monthlyFrequency | yes | number($int12) example: 6 | The number of months between occurrences. |


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**Table 4-218 (Cont.) ScheduleMonthlyByDayIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| dayOfMonth | yes | number($int2) example: 10 | The day of the month to execute the schedule on. Valid values are 1-31 |

**Table 4-219 ScheduleMonthlyByWeekIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| monthlyFrequency | yes | number($int12) example: 6 | The number of months between occurences. |
| weekOfTheMonth | yes | number($int2) example: 1 | The week of the month to execute the schedule on. Valid values are 1-5. |
| dayOfTheWeek | yes | number($int2) example: 7 | The day of the week to execute the schedule on. Valid values are 1-7. |

**Table 4-220 ScheduleYearlyByDayIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| monthOfTheYear | yes | number($int2) example: 1 | The month of the year to execute the schedule on. Valid values are 1-12. |
| dayOfTheMonth | yes | number($int2) example: 20 | The day of the month to execute the schedule on. Valid values are 1-31. |

**Table 4-221 ScheduleYearlyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| monthOfTheYear | yes | number($int2) example: 1 | The month of the year to execute the schedule on. Valid values are 1-12. |
| weekOfTheMonth | yes | number($int2) example: 1 | The week of the month to execute the schedule on. Valid values are 1-5. |
| dayOfTheWeek | yes | number($int2) example: 7 | The day of the week to execute the schedule on. Valid values are 1-7. |

## Responses

This section describes the responses of the Create Schedules API.


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## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "scheduleId": 11111,
    "productGroupId": 223343,
    "description": "Test Schedule",
    "type": 1,
    "status": 1,
    "startDate": "2024-11-07T11:17:51.016Z",
    "endDate": "2024-11-07T11:17:51.016Z",
    "updateDate": "2024-11-07T11:17:51.016Z"
  }
]
```


### Schema — ProductGroupScheduleHeaderIdo

**Table 4-222 ProductGroupScheduleHeaderIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| scheduleId | NA | integer($int8) example: 11111 | The unique identifier of the schedule. |
| productGroupId | NA | number($int12) example: 223343 | The unique identifier of the product group the schedule is for. |
| description | NA | string($text250) example: Test Schedule | A description of the schedule. |
| type | NA | integer($int4) example: 1 | The type of schedule. Valid values are:<br>1 - Daily<br>2 - Daily By Weekday<br>3 - Weekly<br>4 - Monthly by Day<br>5 - Monthly By Week<br>6 - Yearly By Day<br>7 - Yearly By Week<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |
| status | NA | integer($int4) example: 1 | The current status of the schedule. Valid values are:<br>1 - Open<br>2 - Closed<br>Enum: [ 1, 2 ] |


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**Table 4-222 (Cont.) ProductGroupScheduleHeaderIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| startDate | NA | string($date-time) | The date the schedule becomes active. |
| endDate | NA | string($date-time) | The date the schedule terminates. |
| updateDate | NA | string($date-time) | The date the schedule was last updated. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Schedule

This section describes the Read Schedules API. This API retrieves all the details about a product group schedule.

### Method

```
GET
```

### URL

```
/productgroupschedules/{scheduleId}
```

### Request Parameters

**Table 4-223 Read Schedule — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| scheduleId | yes | integer($int12) (path) | The unique identifier of the schedule. |

### Responses

This section describes the responses of the Read Schedule API.


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## Response Code: 200

The request has been successful.

The media type is application/json.

## Example Value


```
[
  {
    "scheduleId": 11111,
    "productGroupId": 223343,
    "description": "Test Schedule",
    "type": 1,
    "status": 1,
    "startDate": "2024-11-11T12:49:09.159Z",
    "endDate": "2024-11-11T12:49:09.159Z",
    "updateDate": "2024-11-11T12:49:09.159Z",
    "dailySchedule": {
      "dailyFrequency": 3
    },
    "dailyByWeekSchedule": {
      "weeklyFrequency": 3,
      "sunday": false,
      "monday": false,
      "tuesday": false,
      "wednesday": false,
      "thursday": false,
      "friday": false,
      "saturday": false
    },
    "weeklySchedule": {
      "weeklyFrequency": 3,
      "sunday": false,
      "monday": false,
      "tuesday": false,
      "wednesday": false,
      "thursday": false,
      "friday": false,
      "saturday": false
    },
    "monthlyByDaySchedule": {
      "monthlyFrequency": 6,
      "dayOfMonth": 10
    },
    "monthlyByWeekSchedule": {
      "monthlyFrequency": 6,
      "weekOfTheMonth": 1,
      "dayOfTheWeek": 7
    },
    "yearlyByDaySchedule": {
      "monthOfTheYear": 1,
      "dayOfTheMonth": 20
    },
```



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```
    "yearlyByWeekSchedule": {
      "monthOfTheYear": 1,
      "weekOfTheMonth": 1,
      "dayOfTheWeek": 7
    },
    "stores": [
      {
        "storeId": 5000,
        "lastExtractedDate": "2024-11-11T12:49:09.159Z"
      }
    ]
  }
]
```


## Schema — ProductGroupScheduleIdo

**Table 4-224 ProductGroupScheduleIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| scheduleId | NA | integer($int8) example: 11111 | The unique identifier of the schedule. |
| productGroupId | NA | number($int12) example: 22334 | The unique identifier of the product group the schedule is for. |
| description | NA | string($text250) example: Test Schedule | A description of the schedule. |
| type | NA | integer($int4) example: 1 | The type of schedule. Valid values are<br>1 - Daily<br>2 - Daily By Weekday<br>3 - Weekly<br>4 - Monthly by Day<br>5 - Monthly By Week<br>6 - Yearly By Day<br>7 - Yearly By Week<br>Enum:<br>[ 1, 2, 3, 4, 5, 6, 7 ] |
| status | NA | integer($int4) example: 1 | The current status of the schedule. Valid values are<br>1 - Open<br>2 - Closed<br>Enum: [ 1, 2 ] |
| startDate | NA | string($date-time) | The date the schedule becomes active. |
| endDate | NA | string($date-time) | The date the schedule terminates. |
| updateDate | NA | string($date-time) | The date the schedule was lasted updated. |
| dailySchedule | NA | object | daily schedule |


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**Table 4-224 (Cont.) ProductGroupScheduleIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| dailyByWeekSchedule | NA | object | daily by week schedule |
| weeklySchedule | NA | object | weekly schedule |
| monthlyByDaySchedule | NA | object | monthly by day schedule |
| monthlyByWeekSchedule | NA | object | monthly by week schedule |
| yearlyByDaySchedule | NA | object | yearly by day schedule |
| yearlyByWeekSchedule | NA | object | yearly by week schedule |
| stores | NA | object | A list of stores associated to the schedule. |

**Table 4-225 ScheduleDailyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| dailyFrequency | yes | number($int12) example: 3 | The number of days between occurrences of the schedule. |

**Table 4-226 ScheduleDailyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| sunday | NA | boolean example: false | True if scheduled on Sunday. |
| monday | NA | boolean example: false | True if scheduled on Monday. |
| tuesday | NA | boolean example: false | True if scheduled on Tuesday. |
| wednesday | NA | boolean example: false | True if scheduled on Wednesday. |
| thursday | NA | boolean example: false | True if scheduled on Thursday. |
| friday | NA | boolean example: false | True if scheduled on Friday. |
| saturday | NA | boolean example: false | True if scheduled on Saturday. |


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**Table 4-227 ScheduleWeeklyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| sunday | NA | boolean example: false | True if scheduled on Sunday. |
| monday | NA | boolean example: false | True if scheduled on Monday. |
| tuesday | NA | boolean example: false | True if scheduled on Tuesday. |
| wednesday | NA | boolean example: false | True if scheduled on Wednesday. |
| thursday | NA | boolean example: false | True if scheduled on Thursday. |
| friday | NA | boolean example: false | True if scheduled on Friday. |
| saturday | NA | boolean example: false | True if scheduled on Saturday. |

**Table 4-228 ScheduleMonthlyByDayIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| dayOfMonth | yes | number($int2) example: 10 | The day of the month to execute the schedule on. Valid values are 1-31. |

**Table 4-229 ScheduleMonthlyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of months between occurrences. |
| weekOfTheMonth | yes | number($int2) example: 1 | The week of the month to execute the schedule on. Valid values are 1-5. |
| dayOfTheWeek | yes | number($int2) example: 7 | The day of the week to execute the schedule on. Valid values are 1-7. |

**Table 4-230 ScheduleYearlyByDayIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 1 | The month of the year to execute the schedule on. Valid values are 1-12. |


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**Table 4-230 (Cont.) ScheduleYearlyByDayIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| dayOfTheMonth | yes | number($int2) example: 20 | The day of the month to execute the schedule on. Valid values are 1-31. |

**Table 4-231 ScheduleYearlyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| monthOfTheYear | yes | number($int12) example: 1 | The month of the year to execute the schedule on. Valid values are 1-12. |
| weekOfTheMonth | yes | number($int12) example: 1 | The week of the month to execute the schedule on. Valid values are 1-5. |
| dayOfTheWeek | yes | number($int2) example: 7 | The day of the week to execute the schedule on. Valid values are 1-7. |

**Table 4-232 ProductGroupScheduleStoreIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 5000 | The unique identifier of the store. |
| lastExtractedDate | NA | string($date-time) | The date the schedule was lasted extracted for this store. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Schedule

This section describes the Update Schedule API. This API updates the details of an open schedule.

### Method

POST


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## URL

```
/productgroupschedules/{scheduleId}
```

## Request Parameters

**Table 4-233 Update Schedule — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| scheduleId | yes | integer($int12) (path) | The unique identifier of the schedule. |

The request body is application/json.

Details to update within the schedule.

## Example Value

```
{
  "description": "Test Schedule",
  "type": 1,
  "endDate": "2024-11-11T14:08:23.049Z",
  "dailySchedule": {
    "dailyFrequency": 3
  },
  "dailyByWeekSchedule": {
    "weeklyFrequency": 3,
    "sunday": false,
    "monday": false,
    "tuesday": false,
    "wednesday": false,
    "thursday": false,
    "friday": false,
    "saturday": false
  },
  "weeklySchedule": {
    "weeklyFrequency": 3,
    "sunday": false,
    "monday": false,
    "tuesday": false,
    "wednesday": false,
    "thursday": false,
    "friday": false,
    "saturday": false
  },
  "monthlyByDaySchedule": {
    "monthlyFrequency": 6,
    "dayOfMonth": 10
  },
```


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```
  "monthlyByWeekSchedule": {
    "monthlyFrequency": 6,
    "weekOfTheMonth": 1,
    "dayOfTheWeek": 7
  },
  "yearlyByDaySchedule": {
    "monthOfTheYear": 1,
    "dayOfTheMonth": 20
  },
  "yearlyByWeekSchedule": {
    "monthOfTheYear": 1,
    "weekOfTheMonth": 1,
    "dayOfTheWeek": 7
  },
  "stores": [
    333,
    444
  ]
}
```


## Schema — ProductGroupScheduleUpdateIdo

**Table 4-234 ProductGroupScheduleUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| description | yes | string($text250) example: Test Schedule | A description of the schedule. |
| type | yes | integer($int4) example: 1 | The type of schedule. Only the data set matching this type needs to be included. Valid values are<br>1 - Daily<br>2 - Daily By Weekday<br>3 - Weekly<br>4 - Monthly by Day<br>5 - Monthly By Week<br>6 - Yearly By Day<br>7 - Yearly By Week<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |
| endDate | NA | string($date-time) | The date the schedule terminates.<br>It must be greater than the start date. |
| dailySchedule | NA | object | daily schedule |
| dailyByWeekSchedule | NA | object | daily by week schedule |
| weeklySchedule | NA | object | weekly schedule |
| monthlyByDaySchedule | NA | object | monthly by day schedule |
| monthlyByWeekSchedule | NA | object | monthly by week schedule |


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**Table 4-234 (Cont.) ProductGroupScheduleUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| yearlyByDaySchedule | NA | object | yearly by day schedule |
| yearlyByWeekSchedule | NA | object | yearly by week scheulde |
| stores | yes | example: List [ 333, 444 ] | A list of store identifiers the schedule applies to. |

**Table 4-235 ScheduleDailyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| dailyFrequency | yes | number($int12) example: 3 | The number of days between occurrences of the schedule. |

**Table 4-236 ScheduleDailyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| sunday | NA | boolean example: false | True if scheduled on Sunday. |
| monday | NA | boolean example: false | True if scheduled on Monday. |
| tuesday | NA | boolean example: false | True if scheduled on Tuesday. |
| wednesday | NA | boolean example: false | True if scheduled on Wednesday. |
| thursday | NA | boolean example: false | True if scheduled on Thursday. |
| friday | NA | boolean example: false | True if scheduled on Friday. |
| saturday | NA | boolean example: false | True if scheduled on Saturday. |

**Table 4-237 ScheduleWeeklyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| sunday | NA | boolean example: false | True if scheduled on Sunday. |


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**Table 4-237 (Cont.) ScheduleWeeklyIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| monday | NA | boolean example: false | True if scheduled on Monday. |
| tuesday | NA | boolean example: false | True if scheduled on Tuesday. |
| wednesday | NA | boolean example: false | True if scheduled on Wednesday. |
| thursday | NA | boolean example: false | True if scheduled on Thursday. |
| friday | NA | boolean example: false | True if scheduled on Friday. |
| saturday | NA | boolean example: false | True if scheduled on Saturday. |

**Table 4-238 ScheduleMonthlyByDayIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of weeks between occurrences of the schedule. |
| dayOfMonth | yes | number($int2) example: 10 | The day of the month to execute the schedule on. Valid values are 1-31. |

**Table 4-239 ScheduleMonthlyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 3 | The number of months between occurrences. |
| weekOfTheMonth | yes | number($int2) example: 1 | The week of the month to execute the schedule on. Valid values are 1-5. |
| dayOfTheWeek | yes | number($int2) example: 7 | The day of the week to execute the schedule on. Valid values are 1-7. |

**Table 4-240 ScheduleYearlyByDayIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| weeklyFrequency | yes | number($int12) example: 1 | The month of the year to execute the schedule on. Valid values are 1-12. |
| dayOfTheMonth | yes | number($int2) example: 20 | The day of the month to execute the schedule on. Valid values are 1-31. |


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**Table 4-241 ScheduleYearlyByWeekIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| monthOfTheYear | yes | number($int12) example: 1 | The month of the year to execute the schedule on. Valid values are 1-12. |
| weekOfTheMonth | yes | number($int12) example: 1 | The week of the month to execute the schedule on. Valid values are 1-5. |
| dayOfTheWeek | yes | number($int2) example: 7 | The day of the week to execute the schedule on. Valid values are 1-7. |

## Responses

This section describes the responses of the Update Schedule API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Delete Schedule

This section describes the Delete Schedule API. This API deletes a schedule from the system.

## Method

```
DELETE
```

## URL

```
/productgroupschedules/{scheduleId}
```

## Request Parameters


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**Table 4-242 Delete Schedule — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| scheduleId | yes | integer($int12) (path) | The unique identifier of the schedule. |

## Responses

This section describes the responses of the Delete Schedule API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Purchase Order

A purchase order is a document that indicates items and quantities that have been ordered for delivery to the store within a specific timeframe. The order can be created by the supplier or store user on the fly or alternatively by corporate users. These are used for Direct Store Delivery (or vendor/supplier deliveries). This service allows the direct integration of customer orders from a third party system as well as some management of the order with the system.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Orders

This section describes the Find Orders API. This API finds up to 5,000 purchase orders headers for the input criteria. No item information is returned.

## Method

```
GET
```


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## URL

```
/purchaseorders
```

## Request Parameters

**Table 4-243 Find Orders — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| orderNumber | NA | string($text128) (query) | Include only purchase orders associated to this external order number. |
| storeId | NA | number($int10) (query) | Include only purchase orders for this store. |
| supplierId | NA | number($int10) (query) | Include only purchase orders for this supplier. |
| status | NA | integer($int4) (query) | Include only purchase orders in this status. Valid values are:<br>1 - Approved<br>2 - In Progress<br>3 - Canceled<br>4 - Completed<br>99 - Active<br>Available values : 1, 2, 3, 4, 99 |
| updateDateFrom | NA | string($date-time) (query) | Include only purchase orders with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only purchase orders with an update date on or before this date. |

## Responses

This section describes the responses of the Find Orders API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
{
  "purchaseOrderId": 11111,
  "orderNumber": "4823534",
  "storeId": 5000,
  "supplierId": 5101,
```



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```
    "status": 1,
    "customerOrderId": "799003",
    "fulfillmentOrderId": "7994203",
    "notBeforeDate": "2025-01-02T09:18:14.032Z",
    "notAfterDate": "2025-01-02T09:18:14.032Z",
    "updateDate": "2025-01-02T09:18:14.032Z",
    "completeDate": "2025-01-02T09:18:14.032Z"
  }
]
```


## Schema — PurchaseOrderHearderIdo

**Table 4-244 PurchaseOrderHearderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| purchaseOrderId | NA | number($int12) example: 11111 | The unique identifier of the purchase order. |
| orderNumber | NA | string($text128) example: 4823534 | The non-unique order number of the purchase order in an external system. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| supplierId | NA | number($int10) example: 5101 | The identifier of the supplier shipping the goods. |
| status | NA | integer($int4) example: 1 | The current status of the purchase order. Valid values are:<br>1 - Approved<br>2 - In Progress<br>3 - Canceled<br>4 - Completed<br>Enum: [ 1, 2, 3, 4 ] |
| customerOrderId | NA | string($text128) example: 799003 | A customer order identifier if associated to a customer order. |
| fulfillmentOrderId | NA | string($text128) example: 7994203 | A fulfillment order identifier if associated to a customer order. |
| notBeforeDate | NA | string($date-time) | Earliest date that the inventory should arrive at the store for this order. |
| notAfterDate | NA | string($date-time) | Latest date that the inventory can arrive at the store for this order. |
| updateDate | NA | string($date-time) | The date the purchase order was last updated. |
| completeDate | NA | string($date-time) | The date the purchase order was completed. |


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Order By ID

This section describes the Read Order By ID API. This API reads a store level purchase order by its unique system identifier. This operation retrieves the full information of the purchase order within the context of the store including items and quantities.

### Method

```
GET
```

### URL

```
/replenishgaps/{gapId}
```

### Request Parameters

**Table 4-245 Read Order By ID — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| purchaseOrderId | yes | number($int12) (path) | The unique EICS identifier of the purchase order. |

### Responses

This section describes the responses of the Read Order By ID API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
```


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```
    "purchaseOrderId": 11111,
    "orderNumber": "4823534",
    "storeId": 5000,
    "supplierId": 5101,
    "status": 1,
    "externalStatus": 1,
    "notBeforeDate": "2025-01-02T09:59:21.146Z",
    "notAfterDate": "2025-01-02T09:59:21.146Z",
    "comments": "Summer product pre-order",
    "customerOrderId": "799003",
    "fulfillmentOrderId": "7994203",
    "source": "POXD",
    "createUser": "smith123",
    "createDate": "2025-01-02T09:59:21.146Z",
    "updateDate": "2025-01-02T09:59:21.146Z",
    "completeDate": "2025-01-02T09:59:21.146Z",
    "lineItems": [
      {
        "lineId": 11111,
        "itemId": "11111",
        "supplierCountryCode": "US",
        "supplierCaseSize": 5,
        "quantityOrdered": 20,
        "quantityReceived": 20,
        "unitCostCurrency": "USD",
        "unitCostValue": 10,
        "preferredUom": "LBS",
        "published": true
      }
    ]
  }
]
```


## Schema — PurchaseOrderIdo

**Table 4-246 PurchaseOrderIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| purchaseOrderId | NA | number($int12)<br>example: 11111 | The unique identifier of the purchase order. |
| orderNumber | NA | string($text128)<br>example: 4823534 | The non-unique order number of the purchase order in an external system. |
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store receiving the inventory. |
| supplierId | NA | number($int10)<br>example: 5101 | The identifier of the supplier shipping the goods. |


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**Table 4-246 (Cont.) PurchaseOrderIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| status | NA | integer($int4)<br>example: 1 | The current status of the purchase order. Valid values are:<br>1 - Approved<br>2 - In Progress<br>3 - Canceled<br>4 - Completed<br>Enum: [ 1, 2, 3, 4 ] |
| externalStatus | NA | integer($int4)<br>example: 1 | The current status of the purchase order in the originating system. Valid values are:<br>1 - Worksheet<br>2 - Submitted<br>3 - Approved<br>4 - Closed<br>Enum: [ 1, 2, 3, 4 ] |
| notBeforeDate | NA | string($date-time) | Earliest date that the inventory should arrive at the store for this order. |
| notAfterDate | NA | string($date-time) | Latest date that the inventory can arrive at the store for this order. |
| comments | NA | string($text2000)<br>example: Summer product pre-order | Comments associated to the purchase order. |
| customerOrderId | NA | string($text128)<br>example: 799003 | A customer order identifier if associated to a customer order. |
| fulfillmentOrderId | NA | string($text128)<br>example: 7994203 | A fulfillment order identifier if associated to a customer order. |
| source | NA | string($text25)<br>example: POXD | Text indicating the system that originated the purchase order. |
| createUser | NA | string($text128)<br>example: smith123 | The user that created the purchase order within the system. |
| createDate | NA | string($date-time) | The date the purchase order was created within the system. |
| updateDate | NA | string($date-time) | The date the purchase order was last updated. |
| completeDate | NA | string($date-time) | The date the purchase order was completed. |
| lineItems | NA | object | A collection of line items on the purchase order. |

**Table 4-247 PurchaseOrderLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| lineId | NA | number($int15)<br>example: 11111 | The unique identifier of the line item record. |


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**Table 4-247 (Cont.) PurchaseOrderLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 11111 | The unique identifier of the item. |
| supplierCountryCode | NA | string($text3) example: US | The country code of the supplier country of origin. |
| supplierCaseSize | NA | number($decimal(10, 2)) example: 5 | The case size coming from the supplier. |
| quantityOrdered | NA | number($decimal(20, 4)) example: 20 | The number of units (in standard unit of measure) expected to be delivered to the store. |
| quantityReceived | NA | number($decimal(20, 4)) example: 20 | The number of units (in standard unit of measure) received to date against the order. |
| unitCostCurrency | NA | string($text3) example: USD | The unit cost ISO currency code. |
| unitCostValue | NA | number($decimal(12, 4)) example: 10 | The unit cost value of the line item. |
| preferredUom | NA | string($text4) example: LBS | The preferred unit of measure of the line item. |
| published | NA | boolean example: true | True indicates the line item has been published out to an exteral system, false otherwise. This is used when the purchase order originates within EICS. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Order

This section describes the Read Order API. This API reads a store level purchase order by its external identifier. This operation retrieves the full information of the purchase order within the context of the store including items and quantities.

### Method

```
GET
```

### URL

```
/purchaseorders/{orderNumber}/{storeId}
```


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## Request Parameters

**Table 4-248 Read Order — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| orderNumber | yes | string($text128) (path) | The external identifier of the purchase order. |
| storeId | yes | number ($int10) (path) | The store identifier of the purchase order. |

## Responses

This section describes the responses of the Read Order API.

### Response Code: 200

The request has been successful.

The media type is application/json.

#### Example Value


```
[
  {
    "purchaseOrderId": 11111,
    "orderNumber": "4823534",
    "storeId": 5000,
    "supplierId": 5101,
    "status": 1,
    "externalStatus": 1,
    "notBeforeDate": "2025-01-02T10:32:05.695Z",
    "notAfterDate": "2025-01-02T10:32:05.695Z",
    "comments": "Summer product pre-order",
    "customerOrderId": "799003",
    "fulfillmentOrderId": "7994203",
    "source": "POXD",
    "createUser": "smith123",
    "createDate": "2025-01-02T10:32:05.695Z",
    "updateDate": "2025-01-02T10:32:05.695Z",
    "completeDate": "2025-01-02T10:32:05.695Z",
    "lineItems": [
      {
        "lineId": 11111,
        "itemId": "11111",
        "supplierCountryCode": "US",
        "supplierCaseSize": 5,
        "quantityOrdered": 20,
        "quantityReceived": 20,
        "unitCostCurrency": "USD",
```



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```
        "unitCostValue": 10,
        "preferredUom": "LBS",
        "published": true
      }
    ]
  }
]
```

## Schema — PurchaseOrderIdo

**Table 4-249 PurchaseOrderIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| purchaseOrderId | NA | number($int12)<br>example: 11111 | The unique identifier of the purchase order. |
| orderNumber | NA | string($text128)<br>example: 4823534 | The non-unique order number of the purchase order in an external system. |
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store receiving the inventory. |
| supplierId | NA | number($int10)<br>example: 5101 | The identifier of the supplier shipping the goods. |
| status | NA | integer($int4)<br>example: 1 | The current status of the purchase order. Valid values are:<br>1 - Approved<br>2 - In Progress<br>3 - Canceled<br>4 - Completed<br>Enum: [ 1, 2, 3, 4 ] |
| externalStatus | NA | integer($int4)<br>example: 1 | The current status of the purchase order in the originating system. Valid values are:<br>1 - Worksheet<br>2 - Submitted<br>3 - Approved<br>4 - Closed<br>Enum: [ 1, 2, 3, 4 ] |
| notBeforeDate | NA | string($date-time) | Earliest date that the inventory should arrive at the store for this order. |
| notAfterDate | NA | string($date-time) | Latest date that the inventory can arrive at the store for this order. |
| comments | NA | string($text2000)<br>example: Summer product pre-order | Comments associated to the purchase order. |
| customerOrderId | NA | string($text128)<br>example: 799003 | A customer order identifier if associated to a customer order. |
| fulfillmentOrderId | NA | string($text128)<br>example: 7994203 | A fulfillment order identifier if associated to a customer order. |


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**Table 4-249 (Cont.) PurchaseOrderIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| source | NA | string($text25) example: POXD | Text indicating the system that originated the purchase order. |
| createUser | NA | string($text128) example: smith123 | The user that created the purchase order within the system. |
| createDate | NA | string($date-time) | The date the purchase order was created within the system. |
| updateDate | NA | string($date-time) | The date the purchase order was last updated. |
| completeDate | NA | string($date-time) | The date the purchase order was completed. |
| lineItems | NA | object | A collection of line items on the purchase order. |

**Table 4-250 PurchaseOrderLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| lineId | NA | number($int15) example: 11111 | The unique identifier of the line item record. |
| itemId | NA | string($text25) example: 11111 | The unique identifier of the item. |
| supplierCountryCode | NA | string($text3) example: US | The country code of the supplier country of origin. |
| supplierCaseSize | NA | number($decimal(10, 2)) example: 5 | The case size coming from the supplier. |
| quantityOrdered | NA | number($decimal(20, 4)) example: 20 | The number of units (in standard unit of measure) expected to be delivered to the store. |
| quantityReceived | NA | number($decimal(20, 4)) example: 20 | The number of units (in standard unit of measure) received to date against the order. |
| unitCostCurrency | NA | string($text3) example: USD | The unit cost ISO currency code. |
| unitCostValue | NA | number($decimal(12, 4)) example: 10 | The unit cost value of the line item. |
| preferredUom | NA | string($text4) example: LBS | The preferred unit of measure of the line item. |
| published | NA | boolean example: true | True indicates the line item has been published out to an exteral system, false otherwise. This is used when the purchase order originates within EICS. |

## Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# Close Order

This section describes the Close Order API. This API closes an existing purchase order. An already closed order will ignore the request and successfully return. If a store is not managed and the system is not configured to override, the request will also be ignored. If quantities are already received, the purchase order will go to completed status, otherwise it will be cancelled. A forbidden error response will occur if the application is integrated with Oracle Merchandising.

## Method

`POST`

## URL

`/purchaseorders/{orderNumber}/close`

## Request Parameters

**Table 4-251 Close Order— Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| orderNumber | yes | string($text128) (path) | The external order number of the purchase order. |

## Responses

This section describes the responses of the Close Order API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Import Order


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This section describes the Import Order API. This API imports of approved purchase orders ared is staged and processed asynchronously by the MPS work queue DcsOrder. If the order number exists already, the order will be treated as an update. If the order number does not exist, a new order will be created. If a record for item and store combination is found for an item, then the item will be updated, otherwise a new line item will be created for the item-store combination. Items cannot be removed from already existing purchase orders, however, their ordered quantity can be reduced to zero. If the system is integrated with Oracle Merchandising, then this operation will return a Forbidden response. As an asynchronous service, minimal validation will be done prior to submitting the information for later processing. Business validation that fails during asynchronous processing can be found along with the processing message in the MPS staged message table.

## Method

```
POST
```

## URL

```
/purchaseorders/{orderNumber}/import
```

## Request Parameters

**Table 4-252 Import Order— Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| orderNumber | yes | string($text128) (path) | The external order number of the purchase order. |

The request body is application/json.

## Example Value

```
{
  "supplierId": 5101,
  "externalStatus": 1,
  "notBeforeDate": "2025-01-02T11:14:26.297Z",
  "notAfterDate": "2025-01-02T11:14:26.297Z",
  "unitCostCurrency": "799003",
  "customerOrderId": "799003",
  "fulfillmentOrderId": "7994203",
  "source": "POXD",
  "comments": "Summer product pre-order",
  "lineItems": [
    {
      "itemId": "11111",
      "storeId": 5000,
      "supplierCountryCode": "US",
      "supplierCaseSize": 5,
```


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```
      "quantityOrdered": 20,
      "unitCost": 10,
      "preferredUom": "LBS",
      "published": true
    }
  ]
}
```

## Schema — PurchaseOrderImportIdo

**Table 4-253 PurchaseOrderImportIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| supplierId | Yes | number($int10)<br>example: 5101 | The identifier of the supplier shipping the goods. |
| externalStatus | Yes | integer($int4)<br>example: 1 | The current status of the purchase order. Valid values are<br>1 - Worksheet<br>2 - Submitted<br>3 - Approved<br>4 - Closed<br>Enum: [ 1, 2, 3, 4 ] |
| notBeforeDate | NA | string($date-time) | Earliest date that the inventory should arrive at the store for this order. |
| notAfterDate | NA | string($date-time) | Latest date that the inventory can arrive at the store for this order. |
| unitCostCurrency | Yes | string($text3)<br>example: 799003 | The currency code of the unit costs of the items on this purchase order. |
| customerOrderId | NA | string($text128)<br>example: 799003 | A customer order identifier if associated to a customer order. This is only accepted only when the purchase order is originally created and will not be modified on an update. |
| fulfillmentOrderId | NA | string($text128)<br>example: 7994203 | A fulfillment order identifier if associated to a customer order. This is accepted only when the purchase order is originally created and will not be modified on an update. |
| source | Yes | string($text25)<br>example: POXD | Text indicating the system that originated the purchase order. This is only used when the purchase order is originally created and will not be modified on an update. |
| comments | NA | string($text2000)<br>example: Summer product pre-order | Comments associated to the purchase order. |
| lineItems | Yes | object | A collection of line items on the purchase order. |


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**Table 4-254 PurchaseOrderImportItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 11111 | The unique identifier of the item. |
| storeId | Yes | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| supplierCountryCode | Yes | string($text3) example: US | The country code of the supplier country of origin. This value will be ignored on an update of the item/store combination. |
| supplierCaseSize | NA | number($decimal(10, 2)) example: 5 | The case size coming from the supplier. |
| quantityOrdered | Yes | number($decimal(20, 4)) example: 20 | The number of units (in standard unit of measure) expected to be delivered to the store. |
| unitCost | NA | number($decimal(12, 4)) example: 10 | The unit cost value of the line item. |
| preferredUom | NA | string($text4) example: LBS | The preferred unit of measure of the line item. |
| published | NA | boolean example: true | True indicates the line item has been published out to an exteral system, false otherwise. This is used when the purchase order originates within EICS. |

## Responses

This section describes the responses of the Import Order API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Reason Code

This service allows and external system to retrieve available reason codes. Reason codes are attached to inventory adjustments or shipments.


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# Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/ reasoncodes

# API Definitions

| API | Description |
|---|---|
| Find Adjustment Reason Codes | Finds reason codes available for inventory adjustments. |
| Find Shipment Reason Codes | Finds reason codes available for shipments. |

# API: Find Adjustment Reason Codes

This API is used to find reason codes available for inventory adjustments.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL} /adjustments |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | None |
| Output | List of inventory adjustment reasons |
| Max Response Limit | N/A |

### Output Data Definition

| Attribute | Data Type | Description |
|---|---|---|
| reasonId | Long | The unique identifier of the inventory adjustment reason code. |
| reasonCode | Integer | Unique reason code associated to external systems. |
| description | String | A description of the inventory reason code. |
| dispositionCode | Integer | The inventory disposition associated to the code. |
| dispositionDescription | String | A description of the inventory disposition associated to the code (not translated). |
| fromNonSellableType | Long | From unavailable sub-bucket (indicates the sub-bucket of disposition of stock movement) |
| fromNonSellableTypeDescription | String | The description of the from unavailable sub-bucket (not translated). |


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| | | | |
|---|---|---|---|
| toNonSellableType | Long | | To unavailable sub-bucket (indicates the sub-bucket of disposition of stock movement) |
| toNonSellableTypeDescription | String | | The description of the to unavailable sub-bucket (not translated). |
| systemRequired | Boolean | | True indicates the reason code is required for the system to function. A system required reason code cannot be deactivated. |
| displayable | Boolean | | True indicates the reason code can be used by a transactional inventory adjustment created by an entity other than EICS internal service. |
| publish | Boolean | - | True indicating inventory movements with this reason code should be published to external systems |

**Example Input**

[

{

"reasonId": 1,

"reasonCode": 1,

"description": “invAdjReason.1",

"dispositionCode": 4,

"dispositionDescription": "inventoryDisposition.ATS-DIST",

"systemRequired": true,

"displayable": false,

"publish": true

},

{

"reasonId": 2,

"reasonCode": 81,

"description": "invAdjReason.81",

"dispositionCode": 4,

"dispositionDescription": "inventoryDisposition.ATS-DIST",

"systemRequired": false,

"displayable": true,

"publish": true

}


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]

# API: Find Shipment Reason Codes

Finds all the reason codes in the system available for any type of shipment. You can use properties of the reason code to determine if it is available for usage on a particular transaction.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL} /shipments |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | None |
| Output | List of reasons codes |
| Max Response Limit | N/A |

### Output Data Definition

| Attribute | Data Type | Description |
|---|---|---|
| reasonId | Long | The unique identifier of the inventory adjustment reason code. |
| reasonCode | String | Unique reason code associated to external systems. |
| description | String | A description of the inventory reason code (not translated). |
| type | Integer | The Shipment Reason Code Type: See the Shipment Reason Code Type.<br>A reason code can only be used on a transaction that matches its type. For example, 3 – Warehouse can only be used on a store to warehouse shipment. |
| useAvailable | Boolean | True if it must use available inventory, false indicates it must use unavailable inventory. The reason code will need to match the type of inventory being shipped. |
| nonSellableTypeId | Long | An identifier of associated unavailable sub-bucket (indicates the sub-bucket of disposition of stock movement) |

### Example Input

[

{

"reasonId": 1,

"reasonCode": "F",

"description": "shipmentReason.4.F",


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"type": 4,

"useAvailable": true

},

{

“reasonId": 2,

"reasonCode": "O",

"description": "shipmentReason.4.O",

"type": 4,

"useAvailable": true

},

{

"reasonId": 3,

"reasonCode": "U",

"description": "shipmentReason.4.U",

"type": 4,

"useAvailable": false,

"nonSellableTypeId": 1

}

]

**Additional Data Definitions**

**Shipment Reason Code Type**

| Value | Definition |
|---|---|
| 1 | Store |
| 2 | Supplier |
| 3 | Warehouse |
| 4 | Finisher |
| 5 | Customer |

# REST Service: Radio Frequency Identification Scanning (RFID)

Radio Frequency Identification Scanning is the automated scanning of electronic product codes (SGTIN-96), or RFID tags. This service deals with setting up zones for RFID scanning and receiving scan events from an automated RFID scanning system.

## Service Base URL


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The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

# Find Zones

This section describes the Find Zones API. This API finds RFID zones by location type and identifier.

## Method

```
GET
```

## URL

```
/rfids/zones
```

## Request Parameters

**Table 4-255 Find Zones — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| locationType | NA | integer($int2) (query) | Include only zones with this location type. Valid values are:<br>1 — Store<br>2 —Warehouse<br>Available values : 1, 2 |
| locationId | NA | number($int10) (query) | Include only zones within this locaiton. |

## Responses

This section describes the responses of the Find Zones API.

## Response Code: 200

The request has been successful.

The media type is application/json.

## Example Value

```
[
  {
    "zoneId": 11111,
```


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```
    "locationType": 1,
    "locationId": 5000,
    "externalId": 789012,
    "zoneType": 1,
    "description": "Front Sale Counter"
  }
]
```

### Schema —RfidZoneIdo

**Table 4-256 RfidZoneIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| zoneId | NA | number($int15) example: 11111 | The unique identifier of the zone. |
| locationType | NA | integer($int2) example: 1 | The type of location of the zone. Valid values are:<br>1 - Store<br>2 - Warehouse<br>Enum: [ 1, 2 ] |
| locationId | NA | number($int10) example: 5000 | The unique identifier of the location. |
| externalId | NA | number($int15) example: 789012 | A unique identifier of the zone in an extrenal system. |
| zoneType | NA | integer($int2) example: 1 | The zone type. Valid values are:<br>1 - Shopfloor<br>2 - Backroom<br>3 - None<br>Enum: [ 1, 2, 3 ] |
| description | NA | string($text255) example: Front Sale Counter | A description of the RFID scanning zone. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Zone

This section describes the Create Zone API. This API create a new RFID zone.


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## Method

```
POST
```

## URL

```
/rfids/zones
```

## Request Parameters

There are no request parameters.

The request body is application/json.

The details of the new zone.

### Example Value

```
{
  "locationType": 1,
  "locationId": 5000,
  "externalId": 789012,
  "zoneType": 1,
  "description": "Front Sale Counter"
}
```

### Schema — RfidZoneIdo

**Table 4-257 RfidZoneCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| locationType | Yes | integer($int2) example: 1 | The type of location of the zone. Valid values are:<br>1 - Store<br>2 - Warehouse<br>Enum: [ 1, 2 ] |
| locationId | Yes | number($int10) example: 5000 | The unique identifier of the location. |
| externalId | NA | number($int15) example: 789012 | A unique identifier of the zone in an external system. |


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**Table 4-257 (Cont.) RfidZoneCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| zoneType | Yes | integer($int2 ) example: 1 | The zone type. Valid values are:<br>1 - Shopfloor<br>2 - Backroom<br>3 - None<br>Enum: [ 1, 2, 3 ] |
| description | NA | string($text2 55) example: Front Sale Counter | A description of the RFID scanning zone. |

## Responses

This section describes the responses of the Create Zone API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "zoneId": 11111,
    "locationType": 1,
    "locationId": 5000,
    "externalId": 789012,
    "zoneType": 1,
    "description": "Front Sale Counter"
  }
]
```

### Schema —RfidZoneIdo

**Table 4-258 RfidZoneIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| zoneId | NA | number($int1 5) example: 11111 | The unique identifier of the zone. |


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**Table 4-258 (Cont.) RfidZoneIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| locationType | NA | integer($int2) example: 1 | The type of location of the zone. Valid values are:<br>1 - Store<br>2 - Warehouse<br>Enum: [ 1, 2 ] |
| locationId | NA | number($int10) example: 5000 | The unique identifier of the location. |
| externalId | NA | number($int15) example: 789012 | A unique identifier of the zone in an extrenal system. |
| zoneType | NA | integer($int2) example: 1 | The zone type. Valid values are:<br>1 - Shopfloor<br>2 - Backroom<br>3 - None<br>Enum: [ 1, 2, 3 ] |
| description | NA | string($text255) example: Front Sale Counter | A description of the RFID scanning zone. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Zone

This section describes the Update Zone API. This API updates an existing RFID zone.

## Method

```
POST
```

## URL

```
/rfids/zones/{zoneId}
```

## Request Parameters


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**Table 4-259 Update Zone — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| zoneId | yes | number($int12) (path) | The unique identifier of the RFID zone. |

The request body is application/json.

The details to update about the zone.

## Example Value

```
{
  "externalId": 789012,
  "zoneType": 1,
  "description": "Front Sale Counter"
}
```

## Schema — RfidZoneUpdateIdo

**Table 4-260 RfidZoneUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalId | NA | number($int15) example: 789012 | A unique identifier of the zone in an external system. |
| zoneType | yes | integer($int2) example: 1 | The zone type. Valid values are<br>1 - Shopfloor<br>2 - Backroom<br>3 - None<br>Enum: [ 1, 2, 3 ] |
| description | NA | string($text255) example: Front Sale Counter | A description of the RFID scanning zone. |

# Responses

This section describes the responses of the Update Zone API.

## Response Code: 204

No content

## Response Code: 400


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Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Delete Zone

This section describes the Delete Zone API. This API deletes an RFID zone.

## Method

```
DELETE
```

## URL

```
/rifds/zones/{zoneId}/delete
```

## Request Parameters

**Table 4-261 Delete Zone — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| zoneId | yes | number($int12) (path) | The unique identifier of the RFID zone. |

## Responses

This section describes the responses of the Delete Zone API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Import Events

This section describes the Import Events API. This API processes up to 1,500 Radio Frequency Identification based events. This processing will update the tag information based


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on the event as well as the stock on hand positions for the item. Events should be sent in groups of 50-100 at a time for optimal processing speed..

## Method

```
POST
```

## URL

```
/rfids/events
```

## Request Parameters

There are no request parameters.

The request type is application/json.

Details about the events to import.

### Example Value

```
{
  "events": [
    {
      "locationType": 1,
      "locationId": 5000,
      "itemId": "100637120",
      "epc": "8347492243434",
      "zoneId": 11111,
      "eventType": "OBSERVE",
      "eventDate": "2024-11-12T10:28:01.725Z"
    }
  ]
}
```

### Schema — RfidEventListIdo

**Table 4-262 RfidEventListIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| events | yes | object | Events |


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**Table 4-263 RfidEventIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| locationType | yes | integer($int2)<br>example: 1 | The type of location of the zone. Valid values are:<br>1 - Store<br>2 - Warehouse<br>Enum: [ 1, 2 ] |
| locationId | yes | number($int10)<br>example: 5000 | The unique identifier of the location. |
| itemId | yes | string($text25)<br>example: 100637120 | The identifier of the item on the RFID tag. |
| epc | yes | string($text255)<br>example: 8347492243434 | The electronic product code (SGTIN-96) of the RFID tag. |
| zoneId | NA | number($int15)<br>example: 11111 | The unique identifier of the zone the tag is in. |
| eventType | yes | string($text7)<br>example: OBSERVE | The type of the event. Valid values are:<br>ADD - Indicates a new tag at the facility<br>DELETE - Indicates deactivation at a facility<br>OBSERVE - Indicates tag is present at the facility |
| eventDate | yes | string($date-time) | The date and time the scan event occurred. |

## Responses

This section describes the responses of the Import Event API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Security

This service provides an end point for the management of security information within SIOCS.


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## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api

## Scope To Be Used

Security services are protected by the security scope, so to obtain a token use this scope - rgbu:siocs:security-<ENV>.

## API Definitions

**Table 4-264 Security API Definitions**

| API | Description |
|---|---|
| Import Users | Imports a collection of user security information changes and processes them synchronously. This allows up to 2,000 users. |
| Delete Users | Deletes security information for the specified users within SIOCS. |

## API: Import Users

Imports a collection of user security information changes and processes them synchronously. This allows up to 2,000 users.

**Table 4-265 API Basics**

| | |
|---|---|
| Endpoint URL | /security/import/users |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | synchronous |
| Input | Query parameters |
| Output | N/A |
| Max Response | 2000 |

**Table 4-266 Input Data Definition**

| Parameter | Format | Required | Definition |
|---|---|---|---|
| users | array | No | A list of security changes to import. See below: |
| **Security Changes to Import** | | | |
| userName | string(text128) | Yes | The user name of the user. |
| addedStores | array[Integer](int10) | No | The stores to be added to the user. |


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**Table 4-266 (Cont.) Input Data Definition**

| | | | |
|---|---|---|---|
| removedStores | array[Integer](int10 | No | The stores to be removed from the user. |
| addedRoles | array | No | The roles to be assigned to the user:<br>roleName — The name of the role, string(text128), required<br>storeId — The identifier of the store for a specific store assignment, or no value for assignment applying to all allowed stores., BigDecimal(int10), optional<br>startDate — The date the role assignment should start to be allowed., date-time, optional<br>endDate — The date the role assignment should stop being allowed., date-time, optional |
| removedRoles | array | No | The role assignments to be removed from the user:<br>roleName — The name of the role, string(text128), required<br>storeId — The identifier of the store for a specific store assignment, or no value for assignment applying to all allowed stores., BigDecimal(int10), optional |

### Example Input ImportUsers

```
{
  "users": [
    {
      "userName": "abc",
      "addedStores":[1000, 2000],
      "removedStores":[1001, 2001],
      "addedRoles": [
        {
          "roleName": "role_a",
          "storeId": 3000,
          "endDate": "2032-11-19T23:59:59-05:00"
        },
        {
          "roleName": "role_c",
          "startDate": "2022-11-19T23:59:59-05:00"
        },
        {
          "roleName": "role_e",
        }
      ],
      "removedRoles": [
        {
          "roleName": "role_c",
          "storeId": 3001
        },
        {
          "roleName": "role_d"
        }
      ]
    }
```


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```
  ]
}
```

**Table 4-267 Responses**

| Code | Description |
|---|---|
| 202 | Accepted |
| 400 | Bad Request<br>Example:<br><br>[<br>  {<br>  "errors": [<br>  {<br>  "code": 1,<br>  "description": "AN_ERROR_TOOK_PLACE",<br>  "dataElement": "item",<br>  "dataValue": "1234",<br>  "referenceElement": "store",<br>  "referenceValue": "123"<br>  }<br>  ]<br>  }<br>] |

# API: Delete Users

Deletes security information for the specified users within SIOCS.

**Table 4-268 API Basics**

| | |
|---|---|
| Endpoint URL | /security/users/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | |
| Input | Query parameters |
| Output | N/A |
| Max Response | |

**Table 4-269 Query Parameter Definitions**

| Property | Format | Required | Definition |
|---|---|---|---|


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**Table 4-269 (Cont.) Query Parameter Definitions**

| | | | |
|---|---|---|---|
| userNames | string(text128) | Yes | A list of user names to delete information for.<br>Example:<br><br>{<br>"userNames": [<br>"user123",<br>"user456"<br>]<br>} |

**Table 4-270 Responses**

| Code | Description |
|---|---|
| 202 | Accepted |
| 400 | Bad Request<br>Example:<br><br>[<br>{<br>"errors": [<br>{<br>"code": 1,<br>"description": "AN_ERROR_TOOK_PLACE",<br>"dataElement": "item",<br>"dataValue": "1234",<br>"referenceElement": "store",<br>"referenceValue": "123"<br>}<br>]<br>}<br>] |

# REST Service: Shelf Adjustment

A shelf adjustment moves quantities between locations within the store. A shelf adjustment to move to back room will move quantities from the shop floor to the back room. A shelf adjustment to update the shop floor will update the shop floor positions with the adjustment quantity. A shelf adjustment to update the backroom will adjust the back room quantities.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```


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# Find Adjustment

This section describes the Find Adjustment API. This API finds up to 1,500 shelf adjustments headers for the input criteria.

## Method

```
GET
```

## URL

```
/shelfadjustments
```

## Request Parameters

**Table 4-271 Find Adjustment — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeId | NA | number($int10) (query) | Include only adjustments for this store. |
| status | NA | integer($int2) (query) | Include only adjustments with this status. Valid values are:<br>1 - In Progress<br>2 - Complete<br>Available values : 1, 2 |
| type | NA | integer($int2) (query) | Include only adjustments with this type. Valid values are:<br>1 - Move To Backroom<br>2 - Update Shopfloor<br>3 - Update Backroom<br>Available values : 1, 2, 3 |
| itemId | NA | string($text25) (query) | Include only shelf adjsutments with this item. |
| userName | NA | string($text128) (query) | Include only shelf adjsutments with this username. |
| updateDateFrom | NA | string($date-time) (query) | Include only adjustments with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only adjustments with an update date on or before this date. |

## Responses

This section describes the responses of the Find Adjustment API.


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## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "adjustmentId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "userName": "smith123",
    "createDate": "2025-01-03T13:12:18.180Z",
    "updateDate": "2025-01-03T13:12:18.180Z"
  }
]
```


### Schema — ShelfAdjustmentHeaderIdo

**Table 4-272 ShelfAdjustmentHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| adjustmentId | NA | number($int15) example: 11111 | The unique identifier of the shelf adjustment. |
| storeId | NA | number($int10) example: 5000 | The store of the shelf adjustment. |
| type | NA | integer($int4) example: 1 | The type of shelf adjustment. Valid values are<br>1 - Move To Backroom<br>2 - Update Shopfloor<br>3 - Update Backroom<br>Enum: [ 1, 2, 3 ] |
| status | NA | integer($int4) example: 1 | The current status of the shelf adjustment. Valid values are<br>1 - In Progress<br>2 - Complete<br>Enum:<br>[ 1, 2 ] |
| userName | NA | string($text128) example: smith123 | The name of the user that last updated the shelf adjustment. |
| createDate | NA | string($date-time) | The date the shelf adjustment was created. |


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**Table 4-272 (Cont.) ShelfAdjustmentHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| updateDate | NA | string($date-time) | The date the shelf adjustment was last updated. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Adjustment

This API creates an in progress shelf adjustment.

### Method

`POST`

### URL

`/shelfadjustments`

### Request Parameters

There are no request parameters.

The request body is application/json.

The details of the new shelf adjustment.

### Example Value

```
{
  "storeId": 5000,
  "type": 1,
  "lineItems": true
}
```

### Schema — ShelfAdjustmentCreateIdo


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**Table 4-273 ShelfAdjustmentCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int 10) example: 5000 | The store of the shelf adjustment. |
| type | Yes | integer($int4) example: 1 | The type of shelf adjustment. Valid values are:<br>1 - Move To Backroom<br>2 - Update Shopfloor<br>3 - Update Backroom<br>Enum: [ 1, 2, 3 ] |
| lineItems | Yes | object | A collection of line items on the shelf adjustment. |

**Table 4-274 ShelfAdjustmentCreateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text2 5) example: 11111 | The unique identifier of the item. |
| caseSize | NA | number($dec imal(10,2)) example: 1 | The case size of the item for this record. |
| quantity | Yes | number($dec imal(12,4)) example: 20 | The quantity to adjust. |

## Responses

This section describes the responses of the Create Adjustment API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "adjustmentId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1
  }
]
```


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### Schema — ShelfAdjustmentStatusIdo

**Table 4-275 ShelfAdjustmentStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | NA | number($int15)<br>example: 11111 | The unique identifier of the shelf adjustment. |
| storeId | NA | number($int10)<br>example: 5000 | The store of the shelf adjustment. |
| type | NA | integer($int4)<br>example: 1 | The type of shelf adjustment. Valid values are:<br>1 - Move To Backroom<br>2 - Update Shopfloor<br>3 - Update Backroom<br>Enum: [ 1, 2, 3 ] |
| status | | integer($int4)<br>example: 1 | The current status of the shelf adjustment. Valid values are:<br>1 - In Progress<br>2 – Complete<br>Enum: [ 1, 2 ] |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Adjustment

This API retrieves all the details about a shelf adjustment.

## Method

```
GET
```

## URL

```
/shelfadjustments/{adjustmentId}
```

## Request Parameters


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**Table 4-276 Read Adjustment— Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| adjustmentId | Yes | number ($int15) (path) | The unique identifier of the shelf adjustment. |

## Responses

This section describes the responses of the Read Adjustment API.

### Response Code: 200

The request has been successful.

The media type is application/json.

#### Example Value

```
[
  {
    "adjustmentId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "userName": "smith123",
    "createDate": "2025-01-08T11:10:30.977Z",
    "updateDate": "2025-01-08T11:10:30.977Z",
    "lineItems": [
      {
        "lineId": 11111,
        "itemId": "11111",
        "caseSize": 1,
        "quantity": 20
      }
    ]
  }
]
```

#### Schema — ShelfAdjustmentStatusIdo

**Table 4-277 ShelfAdjustmentStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| adjustmentId | NA | number($int15) example: 11111 | The unique identifier of the shelf adjustment. |
| storeId | NA | number($int10) example: 5000 | The store of the shelf adjustment. |


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**Table 4-277 (Cont.) ShelfAdjustmentStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| type | NA | integer($int4)<br>example: 1 | The type of shelf adjustment. Valid values are:<br>1 - Move To Backroom<br>2 - Update Shopfloor<br>3 - Update Backroom<br>Enum: [ 1, 2, 3 ] |
| status | | integer($int4)<br>example: 1 | The current status of the shelf adjustment. Valid values are:<br>1 - In Progress<br>2 – Complete<br>Enum: [ 1, 2 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Adjustment

This section describes the Update Adjustment API. This API updates an active shelf adjustment.

### Method

`POST`

### URL

`/shelfadjustments/{adjustmentId}`

### Request Parameters

**Table 4-278 Update Adjustment— Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| adjustmentId | yes | integer($int15)<br>(path) | The unique identifier of the shelf adjustment. |


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The request body is application/json.

Shelf adjustment details to update.

## Responses

This section describes the responses of the Update Adjustment API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Adjustment

This section describes the Confirm Adjustment API. This API confirms a shelf adjustment updating the appropriate quantities of inventory position depending on the type of shelf adjustment.

## Method

`POST`

## URL

```
/shelfadjustments/{adjustmentId}/confirm
```

## Request Parameters

**Table 4-279 Confirm Adjustment — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| adjustmentId | yes | integer($int12) (path) | The unique identifier of the shelf adjustment. |

## Responses

This section describes the responses of the Confirm Adjustment API.


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### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Delete Adjustment

This section describes the Delete AdjustmentAPI. This API deletes a shelf adjustment.

### Method

POST

### URL

/shelfadjustments/{adjustmentId}/delete

### Request Parameters

**Table 4-280 Delete Adjustment — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| adjustmentId | yes | integer($int12) (path) | The unique identifier of the shelf adjustment. |

### Responses

This section describes the responses of the Delete Adjustment API.

### Response Code: 204

No Content

### Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Shelf Replenishment

The replenishment process attempts to ensure that the shop floor inventory is set at a level best suited for enticing customers to buy a product and to prevent empty shelves. Shelf replenishment functionality within the mobile application is related to the movement of goods from the back room to the shop floor and shop floor to back room. For example, when a certain soda quantity is low, you can initiate a replenishment process so that more of the soda is moved from the back room. Similarly, if there is excess stock on the shop floor, the mobile application supports processes to move inventory to the back room. Some of the processes require capacity setup and some form of plan-o-gram sequenced data, while others do not. See user's guide for additional information. This service provides the ability to manage shelf replenishment through public interfaces.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Replenishment

This section describes the Find Replenishment API. This API finds up to 10,000 shelf replenishment headers for the input criteria.

### Method

```
GET
```

### URL

```
/shelfreplenishments
```

### Request Parameters

**Table 4-281 Find Replenishment — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeId | NA | number($int10) (query) | Include only replenishments with this store identifier. |


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**Table 4-281 (Cont.) Find Replenishment — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| type | NA | integer($int2) (query) | Include only replenishments with this type. Valid values are:<br>1 - Capacity<br>2 - Display<br>3 - Gap<br>4 - Sales<br>Available values : 1, 2, 3, 4 |
| status | NA | integer($int2) (query) | Include only replenishments with this status. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Complete<br>4 - Canceled<br>Available values : 1, 2, 3, 4 |
| mode | NA | integer($int2) (query) | Include only replenishments with this mode. Valid values are:<br>1 - End of Day<br>2 - Within Day<br>Available values : 1, 2 |
| productGroupId | NA | number($int12) (query) | Include only replenishments with this product group. |
| departmentId | NA | number($int15) (query) | Include only replenishments with this department. |
| replenishmentGapId | NA | number($int15) (query) | Include only replenishments with this replenishment gap. |
| statusDateFrom | NA | string($date-time) (query) | Include only replenishments with a status date on or after this date. |
| statusDateTo | NA | string($date-time) (query) | Include only replenishments with a status date on or before this date. |
| createDateFrom | NA | string($date-time) (query) | Include only replenishments with an create date on or after this date. |
| createDateTo | NA | string($date-time) (query) | Include only replenishments with an create date on or before this date. |
| itemId | NA | string($text25) (query) | Include only shelf replenishments with this item. |

## Responses

This section describes the responses of the Find Replenishment API.

### Response Code: 200

The request has been successful.

The media type is application/json.


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## Example Value


```
[
  {
    "replenishmentId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "statusDate": "2025-01-03T10:08:47.605Z",
    "mode": 1,
    "createUser": "smith123",
    "createDate": "2025-01-03T10:08:47.605Z"
  }
]
```


## Schema — ShelfReplenishmentHeaderIdo

**Table 4-282 ShelfReplenishmentHeaderdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| replenishmentId | NA | number($int15) example: 11111 | The unique identifier of the shelf replenishment. |
| storeId | NA | number($int10) example: 5000 | The store of the shelf replenishment. |
| type | NA | integer($int4) example: 1 | The type of shelf replenishment. Valid values are:<br>1 - Capacity<br>2 - Display<br>3 - Gap<br>4 - Sales<br>Enum: [ 1, 2, 3, 4 ] |
| status | NA | integer($int4) example: 1 | The current status of the shelf replenishment. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Complete<br>4 - Canceled<br>Enum: [ 1, 2, 3, 4 ] |
| statusDate | NA | string($date-time) | string($date-time) The date the last time the status of the shelf replenishment was altered. |
| mode | NA | integer($int4) example: 1 | The current status of the shelf replenishment. Valid values are:<br>1 - End of Day<br>2 - Within Day<br>Enum: [ 1, 2 ] |


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**Table 4-282 (Cont.) ShelfReplenishmentHeaderdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| createUser | NA | string($text128) example: smith123 | The name of the user that created the shelf replenishment. |
| createDate | NA | string($date-time) | The date the shelf replenishment was created. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Replenishment

This API creates an in progress shelf replenishment.

### Method

```
POST
```

### URL

```
/shelfreplenishments
```

### Request Parameters

There are no request parameters.

The request body is application/json.

The details of the new shelf replenishment..

### Example Value

```
{
  "storeId": 5000,
  "type": 1,
  "checkAvailableStockOnHand": true,
  "productGroupId": 5683232,
  "replenishmentGapId": 5834134,
  "departmentId": 1000,
```


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```
  "classId": 2000,
  "subclassId": 3000,
  "mode": 1
}
```

## Schema — ShelfReplenishmentCreateIdo

**Table 4-283 ShelfReplenishmentCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 5000 | The store of the shelf adjustment. |
| type | Yes | integer($int4) example: 1 | The type of shelf replenishment. Valid values are:<br>1 - Capacity<br>2 - Display<br>3 - Gap<br>4 - Sales<br>Enum: [ 1, 2, 3, 4 ] |
| checkAvailableStockOnHand | NA | boolean example: true | True indicates that items with no available stock will not be placed on the replenishment list. If false, they will be included. |
| productGroupId | NA | number($int12) example: 5683232 | The identifier of an associated product group. |
| replenishmentGapId | NA | number($int15) example: 5834134 | The identifier of an associated replenishment gap. |
| departmentId | NA | number($int12) example: 1000 | The identifier of a department. |
| classId | NA | number($int12) example: 2000 | The identifier of a class within the department. |
| subclassId | NA | number($int12) example: 3000 | The identifier of a subclass within the class. |
| mode | NA | integer($int4) example: 1 | The mode of the shelf replenishment. Valid values are:<br>1 - End of Day<br>2 - Within Day<br>Enum: [ 1, 2 ] |

# Responses

This section describes the responses of the Import Allocation API.

## Response Code: 200


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The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "replenishmentId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1
  }
]
```

### Schema — ShelfReplenishmentStatusIdo

**Table 4-284 ShelfReplenishmentStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| replenishmentId | NA | number($int15)<br>example: 11111 | The unique identifier of the shelf replenishment. |
| storeId | NA | number($int10)<br>example: 5000 | The store of the shelf adjustment. |
| type | NA | integer($int4)<br>example: 1 | The type of shelf replenishment. Valid values are:<br>1 - Capacity<br>2 - Display<br>3 - Gap<br>4 - Sales<br>Enum: [ 1, 2, 3, 4 ] |
| status | NA | integer($int4)<br>example: 1 | The current status of the shelf replenishment. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Complete<br>4 - Canceled<br>Enum: [ 1, 2, 3, 4 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Replenishment

This API retrieves all the details about a shelf replenishment.


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## Method

```
GET
```

## URL

```
/shelfreplenishments/{replenishmentId}
```

## Request Parameters

**Table 4-285 Read Replenishment— Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| replenishmentId | Yes | number ($int15) (path) | The unique identifier of the shelf replenishment. |

## Responses

This section describes the responses of the Read Replenishment API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "replenishmentId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "statusDate": "2025-01-03T11:46:50.199Z",
    "mode": 1,
    "productGroupId": 5683232,
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000,
    "replenishmentGapId": 5834134,
    "transactionEventId": 23894134,
    "transactionEventDescription": "Flash Sale",
    "createUser": "smith123",
    "createDate": "2025-01-03T11:46:50.199Z",
```



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```
    "lineItems": [
      {
        "lineId": 11111,
        "itemId": "200167123",
        "pickFromArea": 1,
        "pickFromRequest": 20,
        "pickAount": 10,
        "caseSize": 1,
        "unitOfMeasure": "LBS",
        "substituteLineId": 3243
      }
    ]
  }
]
```

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Replenishment

This section describes the Update Replenishment API. This API updates an active shelf replenishment.

### Method

```
POST
```

### URL

```
/shelfreplenishments/{replenishmentId}
```

### Request Parameters

**Table 4-286 Update Replenishment — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| replenishmentId | yes | integer($int15) (path) | The unique identifier of the shelf replenishment. |

The request body is application/json.

Shelf replenishment details to update.


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## Responses

This section describes the responses of the Update Replenishment API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Replenishment

This section describes the Confirm Replenishment API. This API confirms a shelf replenishment moving the inventory.

## Method

POST

## URL

```
/shelfreplenishments/{replenishmentId}/confirm
```

## Request Parameters

**Table 4-287 Confirm Replenishment — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| replenishmentId | yes | integer($int15) (path) | The unique identifier of the shelf replenishment. |

## Responses

This section describes the responses of the Confirm Replenishment API.

### Response Code: 204


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No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Cancel Replenishment

This section describes the Cancel Replenishment API. This API cancels a shelf replenishment.

### Method

`POST`

### URL

`/shelfreplenishments/{replenishmentId}/cancel`

### Request Parameters

**Table 4-288 Cancel Replenishment — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| replenishmentId | yes | integer($int15) (path) | The unique identifier of the shelf replenishment. |

### Responses

This section describes the responses of the Cancel Replenishment API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# REST Service: Shelf Replenishment Gap

The gap scanning method is the easiest method of all the various types of shelf replenishment. With this method, you scan the goods that need replenishment and a replenishment list is created from the units scanned. The system uses this replenishment list to move the goods from the back room to the shop floor based on back room availability. The reason to have a separate process between scanning and generating is that one user can create a list and another user can execute the shelf replenishment allowing for distribution of workload. Since this process does not have a dependency with either sales or capacity, it gives an advantage to the retailer to move goods without any complex setup.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Gap

This section describes the Find Gap API. This API finds up to 10,000 replenishment gap summary headers for the input criteria.

### Method

```
GET
```

### URL

```
/replenishgaps
```

### Request Parameters

**Table 4-289 Find Gap — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeId | NA | number($int10) (query) | Include only replenishment gaps for this store. |
| status | NA | integer($int2) (query) | Include only replenishment gaps with this status. Valid values are:<br>1 - In Progress<br>2 - Complete<br>Available values : 1, 2 |


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**Table 4-289 (Cont.) Find Gap — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| type | NA | integer($int2) (query) | Include only replenishment gaps with this type. Valid values are:<br>1 - Display Scan<br>2 - Gap Scan Backroom<br>Available values : 1, 2 |
| itemId | NA | string($text25) (query) | Include only replenishment gaps with this item. |
| updateDateFrom | NA | string($date-time) (query) | Include only replenishment gaps with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only replenishment gaps with an update date on or before this date. |

## Responses

This section describes the responses of the Find Gap API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "gapId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "userName": "smith123",
    "createDate": "2024-11-12T11:27:17.130Z",
    "updateDate": "2024-11-12T11:27:17.130Z"
  }
]
```

### Schema — ShelfReplenishmentGapHearderIdo

**Table 4-290 ShelfReplenishmentGapHearderIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| gapId | NA | number($int15) example: 11111 | The unique identifier of the replenishment gap. |


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**Table 4-290 (Cont.) ShelfReplenishmentGapHearderIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 5000 | The store identifier of the replenishment gap. |
| type | NA | integer($int4) example: 1 | The type of replenishment gap. Valid values are:<br>1 - Display Scan<br>2 - Gap Scan<br>Enum: [ 1, 2 ]<br>Enum: [ 1, 2 ] |
| status | NA | integer($int4) example: 1 | The current status of the replenishment gap. Valid values are:<br>1 - In Progress<br>2 - Complete |
| userName | NA | string($text128) example: smith123 | The name of the user that last updated the replenishment gap. |
| createDate | NA | string($date-time) | The date the replenishment gap was created. |
| updateDate | NA | string($date-time) | The date the replenishment gap was last updated. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Gap

This section describes the Create Gap API. This API creates an in progress shelf replenishment gap.

### Method

```
POST
```

### URL

```
/replenishgaps
```

### Request Parameters


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There are no request parameters.

The request body is application/json.

The details of the new shelf replenishment gap.

## Example Value

```
{
  "storeId": 5000,
  "type": 1,
  "lineItems": [
    {
      "itemId": "11111",
      "caseSize": 1,
      "suggestedQuantity": 20
    }
  ]
}
```

## Schema — ShelfReplenishmentGapCreateIdo

**Table 4-291 ShelfReplenishmentGapCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | yes | number($int 10) example: 5000 | The store of the replenishment gap. |
| type | yes | integer($int 4) example: 1 | The type of replenishment gap. Valid values are:<br>1 - Display Scan<br>2 - Gap Scan<br>Enum: [ 1, 2 ] |
| lineItems | yes | object | A collection of line items on the shelf replenishment gap. |

**Table 4-292 ShelfReplenishmentGapCreateItemIdo — Object**

| | | | |
|---|---|---|---|
| itemId | yes | string($text2 5) example: 11111 | The unique identifier of the item. |
| caseSize | NA | number($de cimal(10,2)) example: 1 | The case size of the item for this record. |
| suggestedQ uantity | yes | number($de cimal(20,4)) example: 20 | The quantity suggested to repelnish for the item. |

## Responses


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This section describes the responses of the Create Gap API.

## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "gapId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1
  }
]
```

### Schema — ShelfReplenishmentGapStatusIdo

**Table 4-293 ShelfReplenishmentGapStatusIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| gapId | NA | number($int15) example: 11111 | The unique identifier of the replenishment gap. |
| storeId | NA | number($int10) example: 5000 | The store of the replenishment gap. |
| type | NA | integer($int4) example: 1 | The type of replenishment gap. Valid values are:<br>1 - Display Scan<br>2 - Gap Scan<br>Enum: [ 1, 2 ] |
| status | NA | integer($int4) example: 1 | The current status of the replenishment gap. Valid values are:<br>1 - In Progress<br>2 - Complete<br>Enum: [ 1, 2 ] |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# Read Gap

This section describes the Read Gap API. This API retrieves all the details about a shelf replenishment gap.

## Method

```
GET
```

## URL

```
/replenishgaps/{gapId}
```

## Request Parameters

**Table 4-294 Read Gap — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| gapId | yes | number($int15) (path) | The unique identifier of the replenishment gap. |

## Responses

This section describes the responses of the Read Gap API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "gapId": 11111,
    "storeId": 5000,
    "type": 1,
    "status": 1,
    "userName": "smith123",
    "createDate": "2024-11-14T13:43:09.417Z",
    "updateDate": "2024-11-14T13:43:09.417Z",
    "lineItems": [
      {
```



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```
        "lineId": 11111,
        "itemId": "11111",
        "caseSize": 1,
        "suggestedQuantity": 20
      }
    ]
  }
]
```

## Schema — ShelfReplenishmentGapIdo

**Table 4-295 ShelfReplenishmentGapIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| gapId | NA | number($int15) example: 11111 | The unique identifier of the replenishment gap. |
| storeId | NA | number($int10) example: 5000 | The store of the replenishment gap. |
| type | NA | integer($int4) example: 1 | The type of replenishment gap. Valid values are:<br>1 - Display Scan<br>2 - Gap Scan<br>Enum: [ 1, 2 ] |
| status | NA | integer($int4) example: 1 | The current status of the replenishment gap. Valid values are:<br>2 - Complete<br>1 - In Progress<br>Enum: [ 1, 2 ] |
| userName | NA | string($text128) example: smith123 | The name of the user that last updated the replenishment gap. |
| createDate | NA | string($date-time) | The date the replenishment gap was created. |
| updateDate | NA | string($date-time) | The date the replenishment gap was last updated. |
| lineItems | NA | object | A collection of line items on the replenishment gap. |

**Table 4-296 ShelfReplenishmentGapLineItemIdo — Object**

| | | | |
|---|---|---|---|
| lineId | NA | number($int15) example: 11111 | The unique identifier of the line item record. |
| itemId | NA | string($text25) example: 11111 | The unique identifier of the item. |
| caseSize | NA | number($decimal(10, 2)) example: 1 | The case size of the item for this record. |
| suggestedQuantity | NA | number($decimal(20, 4)) example: 20 | The quantity suggested to replenish for the item. |

## Response Code: 400


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Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Gap

This section describes the Update Gap API. This API updates an active shelf replenishment gap.

## Method

```
POST
```

## URL

```
/replenishgaps/{gapId}
```

## Request Parameters

**Table 4-297 Update Gap — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| gapId | yes | number($int15) (path) | The unique identifier of the shelf replenishment gap. |

The request body is application/json.

Shelf replenishment gap details to update.

## Example Value

```
{
  "lineItems": true
}
```

## Schema — ShelfReplenishmentGapUpdateIdo

**Table 4-298 ShelfReplenishmentGapUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineItems | yes | object | A collection of line items on the shelf replenishment gap. |


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**Table 4-299 ShelfReplenishmentGapUpdateItemIdo — Object**

| | | | |
|---|---|---|---|
| itemId | Yes | string($text25) example: 11111 | The unique identifier of the item. |
| caseSize | NA | number($decimal(10,2)) example: 1 | The case size of the item for this record. |
| suggestedQuantity | Yes | number($decimal(20,4)) example: 20 | The quantity suggested for the item. Setting the quantity to zero will remove the line item. |

## Responses

This section describes the responses of the Update Gap API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Delete Gap

This section describes the Delete Gap API. This API deletes a shelf replenishment gap.

## Method

```
POST
```

## URL

```
/replenishgaps/{gapId}/delete
```

## Request Parameters


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**Table 4-300 Delete Gap — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| GapId | yes | number($int15) (path) | The unique identifier of the shelf replenishment gap. |

## Responses

This section describes the responses of the Delete Gap API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Shipping

This service integrates various shipping support information with an external application. This is primarily various lookups of shipping data such as carriers and package sizes to use within shipping transactions.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/shipping

## APIs

**Table 4-301 APIs**

| API | Description |
|---|---|
| findCarriers | Finds all the carriers available for shipping. |
| findCarrierServices | Finds all the carrier services available for shipping. |
| findCartonSizes | Finds the available sizes of cartons for shipping. |
| findWeightUoms | Finds all the various units of measurement of the carton measurements. |
| findMotives | Finds all the motives available for a shipping type. |


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# API: findCarriers

This API is used to find all the carriers available for shipping.

**Table 4-302 API Basics**

| | |
|---|---|
| Endpoint URL | /carriers |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Output | Collection of carriers |

**Table 4-303 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| carrierId | Long(10) | The unique identifier of the carrier. |
| code | String(4) | A unique character code for the carrier. |
| description | String(128) | A description or name of the carrier. |
| manifestType | Integer(1) | The carrier delivery manifest type (see Additional Data Definitions) |

# API: findCarrierServices

This API is used to find all the carrier services available for shipping.

**Table 4-304 API Basics**

| | |
|---|---|
| Endpoint URL | /carrierservices |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Output | Collection of carriers |

**Table 4-305 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| carrierServiceId | Long(10) | The unique identifier of the carrier service. |
| code | String(6) | A unique character code for the carrier service. |
| description | String(128) | A description or name of the carrier service. |
| averageDeliveryDays | Integer(4) | The average number of days it takes to deliver using this service. |
| carrierId | Long(10) | The unique identifier of the carrier this service is used with. |
| defaultService | Boolean | True is this is the default service type for the carrier, false otherwise. |


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**Table 4-305 (Cont.) Output Data Definition**

| | | |
|---|---|---|
| weightRequired | Boolean | True is weight is required for this carrier service, false otherwise. |
| cartonSizeRequired | Boolean | True if dimensions/size is required for this carrier service, false otherwise. |

# API: findCartonSizes

This API is used to find all the carton services available for shipping at the particular store.

**Table 4-306 API Basics**

| | |
|---|---|
| Endpoint URL | /cartonsizes/{storeId} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Path Parameter | The store identifier of the store to retrieve carton sizes for. |
| Output | Collection of carton sizes |

**Table 4-307 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| cartonSizeId | Long(12) | A unique identifier of this particular carton size definition. |
| storeId | Long(10) | The store identifier the carton size is used at. |
| description | String(120) | A description of the carton size. |
| height | BigDecimal(12,4) | The height of the carton in units of measure. |
| width | BigDecimal(12,4) | The width of the carton in units of measure. |
| length | BigDecimal(12,4) | The length of the carton in units of measure. |
| unitOfMeasure | String(4) | The unit of measure of the height, width, and length. |

# API: findWeightUoms

This API is used to find all the weight unit of measures available for shipping.

**Table 4-308 API Basics**

| | |
|---|---|
| Endpoint URL | /weightuoms |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Output | Collection of shipping weight units of measure |


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| Attribute | Type | Definition |
|---|---|---|
| uom | String(4) | The unit of measure |
| description | String(120) | The unit of measure description |

## API: findMotives

This API is used to find all the motives available for a shipping type. See index for available shipment types.

**Table 4-309 API Basics**

| | |
|---|---|
| Endpoint URL | /motives/(shipmentType} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Path Parameter | The shipment type to retrieve motives for (see Additional Data Definitions) |
| Output | Collection of carton sizes |

**Table 4-310 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| id | Long(18) | The unique identifier of the shipping motive |
| code | String(6) | The external code of the shipping motive |
| description | String(120) | A description of the motive |
| sequence | Long | The sequence in which the motive should appear in a list |

## Index

| ID | Description |
|---|---|
| 1 | Parcel |
| 2 | Home Fleet |
| 3 | Other |

| ID | Description |
|---|---|
| 1 | Fulfillment Order |
| 2 | Store Transfer |
| 3 | Vendor Return |

# REST Service: Stock Count


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Stock Counts allow the user to count the inventory in the store, determine discrepancy of items, and authorize new inventory positions triggering adjustments to bring the inventory into alignment. There are four main types of stock counts: ad hoc, unit, problem line, and unit-amount. Ad Hoc stock counts are not schedule, but rather performed at random times when a user decides to correct inventory. Unit stock counts must be secheduled. They can be scheduled and executed the same day. A problem line stock count features items that have inventory positions issues, such as having negative inventory. A problem line is also scheduled and follow the same overall workflows as unit counts. Unit and amount counts must be scheduled for a single specific date. These stock counts must be scheduled at least one day ahead of time. When the count is scheduled, it is sent to the merchandising system so that it can also create a corresponding stock count. The service defines operations to manage stock count information by integration with an external system.

# Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

# Find Stock Counts

This section describes the Find Stock Counts API. This API finds up to 1,000 stock counts matching the input criteria.

## Method

```
GET
```

## URL

```
/stockcounts
```

## Request Parameters

**Table 4-311 Find Stock Counts — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeId | NA | integer($int10) (query) | Include only stock counts for this store. |
| scheduleDate | NA | string($date-time) (query) | Include only stock counts that are scheduled to be executed on this date. |


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**Table 4-311 (Cont.) Find Stock Counts — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| phase | NA | integer($int4) (query) | Include only stock counts in this phase. Valid values are:<br>1 - Count<br>2 - Recount<br>3 - Authorize<br>4 - Future<br>Available values : 1, 2, 3, 4 |
| status | NA | integer($int4) (query) | Include only stock counts in this status. Valid values are:<br>1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Recount Scheduled<br>6 - Recount In Progress<br>7 - Recount Complete<br>8 - Approval Scheduled<br>9 - Approval In Progress<br>10 - Approval Processing<br>11 - Approval Authorized<br>12 - Approval Complete<br>13 - Canceled<br>Available values : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 |
| departmentId | NA | number($int12) (query) | Include only stock counts associated to this department. |
| classId | NA | number($int12) (query) | Include only stock counts associated to this class. A department is required if this attribute is used. |
| subclassId | NA | number($int12) (query) | Include only stock counts associated to this subclass. A class is required if this attribute is used. |

## Responses

This section describes the responses of the Find Stock Counts API.

### Response Code: 200

The request has been successful.

The media type is application/json.


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## Example Value


```
[
  {
    "stockCountId": 11111,
    "storeId": 5000,
    "description": "Weekly Department Count",
    "productGroupId": 966400,
    "productGroupDescription": "Clothing Department",
    "productGroupScheduleId": 966400,
    "type": 1,
    "status": 1,
    "phase": 1,
    "scheduleDate": "2025-01-16T13:19:10.243Z",
    "startDateTime": "2025-01-16T13:19:10.243Z",
    "updateDateTime": "2025-01-16T13:19:10.243Z",
    "totalItemCount": 2000,
    "totalLeftToCount": 950
  }
]
```


## Schema — StockCountHeaderIdo

**Table 4-312 StockCountHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| stockCountId | NA | number($int12) example: 11111 | The unique identifier of the stock count. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store. |
| description | NA | string($text255) example: Weekly Department Count | A description of the stock count. |
| productGroupId | NA | number($int12) example: 966400 | The identifier of the product group |
| productGroupDescription | NA | string($text100) example: Clothing Department | The description of the product group. |
| productGroupScheduleId | NA | number($int12) example: 966400 | The identifier of the product group schedule. |


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**Table 4-312 (Cont.) StockCountHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| type | NA | integer($int4) example: 1 | The type of the stock count. Valid values are:<br>1 - Unit<br>2 - Unit and Amount<br>3 - Problem Line<br>4 - Adhoc<br>Enum: [ 1, 2, 3, 4 ] |
| status | NA | integer($int4) example: 1 | The current status of the stock count. Valid values are:<br>1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Recount Scheduled<br>6 - Recount In Progress<br>7 - Recount Complete<br>8 - Approval Scheduled<br>9 - Approval In Progress<br>10 - Approval Processing<br>11 - Approval Authorized<br>12 - Approval Complete<br>13 - Canceled<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 ] |
| phase | NA | integer($int4) example: 1 | The current phase of the stock count. Valid values are:<br>1 - Count<br>2 - Recount<br>3 - Authorize<br>4 - Future<br>Enum: [ 1, 2, 3, 4 |
| scheduleDate | NA | string($date-time) | The date the stock count is scheduled to be executed on. |
| startDateTime | NA | string($date-time) | The time stamp when the stock count was started. |
| updateDateTime | NA | string($date-time) | The time stamp when the stock count was last updated. |
| totalItemCount | NA | number($int12) example: 2000 | The total number of items on the stock count. |
| totalLeftToCount | NA | number($int12) example: 950 | The total number of items left to count. |

## Response Code: 400


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Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Stock Count

This section describes the Read Stock Count API. This API reads information about a stock count. It includes the information for the stock count header as well as the header information for each stock count child. It does not include the item detail. To retrieve detailed information, the stock count child must be read individually.

## Method

```
GET
```

## URL

```
/stockcounts/{stockCountId}
```

## Request Parameters

**Table 4-313 Read Stock Count — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| stockCountId | Yes | number($int12) (path) | The stock count identifier. |

## Responses

This section describes the responses of the Read Stock Count API.

### Response Code: 200

The request has been successful.

The media type is application/json.

#### Example Value

```
[
  {
    "stockCountId": 11111,
    "storeId": 5000,
    "description": "Weekly Department Count",
    "productGroupId": 966400,
```


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```
    "productGroupDescription": "Clothing Department",
    "productGroupScheduleId": 966400,
    "type": 1,
    "status": 1,
    "phase": 1,
    "scheduleDate": "2025-01-16T13:48:59.866Z",
    "startDateTime": "2025-01-16T13:48:59.866Z",
    "updateDateTime": "2025-01-16T13:48:59.866Z",
    "exportUser": "smith123",
    "totalItemCount": 2000,
    "totalLeftToCount": 950,
    "stockCountTimeframe": 1,
    "varianceCount": 5,
    "variancePercent": 2.5,
    "varianceValue": 2.5,
    "countingMethod": 1,
    "breakdownType": 1,
    "recountRequired": true,
    "autoAuthorize": false,
    "includeAllItems": true,
    "includeActiveItems": false,
    "includeDiscontinuedItems": true,
    "includeDeletedItems": true,
    "includeSohZero": false,
    "includeSohPositive": true,
    "includeSohNegative": false,
    "problemLinePickLessSuggested": true,
    "problemLineReplenishLessSuggested": true,
    "problemLineReplenishNegativeAvailable": false,
    "problemLineReplenishDiscrepantUin": true,
    "adhocItemLock": false,
    "childCounts": [
      {
        "childCountId": 1223465,
        "locationId": "738429",
        "locationArea": 45,
        "description": "Frozen Foods",
        "breakdownDescription": "123 - Pies",
        "phase": 1,
        "status": 1,
        "countUser": "smith123",
        "recountUser": "smith123",
        "authorizeUser": "jones123",
        "totalItemCount": 2000,
        "totalLeftToCount": 950,
        "countSnapshotDate": "2025-01-16T13:48:59.866Z",
        "recountSnapshotDate": "2025-01-16T13:48:59.866Z",
        "authorizedDate": "2025-01-16T13:48:59.866Z"
      }
    ]
  }
]
```


## Schema — StockCountIdo


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**Table 4-314 StockCountIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| stockCountId | NA | number($int12) example: 11111 | The unique identifier of the stock count. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store. |
| description | NA | string($text255) example: Weekly Department Count | A description of the stock count. |
| productGroupId | NA | number($int12) example: 966400 | The identifier of the product group. |
| productGroupDescription | NA | string($text100) example: Clothing Department | The description of the product group. |
| productGroupScheduleId | NA | number($int12) example: 966400 | The identifier of the product group schedule. |
| type | NA | integer($int4) example: 1 | The type of the stock count. Valid values are:<br>1 - Unit<br>2 - Unit and Amount<br>3 - Problem Line<br>4 - Adhoc<br>Enum: [ 1, 2, 3, 4 ] |
| status | NA | integer($int4) example: 1 | 1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Recount Scheduled<br>6 - Recount In Progress<br>7 - Recount Complete<br>8 - Approval Scheduled<br>9 - Approval In Progress<br>10 - Approval Processing<br>11 - Approval Authorized<br>12 - Approval Complete<br>13 - Canceled<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 ] |
| phase | NA | integer($int4) example: 1 | 1 - Count<br>2 - Recount<br>3 - Authorize<br>4 - Future<br>Enum: [ 1, 2, 3, 4 ] |


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**Table 4-314 (Cont.) StockCountIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| scheduleDate | NA | string($date-time) | The date the stock count is scheduled to be executed on. |
| startDateTime | NA | string($date-time) | The time stamp when the stock count was started. |
| updateDateTime | NA | string($date-time) | The time stamp when the stock count was last updated. |
| exportUser | NA | string($text128) example: smith12 | The user that exported the stock count. |
| totalItemCount | NA | number($int12) example: 2000 | The total number of items on the stock count. |
| totalLeftToCount | NA | number($int12) example: 950 | The total number of items left to count. |
| stockCountTimeframe | NA | integer($int1) example: 1 | 1 - Before Store Open<br>2 - After Store Closed<br>3 - None<br>Enum: [ 1, 2, 3 ] |
| varianceCount | NA | number($int12) example: 5 | The amount in standard unit of measure that the count can vary before being considered discrepant. |
| variancePercent | NA | number($decimal(12,4)) example: 2.5 | The percent in standard unit of measure that the count can vary before being considered discrepant. |
| varianceValue | NA | number($decimal(12,4)) example: 2.5 | The value variance allowed before the count is considered discrepant. |
| countingMethod | NA | integer($int2) example: 1 | 1 - Guided<br>2 - Unguided<br>3 - Third Party<br>4 - Auto<br>Enum: [ 1, 2, 3, 4 ] |
| breakdownType | NA | integer($int2) example: 1 | 1 - Department<br>2 - Class<br>3 - Subclass<br>4 - Location<br>5 - None<br>Enum: [ 1, 2, 3, 4, 5 ] |
| recountRequired | NA | boolean example: true | True indicates stock count should be recounted. |
| autoAuthorize | NA | boolean example: false | True indicates stock count should automatically authorize after count. |
| includeAllItems | NA | boolean example: true | True indicates stock count should include all items. |


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**Table 4-314 (Cont.) StockCountIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| includeActiveItems | NA | boolean example: false | True indicates stock count should include active items. |
| includeDiscontinuedItems | NA | boolean example: true | True indicates stock count should include inactive items. |
| includeDeletedItems | NA | boolean example: true | True indicates stock count should include deleted items. |
| includeSohZero | NA | boolean example: false | True indicates stock count should include zero stock on hand items. |
| includeSohPositive | NA | boolean example: true | True indicates stock count should include positive stock on hand items. |
| includeSohNegative | NA | boolean example: false | True indicates stock count should include negative stock on hand items. |
| problemLinePickLessSuggested | NA | boolean example: true | True indicates stock count should include pick lists less than suggested amounts. |
| problemLineReplenishLessSuggested | NA | boolean example: true | True indicates stock count should include shelf replenishments that are less than the suggested amount. |
| problemLineReplenishNegativeAvailable | NA | boolean example: false | True indicates stock count should include items with negative available quantities. |
| problemLineReplenishDiscrepantUin | NA | boolean example: true | True indicates stock count should include UIN discrepancies. |
| adhocItemLock | NA | boolean example: false | True indicates an ad-hoc count is locked and new items can no longer be added. |
| childCounts | NA | object | A list of child stock counts that organize the items for counting. |

**Table 4-315 StockCounChildHeadertIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| childCountId | NA | number($int12) example: 1223465 | The unique identifier of the stock count child. |
| locationId | NA | string($text128) example: 738429 | The unique identifier of the sequence location being counted. |
| locationArea | NA | integer($int9) example: 45 | An area number associated with the location. |


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**Table 4-315 (Cont.) StockCounChildHeadertIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| description | NA | string($text1000) example: Frozen Foods | The description of the stock count location. |
| breakdownDescription | NA | string($text30) example: 123 – Pies | The description of a breakdown sub-location within the stock count location. |
| phase | NA | integer($int4) example: 1 | 1 - Count<br>2 - Recount<br>3 - Authorize<br>4 - Future<br>Enum: [ 1, 2, 3, 4 ] |
| status | NA | integer($int4) example: 1 | 1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Recount Scheduled<br>6 - Recount In Progress<br>7 - Recount Complete<br>8 - Approval Scheduled<br>9 - Approval In Progress<br>10 - Approval Processing<br>11 - Approval Authorized<br>12 - Approval Complete<br>13 - Canceled<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 ] |
| countUser | NA | string($text128) example: smith123 | The user that performed the count in this location. |
| recountUser | NA | string($text128) example: smith123 | The user that performed the recount in this location. |
| authorizeUser | NA | string($text128) example: jones123 | The user that performed the authorization in this location. |
| totalItemCount | NA | number($int12) example: 2000 | The total number of items in the location. |
| totalLeftToCount | NA | number($int12) example: 950 | The items remaining to be counted in the location. |
| countSnapshotDate | NA | string($date-time) | The time stamp when this child had its count snapshot taken. |
| recountSnapshotDate | NA | string($date-time) | The time stamp when this child had its recount snapshot taken. |
| authorizedDate | NA | string($date-time) | The time stamp when this child was authorized. |


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Snapshot Stock Count

Snapshots a stock count capturing the current stock on hand quantity as a snapshot quantity for each item on the count. The process of doing a snapshot first determines whether or not the stock count needs a snapshot and only snapshots a stock count or stock count childs that need a snapshot. However, if the stock count or stock count child does not need a snapshot, the service is still considered successful as the snapshot exists.

### Method

`POST`

### URL

`/stockcounts/{stockCountId}/snapshot`

### Request Parameters

**Table 4-316 Snapshot Stock Count — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| stockCountId | Yes | number($int12) (path) | The stock count identifier. |

### Responses

This section describes the responses of the Snapshot Stock Count API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# Cancel Stock Count

This section describes the Cancel Stock Count API. This API cancels a stock count if it has not begun approval processing. If a unit and amount stock count is canceled, it will notify merchandising of the cancellation.

## Method

`POST`

## URL

`/stockcounts/{stockCountId}/cancel`

## Request Parameters

**Table 4-317 Cancel Stock Count — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| stockCountId | Yes | number($int12) (path) | The stock count identifier. |

## Responses

This section describes the responses of the Cancel Stock Count API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Stock Count Child

This section describes the Read Stock Count Child API. This API reads information about a stock count child, including all its items.


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## Method

```
GET
```

## URL

```
/stockcounts/childs/{stockCountChildId}
```

## Request Parameters

**Table 4-318 Read Stock Count Child — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| stockCountChildId | Yes | number($int12) (path) | The stock count child identifier. |

## Responses

This section describes the responses of the Read Stock Count Child API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "childCountId": 1223465,
    "locationId": "738429",
    "locationArea": 45,
    "description": "Frozen Foods",
    "breakdownDescription": "123 - Pies",
    "phase": 1,
    "status": 1,
    "countUser": "smith123",
    "recountUser": "smith123",
    "authorizeUser": "jones123",
    "totalItemCount": 2000,
    "totalLeftToCount": 950,
    "countSnapshotDate": "2025-01-16T14:34:40.120Z",
    "recountSnapshotDate": "2025-01-16T14:34:40.120Z",
    "authorizedDate": "2025-01-16T14:34:40.120Z",
    "lineItems": [
```



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```
      {
        "lineId": 1223465,
        "itemId": "20045673",
        "departmentId": 2000,
        "classId": 3000,
        "subclassId": 4000,
        "primaryLocation": true,
        "multiLocated": false,
        "discrepant": true,
        "breakableComponent": false,
        "countSnapshot": 100,
        "recountSnapshot": 110,
        "quantityCounted": 99,
        "quantityRecounted": 101,
        "quantityAuthorized": 101,
        "quantityCountedTotal": 99,
        "quantityRecountedTotal": 99,
        "countedDateTime": "2025-01-16T14:34:40.120Z",
        "recountedDateTime": "2025-01-16T14:34:40.120Z",
        "authorizedDateTime": "2025-01-16T14:34:40.120Z",
        "snapshotDateTime": "2025-01-16T14:34:40.120Z",
        "priceType": 1,
        "priceCurrency": "USD",
        "priceValue": 12.99,
        "uins": [
          {
            "uin": "200456734823",
            "uinId": 1223465,
            "snapshotStatus": 1
          }
        ],
        "epcs": [
          {
            "epc": "2004435813456734700",
            "scanDateTime": "2025-01-16T14:34:40.120Z"
          }
        ]
      }
    ]
  }
]
```


## Schema — StockCountChildIdo

**Table 4-319 StockCountChildIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| childCountId | NA | number($int12) example: 1223465 | The unique identifier of the stock count child. |
| locationId | NA | string($text128) example: 738429 | The unique identifier of the sequence location being counted. |


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**Table 4-319 (Cont.) StockCountChildIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| locationArea | NA | integer($int9) example: 45 | An area number associated with the location. |
| description | NA | string($text1000) example: Frozen Foods | The description of the stock count location. |
| breakdownDescription | NA | string($text30) example: 123 – Pies | The description of a breakdown sub-location within the stock count location. |
| phase | NA | integer($int4) example: 1 | 1 - Count<br>2 - Recount<br>3 - Authorize<br>4 - Future<br>Enum: [ 1, 2, 3, 4 ] |
| status | NA | integer($int4) example: 1 | 1 - New<br>2 - Count Scheduled<br>3 - Count In Progress<br>4 - Count Complete<br>5 - Recount Scheduled<br>6 - Recount In Progress<br>7 - Recount Complete<br>8 - Approval Scheduled<br>9 - Approval In Progress<br>10 - Approval Processing<br>11 - Approval Authorized<br>12 - Approval Complete<br>13 - Canceled<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 ] |
| countUser | NA | string($text128) example: smith123 | The user that performed the count in this location. |
| recountUser | NA | string($text128) example: smith123 | The user that performed the recount in this location. |
| authorizeUser | NA | string($text128) example: jones123 | The user that performed the authorization in this location. |
| totalItemCount | NA | number($int12) example: 2000 | The total number of items in the location. |
| totalLeftToCount | NA | number($int12) example: 950 | The items remaining to be counted in the location. |
| countSnapshotDate | NA | string($date-time) | The time stamp when this child had its count snapshot taken. |
| recountSnapshotDate | NA | string($date-time) | The time stamp when this child had its recount snapshot taken. |


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**Table 4-319 (Cont.) StockCountChildIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| authorizedDate | NA | string($date-time) | The time stamp when this child was authorized. |
| lineItems | NA | object | The items counted within this location. |

**Table 4-320 StockCountLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | number($int12) example: 1223465 | The unique identifier of the line item record. |
| itemId | NA | string($text128) example: 20045673 | The unique identifier of the item. |
| departmentId | NA | number($int12) example: 2000 | The unique identifier of the department. |
| classId | NA | number($int12) example: 3000 | The unique identifier of the class. |
| subclassId | NA | number($int12) example: 4000 | The unique identifier of the subclass. |
| primaryLocation | NA | boolean example: true | True indicates this is the primary stock count child for the item. |
| multiLocated | NA | boolean example: false | True indicates this item is located within multiple stock count child records. |
| discrepant | NA | boolean example: true | True indicates the item count is discrepant. |
| breakableComponent | NA | boolean example: false | True indicates this is a component of a breakable (notional) pack. |
| countSnapshot | NA | number($decimal(12,4)) example: 100 | The stock on hand at the time the count snapshot was executed. |
| recountSnapshot | NA | number($decimal(12,4)) example: 110 | The stock on hand at the time the recount snapshot was executed. |
| quantityCounted | NA | number($decimal(12,4)) example: 99 | The amount in standard unit of measure counted during the initial stock counting phase. |
| quantityRecounted | NA | number($decimal(12,4)) example: 101 | The amount in standard unit of measure counted during the recount of stock. |
| quantityAuthorized | NA | number($decimal(12,4)) example: 101 | The amount in standard unit of measure to be approved during authorization. |


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**Table 4-320 (Cont.) StockCountLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| quantityCountedTotal | NA | number($decimal(12,4)) example: 99 | The amount in standard unit of measure counted during the initial stock counting phase for this item across all children in which it appears. |
| quantityRecountedTotal | NA | number($decimal(12,4)) example: 99 | The amount in standard unit of measure counted during the recount for this item across all children in which it appears. |
| countedDateTime | NA | string($date-time) | The time stamp when counting began for the item. |
| recountedDateTime | NA | string($date-time) | The time stamp when recounting began for the item. |
| authorizedDateTime | NA | string($date-time) | The time stamp when the item was authorized. |
| snapshotDateTime | NA | string($date-time) | The time stamp when the snapshot was last taken for this item. |
| priceType | NA | integer($int3) example: 1 | 1 - Permanent<br>2 - Promotional 3 - Clearance<br>Enum: [ 1, 2, 3 ] |
| priceCurrency | NA | string($text3) example: USD | The price currency at the time of the snapshot. |
| priceValue | NA | number($decimal(20,4)) example: 12.99 | The price amount at the time of the snapshot. |
| uins | NA | object | The UINs associated to this item on the count. |
| epcs | NA | object | The EPCs associated to this item on the count. |

**Table 4-321 StockCountLineItemUinIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | NA | string($text128) example: 200456734823 | The unique identifier number. |
| uinId | NA | number($int12) example: 1223465 | The record identifier of the UIN. |


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**Table 4-321 (Cont.) StockCountLineItemUinIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| snapshotStatus | NA | number($int2) example: 1 | 1 - In Stock<br>2 - Sold<br>3 - Shipped To Warehouse<br>4 - Shipped To Store<br>5 - Reserved For Shipping<br>6 - Shipped To Vendor<br>7 - Remove From Inventory<br>8 - Unavailable<br>9 - Missing<br>10 - In Receiving<br>11 - Customer Reserved<br>12 - Customer Fulfilled<br>13 - Shipped To Finisher<br>99 - Unconfirmed<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 99 ] |

**Table 4-322 StockCountLineItemEpcIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| epc | NA | string($text256) example: 2004435813456734700 | The Electronic Product Code |
| scanDateTime | NA | string($date-time) | Snapshot of the last time the EPC was scanned. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Stock Count Child

This section describes the Update Stock Count Child API. This API updates a child count's quantities based on the current phase of counting. Counted quantity is updated in count phase, recounted quantity for recount phase, and authorization quantity for authorization phase. A maximum of 10,000 line items is allowed per update.


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## Method

```
POST
```

## URL

```
/stockcounts/childs/{stockCountChildId}
```

## Request Parameters

**Table 4-323 Update Stock Count Child — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| stockCountChildId | Yes | number($int12) (path) | The stock count child identifier. |

The request body is application/json.

Details of the stock count child to update.

## Example Value

```
{
  "lineItems": [
    {
      "lineId": 456333,
      "quantity": 12.4,
      "timestamp": "2025-01-16T15:10:31.345Z",
      "uins": [
        111222333,
        444555666
      ]
    }
  ]
}
```

## Schema — StockCountChildUpdateIdo

**Table 4-324 StockCountChildUpdateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineItems | Yes | object | Information about the items that were counted. |


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**Table 4-325 StockCountChildUpdateItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | Yes | number($int 12) example: 456333 | The unique identifier of the line item record being updated. |
| quantity | Yes | number($decimal(12,4)) example: 12.4 | The quantity to assign to the line item based on the current phase of the stock count. If UINs are enabled for the store and this is a UIN item, the quantity value will be overwritten by the sum of the UINs on the line item. |
| timestamp | NA | string($date-time) | The timestamp when the quantity was counted, recounted, or authorized. If the item does not yet have a timestamp, this value will be assigned to the item. If left blank, current timestamp of processing will be used instead. |
| uins | Yes | string($text128)] example: List [ 111222333, 444555666 ] | The UINs to attach to this line item. |

## Responses

This section describes the responses of the Update Stock Count Child API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Complete Stock Count Child

This section describes the Complete Stock Count Child API. This API completes the count or recount of a stock count child moving it to the next phase of stock count processing if possible. Many factors may cause a child count to be pending until further counting is completed in other child counts. If the child has not yet been counted, it can still be completed and will follow the business rules and configurations for uncounted items.

## Method

POST


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## URL

```
/stockcounts/childs/{stockCountChildId}/complete
```

## Request Parameters

**Table 4-326 Complete Stock Count Child — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| stockCountChildId | Yes | number($int12) (path) | The stock count child identifier. |

## Responses

This section describes the responses of the Complete Stock Count Child API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Store

This service integrates store foundation data. Asychronous store integration is processed through staged messages and is controlled by the MPS Work Type: DcsStore.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/storeitems

## Import Store

This operation will import store orders from an external system. These store orders are already transfers or purchase orders that are being planned and require store approval before proceeding.


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## Method

```
POST
```

## URL

```
/stores/import
```

## Request Parameters

There are no request parameters.

The request body is application/json.

A list of stores to import.

## Example Value

```
{
  "stores": [
    {
      "storeId": 1111111,
      "storeName": "MyStore",
      "languageCode": "EN",
      "countryCode": "US",
      "currencyCode": "USD",
      "timezone": "America/Chicago",
      "transferZoneId": "1000",
      "organizationUnitId": "1111",
      "managedStore": true,
      "customerOrdering": true
    }
  ]
}
```

## Schema — StoreImportIdo

**Table 4-327 StoreImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| store | Yes | object | Stores |


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**Table 4-328 StoreImportIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 1111111 | The identifier of the store. |
| storeName | Yes | string($text150) example: MyStore | The name of the store. |
| languageCode | NA | string($text3) example: EN | The language code of the store. |
| countryCode | NA | string($text3) example: US | The country code of the store. |
| currencyCode | NA | string($text4) example: USD | The currency code of the store. |
| timezone | NA | string($text80) example: America/Chicago | The timezone of the store. |
| transferZoneId | NA | string($text128) example: 1000 | The transfer zone identifier of the store. |
| organizationUnitId | NA | string($text15) example: 1111 | The organization unit identifier of the store |
| managedStore | NA | boolean example: true | True indicates that EICS manages the inventory for the store, false indicates it does not. |
| customerOrdering | NA | boolean example: true | True indicates this store can take customer orders, false indicates it does not. |

## Responses

This section describes the responses of the Import Store API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

# Delete Store

Deletes a store. Prior to placing the request to delete into the MPS queue, it validates that the store exists and that the store contains no items assigned to it. A forbidden response will occur if the application is integrated with MFCS or RMS.


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## Method

`POST`

## URL

`/stores/{storeId}/delete`

## Request Parameters

This section describes the request parameters.

**Table 4-329 Delete Store — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int15) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Delete Store API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

### Response Code: 403

Forbidden

# Read Store

Reads information about a store based on a single unique store identifier.

## Method

`GET`


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## URL

```
/stores/{storeId}
```

## Request Parameters

This section describes the request parameters.

**Table 4-330 Read Store — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Read Store API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "storeId": 1111111,
    "storeName": "MyStore",
    "languageCode": "EN",
    "countryCode": "US",
    "currencyCode": "USD",
    "timezone": "America/Chicago",
    "transferZoneId": "1000",
    "organizationUnitId": "1111",
    "managedStore": true,
    "customerOrdering": true
  }
]
```

### Schema — StoreIdo


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**Table 4-331 StoreIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 1111111 | The identifier of the store. |
| storeName | NA | string($text150) example: MyStore | The name of the store. |
| languageCode | NA | string($text3) example: EN | The language code of the store. |
| countryCode | NA | string($text3) example: US | The country code of the store. |
| currencyCode | NA | string($text4) example: USD | The currency code of the store. |
| timezone | NA | string($text80) example: America/Chicago | The timezone of the store. |
| transferZoneId | NA | string($text128) example: 1000 | The transfer zone identifier of the store. |
| organizationUnitId | NA | string($text15) example: 1111 | The organization unit identifier of the store |
| managedStore | NA | boolean example: true | True indicates that EICS manages the inventory for the store, false indicates it does not. |
| customerOrdering | NA | boolean example: true | True indicates this store can take customer orders, false indicates it does not. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Find Store

Finds stores based on a list of potential unique store identifiers. It allows up to a maximum of 10,000 store identifiers.

### Method

```
POST
```

### URL

```
/stores/find
```


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## Request Parameters

There are no request parameters.

The request body is application/json.

A list of stores identifiers to find.

### Example Value

```
{
  "storeIds": [
    11111,
    22222
  ]
}
```

### Schema — StoreListIdo

**Table 4-332 StoreListIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeIds | Yes | example: List [ 11111, 22222 ]<br>integer($int10)] | Store IDs |

## Responses

This section describes the responses of the Find Store API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "storeId": 1111111,
    "storeName": "MyStore",
    "languageCode": "EN",
    "countryCode": "US",
    "currencyCode": "USD",
    "timezone": "America/Chicago",
```


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```
    "transferZoneId": "1000",
    "organizationUnitId": "1111",
    "managedStore": true,
    "customerOrdering": true
  }
]
```

### Schema — StoreIdo

**Table 4-333 StoreIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 1111111 | The identifier of the store. |
| storeName | NA | string($text150) example: MyStore | The name of the store. |
| languageCode | NA | string($text3) example: EN | The language code of the store. |
| countryCode | NA | string($text3) example: US | The country code of the store. |
| currencyCode | NA | string($text4) example: USD | The currency code of the store. |
| timezone | NA | string($text80) example: America/Chicago | The timezone of the store. |
| transferZoneId | NA | string($text128) example: 1000 | The transfer zone identifier of the store. |
| organizationUnitId | NA | string($text15) example: 1111 | The organization unit identifier of the store |
| managedStore | NA | boolean example: true | True indicates that EICS manages the inventory for the store, false indicates it does not. |
| customerOrdering | NA | boolean example: true | True indicates this store can take customer orders, false indicates it does not. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Find Associated Store

Find potential associate stores (buddy stores) to the specified store.


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## Method

```
GET
```

## URL

```
/stores/{storeId}/associated
```

## Request Parameters

This section describes the request parameters.

**Table 4-334 Find Associated Store — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Find Associated Store API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "storeId": 1111111,
    "storeName": "MyStore",
    "languageCode": "EN",
    "countryCode": "US",
    "currencyCode": "USD",
    "timezone": "America/Chicago",
    "transferZoneId": "1000",
    "organizationUnitId": "1111",
    "managedStore": true,
    "customerOrdering": true
  }
]
```



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### Schema — StoreIdo

**Table 4-335 StoreIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 1111111 | The identifier of the store. |
| storeName | NA | string($text150) example: MyStore | The name of the store. |
| languageCode | NA | string($text3) example: EN | The language code of the store. |
| countryCode | NA | string($text3) example: US | The country code of the store. |
| currencyCode | NA | string($text4) example: USD | The currency code of the store. |
| timezone | NA | string($text80) example: America/Chicago | The timezone of the store. |
| transferZoneId | NA | string($text128) example: 1000 | The transfer zone identifier of the store. |
| organizationUnitId | NA | string($text15) example: 1111 | The organization unit identifier of the store |
| managedStore | NA | boolean example: true | True indicates that EICS manages the inventory for the store, false indicates it does not. |
| customerOrdering | NA | boolean example: true | True indicates this store can take customer orders, false indicates it does not. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Delete Auto Receive Stores

Delete all the stores that can auto-receive from this store.

## Method

```
DELETE
```


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## URL

```
/stores/{storeId}/autoreceive
```

## Request Parameters

This section describes the request parameters.

**Table 4-336 Delete Auto Receive Stores — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Delete Auto Receive Stores API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Find Auto Receive Store

Find stores that are allowed to auto receive from the specified input store.

## Method

```
GET
```

## URL

```
/stores/{storeId}/autoreceive
```

## Request Parameters


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This section describes the request parameters.

**Table 4-337 Find Auto Receive Store — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Find Auto Receive Store API.

### Response Code: 200

The request has been successful.

The media type is application/json.

#### Example Value

```
[
  {
    "storeId": 1111111,
    "storeName": "MyStore",
    "languageCode": "EN",
    "countryCode": "US",
    "currencyCode": "USD",
    "timezone": "America/Chicago",
    "transferZoneId": "1000",
    "organizationUnitId": "1111",
    "managedStore": true,
    "customerOrdering": true
  }
]
```

#### Schema — StoreIdo

**Table 4-338 StoreIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 1111111 | The identifier of the store. |
| storeName | NA | string($text150) example: MyStore | The name of the store. |
| languageCode | NA | string($text3) example: EN | The language code of the store. |
| countryCode | NA | string($text3) example: US | The country code of the store. |
| currencyCode | NA | string($text4) example: USD | The currency code of the store. |


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**Table 4-338 (Cont.) StoreIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| timezone | NA | string($text80) example: America/Chicago | The timezone of the store. |
| transferZoneId | NA | string($text128) example: 1000 | The transfer zone identifier of the store. |
| organizationUnitId | NA | string($text15) example: 1111 | The organization unit identifier of the store |
| managedStore | NA | boolean example: true | True indicates that EICS manages the inventory for the store, false indicates it does not. |
| customerOrdering | NA | boolean example: true | True indicates this store can take customer orders, false indicates it does not. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Auto Receive Stores

Update all the stores that are allowed to auto-receive from the accessing store.

### Method

`POST`

### URL

`/stores/{storeId}/autoreceive`

### Request Parameters

This section describes the request parameters.

**Table 4-339 Update Auto Receive Stores — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |


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The request body is application/json.

A list of auto receiving store identifiers.

### Example Value

```
{
  "storeIds": [
    11111,
    22222
  ]
}
```

### Schema — StoreListIdo

**Table 4-340 StoreListIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeIds | Yes | example: List [ 11111, 22222 ]<br>integer($int10)] | Store IDs |

## Responses

This section describes the responses of the Update Auto Receive Stores API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Find Transfer Zone Store

Find stores that are available to the transfer zone of the input store.

## Method

GET


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## URL

```
/stores/{storeId}/transferzone
```

## Request Parameters

This section describes the request parameters.

**Table 4-341 Find Transfer Zone Store — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Find Transfer Zone Store API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "storeId": 1111111,
    "storeName": "MyStore",
    "languageCode": "EN",
    "countryCode": "US",
    "currencyCode": "USD",
    "timezone": "America/Chicago",
    "transferZoneId": "1000",
    "organizationUnitId": "1111",
    "managedStore": true,
    "customerOrdering": true
  }
]
```


### Schema — StoreIdo


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**Table 4-342 StoreIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 1111111 | The identifier of the store. |
| storeName | NA | string($text150) example: MyStore | The name of the store. |
| languageCode | NA | string($text3) example: EN | The language code of the store. |
| countryCode | NA | string($text3) example: US | The country code of the store. |
| currencyCode | NA | string($text4) example: USD | The currency code of the store. |
| timezone | NA | string($text80) example: America/Chicago | The timezone of the store. |
| transferZoneId | NA | string($text128) example: 1000 | The transfer zone identifier of the store. |
| organizationUnitId | NA | string($text15) example: 1111 | The organization unit identifier of the store |
| managedStore | NA | boolean example: true | True indicates that EICS manages the inventory for the store, false indicates it does not. |
| customerOrdering | NA | boolean example: true | True indicates this store can take customer orders, false indicates it does not. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Delete Excluded Warehouses

Delete the list of warehouses that are excluded from the stores warehouse network effectively making them included for shipment.

### Method

```
DELETE
```

### URL

```
/stores/{storeId}/warehouses/excluded
```


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## Request Parameters

This section describes the request parameters.

**Table 4-343 Delete Excluded Warehouses — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Delete Excluded Warehouses API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Find Excluded Warehouses

Finds the warehouses excluded from the stores shipping network.

## Method

```
GET
```

## URL

```
/stores/{storeId}/warehouses/excluded
```

## Request Parameters

This section describes the request parameters.


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**Table 4-344 Find Excluded Warehouses — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Find Excluded Warehouses API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "warehouseId": 1111111,
    "excludeReturn": true,
    "excludeReceipt": true,
    "createDate": "2025-07-10T13:24:43.819Z",
    "createUser": "smith123",
    "updateDate": "2025-07-10T13:24:43.819Z",
    "updateUser": "smith123"
  }
]
```

### Schema — StoreWarehouseIdo

**Table 4-345 StoreWarehouseIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| warehouseId | NA | number($int10) example: 1111111 | The identifier of the warehouse. |
| excludeReturn | NA | boolean example: true | True indicates this warehouse is excluded from returns, false indicates it is not excluded. |
| excludeReceipt | NA | boolean example: true | True indicates this warehouse is excluded from receiving, false indicates it is not excluded. |


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**Table 4-345 (Cont.) StoreWarehouseIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| createDate | NA | string($date-time) | The date the store's warehouse network record was created in SIOCS. |
| createUser | NA | string($text128) example: smith123 | The user that created the store's warehouse network record. |
| updateDate | NA | string($date-time) | The date the store's warehouse network record was last updated in SIOCS. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the store's warehouse network record. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Excluded Warehouses

Assigns the list of warehouses that are excluded from a store's shipping network.

### Method

`POST`

### URL

`/stores/{storeId}/warehouses/excluded`

### Request Parameters

This section describes the request parameters.


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**Table 4-346 Update Excluded Warehouses — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

The request body is application/json.

A list of excluded store/warehouse network information.

## Example Value

```
{
  "warehouses": [
    {
      "warehouseId": 1111111,
      "excludeReturn": true,
      "excludeReceipt": true
    }
  ]
}
```

## Schema — StoreWarehouseUpdateListIdo

**Table 4-347 StoreWarehouseUpdateListIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| warehouses | NA | object | Warehouses |

**Table 4-348 StoreWarehouseUpdateIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| warehouseId | Yes | number($int10) example: 1111111 | The identifier of the warehouse. |
| excludeReturn | Yes | boolean example: true | True indicates this warehouse is excluded from returns, false indicates it is not excluded. |
| excludeReceipt | Yes | boolean example: true | True indicates this warehouse is excluded from receiving, false indicates it is not excluded. |

# Responses

This section describes the responses of the Update Excluded Warehouses API.


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### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Delete Excluded Stores

Deletes all the stores excluded from a store's shipping network.

### Method

```
DELETE
```

### URL

```
/stores/{storeId}/stores/excluded
```

### Request Parameters

This section describes the request parameters.

**Table 4-349 Delete Excluded Stores — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

### Responses

This section describes the responses of the Delete Excluded Stores API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# Find Excluded Stores

Finds stores includes from the store's shipping network.

## Method

```
GET
```

## URL

```
/stores/{storeId}/stores/excluded
```

## Request Parameters

This section describes the request parameters.

**Table 4-350 Find Excluded Stores — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

## Responses

This section describes the responses of the Find Excluded Stores API.

## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "storeId": 1111111
  }
]
```

### Schema — StoreRefIdo


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**Table 4-351 StoreRefIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 1111111 | The identifier of the store. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Excluded Stores

Assigns the list of warehouses that are excluded from a store's shipping network.

## Method

```
POST
```

## URL

```
/stores/{storeId}/warehouses/excluded
```

## Request Parameters

This section describes the request parameters.

**Table 4-352 Update Excluded Stores — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| storeId | Yes | integer($int10) (path) | The unique identifier of the store. |

The request body is application/json.

A list of excluded store network information.

## Example Value

```
{
  "excludedStoreIds": [
    11111,
    22222
  ],
```


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```
  "removedStoreIds": [
    11111,
    22222
  ]
}
```

### Schema — StoreShippingNetworkUpdateIdo

**Table 4-353 StoreShippingNetworkUpdateIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| excludedStoreIds | NA | integer($int10) example: List [ 11111, 22222 ] | A list of stores to add to the excluded network stores. |
| removedStoreIds | NA | integer($int10) example: List [ 11111, 22222 ] | A list of stores to remove from the excluded network stores. |

## Responses

This section describes the responses of the Update Excluded Stores API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Store Item

This service integrates the store item foundation data with an external application. Store integration is controlled by the MPS Work Type: DcsItemLocation.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/storeitems

## API Definitions

| API | Description |
|---|---|


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| | |
|---|---|
| Import Store Items | Imports items at a store location. |
| Remove Store Items | Deactivate items at a store location. |
| Import Replenishment Items | Imports replenishment item information. |
| Remove Replenishment Items | Deactivate replenishment item information. |

# API: Import Store Items

Imports store items into the system.

If more than 10,000 items are included in a single call, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/import |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of store Items to Import |
| Output | None |
| Max Response Limit | 10,000 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| items | List of stores items to import | Yes | A collection of up to 10,000 stores items to import. |

### Stores Items Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String(25) | Yes | The unique item identifier (sku number). |
| shortDescription | String(255) | - | A short description of the item at this store. |
| longDescirption | String(400) | - | A long description of the item at this store. |
| status | String | Yes | See Index (Item Status) |
| primarySupplierId | Long(10) | - | The unique identifier of the primary supplier of the item to this store location. |
| storeControlPricing | Boolean | - | True indicates the item price can be controlled by the store. |
| rfid | Boolean | - | True indicates the item is RFID tagged. |
| defaultCurrencyCode | String(3) | - | The default currency of the item's price at this store. |
| purchaseType | Long | - | See Index (Purchase Type) |


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| | | | |
|---|---|---|---|
| uinType | Integer | - | The UIN type of this item at this store. This attribute can only be altered to an empty value after the store item is created. Valid values are: 1 - Serial Number, 2 - Auto-Generated Serial Number |
| uinCaptureTime | Integer | - | The UIN capture time of this item at this store. This attribute can only be altered to an empty value after the store item is created. Valid values are: 1 - Sale, 2 - Store Processing |
| uinLabelCode | Integer | - | The unique identifier of the UIN label. This attribute will be ignored if the store item already exists. |
| uinExternalCreateAllowed | Boolean | - | True if an external system can create a UIN, false otherwise. |

**Example Input**

{

"items": [

{

"itemId": "100637121",

"defaultCurrencyCode": "USB",

"longDescription": "TestDescriptionAA",

"primarySupplierId": 1,

"purchaseType": 1,

"rfid": true,

"shortDescription": "TestShortAA",

"status": 1,

"storeControlPricing": false,

"uinCaptureTime": 1,

"uinExternalCreateAllowed": true,

"uinLabelCode": "SN",

"uinType": 1

}

]

}

**Additional Data Definitions**

**Item Status**

| Value | Definition |
|---|---|


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| | |
|---|---|
| 1 | Active |
| 2 | Discontinued |
| 3 | Inactive |
| 4 | Auto Stockable |

**Purchase Type**

| Value | Definition |
|---|---|
| 1 | Normal Merchandise |
| 2 | Consignment Stock |
| 3 | Concession Items |

**UIN Capture Time**

| Value | Definition |
|---|---|
| 1 | Sale |
| 2 | Store Receiving |

**UIN Type**

| Value | Definition |
|---|---|
| 1 | Serial Number |
| 2 | Auto-Generated Serial Number |

# API: Remove Store Items

This will mark items as no longer usable. When all data is cleared out of transactions that reference this data, later batch jobs will eventually delete the material.

If more than 1000 items are included in a single call, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

**API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{storeId}/remove |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | None |
| Output | None |
| Max Input Limit | 1000 |

**Path Parameter Definitions**

| Attribute | Definition |
|---|---|


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| | |
|---|---|
| storeId | The internal identifier of the store. |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| items | List of items to remove | Yes | A collection of up to 1000 items to remove. |

### Example Input

```
{
"itemIds": [
"100637121",
"100637113"
]
}
```

## API: Import Replenishment Items

Imports item replenishment information for an item at a store location.

If more than 1000 items are included in a single call, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/{storeId}/replenish/import |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | None |
| Output | List of Items Replenishment to import |
| Max Input Limit | 1000 |

### Path Parameter Definitions

| Attribute | Definition |
|---|---|
| storeId | The internal identifier of the store. |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| items | List of Item Replenishment Import | Yes | The item replenishment information to import. |


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### Item Replenishment Import Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String (25) | Yes | The unique item identifier (sku number). |
| replenishmentMethod | String(6) | | A code representing the replenishment method. (SO indicates Store Order). |
| rejectStoreOrder | Boolean | | True indicates store orders must be on or after the next delivery date or should be rejected. |
| multipleDeliveryPerDayAllowed | Boolean | | True indicates the item allows multiple deliveries per day at the location. |
| nextDeliveryDate | Date | | The next delivery date of the time based on its replenishment type. |

### Example Input

{

"items": [

{

"itemId": "100637121",

"replenishmentMethod": "AB",

"rejectStoreOrder": false,

"multipleDeliveryPerDayAllowed": false,

"nextDeliveryDate": "2022-11-19T23:59:59-05:00"

}

]

}

## API: Remove Replenishment Items

Clears the replenishment item information from within the store item setting the replenishment properties to empty, null, or default flag settings.

If more than 1000 items are included in a single call, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/replenish/remove |
| Method | POST |
| Successful Response | 200 OK |


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| | |
|---|---|
| Processing Type | Asynchronous |
| Input | List of item ids |
| Output | None |
| Max Input Limit | 1000 |

**Input Data Definition**

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| Items | List of item Ids | Yes | A collection of up to 1000 items to read. |

**Example Input**

```
{
"itemIds": [
"100637121",
"100637113"
]
```

# REST Service: Store Order

Store orders allow a store to request items to be ordered to the store. The items being requested may come from a supplier or warehouse. Store orders allows a user to capture items and their quantities to be ordered as well as restrictions for the store order. The inventory will be sourced to the store based on the corporate replenishment setup. This can be either a delivery from a warehouse or a drop ship from the supplier. The actual sourcing, delivery timings, and final quantities remain a function of the external replenishment system.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Store Order

This section describes the Find Store Order API. This API finds up to a maximum of 5,000 store orders for the input criteria.

## Method

```
GET
```


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## URL

```
/storeorders
```

## Request Parameters

**Table 4-354 Find Store Order — Request Parameters**

| | | | |
|---|---|---|---|
| storeId | NA | integer($int10) (query) | Include only store orders with this store identifier. |
| externalReference | NA | string($text128) (query) | Include only store orders with this external reference number. |
| externalTransferId | NA | string($text128) (query) | Include only store orders with this external transfer identifier. |
| externalPurchaseOrderId | NA | string($text128) (query) | Include only store orders with this external purchase order identifier. |
| status | NA | integer($int4) (query) | 1 - New<br>2 - In Progress<br>3 - Approved<br>4 - Canceled<br>5 - Submitted<br>Available values : 1, 2, 3, 4, 5 |
| itemId | NA | string($text25) (query) | Include only store orders containing this item. |
| updateDateFrom | NA | string($date-time) (query) | Include only store orders with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only store orders with an update date on or before this date. |

## Responses

This section describes the responses of the Find Store Order API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "storeOrderId": 11111,
    "storeId": 1234,
    "externalTransferId": "7000",
    "externalPurchaseOrderId": "8000",
```



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```
    "externalReference": "9000",
    "description": "Need more inventory",
    "status": 1,
    "requestedDeliveryDate": "2025-01-21T14:44:31.735Z",
    "updateDate": "2025-01-21T14:44:31.735Z"
  }
]
```


## Schema — StoreOrderHeaderIdo

**Table 4-355 StoreOrderHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeOrderId | NA | integer($int12) example: 11111 | The unique identifier of the store order. |
| storeId | NA | number($int10) example: 1234 | The store identifier of the store order. |
| externalTransferId | NA | string($text128) example: 7000 | An external transfer identifier that this store order is associated to. |
| externalPurchaseOrderId | NA | string($text128) example: 8000 | An external purchase order identifier that this store order is associated to. |
| externalReference | NA | string($text128) example: 9000 | A reference to this store order in an external system. |
| description | NA | string($text2000) example: Need more inventory | A description of the store order or cause of the store order. |
| status | NA | integer($int4) example: 1 | 1 - New<br>2 - In Progress<br>3 - Approved<br>4 - Canceled<br>5 - Submitted<br>Enum: [ 1, 2, 3, 4, 5 ] |
| requestedDeliveryDate | NA | string($date-time) | The date the store request the delivery arrive by. |
| updateDate | NA | string($date-time) | The date the store order was lasted updated within the system. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# Create Store Order

This operation will cause the system to generate a new inventory request to an external system which will then generate a new transfer or purchase order to fulfill the inventory request.

## Method

`POST`

## URL

`/storeorders`

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the store order to request.

### Example Value

```
{
  "storeId": 1234,
  "description": "Need more inventory",
  "requestedDeliveryDate": "2025-01-21T15:26:24.751Z",
  "contextTypeId": 1234,
  "restrictToSupplierId": 1111,
  "restrictToWarehouseId": 2222,
  "restrictToAreaId": 4444,
  "restrictToDepartmentId": 1000,
  "restrictToClassId": 1000,
  "restrictToSubclassId": 1000,
  "storeOrderOnly": false,
  "lineItems": [
    {
      "itemId": "55001234",
      "quantity": 2,
      "caseSize": 5,
      "deliverySlotId": 55555
    }
  ]
}
```

## Schema — StoreOrderCreateIdo


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**Table 4-356 StoreOrderCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 1234 | The store identifier of the store order. |
| description | NA | string($text2000) example: Need more inventory | A description of the store order or cause of the store order. |
| requestedDeliveryDate | NA | string($date-time) | The date the store request the delivery arrive by. |
| contextTypeId | NA | integer($int18) example: 1234 | A context identifier associated to the store order. |
| restrictToSupplierId | NA | integer($int12) example: 1111 | Only allow items on the store order that are associated to this supplier. |
| restrictToWarehouseId | NA | integer($int12) example: 2222 | Only allow items on the store order that are associated to this warehouse. |
| restrictToAreaId | NA | integer($int12) example: 4444 | Only allow items on the store order that are associated to this store sequence area. |
| restrictToDepartmentId | NA | integer($int15) example: 1000 | Only allow items that are within this department. |
| restrictToClassId | NA | integer($int15) example: 1000 | Only allow items that are within this class. If included, department must also be included. |
| restrictToSubclassId | NA | integer($int15) example: 1000 | Only allow items that are within this subclass. If included, class must also be included. |
| storeOrderOnly | NA | boolean example: false | If true, only store order replenishment items can be added to the order. |
| lineItems | Yes | object | The items to request inventory for. |

**Table 4-357 StoreOrderCreateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 55001234 | The SKU level item identifier. |
| quantity | Yes | number($decimal(20,4)) example: 2 | The quantity of the item to be requested from an external system. |
| caseSize | NA | number($decimal(10,2)) example: 5 | The case size of this line item. |


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**Table 4-357 (Cont.) StoreOrderCreateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliverySlotId | NA | integer($int15 ) example: 55555 | The unique identifier of the delivery time. |

## Responses

This section describes the responses of the Create Store Order API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "storeOrderId": 11111,
    "storeId": 1234,
    "status": 1
  }
]
```

### Schema — StoreOrderStatusIdo

**Table 4-358 StoreOrderStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeOrderId | NA | integer($int12) example: 11111 | The unique identifier of the store order. |
| storeId | NA | number($int10) example: 1234 | The store identifier of the store order. |
| status | NA | integer($int4) example: 1 | 1 - New<br>2 - In Progress<br>3 - Approved<br>4 - Canceled<br>5 - Submitted<br>Enum: [ 1, 2, 3, 4, 5 ] |

### Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Store Order

This section describes the Read Store Order API. This API retrieves all the details about a store order.

## Method

```
GET
```

## URL

```
/storeorders/{storeOrderId}
```

## Request Parameters

**Table 4-359 Read Store Order — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeOrderId | Yes | number($int12) (path) | The unique identifier of the store order.. |

## Responses

This section describes the responses of the Read Store Order API.

### Response Code: 200

The request has been successful.

The media type is application/json.

#### Example Value


```
{
  "storeOrderId": 11111,
  "storeId": 1234,
  "externalTransferId": "7000",
  "externalPurchaseOrderId": "8000",
  "externalReference": "9000",
  "parentReference": 1111,
  "description": "Need more inventory",
  "status": 1,
```



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```
    "origin": 1,
    "requestedDeliveryDate": "2025-01-21T15:43:39.415Z",
    "autoApproveDate": "2025-01-21T15:43:39.415Z",
    "addItemsAllowed": true,
    "replenishmentItemsOnly": false,
    "contextTypeId": 1234,
    "deliverySlotId": 4565,
    "productGroupId": 5678,
    "productGroupDescription": "Bi-Weekly Restock",
    "restrictToSupplierId": 1111,
    "restrictToWarehouseId": 2222,
    "restrictToHierarchyId": 3333,
    "restrictToAreaId": 4444,
    "externalCreateDate": "2025-01-21T15:43:39.415Z",
    "createDate": "2025-01-21T15:43:39.415Z",
    "createUser": "userAbc",
    "updateDate": "2025-01-21T15:43:39.415Z",
    "approvedDate": "2025-01-21T15:43:39.415Z",
    "approvedUser": "userAbc",
    "lineItems": [
      {
        "lineId": 1234,
        "itemId": "55001234",
        "approvedQuantity": 2,
        "suggestedQuantity": 2,
        "caseSize": 5,
        "unitCostCurrency": "USD",
        "unitCostAmount": 5.5,
        "deliverySlotId": 55555
      }
    ]
  }
]
```


## Schema — StoreOrderIdo

**Table 4-360 StoreOrderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeOrderId | NA | integer($int12) example: 11111 | The unique identifier of the store order. |
| storeId | NA | number($int10) example: 1234 | The store identifier of the store order. |
| externalTransferId | NA | string($text128) example: 7000 | An external transfer identifier that this store order is associated to. |


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**Table 4-360 (Cont.) StoreOrderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalPurchaseOrderId | NA | string($text128) example: 8000 | An external purchase order identifier that this store order is associated to. |
| externalReference | NA | string($text128) example: 9000 | A reference to this store order in an external system. |
| parentReference | NA | integer($int12) example: 1111 | Reference to a parent transfer or order. |
| description | NA | string($text2000) example: Need more inventory | A description of the store order or cause of the store order. |
| status | NA | integer($int4) example: 1 | 1 - New<br>2 - In Progress<br>3 - Approved<br>4 - Canceled<br>5 - Submitted<br>Enum: [ 1, 2, 3, 4, 5 ] |
| origin | NA | integer($int4) example: 1 | 1 - External<br>2 - Manual<br>3 - System<br>Enum: [ 1, 2, 3 ] |
| requestedDeliveryDate | NA | string($date-time) | The date the store requested the delivery arrive by. |
| autoApproveDate | NA | string($date-time) | The date the record was automatically approved in the system. |
| addItemsAllowed | NA | boolean example: true | True indicates new items can be added to the store order. |
| replenishmentItemsOnly | NA | boolean example: false | True indicates only store order replenishment items can be added to the store order. |
| contextTypeId | NA | integer($int18) example: 1234 | A context identifier associated to the store order. |
| deliverySlotId | NA | integer($int15) example: 4565 | The unqiue identifer of a delivery time. |


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**Table 4-360 (Cont.) StoreOrderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| productGroupId | NA | integer($int12) example: 5678 | The unique identifier of a product group associated to the order. |
| productGroupDescription | NA | string($text250) example: Bi-Weekly Restock | The description of the product group associated to the order. |
| restrictToSupplierId | NA | integer($int12) example: 1111 | Only allow items on the store order that are associated to this supplier. |
| restrictToWarehouseId | NA | integer($int12) example: 2222 | Only allow items on the store order that are associated to this warehouse. |
| restrictToHierarchyId | NA | integer($int12) example: 3333 | Only allow items on the store order that belong to this merchandise hierarchy. |
| restrictToAreaId | NA | integer($int12) example: 4444 | Only allow items on teh store order that are associated to this store sequence area. |
| externalCreateDate | NA | string($date-time) | The date the store order was created in an external system. |
| createDate | NA | string($date-time) | The date the store order was created in the system. |
| createUser | NA | string($text128) example: userAbc | The user that created the store order in the system. |
| updateDate | NA | string($date-time) | The date the store order was lasted updated in the system. |
| approvedDate | NA | string($date-time) | The date the store order was approved in the system. |
| approvedUser | NA | string($text128) example: userAbc | The user that approved the store order in the system. |
| lineItems | NA | object | A list of items on the store order. |


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**Table 4-361 StoreOrderItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | number($int12) example: 1234 | The unique system identifier of the line item. |
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| approvedQuantity | NA | number($decimal(20,4)) example: 2 | The quantity of the item approved to order. |
| suggestedQuantity | NA | number($decimal(20,4)) example: 2 | The quantity of the item ordered from an external system. |
| caseSize | NA | number($decimal(10,2)) example: 5 | The case size of this line item. |
| unitCostCurrency | NA | string($text3) example: USD | The currency of the unit cost. |
| unitCostAmount | NA | number($decimal(12,4)) example: 5.5 | The value of the unit cost. |
| deliverySlotId | NA | integer($int15) example: 55555 | The unique identifier of the delivery time. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Store Order

This section describes the Update Store Order API. This operation update the information on a store order before store order approval.


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## Method

```
POST
```

## URL

```
/storeorders/{storeOrderId}
```

## Request Parameters

**Table 4-362 Update Store Order — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeOrderId | yes | integer($int12) (path) | The unique identifier of the store order. |

The request body is application/json.

Details to update on the store order.

## Example Value

```
{
  "description": "Need more inventory",
  "requestedDeliveryDate": "2025-01-22T11:09:54.923Z",
  "contextTypeId": 1234,
  "lineItems": [
    {
      "itemId": "55001234",
      "quantity": 2,
      "caseSize": 5,
      "deliverySlotId": 55555
    }
  ]
}
```

## Schema — StoreOrderUpdateIdo


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**Table 4-363 StoreOrderUpdateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| description | NA | string($text2000) example: Need more inventory | A description of the store order or cause of the store order. |
| requestedDeliveryDate | NA | string($date-time) | The date the store request the delivery arrive by. |
| contextTypeId | NA | integer($int18) example: 1234 | A context identifier associated to the store order. |
| lineItems | NA | object | A list of line items to update on the store order. |

**Table 4-364 StoreOrderUpdateItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 55001234 | The SKU level item identifier. |
| quantity | Yes | number($decimal(20,4)) example: 2 | If the store order originated internally, then this modifies the quantity to be requested from the external system. If the store order originated in an external system, then this defines the approved amount of the original order. |
| caseSize | NA | number($decimal(10,2)) example: 5 | The case size of this line item. |
| deliverySlotId | NA | integer($int15) example: 55555 | The unique identifier of the delivery time. |

## Responses

This section describes the responses of the Update Store Order API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# Approve Store Order

This section describes the Approve Store Order API. This operations will approve a store order. It may be either a new request for inventory or the approval of an already existing transfer or purchase order. Either way, the store is approved and a notification sent to external systems, either a request to create a new transfer/purchase order or notification of an approval of an existing transfer/purchase order.

## Method

```
POST
```

## URL

```
/storeorders/{storeOrderId}/approve
```

## Request Parameters

**Table 4-365 Approve Store Order — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeOrderId | yes | integer($int12) (path) | The unique identifier of the store order. |

## Responses

This section describes the responses of the Approve Store Order API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Store Order

This section describes the Cancel Store Order API. This operation will cancel the store order.


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## Method

POST

## URL

/storeorders/{storeOrderId}/cancel

## Request Parameters

**Table 4-366 Cancel Store Order — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeOrderId | yes | integer($int12) (path) | The unique identifier of the store order. |

## Responses

This section describes the responses of the Cancel Store Order API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Import Store Order

This operation will import store orders from an external system. These store orders are already transfers or purchase orders that are being planned and require store approval before proceeding.

## Method

POST


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## URL

```
/storeorders
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the store order.

### Example Value

```
{
  "orderNumber": "7000",
  "storeId": 1234,
  "locationType": 1,
  "locationId": 4500,
  "parentReference": 1111,
  "requestedDeliveryDate": "2025-01-22T11:41:05.395Z",
  "contextTypeId": 1234,
  "deliverySlotId": 4565,
  "currencyCode": "USD",
  "comments": "Automated department replenishment",
  "lineItems": [
    {
      "itemId": "55001234",
      "quantity": 2,
      "caseSize": 5,
      "unitCostAmount": 5.5
    }
  ]
}
```

### Schema — StoreOrderImportIdo

**Table 4-367 StoreOrderImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderNumber | Yes | string($text128) example: 7000 | The original transfer or purchase order identifier of the store order from an external system. |
| storeId | Yes | number($int10) example: 1234 | The store identifier of the store order. |


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**Table 4-367 (Cont.) StoreOrderImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| locationType | Yes | integer($int4) example: 1 | 1 - Supplier<br>2 - Warehouse<br>Enum: [ 1, 2 ] |
| locationId | Yes | integer($int18) example: 4500 | The identifier the location shipping the goods. |
| parentReference | NA | integer($int12) example: 1111 | Reference to a parent transfer or order. |
| requestedDeliveryDate | NA | string($date-time) | The date the store requests the delivery arrive by. |
| contextTypeId | NA | integer($int18) example: 1234 | A context identifier associated to the store order. |
| deliverySlotId | NA | integer($int15) example: 4565 | The unqiue identifer of a delivery time. |
| currencyCode | NA | integer($int15) example: USD | The currency code of cost values on the order. |
| comments | NA | string($text2000) example: Automated department replenishment | Comments associated to the store order. |
| lineItems | Yes | object | The items to import on the store order. |

**Table 4-368 StoreOrderImportItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| quantity | NA | number($decimal20,4) example: 2 | The quantity of the suggested item order generated from an external system. |
| caseSize | NA | number($decimal10,2) example: 5 | The case size of this line item. |
| unitCostAmount | NA | number($decimal(12,4)) example: 5.5 | The value of the unit cost in the currency of the order. |

## Responses


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This section describes the responses of the Import Store Order API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "storeOrderId": 11111,
    "storeId": 1234,
    "status": 1
  }
]
```

### Schema — StoreOrderStatusIdo

**Table 4-369 StoreOrderStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeOrderId | NA | integer($int12)<br>example: 11111 | The unique identifier of the store order. |
| storeId | NA | number($int10)<br>example: 1234 | The store identifier of the store order. |
| status | NA | integer($int4)<br>example: 1 | 1 - New<br>2 - In Progress<br>3 - Approved<br>4 - Canceled<br>5 - Submitted<br>Enum: [ 1, 2, 3, 4, 5 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Find Order Timeslots

This section describes the Find Order Timeslots. This API retrieves all the store order delivery timeslots.


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## Method

```
GET
```

## URL

```
/storeorders/timeslots
```

## Request Parameters

There are no request parameters.

## Responses

This section describes the responses of the Find Order Timeslots API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
  {
    "id": 1,
    "code": "Morn",
    "description": "Morning",
    "sequence": 1,
    "publish": true
  }
]
```


### Schema — StoreOrderTimeslotIdo

**Table 4-370 StoreOrderTimeslotIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| id | NA | number($int15)<br>example: 1 | The unique identifier of the delivery slot. |
| code | NA | string($text15)<br>example: Morn | The external code of the delivery time slot. |
| description | NA | string($text240)<br>example: Morning | The description of the time slot. |


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**Table 4-370 (Cont.) StoreOrderTimeslotIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| sequence | NA | number($int8) example: 1 | The order the time slot should appear in a list. |
| publish | NA | boolean example: true | True if the delivery time slot should be published, false otherwise. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Find Order Context Types

This section describes the Find Order Context Types. This API retrieves all the context type available for a store order

### Method

`GET`

### URL

`/storeorders/contexts`

### Request Parameters

There are no request parameters.

### Responses

This section describes the responses of the Find Order Context Types API.

### Response Code: 200

The request has been successful.

The media type is application/json.


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### Example Value

```
[
  {
    "id": 11111,
    "code": "CS",
    "description": "Consumables",
    "sequence": 1
  }
]
```

### Schema — StoreOrderContextTypeIdo

**Table 4-371 StoreOrderContextTypeIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| id | NA | number($int18) example: 11111 | The identifier of the context type. |
| code | NA | string($text6) example: CS | The identification code of the context type. |
| description | NA | string($text1) example: Consumables | The description of the context type. |
| sequence | NA | number($int3) example: 1 | This number indicates the order the context type should appear in a list. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Find Order Areas

This section describes the Find Order Areas. This API retrieves all the order areas available for a store order.

## Method

```
GET
```

## URL

```
/storeorders/areas/{storeId}
```


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## Request Parameters

**Table 4-372 Find Order Areas— Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeId | yes | integer($int10) (path) | The store to retrieve completed product areas for. |

## Responses

This section describes the responses of the Find Order Areas API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "areaId": 13413513443,
    "itemBasketId": 34134134,
    "description": "11111"
  }
]
```

### Schema — StoreOrderAreaIdo

**Table 4-373 StoreOrderAreaIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| areaId | NA | integer($int12) example: 13413513443 | The unique identifier of the product area. |
| itemBasketId | NA | integer($int12) example: 34134134 | The unique identifier of an item basket associated to the area. |
| description | NA | string($text255) example: 11111 | The description of the store order product area. |

### Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# REST Service: Store Sequencing

This service defines operations to manage Store Sequence information.

**Service Base URL**

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/sequences

## APIs

| API | Description |
|---|---|
| Find Sequence Areas | Finds sequence area header based on search criteria. |
| Read Sequence Area | Reads the details of a sequence area. |
| Create Sequence Area | Create a sequence area along with all its details. |
| Update Sequence Area | Replace the entire sequence area including all its details (a complete sequence area must be sent). |
| Delete Sequence Area | Delete a sequenced area and all its details. |
| Create Sequence Item | Create a single sequence item in a sequence area. |
| Update Sequence Item | Updates a single sequence item from a sequence area. |
| Delete Sequence Item | Removes a single sequence item from a sequence area. |

## API: Find Sequence Areas

This API is used to search for sequence area headers. No items or detailed information is returned by this API. At least one criteria is required in order to search.

**API Basics**

**Table 4-374 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query Parameters |
| Output | Collection of Sequence Areas |
| Max Response Limit | 15,000 |


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### Query Parameters

**Table 4-375 Query Parameters**

| Attribute | Type | Definition |
|---|---|---|
| storeId | Long(12) | Include only records for this store. |
| areaType | Integer(9) | Area Type (see Index). |
| departmentId | Long(12) | The unique identifier of a department associated to the area. |
| classId | Long(12) | The unique identifier of a class within the department associated to the area. |
| itemId | String(25) | Include only records with this item on them. |

### Output Data Definition

**Table 4-376 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| sequenceAreaId | Long(10) | The unique identifier of the sequence area. |
| storeId | Long(10) | The unique identifier of the store. |
| description | String(255) | A description of this store sequence. |
| areaType | Integer(9) | Area Type (see Index). |
| departmentId | Long(12) | The unique identifier of a department associated to the area. |
| classId | Long(12) | The unique identifier of a class within the department associated to the area. |
| sequenceOrder | Long(20 | The order of this store sequence compared to other store sequences at the store. |
| unsequenced | Boolean | True indicates that this is a default sequence area that contains all the items that have not been sequenced within a different area. |

# API: Read Sequence Area

This API is used to read an entire sequence area including its details.

### API Basics

**Table 4-377 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{sequenceAreaId} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | N/A |
| Output | Sequence Area |
| Max Response Limit | N/A |


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### Path Parameter Definition

**Table 4-378 Path Parameter Definition**

| Attribute | Type | Definition |
|---|---|---|
| sequenceAreaId | Long(10) | The unique identifier of the sequence area. |

### Output Data Definition

**Table 4-379 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| sequenceAreaId | Long(10) | The unique identifier of the sequence area. |
| storeId | Long(10) | The unique identifier of the store. |
| description | String(255) | A description of this store sequence. |
| areaType | Integer(9) | Area Type (see Index). |
| departmentId | Long(12) | The unique identifier of a department associated to the area. |
| classId | Long(12) | The unique identifier of a class within the department associated to the area. |
| sequenceOrder | Long(20 | The order of this store sequence compared to other store sequences at the store. |
| unsequenced | Boolean | True indicates that this is a default sequence area that contains all the items that have not been sequenced within a different area. |
| Items | Collection | Contains all the items in the area (see Store Sequence Item) |

### Store Sequence Item

**Table 4-380 Store Sequence Item**

| Payload | Type | Definition |
|---|---|---|
| sequenceItemId | Long(12) | The unique area item identifier. |
| itemId | String(25) | The unique identifier of the item |
| sequenceOrder | Long(20) | The order of the item within its sequence. |
| capacity | BigDecimal(11,2) | The amount of the item that can be contained in the area for that item at the unit of measure. |
| width | Long(12) | The number of items that can fit across the width of the shelf. |
| uomMode | Integer(2) | The mode of display of the unit of measure of the item. |
| primaryLocation | Boolean | Y indicates this is the primary sequence for the item. |
| ticketQuantity | BigDecimal(11,2) | The quantity of tickets that need to be printed for the item inventory area. |
| ticketFormatId | Long(10) | The unique identifier of the ticket format used to print the tickets. |


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# API: Create Sequence Area

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Sequence Area Create Info |
| Output | Sequence Area Reference Info |
| Max Response Limit | 1,000 items in the area |

### Input Data Definition

| Attribute | Type | Req | Definition |
|---|---|---|---|
| storeId | Long(10) | X | The unique identifier of the store. |
| description | String(255) | | A description of this store sequence. |
| areaType | Integer(9) | X | Area Type (see Index). |
| departmentId | Long(12) | | The unique identifier of a department associated to the area. |
| classId | Long(12) | | The unique identifier of a class within the department associated to the area. |
| sequenceOrder | Long(20) | X | The order of this store sequence compared to other store sequences at the store. The sequence order must be unique for the set of areas within the store. |
| items | Collections | X | All the items that belong to this sequence area (see Sequence Area Item Create) |

### Store Sequence Area Item Create

| Payload | Type | Req | Definition |
|---|---|---|---|
| itemId | String(25) | X | The unique identifier of the item |
| sequenceOrder | Long(20) | X | The order of the item within its sequence. |
| capacity | BigDecimal(11,2) | X | The amount of the item that can be contained in the area for that item at the unit of measure. |
| width | Long(12) | | The number of items that can fit across the width of the shelf. |
| uomMode | Integer(2) | X | The mode of display of the unit of measure of the item. |
| primaryLocation | Boolean | | Y indicates this is the primary sequence for the item. |
| ticketQuantity | BigDecimal(11,2) | | The quantity of tickets that need to be printed for the item inventory area. |


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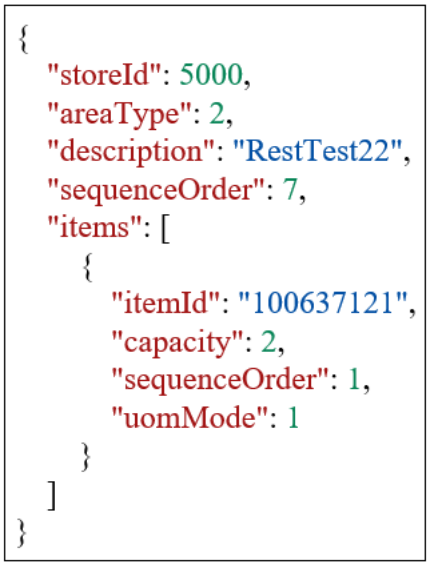
| | | |
|---|---|---|
| ticketFormatId | Long(10) | The unique identifier of the ticket format used to print the tickets. |

### Output Data Definition

| Attribute | Type | Definition |
|---|---|---|
| sequenceAreaId | Long(12) | The newly created adjustment identifier. |
| storeId | Long(10) | The store identifier. |

### Example



```
{
  "storeId": 5000,
  "areaType": 2,
  "description": "RestTest22",
  "sequenceOrder": 7,
  "items": [
    {
      "itemId": "100637121",
      "capacity": 2,
      "sequenceOrder": 1,
      "uomMode": 1
    }
  ]
}
```

# API: Update Sequence Area

This API is used to update a sequence area within a store.

This API will **replace** the entire sequence area with the new data passed to the API. Only the area identifier and store identifier will be preserved from previous data.

### API Basics

**Table 4-381 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | Sequence Area Update Info |
| Output | N/A |
| Max Response Limit | 1,000 items in the area |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### Path Parameter Definition

**Table 4-382 Path Parameter Definition**

| Attribute | Type | Definition |
|---|---|---|
| sequenceItemId | Long(12) | The unique area item identifier |

### Input Data Definition

**Table 4-383 Input Data Definition**

| Attribute | Type | Req | Definition |
|---|---|---|---|
| description | String(255) | | A description of this store sequence. |
| areaType | Integer(9) | X | Area Type (see Index). |
| departmentId | Long(12) | | The unique identifier of a department associated to the area. |
| classId | Long(12) | | The unique identifier of a class within the department associated to the area. |
| sequenceOrder | Long(20) | X | The order of this store sequence compared to other store sequences at the store. The sequence order must be unique for the set of areas within the store. |
| items | Collections | X | All the items that belong to this sequence area (see Sequence Area Item Update) |

### Store Sequence Area Item Update

**Table 4-384 Store Sequence Area Item Update**

| Payload | Type | Req | Definition |
|---|---|---|---|
| itemId | String(25) | X | The unique identifier of the item |
| sequenceOrder | Long(20) | X | The order of the item within its sequence. |
| capacity | BigDecimal(11,2) | X | The amount of the item that can be contained in the area for that item at the unit of measure. |
| width | Long(12) | | The number of items that can fit across the width of the shelf. |
| uomMode | Integer(2) | X | The mode of display of the unit of measure of the item. |
| primaryLocation | Boolean | | Y indicates this is the primary sequence for the item. |
| ticketQuantity | BigDecimal(11,2) | | The quantity of tickets that need to be printed for the item inventory area. |
| ticketFormatId | Long(10) | | The unique identifier of the ticket format used to print the tickets. |

Example


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```
{
  "areaType": 2,
  "description": "RestTest22",
  "sequenceOrder": 7,
  "items": [
    {
      "itemId": "100637121",
      "capacity": 2,
      "sequenceOrder": 1,
      "uomMode": 1
    }
  ]
}
```


# API: Delete Sequence Area

This API is used to delete a sequence area and all its items. This will not delete a sequence area currently being used by a sequenced stock count.

**API Basics**

**Table 4-385 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | DELETE |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | N/A |
| Output | N/A |
| Max Response Limit | N/A |

# API: Create Sequence Item

This API is used to create a new sequence item within a sequence area.

**API Basics**

**Table 4-386 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{sequenceAreaId}/items |
| Method | POST |
| Successful Response | 200 No Content |
| Processing Type | Synchronous |
| Input | Store Sequence Item Create |


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**Table 4-386 (Cont.) API Basics**

| | |
|---|---|
| Output | Store Sequence Item |
| Max Response Limit | N/A |

### Input Data Definition

**Table 4-387 Input Data Definition**

| Payload | Type | Req | Definition |
|---|---|---|---|
| itemId | String(25) | X | The unique identifier of the item |
| sequenceOrder | Long(20) | X | The order of the item within its sequence. |
| capacity | BigDecimal(11,2) | X | The amount of the item that can be contained in the area for that item at the unit of measure. |
| width | Long(12) | | The number of items that can fit across the width of the shelf. |
| uomMode | Integer(2) | X | The mode of display of the unit of measure of the item. (see Index) |
| primaryLocation | Boolean | | Y indicates this is the primary sequence for the item. |
| ticketQuantity | BigDecimal(11,2) | | The quantity of tickets that need to be printed for the item inventory area. |
| ticketFormatId | Long(10) | | The unique identifier of the ticket format used to print the tickets. |

Example

```
{
  "itemId": "100637113",
  "capacity": 2,
  "sequenceOrder": 1,
  "uomMode": 1
}
```

# API: Update Sequence Item

This API is used to update a sequence item within a sequence area.

### API Basics

**Table 4-388 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{sequenceAreaId}/items/{itemId} |
| Method | POST |


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**Table 4-388 (Cont.) API Basics**

| | |
|---|---|
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | N/A |
| Output | N/A |
| Max Response Limit | N/A |

### Path Parameter Definition

**Table 4-389 Path Parameter Definition**

| Attribute | Type | Definition |
|---|---|---|
| sequencerAreaId | Long(12) | The unique sequence area identifier. |
| itemId | String(25) | The item to be deleted from the sequence. |

### Input Data Definition

**Table 4-390 Input Data Definition**

| Payload | Type | Req | Definition |
|---|---|---|---|
| sequenceOrder | Long(20) | X | The order of the item within its sequence. |
| capacity | BigDecimal(11,2) | X | The amount of the item that can be contained in the area for that item at the unit of measure. |
| width | Long(12) | | The number of items that can fit across the width of the shelf. |
| uomMode | Integer(2) | X | The mode of display of the unit of measure of the item. |
| primaryLocation | Boolean | | Y indicates this is the primary sequence for the item. |
| ticketQuantity | BigDecimal(11,2) | | The quantity of tickets that need to be printed for the item inventory area. |
| ticketFormatId | Long(10) | | The unique identifier of the ticket format used to print the tickets. |

### Example


```
{
  "capacity": 8,
  "sequenceOrder": 2,
  "uomMode": 1
}
```



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# API: Delete Sequence Item

This API is used to delete a sequence item from an area.

### API Basics

**Table 4-391 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{sequenceAreaId}/items/{itemId} |
| Method | DELETE |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | N/A |
| Output | N/A |
| Max Response Limit | N/A |

### Path Parameter Definition

**Table 4-392 Path Parameter Definition**

| Attribute | Type | Definition |
|---|---|---|
| sequencerAreaId | Long(12) | The unique sequence area identifier. |
| itemId | String(25) | The item to be deleted from the sequence. |

# Additional Data Definitions

### Sequence Area Type

**Table 4-393 Sequence Area Type**

| ID | Status |
|---|---|
| 1 | Shopfloor |
| 2 | Backroom |
| 3 | None |

### Sequence UOM Mode

**Table 4-394 Sequence UOM Mode**

| ID | Status |
|---|---|
| 1 | Units |
| 2 | Cases |


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# REST Service: Supplier

This service integrates supplier and supplier item foundation data.

Asynchronous supplier integration is processed through staged messages and is controlled by the MPS Work Type: DcsSupplier.

Asynchronous supplier item integration is processed through staged messages and is controlled by the MPS Work Type: DcsSupplierItem.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/suppliers

## API Definitions

| API | Description |
|---|---|
| Import Suppliers | Imports supplier. |
| Delete Supplier | Deletes a supplier. |
| Import Items | Imports items for a supplier. |
| Delete Items | Deletes items from a supplier. |
| Import Item UOMs | Imports units of measure for a supplier item. |
| Delete Item UOMs | Deletes units of measure from a supplier item. |
| Import Item Countries | Imports countries for a supplier item. |
| Delete Item Countries | Deletes countries from a supplier item. |
| Import Item Dimensions | Imports items dimensions for a supplier item country. |
| Delete Item Dimensions | Deletes dimensions from a supplier item country. |
| Import Item Manufacturers | Imports manufacturers for a supplier item country. |
| Delete Item Manufacturers | Deletes manufacturers from a supplier item country. |

## API: Import Suppliers

Imports a list of suppliers.

If the import contains more than 500 suppliers, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

**API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/import |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |


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| | |
|---|---|
| Input | List of suppliers to Import |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| suppliers | List of details | Yes | A collection of up to 500 suppliers to import. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| name | String (240) | - | The supplier's name. |
| status | Integer | Yes | The supplier’s status: See Supplier Status |
| dunsNumber | String (9) | - | The nine-digit number assigned and maintained by Dun and Bradstreet. |
| taxId | String (18) | - | The tax identification number of the supplier. |
| parentId | Long (128) | - | The parent supplier's identifier. |
| countryCode | String (3) | - | The 2-3 character ISO code of the country. |
| languageCode | String (3) | - | The 2-3 character ISO code of the language. |
| currencyCode | String (3) | - | The 2-3 character ISO code of the currency. |
| returnAllowed | Boolean | - | True is return is allowed to the supplier, N otherwise. |
| authorizationRequired | Boolean | - | True indicates an authorization number is required when merchandise is return to this supplier. |
| orderCreateAllowed | Boolean | - | True indicates at a purchase order can be created for the supplier when processing deliveries from that supplier. |
| vendorCheck | Boolean | - | True indicates that orders from this supplier requires vendor control. |
| vendorCheckPercent | BigDecimal | - | Indicates the percentage of items per receipt that will be marked for vendor checking. |
| quantityLevel | Integer | Yes | The Quantity Level: See Quantity Level |
| deliveryDiscrepancy | Integer | Yes | The delivery discrepancy: See Supplier Delivery Discrepancy Type |
| organizationUnitIds | List<Long> | Yes | A complete list of organization unit identifiers for the supplier. |

### Example Input

```
{
"suppliers": [
```


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{
"supplierId": 5000,
"status": 1,
"quantityLevel": 1,
"deliveryDiscrepancy": 1,
"organizationUnitIds": [ 1 ]
},
{
"supplierId": 5001,
"status": 1,
"returnAllowed": false,
"quantityLevel": 1,
"deliveryDiscrepancy": 1,
"organizationUnitIds": [ 1 ]
}
]
}

### Additional Data Definitions

#### Supplier Delivery Discrepancy Type

| Value | Definition |
|---|---|
| 1 | Allow Any Discrepancy |
| 2 | Allow Overage But Not Short Receipts |
| 3 | Discrepancy Not Allowed |

#### Supplier Status

| Value | Definition |
|---|---|
| 1 | Active |
| 2 | Inactive |

#### Quantity Level

| Value | Definition |
|---|---|
| 1 | Eaches |
| 2 | Cases |

## API: Delete Supplier


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Deletes a supplier.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/{supplierId}/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | None |
| Output | None |
| Max Response Limit | 1000 |

### Path Parameter Definitions

| Attribute | Definition |
|---|---|
| supplierId | The internal identifier of the supplier. |

## API: Import Items

Imports supplier items. Later during asynchronous processing, it validates that both the supplier and item exist before inserting new records.

If the import contains more than 500 supplier items, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/items |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of Supplier Items to import |
| Output | None |
| Max Response Limit | 500 |

### Path Parameter Definitions

| Attribute | Definition |
|---|---|
| supplierId | The internal identifier of the supplier. |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|


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| | | | |
|---|---|---|---|
| items | List of details | Yes | The supplier item information to import. |

**Detail Data Definition**

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| vendorProductNumber | String (256) | - | Vendor product number. |
| primary | Boolean | - | True indicates this supplier is the primary supplier for the item at all locations. |

**Example Input**

{
"items": [
{
"supplierId": 5000,
"itemId": "163715121",
"vendorProductNumber": "abc"
},
{
"supplierId": 5001,
"itemId": "163715121",
"vendorProductNumber": "def"
}
]
}

# API: Delete Items

Deletes supplier items.

If the delete contains more than 500 supplier items, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

**API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/items/delete |
| Method | POST |
| Successful Response | 202 Accepted |


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| | |
|---|---|
| Processing Type | Asynchronous |
| Input | List of supplier items |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| items | List of details | Yes | The supplier item information to delete. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (15) | Yes | The item identifier. |

### Example Input

{

"items":

[

{

"supplierId":"9002",

"itemId": "100637130"

},

{

"supplierId":"9002",

"itemId": "100637148"

}

]

}

# API: Import Item UOMs

Imports supplier item unit of measure information.

If the import contains more than 500 supplier item units of measure, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.


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### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/uoms |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of supplier items UOMs to import |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| uoms | List of details | Yes | The UOMs to import. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| unitOfMeasure | String (4) | Yes | The unit of measure. |
| Value | BigDecimal | Yes | Equivalent item/supplier shipping carton value in unit of measure |

### Example Input

{

"uoms": [

{

"supplierId": 5000,

"itemId": "163715121",

"unitOfMeasure": "KG",

"value": "1.0"

},

{

"supplierId": 5001,

"itemId": "163715121",

"unitOfMeasure": "KG",

"value": "1.0"

}

]


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}

# API: Delete Item UOMs

Deletes supplier item unit of measure information.

If the delete contains more than 500 supplier item units of measure, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/uoms/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of supplier items UOMs to delete |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| uoms | List of details | Yes | The UOMs to delete. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| unitOfMeasure | String (4) | Yes | The unit of measure. |

### Example Input

{

"uoms":

[

{

"supplierId":"9002",

"itemId": "100637130",

"unitOfMeasure":"EA"

},

{

"supplierId":"9002",


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"itemId": "100637148",

"unitOfMeasure":"EA"

}

]

# API: Import Item Countries

Imports supplier item country information. If the imported supplier item country is for the primary supplier of the item, the item's case size will be updated on the item master to reflect the imported case size.

If the import contains more than 500 supplier item countries, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/countries |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of supplier items country to import |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| countries | List of details | Yes | The countries to import. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| countryCode | String (3) | Yes | The ISO country code of the supplier that produces the item. |
| caseSize | BigDecimal | Yes | Number of items with a case from the supplier. |
| unitCostCurrency | String (3) | - | The unit cost currency for that item and supplier in that country. |
| unitCostValue | BigDecimal | - | The unit cost of the item and supplier in that country. |

### Example Input

{


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```
  "countries": [
    {
      "supplierId": 5100,
      "itemId": "163715121",
      "countryCode": "US",
      "caseSize":7
    },
    {
      "supplierId": 5200,
      "itemId": "163715121",
      "countryCode": "US",
      "caseSize":8
    }
  ]
}
```


# API: Delete Item Countries

Deletes supplier item country information.

If the delete contains more than 500 supplier item countries, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/countries/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of supplier items country to remove |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| countries | List of details | Yes | The countries to remove. |


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### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| countryCode | String (3) | Yes | The ISO country code of the supplier that produces the item. |

### Example Input

{

"countries":

[

{

"supplierId":"9002",

"itemId": "100637130",

"countryCode":"US"

}

]

}

## API: Import Item Dimensions

Imports supplier item country dimension information.

If the import contains more than 500 supplier item dimensions, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/dimensions |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of supplier items dimensions to import |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| dimensions | List of details | Yes | The dimensions to import. |


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### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| countryCode | String (3) | Yes | The ISO country code of the supplier that produces the item. |
| dimensionName | String (6) | Yes | Dimension name |
| presentationMethod | String (6) | - | Describes the packaging method |
| Length | BigDecimal | - | The length in dimension unit of measure. |
| Width | BigDecimal | - | The width in dimension unit of measure. |
| Height | BigDecimal | - | The height in dimension unit of measure. |
| dimensionUom | String (4) | - | The unit of measure of the dimensions. |
| Weight | BigDecimal | - | The weight of the object in weight unit of measure. |
| netWeight | BigDecimal | - | The net weight of the goods without packaging in weight unit of measure. |
| weightUom | String (4) | - | The weight unit of measure. |
| liquidVolume | BigDecimal | - | The liquid value or capacity of the object. |
| liquidVolumeUom | String (4) | - | The liquid volume unit of measure. |
| statisticalCube | BigDecimal | - | A statistical value of the object's dimensions used for shipment loading purposes. |

### Example Input

{

"dimensions": [

{

"supplierId": 5100,

"itemId": "163715121",

"countryCode": "US",

"dimensionName": "Hello"

},

{

"supplierId": 7100,

"itemId": "163715121",

"countryCode": "US",

"dimensionName": "Bye"

}

]


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}

# API: Delete Item Dimensions

Deletes supplier item country dimension information.

If the delete contains more than 500 supplier items, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/dimensions/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of supplier items dimensions to remove |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| Dimensions | List of details | Yes | The dimensions to remove. |

### Supplier Items Dimensions Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| countryCode | String (3) | Yes | The ISO country code of the supplier that produces the item |
| dimensionName | String (6) | Yes | Dimension name |

### Example Input

{

"dimensions":

[

{

"supplierId":"9002",

"itemId": "100637130",

"countryCode":"US",

"dimensionName":"Dimen1"

},


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{

"supplierId":"9002",

"itemId": "100637148",

"countryCode":"US",

"dimensionName":"Dimen2"

}

]

}

# API: Import Item Manufacturers

Import supplier item country manufacturer information.

If the import contains more than 500 supplier item manufacturers, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/manufacturers |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of supplier items manufacturer to import |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| manufacturers | List of details | Yes | The manufacturers to import. |

### Detail Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| countryCode | String (3) | Yes | The ISO country code of the supplier that produces the item. |
| primary | Boolean | - | True indicates it is primary country of manufacture. |


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**Example Input**

{
"manufacturers": [
{
"supplierId": 5100,
"itemId": "163715121",
"countryCode": "US",
"primary": true
},
{
"supplierId": 7100,
"itemId": "163715121",
"countryCode": "US",
"primary": true
}
]
}

# API: Delete Item Manufacturers

Deletes supplier item country manufacturer information.

If the delete contains more than 500 supplier item manufacturers, an input too large error will be returned.

A "Forbidden" response will occur if application is integrated with MFCS or RMS.

**API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/manufacturers/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of supplier items manufacturers to remove |
| Output | None |
| Max Response Limit | 500 |

**Input Data Definition**

| Attribute | Data Type | Required | Description |
|---|---|---|---|


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| | | | |
|---|---|---|---|
| manufacturers | List of details | Yes | The manufacturers to remove. |

**Detail Data Definition**

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| supplierId | Long (10) | Yes | The supplier identifier. |
| itemId | String (25) | Yes | The item identifier. |
| countryCode | String (3) | Yes | The ISO country code of the supplier that produces the item. |

**Example Input**

{
"manufacturers":
[
{
"supplierId":"9002",
"itemId": "100637130",
"countryCode":"US"
},
{
"supplierId":"9002",
"itemId": "100637148",
"countryCode":"US"
}
]
}

# REST Service: Ticket

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/tickets

## API Definitions


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| API | Description |
|---|---|
| **readTicket** | This API reads a current actively ticket by its identifier. |
| findTickets | API is used to find summarized ticket headers for a set of criteria. |
| readArchivedTicket | This API reads a previously printed and archived ticket by its identifier. |
| findArchivedTickets | API is used to find archived ticket summaries. |
| createTickets | Creates new tickets within the system. |
| updateTickets | Updates current tickets within the system. |
| printTickets | Prints the requested tickets. |
| findTicketFormats | Reads all the available ticket formats. |
| findTicketPrinters | Finds the printers available to print tickets. |

# API: readTicket

This API reads a current actively ticket by its identifier.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/{ticketId} |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | The ticket identifier |
| Output | The ticket |

### Output Data Definition

| Column | Type | Definition |
|---|---|---|
| ticketId | Long(12) | The unique ticket identifier. |
| itemId | String(25) | The item identifier. |
| storeId | Long(10) | The store identifier. |
| originType | Integer(2) | The origin type (See Index) |
| ticketFormatId | Long(12) | The identifier of the ticket format used for printing. |
| ticketFormatDescription | String(100) | The description of the ticket format associated to the ticket. |
| ticketFormatType | Integer(4) | The type of the ticket format associated to the ticket. |
| ticketFormatReference | String(255) | The format reference used to print the ticket. |
| ticketFormatZplId | Long(12) | The ZPL format file identifier. |
| ticketCount | Integer(3) | The number of instances of this ticket to print. |
| ticketSequence | Integer(3) | The sequence number of a ticket within a ticket grouping. |
| printQuantity | BigDecimal(12,4) | The quantity to be printed on the ticket. |
| printDate | Date | The date the ticket should be printed. |


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| | | |
|---|---|---|
| groupId | Long(12) | An internal EICS grouping identifier that groups the tickets. |
| groupIdExternal | String(128) | An external system grouping identifier that groups the tickets. |
| autoPrint | Boolean | True if the ticket should automatically print, false if the ticket requires manual printing. |
| autoRefeshQuantity | Boolean | True indicates the ticket count gets refreshed with SOH at the time of printing, false it prints as is. |
| countryOfManufacture | String(3) | A two letter country code denoting the country of manufacture for the item. |
| shortDescription | String(255) | The short description of the item. |
| longDescription | String(400) | The long description of the item. |
| shortDescriptionLanguage | String(255) | The short description of the item in the language of the store. |
| longDescriptionLanguage | String(400) | The long description of the item in the language of the store. |
| differentiatorType1 | String(10) | The description of the differentiator type for differentiator 1. |
| differentiatorType2 | String(10) | The description of the differentiator type for differentiator 2. |
| differentiatorType3 | String(10) | The description of the differentiator type for differentiator 3. |
| differentiatorType4 | String(10) | The description of the differentiator type for differentiator 4. |
| differentiatorDescription1 | String(255) | The description of differentiator 1 of the item. |
| differentiatorDescription2 | String(255) | The description of differentiator 2 of the item. |
| differentiatorDescription3 | String(255) | The description of differentiator 3 of the item. |
| differentiatorDescription4 | String(255) | The description of differentiator 4 of the item. |
| departmentId | Long(12) | The department identifier of the item. |
| departmentName | String(360) | The department name of the item. |
| classId | Long(12) | The class identifier of the item. |
| className | String(360) | The class name of the item. |
| subclassId | Long(12) | The subclass identifier of the item. |
| subclassName | String(360) | The subclass name of the item. |
| primaryUpc | String(25) | The primary Unique Product Code for the item. |
| priceCurrency | String(3) | The currency code of the ticket price. |
| priceAmount | BigDecimal(12,4) | The amount of the ticket price. |
| priceType | Integer(3) | The type of the ticket price. (See Index) |
| priceUom | String(4) | The unit of measure of the ticket price. |
| priceActiveDate | Date | The date the ticket price became active. |
| priceExpireDate | Date | The date the ticket price expires. |
| mutliUnitPriceCurrency | String(3) | The currency code of the ticket's multi-unit price. |
| multiUnitPriceAmount | BigDecimal(12,4) | The amount of the ticket's multi-unit price. |
| multiUnitPriceUom | String(4) | The unit of measure of the ticket's multi-unit price. |


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| | | |
|---|---|---|
| multiUnitQuantity | BigDecimal(12,4) | The multi-unit quantity associated to the price. |
| overridePriceCurrency | String(3) | The override price currency code. |
| overridePriceAmount | BigDecimal(20,4) | The override price amount. |
| previousPriceCurrency | String(3) | The currency code of the previous price. |
| previousPriceAmount | BigDecimal(12,4) | The amount of the previous price. |
| previousPriceType | Integer(3) | The price type of the previous price. |
| lowestMonthlyPriceCurrency | String(3) | The currency code of the lowest monthly price. |
| lowestMonthlyPriceAmount | BigDecimal(12,4) | The amount of the lowest monthly price. |
| lowestMonthlyPriceType | Integer(3) | The price type of the lowest monthly price. |
| printedDate | Date | The date that the ticket was printed. |
| printedUser | String(128) | The user that printed the ticket. |
| createDate | Date | The date the ticket was created. |
| createUser | String(128) | The user that created the ticket. |
| updateDate | Date | The date the ticket was last updated. |
| updateUser | String(128) | The user that last updated the ticket. |
| udas | Collection | A group of associated user defined attributes. |

**UDA**

| Column | Type | Definition |
|---|---|---|
| name | String | The name of the user defined attribute. |
| value | String | The value of the user defined attributes. |

# API: findTickets

API is used to find summarized ticket headers for a set of criteria.

If maximum results are exceeded, additional or more limiting input criteria will be required.

**API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query Parameters |
| Output | List of Ticket Headers |
| Maximum Results Allowed | 5,000 |


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### Input Data Definition

| Attribute | Type | Definition |
|---|---|---|
| itemId | String(25) | Include only records with this item identifier. |
| storeId | Long(10) | Include only records with this store identifier. |
| ticketFormatId | Long(12) | Include only records with this ticket format identifier. |
| groupId | Long(12) | Include only records with this EICS group identifier. |
| groupIdExternal | String(128) | Include only records with this external system group identifier. |
| printDateFrom | String | Include only records on or after this scheduled print date and time. |
| printDateTo | String | Include only records on or before this scheduled print date and time. |
| updateDateFrom | String | Include only records on or after this scheduled print date and time. |
| updateDateTo | String | Include only records on or before this scheduled print date and time. |

### Output Data Definition

| Column | Type | Definition |
|---|---|---|
| ticketId | Long(12) | The unique ticket identifier. |
| itemId | String(25) | The item identifier. |
| storeId | Long(10) | The store identifier. |
| originType | Integer(2) | The origin type (See Index) |
| ticketFormatId | Long(12) | The identifier of the ticket format used for printing. |
| ticketSequence | Integer(3) | The sequence number of a ticket within a ticket grouping. |
| groupId | Long(12) | An internal EICS grouping identifier that groups the tickets. |
| groupIdExternal | String(128) | An external system grouping identifier that groups the tickets. |
| autoPrint | Boolean | True if the ticket should automatically print, false if the ticket requires manual printing. |
| printDate | Date | The date the ticket should be printed. |
| printQuantity | BigDecimal(12, 4) | The quantity to be printed on the ticket. |
| updateDate | Date | The date the ticket was last updated. |

## API: readArchivedTicket

This API reads a previously printed and archived ticket by its identifier.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/archives/{ticketId} |
| Method | GET |


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| | |
|---|---|
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | The ticket identifier |
| Output | The ticket details |

### Output Data Definition

See readTicket() for the output data definition of this API.

## API: findArchivedTickets

API is used to find archived ticket summaries.

If the number of tickets found exceeds the limit, additional or more limiting input criteria will be required.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/archives |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query Parameters |
| Output | List of Ticket Headers |
| Maximum Results Allowed | 5,000 |

### Input Data Definition

| Attribute | Type | Definition |
|---|---|---|
| itemId | String(25) | Include only records with this item identifier. |
| storeId | Long(10) | Include only records with this store identifier. |
| ticketFormatId | Long(12) | Include only records with this ticket format identifier. |
| groupId | Long(12) | Include only records with this EICS group identifier. |
| groupIdExternal | String(128) | Include only records with this external system group identifier. |
| printedDateFrom | String | Include only records that were printed on or after this date and time. |
| printedDateTo | String | Include only records that were printed on or before this date and time. |

### Output Data Definition

| Column | Type | Definition |
|---|---|---|
| ticketId | Long(12) | The unique ticket identifier. |
| itemId | String(25) | The item identifier. |
| storeId | Long(10) | The store identifier. |


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| | | |
|---|---|---|
| originType | Integer(2) | The origin type (See Index) |
| ticketFormatId | Long(12) | The identifier of the ticket format used for printing. |
| ticketSequence | Integer(3) | The sequence number of a ticket within a ticket grouping. |
| groupId | Long(12) | An internal EICS grouping identifier that groups the tickets. |
| groupIdExternal | String(128) | An external system grouping identifier that groups the tickets. |
| printedDate | Date | The date the ticket was printed. |
| printQuantity | BigDecimal(12,4) | The quantity printed on the ticket. |
| priceCurrency | String(3) | The currency of the price of the ticket. |
| priceAmount | BigDecimal(12,4) | The amount of the price of the ticket. |

# API: createTickets

Creates new tickets within the system.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | POST |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Ticket group |
| Output | List of ticket identifying information |
| Maximum Input Allowed | 2,000 tickets within the group |

### Input Data Definition

| Payload | Type | Req | Definition |
|---|---|---|---|
| storeId | Long(10) | X | The store identifier. |
| groupIdExternal | String(128) | | An external system grouping identifier that groups the tickets. |
| printDate | Date | X | The date the ticket should be printed. |
| autoPrint | Boolean | | True if the ticket should automatically print, false if the ticket requires manual printing. Defaults to false. |
| autoRefeshQuantity | Boolean | | True indicates the ticket count gets refreshed with SOH at the time of printing, false it prints as is. Defaults to false. |
| tickets | Collection | X | The tickets to create. |

### Ticket

| Payload | Type | Req | Definition |
|---|---|---|---|
| itemId | String(25) | X | The item identifier. |


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| | | | |
|---|---|---|---|
| originType | Integer(2) | X | The origin type (See Index) |
| ticketFormatId | Long(12) | X | The identifier of the ticket format used for printing. |
| ticketCount | Integer(3) | X | The number of instances of this ticket to print. |
| ticketSequence | Integer(3) | X | The sequence number of a ticket within a ticket grouping. |
| printQuantity | BigDecimal(12, 4) | X | The quantity to be printed on the ticket. |
| overridePriceCurrency | String(3) | | The override price currency code. Required if an amount is entered. |
| overridePriceAmount | BigDecimal(20, 4) | | The override price amount. |
| countryOfManufacture | String(3) | | A two letter country code denoting the country of manufacture for the item. |

### Output Data Definition

| Payload | Type | Definition |
|---|---|---|
| ticketId | Long(12) | The unique ticket identifier. |
| storeId | Long(10) | The store identifier. |
| ticketFormatId | Long(12) | The identifier of the ticket format used for printing. |

### Example Input


```
{
   "storeId": 5000,
   "groupIdExternal": "123456",
   "printDate": "2023-01-10T23:59:59-05:00",
   "autoPrint": false,
   "autoRefreshQuantity": false,
   "tickets": [
      {
         "itemId": "100637121",
         "originType": 1,
         "ticketFormatId": 1,
         "ticketCount": 2,
         "ticketSequence": 3
      },
      {
         "itemId": "100637113",
```



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```
            "originType": 2,
            "ticketFormatId": 2,
            "ticketCount": 4,
            "ticketSequence": 5
        }
    ]
}
```


# API: Update Tickets

Updates current tickets within the system.

If a field that is not required contains an empty or null value, the ticket will be updated to that empty or null value.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/update |
| Method | POST |
| Success Response | 204 No Content |
| Processing Type | Synchronous |
| Processing Type | Synchronous |
| Input | Tickets |
| Output | N/A |
| Maximum Input Allowed | 2,000 tickets |

### Input Data Definition

| Payload | Type | Req | Definition |
|---|---|---|---|
| ticketId | Long(12) | X | The unique ticket identifier. |
| originType | Integer(2) | X | The origin type (See Index) |
| ticketCount | Integer(3) | X | The number of instances of this ticket to print. |
| ticketSequence | Integer(3) | X | The sequence number of a ticket within a ticket grouping. |
| printQuantity | BigDecimal(12,4) | X | The quantity to be printed on the ticket. |
| printDate | Date | X | The date the ticket should be printed. |
| autoPrint | Boolean | | True if the ticket should automatically print, false if the ticket requires manual printing. |
| autoRefeshQuantity | Boolean | | True indicates the ticket count gets refreshed with SOH at the time of printing, false it prints as is. |
| overridePriceCurrency | String(3) | | The override price currency code. Required if an amount is entered. |


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| | | |
|---|---|---|
| overridePriceAmount | BigDecimal(20,4) | The override price amount. |
| countryOfManufacture | String(3) | A two letter country code denoting the country of manufacture for the item. |

**Example Input**


```
{
   "tickets": [
      {
         "ticketId": 8,
         "originType": 2,
         "printDate": "2023-01-10T23:59:59-05:00",
         "ticketCount": 22,
         "ticketSequence": 33
      },
      {
         "ticketId": 9,
         "originType": 1,
         "printDate": "2023-01-10T23:59:59-05:00",
         "ticketCount": 44,
         "ticketSequence": 55
      }
   ]
}
```


# API: printTickets

Prints the requested tickets. This can print both current tickets and previously printed tickets.

It is assumed that the calling system will have verified or retrieved the ticket ids prior. The ticket ids and archived ticket ids will not be validated.

This service operation will simply print any tickets that are found that match identifiers passed in and ignore any identifiers for which tickets are not found.

Depending on printing configuration with the system, the printing may occur synchronous and real-time or the tickets may be staged and sent asynchronously to another system after a short delay.

**API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/print |


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| | |
|---|---|
| Method | POST |
| Success Response | 204 No Content |
| Processing Type | Synchronous/Asynchronous |
| Input | Ticket identifiers |
| Output | N/A |
| Maximum Input Allowed | 100 total ticket ids |

### Input Data Definition

| Payload | Type | Req | Definition |
|---|---|---|---|
| printerId | Long | X | The identifier of the printer to print the tickets on. |
| refreshQuantity | Boolean | | If true, the quantities of all the tickets will be refreshed prior to printing. If false, they will not. |
| ticketIds | List<Long> | | A list of ticket identifiers of the tickets to print. If this is null or empty, then archived ticket ids must contain a value. Not validated. |
| archivedTicketIds | List<Long> | | A list of archived ticket identifiers of tickets to print. If this is null or empty, then ticket ids must contain a value. Not validated. |

## API: findTicketFormats

Reads all the available ticket formats.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/formats |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query parameters |
| Output | List of ticket formats |

### Input Data Definition

| Column | Type | Definition |
|---|---|---|
| storeId | Long(10) | Include only ticket formats available at this store. |

### Output Data Definition

| Column | Type | Definition |
|---|---|---|
| formatId | Long(12) | The unique format identifier. |
| storeId | Long(10) | The store identifier. |


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| | | |
|---|---|---|
| description | String(100) | A description of the ticket (possibly from ticket format). |
| type | Integer(4) | The type of ticket format. (See Index) |
| zplTemplateId | Long(12) | The unique identifier to the ZPL template to be used for printing. |
| formatReference | String(255) | A reference to the format content to use for this format. |
| defaultFormat | Boolean | True if this is the default form for the type, False otherwise. |
| defaultPrinterId | Long(6) | Teh default printer identifier for the format. |
| createDate | Date | The date the format was created. |
| createUser | String(128) | The user that created the format. |
| updateDate | Date | The date the format was last updated. |
| updateUser | String(128) | The user that last updated the format. |

# API: findTicketPrinters

Finds the printers available to print tickets.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/printers |
| Method | GET |
| Success Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query parameters |
| Output | List of printers |

### Query Params

| Column | Type | Definition |
|---|---|---|
| storeId | Long(10) | Include only ticket printers available at this store. |

### Output Data Definition

| Column | Type | Definition |
|---|---|---|
| printerId | Long(6) | The unique identifier of the printer. |
| storeId | Long(10) | The identifier of the store the printer is assigned to. |
| printerType | Integer(3) | The print type of the printer (see Index). |
| printerDescription | String(200) | A description of the printer. |
| printerUri | String(300) | The URI address of the printer. |
| printerName | String(128) | The logical name of the printer. |
| defaultManifest | Boolean | True if the printer is the default printer at the store for manifest printing. |
| defaultPreshipment | Boolean | True if the printer is the default printer at the store for preshipment printing. |


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### Additional Data Definitions

#### Ticket Format Type

| ID | Description |
|---|---|
| 1 | Item Basket |
| 2 | Shelf Label |

#### Price Type

| ID | Description |
|---|---|
| 1 | Permanent |
| 2 | Promotional |
| 3 | Clearance |
| 4 | Clearance Reset |

#### Printer Type

| ID | Description |
|---|---|
| 1 | Item Ticket |
| 2 | Shelf Label |
| 3 | Postscript |

#### Ticket Origin Type

| ID | Description |
|---|---|
| 1 | External |
| 2 | Price Change |
| 3 | Foundation |
| 4 | Manual |
| 5 | Promotional Price Change |
| 6 | Clearance Price Change |
| 7 | Permanent Price Change |
| 8 | Reset Price Change |

# REST Service: Transfer

Transfers define the movement of goods between internal entities or trading partners. Requests from corporate or other stores for shipping inventory out can be auto-approved without human interaction and it is possible to transfer unavailable inventory between entities with a store as a starting or ending point of the transaction. A transfer defines the logical movement of goods and are often created at corporate offices. They define the intent of what needs to be shipped. Some validations and features to consider include transfer zone restrictions may be enforced, shipping network restrictions may be enforced, auto receiving may be active, and non-inventory items may be transferred. A transfer request is a transfer that is initiated by the receiving location and is awaiting approval from the sending location. Once approved, it can be shipped. A transfer can be initiated by the sending location without any


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request or input from the receiving location. Once approved, it can be shipped. This service defines operations to manage transfer information by integration with an external system.

## Server Base URL

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Transfer

This section describes the Find Transfer API. The Find Transfer API finds up to 10,000 summary header records of both transfers and transfer requests that match the search criteria.

### Method

```
GET
```

### URL

```
/transfers
```

### Request

**Table 4-395 Find Transfer — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| externalTransferId | NA | string($text128) (query) | Include only transfers with this external transfer identifier. |
| sourceLocationId | NA | integer($int10) (query) | Include only transfers with this source location identifier. |
| sourceLocationType | NA | integer($int4) (query) | Include only transfers with this source location type. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Available values : 1, 2, 3 |
| destinationLocationId | NA | integer($int10) (query) | Include only transfers with this destination location identifier. |
| destinationLocationType | NA | integer($int4) (query) | Include only transfers with this desintation location type. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Available values : 1, 2, 3 |


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**Table 4-395 (Cont.) Find Transfer — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| status | NA | integer($int4) (query) | Include only shipments with this delivery status. Valid values are:<br>1 - New Request<br>2 - Requeste<br>3 - Request In Progress<br>4 - Rejected Request<br>5 - Canceled Request<br>6 - Transfer In Progress<br>7 - Approved<br>8 - In Shipping<br>9 - Completed Transfer<br>10 - Canceled Transfer<br>99 - Active<br>Available values : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 99 |
| itemId | NA | string($text25) (query) | Include only transfers that contain this item. |
| updateDateFrom | NA | string($date-time) (query) | Include only transfers with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only transfers with an update date on or before this date. |

## Responses

This section describes the responses of the Find Transfer API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "transferid": 11111,
    "externalTransferId": "AX57684",
    "sourceLocationType": 1,
    "sourcelocationId": 4000,
    "desintationLocationType": 1,
    "destinationLocationId": 5000,
    "status": 1,
    "originType": 1,
    "notAfterDate": "2024-09-19T09:10:14.140Z",
    "createDate": "2024-09-19T09:10:14.140Z",
    "updateDate": "2024-09-19T09:10:14.140Z",
```



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```
    "requestDate": "2024-09-19T09:10:14.140Z",
    "approvalDate": "2024-09-19T09:10:14.140Z"
  }
]
```


## Schema — TransferSummaryIdo

**Table 4-396 TransferSummaryIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferid | NA | integer($int15) example: 11111 | The unique identifier of the transfer. |
| externalTransferId | NA | string($text128) example: AX57684 | An identifier supplied from an external system. |
| sourceLocationType | NA | integer($int4) example: 1 | The type of the source location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| sourcelocationId | NA | integer($int10) example: 4000 | The identifier of the source location of the transfer. |
| desintationLocationType | NA | integer($int4) example: 1 | The type of the destination location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| destinationLocationId | NA | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |
| status | NA | integer($int4) example: 1 | The current status of the transfer. Valid values are:<br>1 - New Request<br>2 - Request<br>3 - Request In Progress<br>4 - Rejected Request<br>5 - Canceled Request<br>6 - Transfer In Progress<br>7 - Approved<br>8 - In Shipping<br>9 - Completed Transfer<br>10 - Canceled Transfer<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |


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**Table 4-396 (Cont.) TransferSummaryIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| originType | NA | integer($int4) example: 1 | The origin type of the transfer. Valid values are:<br>1 - External<br>2 - Internal<br>3 - Adhoc<br>Enum: [ 1, 2, 3 ] |
| notAfterDate | NA | string($date-time) | A date after which the transfer should not be shipped. |
| createDate | NA | string($date-time) | The date the transfer was created. |
| updateDate | NA | string($date-time) | The date the transfer was last updated. |
| requestDate | NA | string($date-time) | The date the transfer was requested. |
| approvalDate | NA | string($date-time) | The date the transfer was approved. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Transfer

The Create Transfer API creates a new transfer from a source store that does not need involvement or approval from a receiving location. The transfer will be created as in progress and must be approved before shipping can begin.

### Method

```
POST
```

### URL

```
/transfers
```

### Request

There are no request parameters.


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The request body is appliaction/json.

Details about the transfer to create.

## Example Value

```
{
  "sourceStoreId": 5000,
  "destinationLocationType": 1,
  "destinationLocationId": 5000,
  "notAfterDate": "2025-01-10T12:45:31.430Z",
  "authorizationCode": "1111",
  "contextTypeId": 400000,
  "contextValue": "Repair Needed",
  "useUnavailableInventory": false,
  "allowPartialDelivery": true,
  "lineItems": [
    {
      "itemId": "10045600",
      "quantity": 100,
      "caseSize": 3
    }
  ],
  "notes": [
    "Transfer needs to be rushed.",
    "Items are in the back room."
  ]
}
```

## Schema — TransferCreateIdo

**Table 4-397 TransferCreateIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| sourceStoreId | Yes | integer($int10) example: 5000 | The identifier of the store that will be shipping the goods. |
| destinationLocationType | Yes | integer($int4) example: 1 | The type of the destination location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| destinationLocationId | Yes | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |
| notAfterDate | NA | string($date-time) | A date after which the transfer should not be shipped. |
| authorizationCode | NA | string($text12) example: 1111 | An authorization code assigned to the transfer. |
| contextTypeId | NA | number($int18) example: 400000 | Unique identifier of a context associated to the transfer. |


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**Table 4-397 (Cont.) TransferCreateIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| contextValue | NA | string($text25) example: Repair Needed | A value or some information related to the context associated to the transfer. |
| useUnavailableInventory | NA | boolean example: false | True if the transfer is for unavailable inventory, false otherwise. |
| allowPartialDelivery | NA | boolean example: true | True indicates that a partial delivery is allowed for the transfer, false indicates it is not. |
| lineItems | Yes | object | A collection of up to 5,000 items to be added to the transfer. |
| notes | NA | string($text2000) example: List [ "Transfer needs to be rushed.", "Items are in the back room." ] | A collection of notes that will be added to the transfer notes. |

**Table 4-398 TransferCreateLineItemIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| quantity | Yes | number($decimal(20,4)) example: 100 | The quantity that is requested. |
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |

## Responses

This section describes the responses of the Create Transfer API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "transferId": 11111,
```


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```
    "externalTransferId": "AX57684",
    "sourceLocationType": 1,
    "sourceLocationId": 4000,
    "destinationLocationType": 1,
    "destinationLocationId": 5000,
    "status": 1,
    "originType": 1,
    "notAfterDate": "2025-01-08T12:56:00.798Z",
    "createDate": "2025-01-08T12:56:00.798Z",
    "updateDate": "2025-01-08T12:56:00.798Z",
    "requestDate": "2025-01-08T12:56:00.798Z",
    "approvalDate": "2025-01-08T12:56:00.798Z"
  }
]
```


## Schema — TransferSummaryIdo

**Table 4-399 TransferSummaryIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferid | NA | integer($int15) example: 11111 | The unique identifier of the transfer. |
| externalTransferId | NA | string($text128) example: AX57684 | An identifier supplied from an external system. |
| sourceLocationType | NA | integer($int4) example: 1 | The type of the source location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| sourcelocationId | NA | integer($int10) example: 4000 | The identifier of the source location of the transfer. |
| desintationLocationType | NA | integer($int4) example: 1 | The type of the destination location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| destinationLocationId | NA | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |


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**Table 4-399 (Cont.) TransferSummaryIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| status | NA | integer($int4) example: 1 | The current status of the transfer. Valid values are:<br>1 - New Request<br>2 - Request<br>3 - Request In Progress<br>4 - Rejected Request<br>5 - Canceled Request<br>6 - Transfer In Progress<br>7 - Approved<br>8 - In Shipping<br>9 - Completed Transfer<br>10 - Canceled Transfer<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| originType | NA | integer($int4) example: 1 | The origin type of the transfer. Valid values are:<br>1 - External<br>2 - Internal<br>3 - Adhoc<br>Enum: [ 1, 2, 3 ] |
| notAfterDate | NA | string($date-time) | A date after which the transfer should not be shipped. |
| createDate | NA | string($date-time) | The date the transfer was created. |
| updateDate | NA | string($date-time) | The date the transfer was last updated. |
| requestDate | NA | string($date-time) | The date the transfer was requested. |
| approvalDate | NA | string($date-time) | The date the transfer was approved. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Transfer

The Read Transfer API retrieves all the details about a transfer or transfer request.


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## Method

```
GET
```

## URL

```
/transfers/{transferId}
```

## Request

**Table 4-400 Read Transfer — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int12) (path) | The unique identifier of the transfer. |

## Responses

This section describes the responses of the Read Transfer API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "transferId": 11111,
    "externalTransferId": "AX57684",
    "distroNumber": "440213",
    "sourceLocationType": 1,
    "sourceLocationId": 4000,
    "destinationLocationType": 1,
    "destinationLocationId": 5000,
    "status": 1,
    "originType": 1,
    "contextTypeId": 400000,
    "contextTypeCode": "CNTXA",
    "contextValue": "Repair Needed",
    "customerOrderNumber": "67008700",
    "fulfillmentOrderNumber": "67008711",
    "allowPartialDelivery": true,
    "useAvailable": true,
```



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```
    "authorizationCode": "1111",
    "notAfterDate": "2025-01-08T13:34:27.151Z",
    "createDate": "2025-01-08T13:34:27.151Z",
    "createUser": "smith123",
    "updateDate": "2025-01-08T13:34:27.151Z",
    "updateUser": "smith123",
    "requestDate": "2025-01-08T13:34:27.151Z",
    "requestUser": "smith123",
    "approvalDate": "2025-01-08T13:34:27.151Z",
    "approvedUser": "smith123",
    "importId": "smith123",
    "lineItems": [
      {
        "lineId": 2222222,
        "itemId": "10045600",
        "caseSize": 3,
        "quantityRequested": 100,
        "quantityApproved": 90,
        "quantityShipping": 50,
        "quantityShipped": 40,
        "quantityReceived": 20,
        "quantityDamaged": 20,
        "preferredUom": "EA"
      }
    ]
  }
]
```


## Schema — TransferIdo

**Table 4-401 TransferIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferid | NA | integer($int15) example: 11111 | The unique identifier of the transfer. |
| externalTransferId | NA | string($text128) example: AX57684 | An identifier supplied from an external system. |
| distroNumber | NA | string($text128) example: 440213 | A distribution number( used for integration with other systems). It is another type of external identifier. |
| sourceLocationType | NA | integer($int4) example: 1 | The type of the source location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| sourcelocationId | NA | integer($int10) example: 4000 | The identifier of the source location of the transfer. |


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**Table 4-401 (Cont.) TransferIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| desintationLocationType | NA | integer($int4) example: 1 | The type of the destination location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| destinationLocationId | NA | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |
| status | NA | integer($int4) example: 1 | The current status of the transfer. Valid values are:<br>1 - New Request<br>2 - Requeste<br>3 - Request In Progress<br>4 - Rejected Request<br>5 - Canceled Request<br>6 - Transfer In Progress<br>7 - Approved<br>8 - In Shipping<br>9 - Completed Transfer<br>10 - Canceled Transfer<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| originType | NA | integer($int4) example: 1 | The origin type of the transfer. Valid values are:<br>1 - External<br>2 - Internal<br>3 - Adhoc<br>Enum: [ 1, 2, 3 ] |
| contextTypeId | NA | number($int18) example: 400000 | Unique identifier of a context associated to the transfer. |
| contextTypeCode | NA | integer($int4) example: CNTXA | An external code of a context associated to the transfer. |
| contextValue | NA | string($text25) example: Repair Needed | A value or some information related to the context associated to the transfer. |
| customerOrderNumber | NA | string($text128) example: 67008700 | External system identifier of a customer order. |
| fulfillmentOrderNumber | NA | string($text128) example: 67008711 | External system identifier of a fulfillment order. |
| allowPartialDelivery | NA | boolean example: true | True indicates that parial delivery is allowed for the transfer, false indicates it is not. |
| useAvailable | NA | boolean example: true | True indicates the transfer must use available stock, false indicates it uses unavailable stock. |


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**Table 4-401 (Cont.) TransferIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| authorizationCode | NA | string($text12) example: 1111 | An authorization code assigned to the transfer. |
| notAfterDate | NA | string($date-time) | A date after which the transfer should not be shipped. |
| createDate | NA | string($date-time) | The date the transfer was created. |
| createUser | NA | string($text128) example: smith123 | The user that created this transfer. |
| updateDate | NA | string($date-time) | The date the transfer was last updated. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated this transfer. |
| requestDate | NA | string($date-time) | The date the transfer was requested. |
| requestUser | NA | string($text128) example: smith123 | The user that requested this transfer. |
| approvalDate | NA | string($date-time) | The date the transfer was approved. |
| approvedUser | NA | string($text128) example: smith123 | The user that approved this transfer. |
| importId | NA | string($text128) example: smith123 | An identifier from an original data seed import. |
| lineItems | | object | Line items |

**Table 4-402 TransferLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | integer($int15) example: 2222222 | The unique identifier of the line record. |
| itemId | NA | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |
| quantityRequested | NA | number($decimal(20,4)) example: 100 | The quantity that was requested. |
| quantityApproved | NA | number($decimal(20,4)) example: 90 | The quantity that was approved. |
| quantityShipping | NA | number($decimal(20,4)) example: 50 | The quantity that is currently in shipping. |


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**Table 4-402 (Cont.) TransferLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| quantityShipped | NA | number($decimal(20,4)) example: 40 | The quantity that has shipped. |
| quantityReceived | NA | number($decimal(20,4)) example: 20 | The quantity that was received into stock. |
| quantityDamaged | NA | number($decimal(20,4)) example: 20 | The quantity that was received as damaged. |
| preferredUom | NA | string($text4) example: EA | The preferred unit of measure of this line item. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Transfer

The Update Transfer API updates a transfer request that has been requested or updates a newly created transfer that is prior to being approved. It allows the approved quantities to be updated until the transfer becomes approved.

## Method

```
POST
```

## URL

```
/transfers/{transferId}
```

## Request

**Table 4-403 Update Transfer — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int12) (path) | The unique identifier of the transfer. |


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The request body is application/json.

Details about the transfer to update.

## Example Value

```
{
  "contextTypeId": 400000,
  "contextValue": "Repair Needed",
  "allowPartialDelivery": true,
  "notAfterDate": "2025-01-10T12:58:44.635Z",
  "lineItems": [
    {
      "itemId": "10045600",
      "quantity": 100,
      "caseSize": 3
    }
  ],
  "notes": [
    "Transfer needs to be rushed.",
    "Items are in the back room."
  ]
}
```

## Schema — TransferRequestUpdateIdo

**Table 4-404 TransferRequestUpdateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| sourceStoreId | Yes | integer($int10) example: 4000 | The identifier of the source location of the transfer. |
| destinationStoreId | Yes | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |
| contextTypeId | NA | number($int18) example: 400000 | Unique identifier of a context associated to the transfer. |
| contextValue | NA | string($text25) example: Repair Needed | A value or some information related to the context associated to the transfer. |
| allowPartialDelivery | NA | boolean example: true | True indicates that a partial delivery is allowed for the transfer, false indicates it is not. |
| notAfterDate | NA | string($date-time) | A date after which the transfer should not be shipped. |
| lineItems | Yes | object | Up to 5,000 Items to update on the transfer. |


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**Table 4-405 TransferRequestUpdatweLineItemIdo— Object**

| | | | |
|---|---|---|---|
| notes | NA | string($text2000)] example: List [ "Transfer needs to be rushed.", "Items are in the back room." ] | A collection of notes that will be added to the transfer notes. |

# Responses

This section describes the responses of the Update Transfer API.

## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "transferId": 11111,
    "externalTransferId": "AX57684",
    "distroNumber": "440213",
    "sourceLocationType": 1,
    "sourceLocationId": 4000,
    "destinationLocationType": 1,
    "destinationLocationId": 5000,
    "status": 1,
    "originType": 1,
    "contextTypeId": 400000,
    "contextTypeCode": "CNTXA",
    "contextValue": "Repair Needed",
    "customerOrderNumber": "67008700",
    "fulfillmentOrderNumber": "67008711",
    "allowPartialDelivery": true,
    "useAvailable": true,
    "authorizationCode": "1111",
    "notAfterDate": "2025-01-08T13:54:30.666Z",
    "createDate": "2025-01-08T13:54:30.666Z",
    "createUser": "smith123",
    "updateDate": "2025-01-08T13:54:30.666Z",
    "updateUser": "smith123",
    "requestDate": "2025-01-08T13:54:30.666Z",
    "requestUser": "smith123",
    "approvalDate": "2025-01-08T13:54:30.666Z",
    "approvedUser": "smith123",
    "importId": "smith123",
    "lineItems": [
      {
        "lineId": 2222222,
```



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```
        "itemId": "10045600",
        "caseSize": 3,
        "quantityRequested": 100,
        "quantityApproved": 90,
        "quantityShipping": 50,
        "quantityShipped": 40,
        "quantityReceived": 20,
        "quantityDamaged": 20,
        "preferredUom": "EA"
      }
    ]
  }
]
```


## Schema — TransferIdo

**Table 4-406 TransferIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferid | NA | integer($int15) example: 11111 | The unique identifier of the transfer. |
| externalTransferId | NA | string($text128) example: AX57684 | An identifier supplied from an external system. |
| distroNumber | NA | string($text128) example: 440213 | A distribution number( used for integration with other systems). It is another type of external identifier. |
| sourceLocationType | NA | integer($int4) example: 1 | The type of the source location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| sourcelocationId | NA | integer($int10) example: 4000 | The identifier of the source location of the transfer. |
| desintationLocationType | NA | integer($int4) example: 1 | The type of the destination location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| destinationLocationId | NA | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |


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**Table 4-406 (Cont.) TransferIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| status | NA | integer($int4) example: 1 | The current status of the transfer. Valid values are:<br>1 - New Request<br>2 - Requeste<br>3 - Request In Progress<br>4 - Rejected Request<br>5 - Canceled Request<br>6 - Transfer In Progress<br>7 - Approved<br>8 - In Shipping<br>9 - Completed Transfer<br>10 - Canceled Transfer<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| originType | NA | integer($int4) example: 1 | The origin type of the transfer. Valid values are:<br>1 - External<br>2 - Internal<br>3 - Adhoc<br>Enum: [ 1, 2, 3 ] |
| contextTypeId | NA | number($int18) example: 400000 | Unique identifier of a context associated to the transfer. |
| contextTypeCode | NA | integer($int4) example: CNTXA | An external code of a context associated to the transfer. |
| contextValue | NA | string($text25) example: Repair Needed | A value or some information related to the context associated to the transfer. |
| customerOrderNumber | NA | string($text128) example: 67008700 | External system identifier of a customer order. |
| fulfillmentOrderNumber | NA | string($text128) example: 67008711 | External system identifier of a fulfillment order. |
| allowPartialDelivery | NA | boolean example: true | True indicates that parial delivery is allowed for the transfer, false indicates it is not. |
| useAvailable | NA | boolean example: true | True indicates the transfer must use available stock, false indicates it uses unavailable stock. |
| authorizationCode | NA | string($text12) example: 1111 | An authorization code assigned to the transfer. |
| notAfterDate | NA | string($date-time) | A date after which the transfer should not be shipped. |
| createDate | NA | string($date-time) | The date the transfer was created. |
| createUser | NA | string($text128) example: smith123 | The user that created this transfer. |
| updateDate | NA | string($date-time) | The date the transfer was last updated. |


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**Table 4-406 (Cont.) TransferIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| updateUser | NA | string($text128) example: smith123 | The user that last updated this transfer. |
| requestDate | NA | string($date-time) | The date the transfer was requested. |
| requestUser | NA | string($text128) example: smith123 | The user that requested this transfer. |
| approvalDate | NA | string($date-time) | The date the transfer was approved. |
| approvedUser | NA | string($text128) example: smith123 | The user that approved this transfer. |
| importId | NA | string($text128) example: smith123 | An identifier from an original data seed import. |
| lineItems | | object | Line items |

**Table 4-407 TransferLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | integer($int15) example: 2222222 | The unique identifier of the line record. |
| itemId | NA | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |
| quantityRequested | NA | number($decimal(20,4)) example: 100 | The quantity that was requested. |
| quantityApproved | NA | number($decimal(20,4)) example: 90 | The quantity that was approved. |
| quantityShipping | NA | number($decimal(20,4)) example: 50 | The quantity that is currently in shipping. |
| quantityShipped | NA | number($decimal(20,4)) example: 40 | The quantity that has shipped. |
| quantityReceived | NA | number($decimal(20,4)) example: 20 | The quantity that was received into stock. |
| quantityDamaged | NA | number($decimal(20,4)) example: 20 | The quantity that was received as damaged. |


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**Table 4-407 (Cont.) TransferLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| preferredUom | NA | string($text4) example: EA | The preferred unit of measure of this line item. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Request

The Create Request API creates a new store-to-store transfer request. The transfer must be released in order to be available to the sending store to later approve or reject. EICS will be the originator of this transfer request, not the external system. To import transfers from an external system, see Import Transfer.

### Method

`POST`

### URL

`/transfers/requests`

### Request

There are no request parameters.

The request body is application/json.

### Example Value

```
{
  "sourceStoreId": 4000,
  "destinationStoreId": 5000,
  "contextTypeId": 400000,
  "contextValue": "Repair Needed",
  "allowPartialDelivery": true,
  "notAfterDate": "2025-01-08T14:01:57.301Z",
  "lineItems": [
    {
```


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```
      "itemId": "10045600",
      "quantity": 100,
      "caseSize": 3
    }
  ],
  "notes": [
    "Transfer needs to be rushed.",
    "Items are in the back room."
  ]
}
```

## Schema — TransferRequestCreateIdo

**Table 4-408 TransferRequestCreateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| sourceStoreId | Yes | integer($int10) example: 4000 | The identifier of the source location of the transfer. |
| destinationStoreId | Yes | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |
| contextTypeId | NA | number($int18) example: 400000 | Unique identifier of a context associated to the transfer. |
| contextValue | NA | string($text25) example: Repair Needed | A value or some information related to the context associated to the transfer. |
| allowPartialDelivery | NA | boolean example: true | True indicates that a partial delivery is allowed for the transfer, false indicates it is not. |
| notAfterDate | NA | string($date-time) | A date after which the transfer should not be shipped. |
| lineItems | Yes | object | A collection of up to 5,000 items that will be added to the transfer. |
| notes | NA | string($text2000)] example: List [ "Transfer needs to be rushed.", "Items are in the back room." ] | A collection of notes that will be added to the transfer notes. |

**Table 4-409 TransferRequestCreateLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600q | The unique identifier of the SKU item. |
| quantity | Yes | number($decimal(20,4)) example: 100 | The quantity that is requested. |


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**Table 4-409 (Cont.) TransferRequestCreateLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |

## Responses

This section describes the responses of the Create Request API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "transferId": 11111,
    "externalTransferId": "AX57684",
    "status": 1
  }
]
```

### Schema — TransferStatusIdo

**Table 4-410 TransferStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| transferId | NA | integer($int15) example: 11111 | The unique identifier of the transfer. |
| externalTransferId | NA | string($text128) example: AX57684 | An identifier supplied from an external system. |


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**Table 4-410 (Cont.) TransferStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| status | NA | integer($int4) example: 1 | The current status of the transfer. Valid values are:<br>1 - New Request<br>2 - Requeste<br>3 - Request In Progress<br>4 - Rejected Request<br>5 - Canceled Request<br>6 - Transfer In Progress<br>7 - Approved<br>8 - In Shipping<br>9 - Completed Transfer<br>10 - Canceled Transfer<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Request

The Update Request API updates requested quantities on a store-to-store request while it is still in new status, prior to being released to the shipping store.

### Method

```
POST
```

### URL

```
/transfers/requests/{transferId}
```

### Request


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**Table 4-411 Update Transfer — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int12) (path) | The unique identifier of the transfer. |

The request body is application/json.

Details about the transfer to update.

## Example Value

```
{
  "sourceStoreId": 4000,
  "destinationStoreId": 5000,
  "contextTypeId": 400000,
  "contextValue": "Repair Needed",
  "allowPartialDelivery": true,
  "notAfterDate": "2025-01-08T14:41:38.414Z",
  "lineItems": [
    {
      "itemId": "10045600",
      "quantity": 100,
      "caseSize": 3
    }
  ],
  "notes": [
    "Transfer needs to be rushed.",
    "Items are in the back room."
  ]
}
```

## Schema — TransferRequestUpdateIdo

**Table 4-412 TransferRequestUpdateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| sourceStoreId | Yes | integer($int10) example: 4000 | The identifier of the source location of the transfer. |
| destinationStoreId | Yes | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |
| contextTypeId | NA | number($int18) example: 400000 | Unique identifier of a context associated to the transfer. |
| contextValue | NA | string($text25) example: Repair Needed | A value or some information related to the context associated to the transfer. |
| allowPartialDelivery | NA | boolean example: true | True indicates that a partial delivery is allowed for the transfer, false indicates it is not. |


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**Table 4-412 (Cont.) TransferRequestUpdateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| notAfterDate | NA | string($date-time) | A date after which the transfer should not be shipped. |
| lineItems | Yes | object | Up to 5,000 Items to update on the transfer. |

**Table 4-413 TransferRequestUpdatweLineItemIdo— Object**

| | | | |
|---|---|---|---|
| notes | NA | string($text2000)] example: List [ "Transfer needs to be rushed.", "Items are in the back room." ] | A collection of notes that will be added to the transfer notes. |

## Responses

This section describes the responses of the Update Request API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Request

The Cancel Request API cancels a new request before it is released to the sending store for approval. This is done when the receiving location decides the transfer is not needed prior to finishing their request. The status must be new request in order to cancel.

## Method

```
POST
```

## URL

```
/transfers/requests/{transferId}/cancel
```


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## Request

**Table 4-414 Cancel Request — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int15) (path) | The unique identifier of the transfer. |

## Responses

This section describes the responses of the Cancel Request API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Release Request

The Release Request API finalizes the request of the transfer at the receiving location and begins the approval process at the sending location.

## Method

`POST`

## URL

`/transfers/requests/{transferId}/cancel`

## Request


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**Table 4-415 Release Request — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int15) (path) | The unique identifier of the transfer. |

## Responses

This section describes the responses of the Release Request API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Approve Request

The Approve Request API approves a transfer request created by a receiving store and released to the sending store. The transfer request must be in requested or request in progress status in order to approve.

## Method

`POST`

## URL

`/transfers/requests/{transferId}/approve`

## Request

**Table 4-416 Approve Request — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int15) (path) | The unique identifier of the transfer. |


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## Responses

This section describes the responses of the Approve Request API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Reject Request

The Reject Request API rejects a transfer request from a receiving store closing out the transfer. This is done when the shipping store decides it will not fulfill it. The status must be requested or request in progress in order for it to be rejected.

## Method

`POST`

## URL

`/transfers/requests/{transferId}/reject`

## Request

**Table 4-417 Reject Request — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int15) (path) | The unique identifier of the transfer. |

## Responses

This section describes the responses of the Reject Request API.

### Response Code: 204


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No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Approve Transfer

The Approve Transfer API approves a transfer created by the sending store moving it to the shipping stage. The status of the transfer must be transfer in progress in order to approve it.

### Method

`POST`

### URL

`/transfers/{transferId}/approve`

### Request

**Table 4-418 Approve Transfer — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int15) (path) | The unique identifier of the transfer. |

### Responses

This section describes the responses of the Approve Transfer API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# Cancel Transfer

The Cancel Transfer API cancels a transfer created by a sending store that has yet to be approved. The status must be transfer in progress in order to cancel the transfer.

## Method

```
POST
```

## URL

```
/transfers/{transferId}/cancel
```

## Request

**Table 4-419 Cancel Transfer — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int15) (path) | The unique identifier of the transfer. |

## Responses

This section describes the responses of the Cancel Transfer API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Close Transfer

The Close Transfer API closes a transfer that has been approved. It can close a request that currently is in requested or request in progress status, but only if the shipping location is a store. It can close a transfer that is in shipping status so long as it does not have shipping quantities (this can happen if a previous partial shipment has already shipped).


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## Method

POST

## URL

/transfers/{transferId}/close

## Request

**Table 4-420 Close Transfer — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transferId | Yes | number($int15) (path) | The unique identifier of the transfer. |

## Responses

This section describes the responses of the Close Transfer API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Find Transfer Contexts

The Find Transfer Contexts API reads all the available contexts for a transfer.

## Method

GET


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## URL

```
/transfers/contexts
```

## Request

There are no request parameters.

## Responses

This section describes the responses of the Find Transfer Contexts API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "contextId": 1234,
    "code": "CNTXIA",
    "description": "Repair",
    "sequence": 2
  }
]
```

### Schema — TransferContextIdo

**Table 4-421 TransferContextIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| contextId | NA | number($int18) example: 1234 | The unqiue identifier of the context record. |
| code | NA | string($text6) example: CNTXIA | A short code associated to the context. |
| description | NA | string($text120) example: Repair | A description of the context. |
| sequence | NA | integer($int6) example: 2 | The order it should be sequenced in. |

# Import Transfer


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The Import Transfer API imports a transfer (stock order) that is managed by an external system. This is an asynchronous process where minimal validation is performed on input and the message is staged in MPS for later processing. The message is managed by the MPS work queue (DcsTransfer). If Oracle Merchandising is enabled in the system, this service operation is not allowed.

## Method

```
POST
```

## URL

```
/transfers/import
```

## Request

There are no request parameters.

The request body is application/json.

### Example Value

```
{
  "externalTransferId": "AX57684",
  "sourceLocationType": 1,
  "sourceLocationId": 4000,
  "destinationLocationType": 1,
  "destinationLocationId": 5000,
  "contextTypeId": 400000,
  "contextValue": "Repair Needed",
  "deliveryDate": "2025-01-10T12:19:54.491Z",
  "notAfterDate": "2025-01-10T12:19:54.491Z",
  "customerOrderNumber": "67008700",
  "fulfillmentOrderNumber": "67008711",
  "allowPartialDelivery": true,
  "useUnavailableInventory": true,
  "lineItems": [
    {
      "itemId": "10045600",
      "quantity": 100,
      "preferredUom": "EA"
    }
  ]
}
```

### Schema — TransferImportIdo


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**Table 4-422 TransferImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalTransferId | Yes | string($text128) example: AX57684 | An identifier supplied from an external system. |
| sourceLocationType | Yes | integer($int4) example: 1 | The type of the source location of the transfer. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| sourceLocationId | Yes | integer($int10) example: 4000 | The identifier of the source location of the transfer. |
| destinationLocationType | Yes | integer($int4) example: 1 | The type of the destination location of the transfer. Valid values are<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| destinationLocationId | Yes | integer($int10) example: 5000 | The identifier of the destination location of the transfer. |
| contextTypeId | NA | number($int18) example: 400000 | Unique identifier of a context associated to the transfer. |
| contextValue | NA | string($text25) example: Repair Needed | A value or some information related to the context associated to the transfer. |
| deliveryDate | NA | string($date-time) . | The date in which the transfer delivery should take place |
| notAfterDate | NA | string($date-time) . | A date after which the transfer should not be shipped |
| customerOrderNumber | NA | string($text128) example: 67008700 | External system identifier of a customer order. |
| fulfillmentOrderNumber | NA | string($text128) example: 67008711 | External system identifier of a fulfillment order. |
| allowPartialDelivery | NA | boolean example: true | True indicates that a partial delivery is allowed for the transfer, false indicates it is not. |
| useUnavailableInventory | NA | boolean example: true | True if the transfer is for unavailable inventory, false otherwise. |
| lineItems | Yes | object | A collecton of up to 5,000 line items on the transfer. |


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**Table 4-423 TransferImportLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| quantity | Yes | number($decimal(20,4)) example: 100 | The quantity that was requested. |
| preferredUom | NA | string($text4) example: EA | The preferred unit of measure of this line item. |

## Responses

This section describes the responses of the Import Transfer API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Delete Transfer Import

The Delete Transfer Import API deletes a transfer request or trasnfer (stock order) if it has not yet become active.

## Method

```
DELETE
```

## URL

```
/transfers/import/{externalTransferId}
```

## Request


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**Table 4-424 Delete Transfer Import — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalTransferId | Yes | number($int15) (path) | The unique identifier of the transfer from the external system. |

## Responses

This section describes the responses of the Delete Transfer Import API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Transfer Delivery

A transfer delivery is the physical accounting of receiving goods from a store, warehouse, or external finisher. Deliveries consists of containers that hold items. Containers may be received blind, without knowing the expected quantities. The containers can also be for unavailable inventory. Transfer deliveries allow for receiving by Advance Shipment Notice (ASN), container, item level, or the entire delivery. Damages may be recorded during the receiving. This service defines operations to manage transfer delivery information by integration with an external system.

## Server Base URL

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Delivery

This section describes the Find Delivery API. This API finds up to 10,000 delivery headers for the input criteria.

## Method

```
GET
```


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## URL

```
/tsfdeliveries
```

## Request

**Table 4-425 Find Delivery — Request Parameters**

| Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) (query) | Include only deliveries from this store. |
| asn | NA | string($text128) (query) | Include only deliveries with this ASN. |
| status | NA | integer($int4) (query) | Include only deliveries with this status. Valid values are<br>1 - New<br>2 - In Progress<br>3 - Received<br>Available values : 1, 2, 3 |
| updateDateFrom | NA | string($date-time) (query) | Include only deliveries with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only deliveries with an update date on or before this date. |

## Responses

This section describes the responses of the Find Delivery API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "deliveryId": 11111,
    "storeId": 5000,
    "sourceType": 1,
    "sourceId": 5101,
    "asn": "789012",
    "status": 1,
    "receiptNumber": "799003",
    "carrierName": "Speedy, Inc.",
    "expectedDate": "2025-01-10T13:35:33.734Z",
```



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```
    "receivedDate": "2025-01-10T13:35:33.734Z",
    "createDate": "2025-01-10T13:35:33.734Z",
    "updateDate": "2025-01-10T13:35:33.734Z"
  }
]
```


## Schema — TransferDeliveryHeaderIdo

**Table 4-426 TransferDeliveryHeaderIdo —Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | NA | number($int15) example: 11111 | The unique identifier of the transfer delivery. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| sourceType | | integer($int4) example: 1 | The type of location that is shipping the goods. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: Array [ 3 ] |
| sourceId | NA | number($int10) example: 5101 | The identifier of the location shipping the goods. |
| asn | NA | string($text128) example: 789012 | The advanced shipping notification number. |
| status | NA | integer($int4) example: 1 | The current status of the delivery. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Received<br>Enum: [ 1, 2, 3 ] |
| receiptNumber | NA | string($text128) example: 799003 | The receipt number of the delivery. |
| carrierName | NA | string($text128) example: Speedy, Inc. | The name of the carrier of the delivery. |
| expectedDate | NA | string($date-time) | The date the delivery is epxected to be received. |
| receivedDate | NA | string($date-time) | The date the delivery was received. |
| createDate | NA | string($date-time) | The date the delivery was created. |
| updateDate | NA | string($date-time) | The date the delivery was last updated. |

## Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# Create Delivery

Creates a new transfer delivery as if SIOCS was the originator of the delivery. For integration of ASN deliveries originating from an external system, please see import delivery operation.

## Method

```
POST
```

## URL

```
/tsfdeliveries
```

## Request

There are no request parameters.

The request body is appliaction/json.

The delivery details of the new delivery.

### Example Value


```
{
  "storeId": 5000,
  "sourceType": 1,
  "sourceId": 5101,
  "asn": "789012",
  "billOfLadingId": "BOL884455",
  "carrierType": 1,
  "carrierName": "Speedy, Inc.",
  "carrierCode": "SPI",
  "sourceAddress": "Solid Supplies",
  "licensePlate": "ABX100",
  "freightId": "666234522",
  "expectedDate": "2025-01-10T14:25:34.133Z",
  "cartons": [
    {
      "externalCartonId": "GH124000",
      "referenceId": "3461353",
      "damagedReason": "Vehicle Accident",
      "serialCode": 3333600,
      "trackingNumber": "346139384726043",
      "damagedRemaining": true,
      "receiveAtShopFloor": false,
      "qualityControl": true,
```



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```
    "lineItems": [
      {
        "itemId": "11111",
        "documentId": 222222,
        "documentType": 1,
        "documentDate": "2025-01-10T14:25:34.133Z",
        "customerOrderNumber": "1444923",
        "fulfillmentOrderNumber": "11123412",
        "useAvailable": true,
        "caseSize": 1,
        "quantityExpected": 20,
        "quantityReceived": 20,
        "quantityDamaged": 20,
        "uins": [
          {
            "uin": "11123412",
            "shipped": true,
            "received": true,
            "damaged": true
          }
        ]
      }
    ]
  }
]
}
```


## Schema — TransferDeliveryCreateIdo

**Table 4-427 TransferDeliveryCreateIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| sourceType | Yes | integer($int4) example: 1 | The type of location that is shipping the goods. Valid values are |
| 1 - Store | | | |
| 2 - Warehouse | | | |
| 3 - Finisher | | | |
| Enum: [ 1, 2, 3 ] | | | |
| sourceId | Yes | number($int10) example: 5101 | The identifier of the location shipping the goods. |
| asn | Yes | string($text128) example: 789012 | The advanced shipping notification number. |
| billOfLadingId | NA | string($text128) example: BOL884455 | A bill of lading identifier from an external system. |


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**Table 4-427 (Cont.) TransferDeliveryCreateIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| carrierType | NA | integer($int4) example: 1 | The carrier type of the carrier. Valid values are:<br>1 - Corporate<br>2 - Third Party<br>Enum: [ 1, 2 ] |
| carrierName | NA | string($text128) example: Speedy, Inc. | The name of the carrier of the delivery. |
| carrierCode | NA | string($text4) example: SPI | A unique code that identifies the carrier. |
| sourceAddress | NA | string($text1000) example: Solid Supplies | The address of the source location that shipped the inventory. |
| licensePlate | NA | string($text128) example: ABX100 | A license plate number of the delivery vehicle. |
| freightId | NA | string($text128) example: 666234522 | A freight identifier associated to the delivery. |
| expectedDate | NA | string($date-time) The date the delivery is epxected to be received. | |
| cartons | Yes | object | A collection of up to 500 cartons on the delivery. |

**Table 4-428 TransferDeliveryCreateCartonIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: GH124000 | A carton identifier from an external system. |
| referenceId | NA | string($text128) example: 3461353 | A reference identifier (another way to identify the carton). |
| damagedReason | NA | string($text128) example: Vehicle Accident | A reason for the container damage. |
| serialCode | NA | number($int15) example: 3333600 | A serial code associated to the container. |
| trackingNumber | NA | string($text128) example: 346139384726043 | A tracking number associated to the container. |


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**Table 4-428 (Cont.) TransferDeliveryCreateCartonIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| damagedRemaining | NA | boolean example: true | True indicates all remaining unreceived quantities should be marked as damaged on the final receipt. |
| receiveAtShopFloor | NA | boolean example: false | True indicates the container is to be received on the shopfloor, false indicates it should not. |
| qualityControl | NA | boolean example: true | True indicates the container requires quality control, false indicates it does not. |
| lineItems | Yes | object | A collection of up to 2,000 items on the container. |

**Table 4-429 TransferDeliveryCreateLineItemIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 11111 | The unique identifier of the item. |
| documentId | Yes | number($int15) example: 222222 | The unique identifier of the transfer or allocation document. |
| documentType | Yes | integer($int4) example: 1 | The type of the document. Valid values are:<br>1 - Transfer<br>2 - Allocation<br>Enum: [ 1, 2 ] |
| documentDate | Yes | string($date-time) | The date the document was created. |
| customerOrderNumber | NA | string($text128) example: 1444923 | The customer order identifier if a customer order is associated to the item. |
| fulfillmentOrderNumber | NA | string($text128) example: 11123412 | The fulfillment order identifier if a customer order is associated to the item. |
| useAvailable | NA | boolean example: true | True indicates to use available inventory, false indicuates to use unavailable inventory. |
| caseSize | NA | number($decimal(10,2)) example: 1 | The case size of the item for this record. |
| quantityExpected | NA | number($decimal(20,4)) example: 20 | The quantity expected to be received. |
| quantityReceived | NA | number($decimal(20,4)) example: 20 | The quantity received as good. |
| quantityDamaged | NA | number($decimal(20,4)) example: 20 | The quantity received as damaged. |


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**Table 4-429 (Cont.) TransferDeliveryCreateLineItemIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uins | NA | object | A collection of UINs on the line item. |

**Table 4-430 TransferDeliveryUinIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | Yes | string($text128) example: 11123412 | The unique identification number. |
| shipped | NA | boolean example: true | True, if the UIN is shipped, false otherwise. |
| received | NA | boolean example: true | True, if the UIN is received, false otherwise. |
| damaged | NA | boolean example: true | True if the UIN is received as damaged, false otherwise. |

## Responses

This section describes the responses of the Create Delivery API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "deliveryId": 11111,
    "status": 1
  }
]
```

### Schema — TransferDeliveryStatusIdo

**Table 4-431 TransferDeliveryStatusIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | NA | number($int15) example: 11111 | The unique identifier of the transfer delivery. |


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**Table 4-431 (Cont.) TransferDeliveryStatusIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| status | NA | integer($int4) example: 1 | The current status of the delivery. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Received<br>Enum: [ 1, 2, 3 ] |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Read Delivery

The Read Delivery API retrieves all the details about an transfer delivery.

## Method

`GET`

## URL

`/tsfdeliveries/{deliveryId}`

## Request

**Table 4-432 Read Delivery — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the transfer delivery. |

## Responses

This section describes the responses of the Read Delivery API.


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## Response Code: 200

The request has been successful.

The media type is application/json.

## Example Value


```
[
  {
    "deliveryId": 11111,
    "storeId": 5000,
    "sourceType": 1,
    "sourceId": 5101,
    "status": 1,
    "asn": "789012",
    "receiptNumber": "799003",
    "carrierName": "Speedy, Inc.",
    "carrierType": 1,
    "carrierCode": "SPI",
    "sourceAddress": "Solid Supplies",
    "licensePlate": "ABX100",
    "freightId": "666234522",
    "fiscalDocumentRequestId": 100234,
    "fiscalDocumentReferenceId": 63452277,
    "fiscalDocumentNumber": "84478274",
    "billOfLadingId": "BOL884455",
    "expectedDate": "2025-01-10T14:36:21.974Z",
    "receivedDate": "2025-01-10T14:36:21.974Z",
    "receivedUser": "smith123",
    "createDate": "2025-01-10T14:36:21.974Z",
    "createUser": "smith123",
    "updateDate": "2025-01-10T14:36:21.974Z",
    "updateUser": "smith123",
    "importId": "3461353",
    "cartons": [
      {
        "cartonId": 11111,
        "externalCartonId": "GH124000",
        "referenceId": "3461353",
        "misdirectedId": 3461353,
        "discrepant": true,
        "receiveAtShopFloor": false,
        "externalCreate": true,
        "adjusted": false,
        "qualityControl": true,
        "copied": true,
        "damagedRemaining": true,
        "damagedReason": "Vehicle Accident",
        "serialCode": 3333600,
        "trackingNumber": "346139384726043",
        "status": 1,
        "customerOrderRelated": 1,
        "createUser": "smith123",
```



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```
    "updateDate": "2025-01-10T14:36:21.974Z",
    "updateUser": "smith123",
    "receivedDate": "2025-01-10T14:36:21.974Z",
    "receivedUser": "smith123",
    "lineItems": [
      {
        "lineId": 11111,
        "itemId": "11111",
        "documentId": 222222,
        "documentType": 1,
        "documentDate": "2025-01-10T14:36:21.974Z",
        "customerOrderNumber": "1444923",
        "fulfillmentOrderNumber": "11123412",
        "useAvailable": true,
        "caseSize": 1,
        "quantityExpected": 20,
        "quantityReceived": 20,
        "quantityDamaged": 20,
        "quantityPreviousReceived": 20,
        "quantityPreviousDamaged": 20,
        "uins": [
          {
            "uin": "11123412",
            "itemUinId": 8475,
            "shipped": true,
            "received": true,
            "damaged": true
          }
        ]
      }
    ]
  }
]
}
```


## Schema — TransferDeliveryIdo

**Table 4-433 TransferDeliveryIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | NA | number($int15) example: 11111 | The unique identifier of the transfer delivery. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| sourceType | NA | integer($int4) example: 1 | The type of location that is shipping the goods. Valid values are<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |


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**Table 4-433 (Cont.) TransferDeliveryIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| sourceId | NA | number($int10) example: 5101 | The identifier of the location shipping the goods. |
| status | NA | integer($int4) example: 1 | The current status of the delivery. Valid values are<br>1 - New<br>2 - In Progress<br>3 - Received<br>Enum: [ 1, 2, 3 ] |
| asn | NA | string($text128) example: 789012 | The advanced shipping notification number. |
| receiptNumber | NA | string($text128) example: 799003 | The receipt number of the delivery. |
| carrierName | NA | string($text128) example: Speedy, Inc. | The name of the carrier of the delivery. |
| carrierType | NA | integer($int4) example: 1 | The carrier type of the carrier. Valid values are<br>1 - Corporate<br>2 - Third Party<br>Enum: [ 1, 2, 3 ] |
| carrierCode | NA | string($text4) example: SPI | A unique code that identifies the carrier. |
| sourceAddress | NA | string($text1000) example: Solid Supplies | The address of the source location that shipped the inventory. |
| licensePlate | NA | string($text128) example: ABX100 | A license plate number of the delivery vehicle. |
| freightId | NA | string($text128) example: 666234522 | A freight identifier associated to the shipment. |
| fiscalDocument RequestId | NA | number($int20) example: 100234 | The identifier of the request for a fiscal document. |
| fiscalDocument ReferenceId | NA | number($int20) example: 63452277 | The unique identifier of the fiscal document record. |
| fiscalDocument Number | NA | string($text255) example: 84478274 | The fiscal document number. |
| billOfLadingId | NA | string($text128) example: BOL884455 | An external bill of lading identifier. |
| expectedDate | NA | string($date-time) | The date the delivery is expected to be received. |
| receivedDate | NA | string($date-time) | The date the delivery was received. |
| receivedUser | NA | string($text128) example: smith123 | The user that received the delivery. |


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**Table 4-433 (Cont.) TransferDeliveryIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| createDate | NA | string($date-time) | The date the delivery was created. |
| createUser | NA | string($text128) example: smith123 | The user that created the delivery. |
| updateDate | NA | string($date-time) | The date the delivery was last updated. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the delivery. |
| importId | NA | string($text128) example: 3461353 | An original import identifier if the data was imported through data-seeding. |
| cartons | NA | object | A collection of cartons on the delivery. |

**Table 4-434 TransferDeliveryCartonIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | NA | number($int15) example: 11111 | The unique identifier of the transfer delivery carton. |
| externalCartonId | NA | string($text128) example: GH124000 | A carton identifier from an external system. |
| referenceId | NA | string($text128) example: 3461353 | A reference identifier (another way to identify the carton) |
| misdirectedId | NA | number($int15) example: 3461353 | A misdirected container identifier (if this is copy of a another container). |
| discrepant | NA | boolean example: true | True indicates the container is discrepant, false indicates it is not. |
| receiveAtShopFloor | NA | boolean example: false | True indicates the container is to be received on the shopfloor, false indicates it should not. |
| externalCreate | NA | boolean example: true | True indicates the container was externally created, false indicates it was created internally. |
| adjusted | NA | boolean example: false | True indicates the container has been adjusted, false indicates it has not. |
| qualityControl | NA | boolean example: true | True indicates the container requires quality control, false indicates it does not. |
| copied | NA | boolean example: true | True indicates the container has been copied as a misdirected container, false means it has not. |
| damagedRemaining | NA | boolean example: true | True indicates all remaining unreceived quantities should be marked as damaged on the final receipt. |
| damagedReason | NA | string($text128) example: Vehicle Accident | A reason for the container damage. |


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**Table 4-434 (Cont.) TransferDeliveryCartonIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| serialCode | NA | number($int15) example: 3333600 | A serial code associated to the container. |
| trackingNumber | NA | string($text128) example: 346139384726043 | A tracking number associated to the container. |
| status | NA | integer($int4) example: 1 | The status of the container. Value values are<br>1 - New<br>2 - In Progress<br>3 - Damaged<br>4 - Received<br>5 - Missing<br>Enum: [ 1, 2, 3, 4, 5 ] |
| customerOrderRelated | NA | nteger($int4) example: 1 | Indicates if the carton is related to a customer order. Valid values are<br>1 - Yes<br>2 - Mix<br>3 - No<br>Enum: [ 1, 2, 3 ] |
| createUser | NA | string($text128) example: smith123 | The user that created the container. |
| updateDate | NA | string($date-time) | The date the container was last updated. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the container. |
| receivedDate | NA | string($date-time) | The date the container was received. |
| receivedUser | NA | string($text128) example: smith123 | The user that created the container. |
| lineItems | NA | object | A collection of items in the container. |

**Table 4-435 TransferDeliveryLindeItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | number($int15) example: 11111 | The unique identifier of the line item record. |
| itemId | NA | string($text25) example: 11111 | The unique identifier of the item. |
| documentId | NA | number($int15) example: 222222 | The unique identifier of the transfer or allocation document. |


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**Table 4-435 (Cont.) TransferDeliveryLindeItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| documentType | NA | integer($int4) example: 1 | The type of the document. Value values are<br>1 - Transfer<br>2 - Allocation<br>Enum: [ 1, 2 ] |
| documentDate | NA | string($date-time) | The date the document was created. |
| customerOrderNumber | NA | string($text128) example: 1444923 | A customer order identifier if a customer order is associated to the delivery. |
| fulfillmentOrderNumber | NA | string($text128) example: 11123412 | The fulfillment order identifier if a customer order is associated to the delivery. |
| useAvailable | NA | boolean example: true | True indicates to use available inventory, false indicates to use unavailable inventory. |
| caseSize | NA | number($decimal(10,2)) example: 1 | The case size of the item for this record. |
| quantityExpected | NA | number($decimal(20,4)) example: 20 | The quantity expected to be received. |
| quantityReceived | NA | number($decimal(20,4)) example: 20 | The quantity received as good. |
| quantityDamaged | NA | number($decimal(20,4)) example: 20 | The quantity received as damaged. |
| quantityPreviousReceived | NA | number($decimal(20,4)) example: 20 | The quantity last received as good. |
| quantityPreviousDamaged | NA | number($decimal(20,4)) example: 20 | The quantity last received as damaged. |
| uins | NA | object | A collections of UINs on the line item. |

**Table 4-436 TransferDeliveryLindeItemUinIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | NA | string($text128) example: 11123412 | The unique identification number. |
| itemUinId | NA | number($int14) example: 8475 | The unique identifier of the item UIN record. |
| shipped | NA | boolean example: true | True if the UIN is shipped, false otherwise. |
| received | NA | boolean example: true | True if the UIN is received, false otherwise. |
| damaged | NA | boolean example: true | True if the UIN is received as damaged, false otherwise. |


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Delivery

The Update Delivery API update the header portion of a delivery.

### Method

`POST`

### URL

`/tsfdeliveries/{deliveryId}`

### Request

**Table 4-437 Update Delivery — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the transfer delivery. |

The request body is application/json.

Delivery header details to update.

### Example Value

```
{
  "billOfLadingId": "BOL884455",
  "carrierType": 1,
  "carrierName": "Speedy, Inc.",
  "carrierCode": "SPI",
  "sourceAddress": "Solid Supplies",
  "licensePlate": "ABX100",
  "freightId": "666234522",
  "expectedDate": "2025-01-10T15:43:51.438Z"
}
```


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## Schema — TransferDeliveryUpdateIdo

**Table 4-438 TransferDeliveryUpdateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| billOfLadingId | NA | string($text128) example: BOL884455 | A bill of lading identifier from an external system. |
| carrierType | NA | integer($int4) example: 1 | The carrier type of the carrier. Valid values are<br>1 - Corporate<br>2 - Third Party<br>Enum: [ 1, 2 ] |
| carrierName | NA | string($text128) example: Speedy, Inc. | The name of the carrier of the delivery. |
| carrierCode | NA | string($text4) example: SPI | A unique code that identifies the carrier. |
| sourceAddress | NA | string($text1000) example: Solid Supplies | The address of the source location that shipped the inventory. |
| licensePlate | NA | string($text128) example: ABX100 | A license plate number of the delivery vehicle. |
| freightId | NA | string($text128) example: 666234522 | A freight identifier associated to the delivery. |
| expectedDate | NA | string($date-time) | The date the delivery is expected to be received. |

# Responses

This section describes the responses of the Update Delivery API.

## Response Code: 204

No content

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Receive Delivery


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The Receive Delivery API receives the transfer delivery. The quantities will be updated to the expected quantity value (if no quantity has been recorded previously, including recording 0 previously) and the delivery will be set to in progress stats. To finalize the delivery, use the confirm operation.

## Method

```
POST
```

## URL

```
/tsfdeliveries/{deliveryId}/receive
```

## Request

**Table 4-439 Receive Delivery — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the transfer delivery. |

## Responses

This section describes the responses of the Receive Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Delivery

The Confirm Delivery API confirms the delivery finalizing the movement of inventory and closing the delivery.


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## Method

POST

## URL

/tsfdeliveries/{deliveryId}/confirm

## Request

**Table 4-440 Confirm Delivery — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the transfer delivery. |

## Responses

This section describes the responses of the Confirm Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Open Delivery

The Open Delivery API opens the delivery for additional receiving but leaves all the cartons in their current state.

## Method

POST


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## URL

```
/tsfdeliveries/{deliveryId}/open
```

## Request

**Table 4-441 Open Delivery — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the transfer delivery. |

## Responses

This section describes the responses of the Open Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Create Carton

The Create Carton Delivery API adds a new container to a new or in progress shipment.

## Method

```
POST
```

## URL

```
/tsfdeliveries/{deliveryId}/cartons
```

## Request


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**Table 4-442 Create Carton — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the delivery. |

The request body is application/json.

Details about the carton to add to the shipment.

## Example Value


```
{
  "externalCartonId": "GH124000",
  "referenceId": "3461353",
  "damagedReason": "Vehicle Accident",
  "serialCode": 3333600,
  "trackingNumber": "346139384726043",
  "damagedRemaining": true,
  "receiveAtShopFloor": false,
  "qualityControl": true,
  "lineItems": [
    {
      "itemId": "11111",
      "documentId": 222222,
      "documentType": 1,
      "documentDate": "2025-01-13T12:33:47.167Z",
      "customerOrderNumber": "1444923",
      "fulfillmentOrderNumber": "11123412",
      "useAvailable": true,
      "caseSize": 1,
      "quantityExpected": 20,
      "quantityReceived": 20,
      "quantityDamaged": 20,
      "uins": [
        {
          "uin": "11123412",
          "shipped": true,
          "received": true,
          "damaged": true
        }
      ]
    }
  ]
}
```


## Schema — TransferDeliveryCreateCartonIdo


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**Table 4-443 TransferDeliveryCreateCartonIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: GH124000 | A carton identifier from an external system. |
| referenceId | NA | string($text128) example: 3461353 | A reference identifier (another way to identify the carton). |
| damagedReason | NA | string($text128) example: Vehicle Accident | A reason for the container damage. |
| serialCode | NA | number($int15) example: 3333600 | A serial code associated to the container. |
| trackingNumber | NA | string($text128) example: 346139384726043 | A tracking number associated to the container. |
| damagedRemaining | NA | boolean example: true | True indicates all remaining unreceived quantities should be marked as damaged on the final receipt. |
| receiveAtShopFloor | NA | boolean example: false | True indicates the container is to be received on the shopfloor, false indicates it should not. |
| qualityControl | NA | boolean example: true | True indicates the container requires quality control, false indicates it does not. |
| lineItems | Yes | object | A collection of up to 2,000 items on the container. |

**Table 4-444 TransferDeliveryCreateLineItemIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 11111 | The unique identifier of the item. |
| documentId | Yes | number($int15) example: 222222 | The unique identifier of the transfer or allocation document. |
| documentType | Yes | integer($int4) example: 1 | The type of the document. Valid values are:<br>1 - Transfer<br>2 - Allocation<br>Enum: [ 1, 2 ] |
| documentDate | Yes | string($date-time) | The date the document was created. |
| customerOrderNumber | NA | string($text128) example: 1444923 | The customer order identifier if a customer order is associated to the item. |
| fulfillmentOrderNumber | NA | string($text128) example: 11123412 | The fulfillment order identifier if a customer order is associated to the item. |
| useAvailable | NA | boolean example: true | True indicates to use available inventory, false indicuates to use unavailable inventory. |


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**Table 4-444 (Cont.) TransferDeliveryCreateLineItemIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| caseSize | NA | number($decimal(10,2)) example: 1 | The case size of the item for this record. |
| quantityExpected | NA | number($decimal(20,4)) example: 20 | The quantity expected to be received. |
| quantityReceived | NA | number($decimal(20,4)) example: 20 | The quantity received as good. |
| quantityDamaged | NA | number($decimal(20,4)) example: 20 | The quantity received as damaged. |
| uins | NA | object | A collection of UINs on the line item. |

**Table 4-445 TransferDeliveryUinIdo —Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | Yes | string($text128) example: 11123412 | The unique identification number. |
| shipped | NA | boolean example: true | True, if the UIN is shipped, false otherwise. |
| received | NA | boolean example: true | True, if the UIN is received, false otherwise. |
| damaged | NA | boolean example: true | True if the UIN is received as damaged, false otherwise. |

## Responses

This section describes the responses of the Create Carton API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "deliveryId": 11111,
    "cartonId": 24680,
    "externalCartonId": "GH124000",
```


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```
    "status": 1
  }
]
```

### Schema — TransferDeliveryCartonStatusIdo

**Table 4-446 TransferDeliveryICartonStatusdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | NA | number($int15) example: 11111 | The unique identifier of the transfer delivery. |
| cartonId | NA | number($int15) example: 24680 | The unique identifier of the transfer delivery carton. |
| externalCartonId | NA | string($text128) example: GH124000 | A carton identifier from an external system. |
| status | NA | integer($int4) example: 1 | The status of the container. Valid values are<br>1 - New<br>2 - In Progress<br>3 - Damaged<br>4 - Received<br>5 - Missing<br>Enum: [ 1, 2, 3, 4, 5 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Carton

The Update Carton API Updates a previously existing carton that is in a new or in progress state, on a delivery that is also new or in progress.

### Method

`POST`

### URL

`/tsfdeliveries/cartons/{cartonId}`


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## Request

**Table 4-447 Update Carton — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the delivery carton. |

The request body is application/json.

Details about the carton update.

## Example Value

```
{
  "externalCartonId": "GH124000",
  "referenceId": "3461353",
  "receiveAtShopFloor": false,
  "qualityControl": true,
  "damagedRemaining": true,
  "damagedReason": "Vehicle Accident",
  "serialCode": 3333600,
  "trackingNumber": "346139384726043",
  "lineItems": [
    {
      "itemId": "11111",
      "documentId": 222222,
      "documentType": 1,
      "documentDate": "2025-01-13T13:33:02.273Z",
      "caseSize": 1,
      "quantityReceived": 20,
      "quantityDamaged": 20,
      "uins": [
        {
          "uin": "11123412",
          "shipped": true,
          "received": true,
          "damaged": true
        }
      ]
    }
  ]
}
```

## Schema — TransferDeliveryCartonUpdateIdo


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**Table 4-448 TransferDeliveryCartonUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: GH124000 | A carton identifier from an external system. |
| referenceId | NA | string($text128) example: 3461353 | A reference identifier (another way to identify the carton). |
| receiveAtShopFloor | NA | boolean example: false | True indicates the container is to be received on the shopfloor, false indicates it should not. |
| qualityControl | NA | boolean example: true | True indicates the container requires quality control, false indicates it does not. |
| damagedRemaining | NA | boolean example: true | True indicates all remaining unreceived quantities should be marked as damaged on the final receipt. |
| damagedReason | NA | string($text128) example: Vehicle Accident | A reason for the container damage. |
| serialCode | NA | number($int15) example: 3333600 | A serial code associated to the container. |
| trackingNumber | NA | string($text128) example: 346139384726043 | A tracking number associated to the container. |
| lineItems | NA | object | A collection of up to 2,000 items in the container. |

**Table 4-449 TransferDeliveryCartonUpdateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 11111 | The unique identifier of the item. |
| documentId | Yes | number($int15) example: 222222 | The unique identifier of the transfer or allocation document. |
| documentType | Yes | integer($int4) example: 1 | The type of the document. Valid values are<br>1 - Transfer<br>2 - Allocation<br>Enum: [1, 2] |
| documentDate* | Yes | string($date-time) | The date the document was created. |
| caseSize | NA | number($decimal(10,2)) example: 1 | The case size of the item for this record. |
| quantityReceived | NA | number($decimal(20,4)) example: 20 | The quantity received as good. |
| quantityDamaged | NA | number($decimal(20,4)) example: 20 | The quantity received as damaged. |
| uins | NA | object | A collection of UINs on the line item. |


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**Table 4-450 TransferDeliveryUinIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | Yes | string($text128) example: 11123412 | The unique identification number. |
| shipped | NA | boolean example: true | True, if the UIN is shipped, false otherwise. |
| received | NA | boolean example: true | True, if the UIN is received, false otherwise. |
| damaged | NA | boolean example: true | True if the UIN is received as damaged, false otherwise. |

## Responses

This section describes the responses of the Update Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Receive Carton

The Receive Carton API receives the container. The quantities will be updated to the expected quantity value (if no quantity has been previously entered, including 0) and the container will be moved to in progress. Use the confirm operation to finalize the carton.

## Method

`POST`

## URL

`/tsfdeliveries/cartons/{cartonId}/receive`

## Request


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**Table 4-451 Receive Carton — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the transfer delivery carton. |

## Responses

This section describes the responses of the Receive Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Carton

The Confirm Carton API confirms the container finalizing its status as received or damaged.

## Method

`POST`

## URL

`/tsfdeliveries/cartons/{cartonId}/confirm`

## Request

**Table 4-452 Confirm Carton — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the transfer delivery carton. |


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## Responses

This section describes the responses of the Confirm Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Carton

The Cancel Carton API cancels the container indicating it will not be received as part of the delivery.

## Method

`POST`

## URL

`/tsfdeliveries/cartons/{cartonId}/cancel`

## Request

**Table 4-453 Cancel Carton — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the transfer delivery carton. |

## Responses

This section describes the responses of the Cancel Carton API.

### Response Code: 204


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No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Open Carton

The Open Carton API re-opens a confirmed container, placing it back into in progress state in order to adjust and confirm again.

### Method

`POST`

### URL

`/tsfdeliveries/cartons/{cartonId}/open`

### Request

**Table 4-454 Open Carton — Request Parameter**

| Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the transfer delivery carton. |

### Responses

This section describes the responses of the Open Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# Import ASN Delivery

The Import ASN Delivery API imports a transfer delivery (ASN) managed by an external system that is notifying SIOCS of an ASN creation or modification that took place. This request is staged and processed asynchronously, and is controlled by the MPS message type DcsAsn.

## Method

`POST`

## URL

`/tsfdeliveries/imports`

## Request

There are no request parameters.

The request body is appliaction/json.

Details about the delivery to import.

### Example Value

```
{
  "asn": "789012",
  "storeId": 5000,
  "sourceType": 1,
  "sourceId": 5101,
  "carrierType": 1,
  "carrierName": "Speedy, Inc.",
  "carrierCode": "SPI",
  "sourceAddress": "Solid Supplies",
  "licensePlate": "ABX100",
  "freightId": "666234522",
  "fiscalDocumentNumber": "84478274",
  "billOfLadingId": "BOL884455",
  "expectedDate": "2025-01-13T14:21:38.692Z",
  "cartons": [
    {
      "externalCartonId": "GH124000",
      "referenceId": "3461353",
      "serialCode": 3333600,
      "trackingNumber": "346139384726043",
      "qualityControl": true,
      "lineItems": [
        {
          "itemId": "11111",
          "documentId": 222222,
```


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```
            "documentType": 1,
            "documentDate": "2025-01-13T14:21:38.692Z",
            "useAvailable": true,
            "caseSize": 1,
            "quantity": 20
          }
        ]
      }
    ]
}
```


## Schema — TransferDeliveryImportIdo

**Table 4-455 TransferDeliveryImportIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| asn | Yes | string($text128) example: 789012 | The advanced shipping notification number. |
| storeId | Yes | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| sourceType | Yes | integer($int4) example: 1 | The type of location that is shipping the goods. Valid values are<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| sourceId | Yes | number($int10) example: 5101 | The identifier of the location shipping the goods. |
| carrierType | NA | integer($int4) example: 1 | The carrier type of the carrier. Valid values are<br>1 - Corporate<br>2 - Third Party<br>Enum: [ 1, 2 ] |
| carrierName | NA | string($text128) example: Speedy, Inc. | The name of the carrier of the delivery. |
| carrierCode | NA | string($text4) example: SPI | A unique code that identifies the carrier. |
| sourceAddress | NA | string($text1000) example: Solid Supplies | The address of the source location that shipped the inventory. |
| licensePlate | NA | string($text128) example: ABX100 | A license plate number of the delivery vehicle. |
| freightId | NA | string($text128) example: 666234522 | A freight identifier associated to the delivery. |
| fiscalDocumentNumber | NA | string($text255) example: 84478274 | The fiscal document number of an associated fiscal document. |


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**Table 4-455 (Cont.) TransferDeliveryImportIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| billOfLadingId | NA | string($text128) example: BOL884455 | An external bill of lading identifier. |
| expectedDate | NA | string($date-time) The date the delivery is expected to be received. | |
| cartons | Yes | object | A collection of up to 500 cartons on the delivery. |

**Table 4-456 TransferDeliveryImporCartontIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalCartonId | Yes | string($text128) example: GH124000 | A carton identifier from an external system. |
| referenceId | NA | string($text128) example: 3461353 | A reference identifier (another way to identify the carton). |
| serialCode | NA | number($int15) example: 3333600 | A serial code associated to the container. |
| trackingNumber | NA | string($text128) example: 346139384726043 | A tracking number associated to the container. |
| qualityControl | NA | Boolean example: true | True indicates the container requires quality control, false indicates it does not. |
| lineItems | Yes | object | A collection of up to 2,000 items on the container. |

**Table 4-457 TransferDeliveryImportItemtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 11111 | The unique identifier of the item. |
| documentId | Yes | number($int15) example: 222222 | The unique identifier of the transfer or allocation document. |
| documentType | Yes | integer($int4) example: 1 | The type of the document. Valid values are<br>1 - Transfer<br>2 - Allocation<br>Enum: [ 1, 2 ] |
| documentDate | Yes | string($date-time) | The date the document was created. |
| useAvailable | NA | boolean example: true | True indicates to use available inventory, false indicuates to use unavailable inventory. |


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**Table 4-457 (Cont.) TransferDeliveryImportItemtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| caseSize | NA | number($decimal(10,2)) example: 1 | The case size of the item for this record. |
| Quantity | Yes | number($decimal(20,4)) example: 20 | The quantity expected to be received. |

## Responses

This section describes the responses of the Import ASN Delivery API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Import ASN Delete Delivery

A transfer delivery in new status can be deleted from the system. A transfer delivery that has progressed past the point cannot. This request is staged and processed asynchronously, and is controlled by the MPS message type DcsAsn.

## Method

`POST`

## URL

`/tsfdeliveries/imports/delete`

## Request

There are no request parameters.

The request body is appliaction/json.

Details about the delivery to delete.


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### Example Value

```
{
  "asn": "789012",
  "storeId": 5000
}
```

### Schema — TransferDeliveryDeleteImportIdo

**Table 4-458 TransferDeliveryDeleteImportIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| asn | Yes | string($text128) example: 789012 | The advanced shipping notification number. |
| storeId | Yes | number($int10) example: 5000 | The identifier of the store receiving the inventory. |

## Responses

This section describes the responses of the Import ASN Delete Delivery API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Transfer Shipment

This service allows the creation, modification, and cancellation of transfer shipments from an external application.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/tsfshipments

## API Definitions


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| API | Definition |
|---|---|
| readShipment | Reads the transfer shipment. This does not include containers or items. |
| findShipments | Finds transfer shipment header information based on a set of criteria. |
| submitShipment | Submits the transfer shipment. |
| cancelSubmitShipment | Cancels the submission of a transfer shipment. |
| dispatchShipment | Dispatches a transfer shipment. |
| cancelShipment | Cancels a transfer shipment. |
| confirmCarton | Confirms a container for shipment. |
| cancelCarton | Cancels a container, removing it from the shipment. |
| openCarton | Opens a confirmed container so that it can be modified again. |
| createShipment | Creates a shipment. |
| updateShipment | Updates shipment header information. |
| createCarton | Adds a carton to the shipment. |
| updateCarton | Updates a carton on the shipment. |

# API: Read Shipment

Read a transfer shipment.

**Table 4-459 API Basics**

| | |
|---|---|
| Endpoint URL | /{shipmentId} |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | None |
| Output | Transfer Shipment |

**Table 4-460 Path Parameter Definitions**

| Parameter | Definition |
|---|---|
| shipmentId | The internal identifier of the transfer shipment header. |

**Table 4-461 Output Data Definition**

| Column | Type | Definition |
|---|---|---|
| shipmentId | Long(15) | The unique internal identifier of the transfer shipment. |
| storeId | Long(10) | The unique store identifier that is the source of the shipment. |
| destinationType | Integer(2) | The location type of the destination. See Additional Data Definitions-Destination Type. |
| destinationId | Long(10) | The unique identifier of the destination. |
| asn | String(128) | The advance shipment notification number. |


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**Table 4-461 (Cont.) Output Data Definition**

| | | |
|---|---|---|
| status | Integer(2) | The current status of the shipment. See Additional Data Definitions: Status |
| authorizationCode | String(12) | An authorization code associated to the shipment. |
| billOfLadingId | Long(12) | The unique identifier of the bill of lading. |
| adhocDocumentId | Long(15) | An adhoc transfer document identifier associated to the shipment. |
| billOfLadingId | Long(15) | The bill of lading number. |
| alternateAddress | String(2000) | An alternate destination address. |
| carrierRole | Integer(2) | The type of carrier for the shipment. See Additional Data Definitions |
| carrierId | Long(10) | A unique identifier of a carrier for the shipment. |
| carrierServiceId | Long(10) | A unique identifier of a carrier service for the shipment. |
| alternateCarrierName | String(240) | The name of a third-party shipping company. |
| alternateCarrierAddress | String(2000) | The address of a third-party shipping company. |
| motive | String(120) | A motive for the shipment. |
| taxId | String(18) | The tax identifier of the supplier it is being shipped to. |
| trackingNumber | String(128) | A tracking number associated to the shipment. |
| dimensionId | Long(12) | The identifier of a dimension associated to the shipment. |
| weight | BigDecimal(12, 4) | The weight of the shipment. |
| weightUom | String(4) | The unit of measure of the weight of the shipment. |
| requestedPickupDate | Date | The requested pickup date. |
| fiscalDocumentRequestId | Long(20) | The identifier of the request for a fiscal document. |
| fiscalDocumentReferenceId | Long(20) | The unique identifier of the fiscal document. |
| fiscalDocumentNumber | String(255) | The fiscal document number. |
| fiscalDocumentStatus | Integer(4) | The status of the fiscal document. |
| fiscalDocumentRejectReason | String(255) | A reason the fiscal document was rejected. |
| fiscalDocumentUrl | String(255) | A URL to the fiscal document. |
| createUser | String(128) | The user that created the shipment record. |
| createDate | Date | The date the shipment record was created. |
| updateUser | String(128) | The user that last updated the shipment. |
| updateDate | Date | The last date the shipment was updated. |
| submitUser | String(128) | The user that submitted the shipment record. |
| submitDate | Date | The date the shipment was submitted within EICS. |
| dispatchUser | String(128) | The user that dispatched the shipment. |
| dispatchDate | Date | The date the shipment was dispatched within EICS. |
| cartons | Collection | A collection of cartons on the shipment. |


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**Table 4-462 Output Data Definition (Cartons)**

| Column | Type | Definition |
|---|---|---|
| cartonId | Long(10) | The unique identifier of the record. |
| externalCartonId | String(128) | A container identifier from an external system. |
| status | Integer(4) | The current status of the container. |
| dimensionId | Long(10) | The shipment container dimension identifier. |
| weight | BigDecimal(12,4) | The weight of the container. |
| weightUom | String(4) | The unit of measure of the weight of the container. |
| trackingNumber | String(128) | A tracking number for the container. |
| useAvailableInventory | Boolean | True indicates use only available inventory, False indicates use non-available inventory. |
| restrictionLevel | Integer(4) | A hierarchy restriction level for items in the container. |
| customerOrderRelated | Integer(4) | The customer order related value (see Additional Data Definitions). |
| createUser | String(128) | The user that created the container in EICS. |
| createDate | Date | The date the container was created in EICS. |
| updateUser | String(128) | The user that last updated the container in EICS. |
| updateDate | date | The date the container was last updated in EICS. |
| approvalUser | String(128) | The user that approved the container in EICS. |
| approvalDate | Date | The date the container was approved in EICS. |
| lineItems | Collection | The line items in the container. |

**Table 4-463 Output Data Definition (Line Item)**

| Column | Type | Definition |
|---|---|---|
| lineId | Long(15) | The unique identifier of the record. |
| itemId | String(25) | The unique identifier of the item. |
| caseSize | BigDecimal(10,2) | The case size of this line item. |
| quantity | BigDecimal(20,4) | The quantity being shipped. |
| transferId | Long(12) | The unique identifier of the associated transfer. |
| externalTransferId | Long(15) | The external system identifier of the associated transfer. |
| customerOrderNumber | String(128) | The customer order number if line item is for a customer order. |
| fulfillmentOrderNumber | String(128) | The fulfillment order number if line item is for a customer order. |
| preferredUom | String(4) | The preferred unit of measure for the shipment quantity. |
| shipmentReasonId | Long(15) | A unique identifier of a shipment reason associated to this item. |
| uins | List<String> | A list of UINs that are shipped. The number of UINs must match the quantity attribute. |


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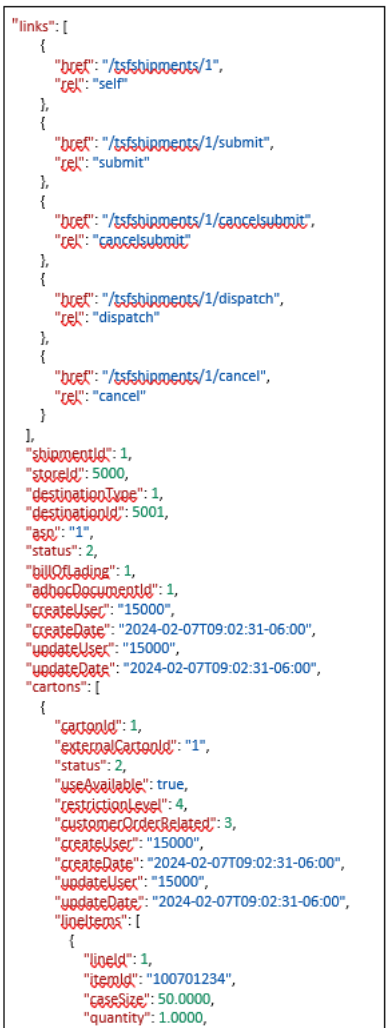
### Example

**Figure 4-15 Example**




```
"links": [
    {
      "href": "/tsfshipments/1",
      "rel": "self"
    },
    {
      "href": "/tsfshipments/1/submit",
      "rel": "submit"
    },
    {
      "href": "/tsfshipments/1/cancelsubmit",
      "rel": "cancelsubmit"
    },
    {
      "href": "/tsfshipments/1/dispatch",
      "rel": "dispatch"
    },
    {
      "href": "/tsfshipments/1/cancel",
      "rel": "cancel"
    }
  ],
  "shipmentId": 1,
  "storeId": 5000,
  "destinationType": 1,
  "destinationId": 5001,
  "asn": "1",
  "status": 2,
  "billOfLading": 1,
  "adhocDocumentId": 1,
  "createUser": "15000",
  "createDate": "2024-02-07T09:02:31-06:00",
  "updateUser": "15000",
  "updateDate": "2024-02-07T09:02:31-06:00",
  "cartons": [
    {
      "cartonId": 1,
      "externalCartonId": "1",
      "status": 2,
      "useAvailable": true,
      "restrictionLevel": 4,
      "customerOrderRelated": 3,
      "createUser": "15000",
      "createDate": "2024-02-07T09:02:31-06:00",
      "updateUser": "15000",
      "updateDate": "2024-02-07T09:02:31-06:00",
      "lineItems": [
        {
          "lineId": 1,
          "itemId": "100701234",
          "caseSize": 50.0000,
          "quantity": 1.0000,
```



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**Figure 4-16 Example, continued**

# API: Find Transfer Shipment

Search for shipments based on a set of criteria.

If more than 10,000 shipments are found a "Results Too Large" response is returned and search criteria will need to be more restrictive.

**Table 4-464 API Basics**

| | |
|---|---|
| Endpoint URL | |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Query Parameters |
| Output | List of Transfer Shipments Headers |

**Table 4-465 Query Parameter Definitions**

| Attribute | Type | Definition |
|---|---|---|
| storeId | Long(10) | Include only transfer shipments from this store. |


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**Table 4-465 (Cont.) Query Parameter Definitions**

| | | |
|---|---|---|
| destinationType | Integer(2) | Include only transfer shipments to this destination type. |
| destinationId | Long(10) | Include only transfer shipments to this destination identifier. |
| asn | String(128) | Include only transfer shipments with this ASN. |
| status | Integer(2) | Include only transfer shipments in this status. |
| updateDateFrom | String | Include only transfer shipments last updated on or after this date. |
| updateDateTo | String | Include only transfer shipments last updated on or before this date. |

**Table 4-466 Output Data Definition**

| Column | Type | Definition |
|---|---|---|
| shipmentId | Long(15) | The unique internal identifier of the transfer shipment. |
| storeId | Long(10) | The unique store identifier that is the source of the shipment. |
| destinationType | Integer(2) | The location type of the destination. See Additional Data Definitions: Destination Type. |
| destinationId | Long(10) | The unique identifier of the destination location. |
| asn | String(128) | The advance shipment notification number. |
| status | Integer(4) | The current status of the shipment. See Additional Data Definitions: Status |
| createDate | Date | The date the shipment record was created. |
| updateDate | Date | The last date the shipment was updated. |
| submitDate | Date | The date the shipment was submitted within EICS. |
| dispatchDate | Date | The date the shipment was dispatched within EICS. |

# API: Submit Shipment

Submits the transfer shipment moving it to a noneditable state while it is waiting to be dispatched.

**Table 4-467 API Basics**

| | |
|---|---|
| Endpoint URL | /{shipmentId}/submit |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | None |
| Output | None |


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**Table 4-468 Path Parameter Definitions**

| Parameter | Definition |
|---|---|
| shipmentId | The internal identifier of the transfer shipment header. |

## API: Cancel Submit Shipment

Cancels the submissions of the transfer shipment return it to an in progress and editable state.

**Table 4-469 API Basics**

| | |
|---|---|
| Endpoint URL | /{shipmentId}/cancelsubmit |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | None |
| Output | None |

**Table 4-470 Path Parameter Definitions**

| Parameter | Definition |
|---|---|
| shipmentId | The internal identifier of the transfer shipment header. |

## API: Dispatch Shipment

Dispatches the transfer shipment updating all the inventory positions and closing the shipment.

**Table 4-471 API Basics**

| | |
|---|---|
| Endpoint URL | /{shipmentId}/dispatch |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | None |
| Output | None |

**Table 4-472 Path Parameter Definitions**

| Parameter | Definition |
|---|---|
| shipmentId | The internal identifier of the transfer shipment header. |

## API: Cancel Shipment

Cancels the transfer shipment reversing any reserved inventory currently picked.


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**Table 4-473 API Basics**

| | |
|---|---|
| Endpoint URL | /{shipmentId}/cancel |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | None |
| Output | None |

**Table 4-474 Path Parameter Definitions**

| Parameter | Definition |
|---|---|
| shipmentId | The internal identifier of the transfer shipment header. |

# API: Confirm Carton

Confirms a transfer shipment container, completing the container and making it non-editable and awaiting dispatch.

**Table 4-475 API Basics**

| | |
|---|---|
| Endpoint URL | cartons/{cartonId}/confirm |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | None |
| Output | None |

**Table 4-476 Path Parameter Definitions**

| Parameter | Definition |
|---|---|
| cartonId | The internal identifier of the transfer shipment carton. |

# API: Cancel Carton

Cancels a transfer shipment container.

**Table 4-477 API Basics**

| | |
|---|---|
| Endpoint URL | cartons/{cartonId}/cancel |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | None |


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**Table 4-477 (Cont.) API Basics**

| | |
|---|---|
| Output | None |

**Table 4-478 Path Parameter Definitions**

| Parameter | Definition |
|---|---|
| cartonId | The internal identifier of the transfer shipment carton. |

## API: Open Carton

Opens a transfer shipment container.

**Table 4-479 API Basics**

| | |
|---|---|
| Endpoint URL | cartons/{cartonId}/open |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Input | None |
| Output | None |

**Table 4-480 Path Parameter Definitions**

| Parameter | Definition |
|---|---|
| cartonId | The internal identifier of the transfer shipment carton. |

## API: createShipment

This API is used to create a new transfer shipment whose status is "In Progress."

> **Note**
>
> Container item/reason combination cannot be duplicated within the container.

**Table 4-481 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL} |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Transfer Shipment |
| Output | Transfer Shipment Status |
| Maximum Input Limit | 1,000 overall line items on shipment |


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**Table 4-482 Input Data Definition**

| Attribute | Type | Req | Definition |
|---|---|---|---|
| storeId | Long(10 | X | The identifier of the store shipping the goods. |
| destinationType | Integer(2) | X | The location type of the destination (see Index). |
| destinationId | Long(10) | X | The location identifier of the destination |
| asn | String(15) | | The advance shipping number from an external system. |
| authorizationCode | String(12) | | A vendor authorization code. It may be required for some suppliers. |
| displayCartons | Boolean | | True if cartons should be displayed, otherwise false. |
| addressType | Integer | | The type of return address. See Index. |
| carrierRole | Integer(2) | X | The type of carrier for the shipment. See Index |
| carrierId | Long(10) | | A unique identifier of a carrier for the shipment. |
| carrierServiceId | Long(10) | | A unique identifier of a carrier service for the shipment. |
| alternateAddress | String(2000) | | An alternate destination address. |
| alternateCarrierName | String(240) | | The name of a third-party shipping company. |
| alternateCarrierAddress | String(2000) | | The address of a third-party shipping company. |
| motiveId | Long(18) | | The unique identifier of a bill of lading motive. |
| taxId | taxId | | The tax identifier of the supplier it is being shipped to. |
| trackingNumber | String(128) | | A tracking number associated to the shipment. |
| dimensionId | Long(12) | | The identifier of a dimension associated to the shipment. |
| weight | BigDecimal(12,4) | | The weight of the shipment. |
| weightUom | String(4) | | The unit of measure of the weight of the shipment. |
| requestedPickupDate | Date | | The requested pickup date. |
| cartons | Collection | X | A group of cartons to create along with the shipment. |
| notes | Collections of Strings | | A collection of up to 100 notes. |

**Table 4-483 Shipment Carton Data Definition**

| Payload | Type | Req | Definition |
|---|---|---|---|
| externalCartonId | String(128) | | A container identifier from an external system. |
| trackingNumber | String(128) | | The tracking number of the container. |
| restrictionLevel | Integer(4) | | A hierarchy restriction level for items in the container. |
| cartonSizeId | Long(10) | | The shipment container dimension identifier. |


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**Table 4-483 (Cont.) Shipment Carton Data Definition**

| | | | |
|---|---|---|---|
| weight | Long(12,4) | | The weight of the container. |
| weightUom | String(4) | | The unit of measure of the weight of the container. |
| useAvailableInventory | Boolean | | True indicates available inventory will be used, false indicates unavailable inventory should be used. |
| lineItems | Collection | X | A collection of line items to create along with the carton. |

**Table 4-484 Shipment Lien Item Data Definition**

| Payload | Type | Req | Definition |
|---|---|---|---|
| itemId | String(25) | X | The unique identifier of the SKU item. |
| transferId | Long(12) | X | The unique identifier of a transfer this item is being shipped for. |
| reasonId | Long(15) | | The unique identifier of the shipment reason associated to this line item. It is not allowed for available inventory and required for unavailable inventory. |
| quantity | BigDecimal(12,4) | X | The quantity to ship. |
| caseSize | BigDecimal(10,2) | | The case size of the item for this particular shipment. |
| uins | Collecton<String> | | A collection of UINs to ship. This number of UINs must match the quantity. |

**Table 4-485 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| shipmentId | Long(15) | The unique identifier of the shipment. |
| storeId | Long(10) | The store identifier of the store shipping the goods. |
| asn | String(15) | The Advancing Shipping Number. |
| status | Integer(2) | The shipment status. See Index. |


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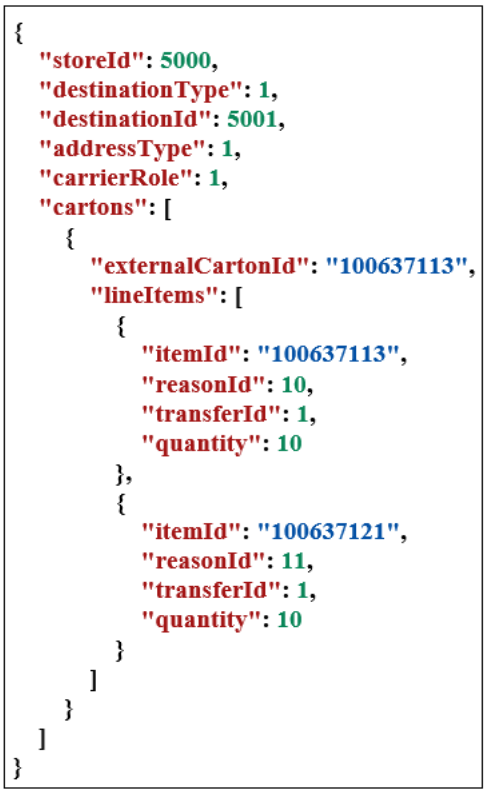
**Figure 4-17 Example Code**



```
{
  "storeId": 5000,
  "destinationType": 1,
  "destinationId": 5001,
  "addressType": 1,
  "carrierRole": 1,
  "cartons": [
    {
      "externalCartonId": "100637113",
      "lineItems": [
        {
          "itemId": "100637113",
          "reasonId": 10,
          "transferId": 1,
          "quantity": 10
        },
        {
          "itemId": "100637121",
          "reasonId": 11,
          "transferId": 1,
          "quantity": 10
        }
      ]
    }
  ]
}
```

# API: updateShipment

This API is used to update to the header portion of a shipment as well as its bill of lading information.

The shipment header cannot be updated while containers/cartons are currently confirmed for shipping.

**Table 4-486 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{shipmentId} |
| Method | POST |
| Successful Response | 204 No Content |
| Processing Type | Synchronous |
| Path Parameter | The identifier of the transfer shipment |
| Input | Transfer Shipment |

**Table 4-487 Input Data Definition**

| Column | Type | Definition |
|---|---|---|
| authorizationCode | String(12) | An authorization code associated to the shipment. |
| displayCartons | Boolean | True if cartons should be displayed, otherwise false. |


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**Table 4-487 (Cont.) Input Data Definition**

| | | |
|---|---|---|
| addressType | Integer(2) | The type of return address. See Index. |
| carrierRole | Integer(2) | The type of carrier for the shipment. See Index. |
| carrierId | Long(10) | A unique identifier of a carrier for the shipment. |
| carrierServiceId | Long(10) | A unique identifier of a carrier service for the shipment. |
| alternateAddress | String(2000) | An alternate destination address. |
| alternateCarrierName | String(240) | The name of a third-party shipping company. |
| alternateCarrierAddress | String(2000) | The address of a third-party shipping company |
| motiveId | Long(18) | The unique identifier of a bill of lading motive. |
| taxId | String(18) | The tax identifier of the supplier it is being shipped to. |
| trackingNumber | String(128) | A tracking number associated to the shipment. |
| dimensionId | Long(12) | The identifier of a dimension associated to the shipment. |
| weight | BigDecimal(12, 4) | The weight of the shipment. |
| weightUom | String(4) | The unit of measure of the weight of the shipment. |
| requestedPickupDate | Date | The requested pickup date. |
| notes | Collection(String) | A collection of up to 100 notes to add to the notes associated to the shipment. |

**Figure 4-18 Code Example**

```
{
  "carrierRole": 2,
  "authorizationCode": "6543",
  "trackingNumber": "A67B",
  "addressType": 2
}
```

# API: createCarton

This API is used to add a new carton/container to a "New" or "In Progress" shipment.

Container item/reason combination cannot be duplicated within the container.

**Table 4-488 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/{shipmentId}/cartons |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Path Parameter | The identifier of the transfer shipment |
| Input | Transfer Shipment Carton |


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**Table 4-488 (Cont.) API Basics**

| | |
|---|---|
| Output | Transfer Shipment Carton Status |
| Maximum Input Limit | 1,000 overall line items on carton |

**Table 4-489 Input Data Definition**

| Column | Type | Req | Definition |
|---|---|---|---|
| externalCartonId | String(128) | | A carton identifier or barcode label from an external system. |
| cartonSizeId | Long(10) | | The shipment container dimension identifier. |
| weight | BigDecimal(12,4) | | The weight of the container. |
| weightUom | String(4) | | The unit of measure of the weight of the container. |
| trackingNumber | String(128) | | A tracking number for the container. |
| useAvailableInventory | Boolean | | True indicates use only available inventory, False indicates use non-available inventory. |
| restrictionLevel | Integer(4) | | A hierarchy restriction level for items in the container. |
| lineItems | Collection | X | The line items in the container. |

**Table 4-490 Shipment Line Item Data Definition**

| Column | Type | Req | Definition |
|---|---|---|---|
| itemId | String(25) | X | The unique identifier of the item. |
| caseSize | BigDecimal(10,2) | | The case size of this line item. |
| quantity | BigDecimal(20,4) | X | The quantity to be shipped. |
| transferId | Long(12) | X | The unique identifier of the associated transfer. |
| reasonId | Long(15) | | A unique identifier of a shipment reason associated to this item. It is not allowed for available inventory and required for unavailable inventory. |
| uins | List<String> | | A list of UINs to be shipped. This must match the quantity. |

**Table 4-491 Output Data Definition**

| Attribute | Type | Definition |
|---|---|---|
| shipmentId | Long(15) | The unique identifier of the shipment. |
| cartonId | Long(15) | The unique identifier of the new carton. |
| externalId | String(128) | The external identifier or barcode label of the container. |
| status | Integer(2) | The carton status. See Index. |


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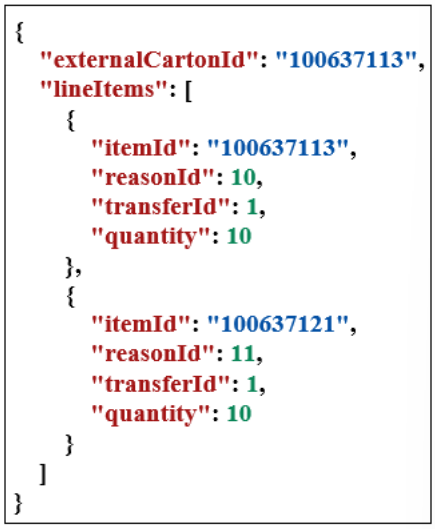
**Figure 4-19 Code Example**



```
{
  "externalCartonId": "100637113",
  "lineItems": [
    {
      "itemId": "100637113",
      "reasonId": 10,
      "transferId": 1,
      "quantity": 10
    },
    {
      "itemId": "100637121",
      "reasonId": 11,
      "transferId": 1,
      "quantity": 10
    }
  ]
}
```

# API: updateCarton

This API is used to update an existing carton that is in "New" or "In Progress" shipment.

**Table 4-492 API Basics**

| | |
|---|---|
| Endpoint URL | {base URL}/cartons/{cartonId} |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Path Parameter | The identifier of the carton |
| Input | Transfer Shipment Carton |
| Output | Transfer Shipment Carton Status |
| Maximum Input Limit | 1,000 overall line items on carton |

**Table 4-493 Input Data Definition**

| Payload | Type | Req | Definition |
|---|---|---|---|
| externalCartonId | String(128) | | A container identifier from an external system. |
| trackingNumber | String(128) | | The tracking number of the container. |
| restrictionLevel | Integer(4) | | A hierarchy restriction level for items in the container. |
| cartonSizeId | Long(10) | | The shipment container dimension identifier. |
| weight | Long(12,4) | | The weight of the container. |
| weightUom | String(4) | | The unit of measure of the weight of the container. |


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**Table 4-493 (Cont.) Input Data Definition**

| | | | |
|---|---|---|---|
| lineItems | Collection | | A collection of up to 1,000 line items to update or add within the carton. See TransferShipmentUpdateCartontemIdo. |

| Payload | Type | Req | Definition |
|---|---|---|---|
| itemId | String(25) | X | The unique identifier of the SKU item. |
| transferId | Long(12) | X | The unique identifier of the associated transfer. |
| reasonId | Long(15) | | The unique identifier of the shipment reason associated to this line item. It is not allowed for available inventory and required for unavailable inventory. |
| quantity | BigDecimal(12,4) | X | The quantity shipped. Reducing this to 0 will remove the line item from the shipment. |
| caseSize | BigDecimal(10,2) | | The case size of the item for this particular shipment. |
| uins | Collection<String> | | The UINs associated to the item quantities. The number of UINS must match the quantity shipped. |

**Figure 4-20 Code Example**

```
{
  "externalCartonId": "100637113",
  "lineItems": [
    {
      "itemId": "100637113",
      "reasonId": 10,
      "transferId": 1,
      "quantity": 10
    },
    {
      "itemId": "100637121",
      "reasonId": 11,
      "transferId": 1,
      "quantity": 10
    }
  ]
}
```

# Index

**Table 4-494 Destination Type**

| Value | Description |
|---|---|
| 1 | Store |


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**Table 4-494 (Cont.) Destination Type**

| | |
|---|---|
| 2 | Warehouse |
| 3 | Finisher |

**Table 4-495 Status**

| Value | Description |
|---|---|
| 1 | New |
| 2 | In Progress |
| 3 | Submitted |
| 4 | Shipped |
| 5 | Canceled |

**Table 4-496 Customer Order Related**

| Value | Description |
|---|---|
| 1 | Yes |
| 2 | Mixed |
| 3 | No |

# REST Service: Translations

This page captures the service APIs related to retrieving translations. It allows the translation of such things as labels and item descriptions.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/translations

## API Definitions

| API | Description |
|---|---|
| Find Locales | Finds all locales that can be used to translation a series of text keys. |
| Find Translations | Finds the translations for a series of text keys, translating into text for the locale if it is available. |
| Find Item Descriptions | Finds the translations for item descriptions, translating it to the text of the locale if it is available. |

## API: Find Locales

Finds all locales available for use in translation.


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### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/locales |
| Method | GET |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Criteria |
| Output | List of locales |
| Max Response Limit | N/A |

### Output Data Definition

| Attribute | Data Type | Description |
|---|---|---|
| localeId | Long | The SIOCS internal unique identifier of the record. |
| language | String | A code representing a language (ISO 639 alpha-2 or alpha-3 language code). |
| country | String | A code representing a country of the language (ISO 3166 alpha-2 country code or UN M.49 numeric-3 area code. ) |
| variant | String | A code representing a variant of the country of the language (an arbitrary value indication the variant). |
| description | String | A description of the locale. |

### Example Output

[

{

"localeId": 1,

"language": "en",

"description": "English"

},

{

"localeId": 2,

"language": "de",

"description": "German"

},

{

"localeId": 3,

"language": "fr",

"description": "French"


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}

]

# API: Find Translations

Searches for translations for text keys and a given locale.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/find |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Criteria |
| Output | A map of translation key and its translation |
| Max Response Limit | N/A |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| localeId | Long(12) | Yes | Unique identifier of the Locale to translate keys for (see find Locales). |
| keys | List<String(600)> | Yes | A list of text keys to attempt to translate. |

### Example Input

{

"localeId": 1,

"keys": [

"invAdjReason.1",

"invAdjReason.2"

]

}

### Output Data Definition

| Attribute | Data Type | Description |
|---|---|---|
| values | Map<String, String> | A map where the key is the translation key and the value is the translation value. |

### Example Output

{

"invAdjReason.2": "Shrinkage",


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"invAdjReason.1": "Wastage"

}

# API: Find Items Descriptions

Finds the translations for item descriptions, translating it to the text of the locale if it is available.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/items |
| Method | POST |
| Successful Response | 200 OK |
| Processing Type | Synchronous |
| Input | Criteria |
| Output | A list of translation items |
| Max Response Limit | N/A |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| LocaleId | Long (12) | Yes | Unique identifier of the Locale to translate descriptions for (see findLocales). |
| itemIds | List<String(25)> | Yes | A list of items to get descriptions for within the locale. |

### Example Input

{

"localeId": 1,

"itemIds": [

"100637121",

"100637113"

]

}

### Output Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String | | The item identifier. |
| shortDescription | String | | The short description in the locale's text if available. |
| longDescription | String | | The long description in the locale's text if available. |


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**Example Output**

[
{
"itemId": "100637121",
"shortDescription": "translation value for 100637121",
"longDescription": "translation value for 100637121"
},
{
"itemId": "100637113",
"shortDescription": "translation value for 100637113",
"longDescription": "translation value for 100637113"
}
]

# REST Service: Vendor Delivery

A direct store delivery (or vendor delivery) is a delivery in which the supplier drops off merchandise directly as the store. These deliveries can be against a planned delivery, an existing purchase order (PO) raised by corporate or by the store, or a purchase order created on the fly. The delivery supports containers coming in directly with Advanced Shipment Notice (ASN) or the system will create a container when the ASN is loaded into the system. Even for receipts without ASN, the system will allow the creation of containers. The four main types of deliveries are a delivery against a purchase order with an advance shipment notice, a delivery against a purchase order without an advance shipment notice, a delivery without a purchase order, and a DEX/NEX or Direct Exchange delivery. This service defines operations to manage vendor delivery information by integration with an external system.

## Service Base URL

The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

## Find Delivery

This section describes the Find Delivery API. This API finds up to 10,000 delivery headers for the input criteria.

## Method

```
GET
```


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## URL

```
/dsds
```

## Request Parameters

**Table 4-497 Find Delivery — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeId | NA | number($int10) (query) | Include only records where the delivery is to this store. |
| asn | NA | string($text128) (query) | Include only records for this advanced shipping notification. |
| originType | NA | integer($int4) (query) | Include only records with this delivery origin type. Valid values are:<br>1 - Advanced Shipping Notification<br>2 - Purchase Order<br>3 - DEX-NEX<br>4 - Manual/On The Fly<br>Available values : 1, 2, 3, 4 |
| status | NA | integer($int4) (query) | Include only records with this delivery status. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Received<br>4 - Canceled<br>5 - Rejected<br>99 - Active<br>Available values: 1, 2, 3, 4, 5, 99 |
| customerOrderNumber | NA | string($text128) (query) | Include only deliveries for this customer order number. |
| fulfillmentOrderNumber | NA | string($text128) (query) | Include only deliveries for this fulfillment order number. |
| invoiceNumber | NA | string($text128) (query) | Include only deliveries for this invoice number. |
| supplierId | NA | integer($int10) (query) | Include only deliveries for this supplier. |
| purchaseOrderNumber | NA | string($text12) (query) | Include only deliveries for this purchase order number. |
| updateDateFrom | NA | string($date-time) (query) | Include only deliveries with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only deliveries with an update date on or before this date. |

## Responses


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This section describes the responses of the Find Delivery API.

## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "deliveryId": 11111,
    "storeId": 5000,
    "supplierId": 5101,
    "status": 1,
    "originType": 1,
    "purchaseOrderId": 789012,
    "receiptNumber": 90000,
    "asn": "784562",
    "invoiceId": "10056",
    "customerOrderId": "45000",
    "fulfillmentOrderId": "45001",
    "createDate": "2025-01-22T14:55:02.719Z",
    "updateDate": "2025-01-22T14:55:02.719Z",
    "expectedDate": "2025-01-22T14:55:02.719Z",
    "invoiceDate": "2025-01-22T14:55:02.719Z",
    "receivedDate": "2025-01-22T14:55:02.719Z"
  }
]
```


### Schema — VendorDeliveryHeaderIdo

**Table 4-498 VendorDeliveryHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | NA | number($int12) example: 11111 | The unique identifier of the vendor delivery. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| supplierId | NA | number($int10) example: 5101 | The identifier of the supplier shipping the inventory. |


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**Table 4-498 (Cont.) VendorDeliveryHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| status | NA | integer($int4) example: 1 | The current status of the vendor delivery. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Received<br>4 - Canceled<br>5 - Rejected<br>Enum: [ 1, 2, 3, 4, 5 |
| originType | NA | integer($int4) example: 1 | The origin type of the vendor delivery. Valid values are:<br>1 - Advanced Shipping Notification<br>2 - Purchase Order<br>3 - DEX-NEX<br>4 - Manual/On The Fly<br>Enum: [ 1, 2, 3, 4 ] |
| purchaseOrderId | NA | number($int12) example: 789012 | The purchase order that the delivery is associated to (at header level). |
| receiptNumber | NA | integer($int12) example: 90000 | The global receipt number of the delivery, used to identify the receipt across applications through integration. |
| asn | NA | string($text128) example: 784562 | The advanced shipping notification. |
| invoiceId | NA | string($text128) example: 10056 | The unique identifier of the invoice. |
| customerOrderId | NA | string($text128) example: 45000 | The identifier of a customer order associated to the delivery. |
| fulfillmentOrderId | NA | string($text128) example: 45001 | The identifier of a fulfillment order associated to the delivery. |
| createDate | MA | string($date-time) | The date the delivery was created. |
| updateDate | NA | string($date-time) | The date the delivery was last updated. |
| expectedDate | NA | string($date-time) | The expected delivery date of the delivery. |
| invoiceDate | NA | string($date-time) | The date of the delivery invoice. |
| receivedDate | NA | string($date-time) | The date the delivery was actually received. |

## Response Code: 400


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Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Create Delivery

This API creates a new vendor delivery as if SIOCS was the originator of the delivery. To create a ASN-based delivery where an external system manages the delivery as the originator, see the import delivery operation.

## Method

```
POST
```

## URL

```
/dsds
```

## Request Parameters

There are no request parameters.

The request body is application/json.

The delivery details of the new delivery.

## Example Value

```
{
  "storeId": 5000,
  "supplierId": 5101,
  "purchaseOrderId": 789012,
  "originType": 1,
  "billOfLadingId": "55601",
  "carrierName": "Speedy Delivery",
  "carrierType": 1,
  "carrierCode": "SPDE",
  "sourceAddress": "200 Apple Street, Coolsville, WI, 55555",
  "licensePlate": "ABC-123",
  "freightId": "882211",
  "countryCode": "US",
  "currencyCode": "USD",
  "invoiceNumber": "10056",
  "invoiceDate": "2025-03-27T12:01:04.024Z",
  "invoiceAmount": 999.99,
  "cartons": [
    {
      "externalCartonId": "444200301",
```


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```
      "referenceId": "200440012",
      "damageReason": "Dropped",
      "serialCode": 337654,
      "trackingNumber": "AZB12743D",
      "damageRemaining": false,
      "receiveAtShopFloor": false,
      "qualityControl": false,
      "lineItems": [
        {
          "itemId": "10045600",
          "caseSize": 10,
          "quantityReceived": 3,
          "quantityDamaged": 2,
          "unitCostOverrideAmount": 17.5,
          "purchaseOrderId": 500678,
          "uins": [
            {
              "uin": "14532B12",
              "received": true,
              "damaged": false
            }
          ]
        }
      ]
    }
  ]
}
```


## Schema — VendorDeliveryCreateIdo

**Table 4-499 VendorDeliveryCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| supplierId | Yes | number($int10) example: 5101 | The identifier of the supplier shipping the inventory. |
| purchaseOrderId | NA | number($int12) example: 789012 | The purchase order that the delivery is being shipped for (if the shipment is for a single purchase order). |
| originType | Yes | integer($int4) example: 1 | The origin type of the vendor delivery. Valid values are:<br>2 - Purchase Order<br>3 - DEX-NEX<br>4 - Manual/On The Fly<br>Enum: [ 2, 3, 4 ] |
| billOfLadingId | NA | string($text128) example: 55601 | An external identifier of a bill of lading record. |


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**Table 4-499 (Cont.) VendorDeliveryCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| carrierName | NA | string($text128) example: Speedy Delivery | The name of the carrier. |
| carrierType | NA | integer($int4) example: 1 | The carrier type of the vendor delivery. Valid values are:<br>1 - Corporate<br>2 - Third Party<br>Enum: [ 1, 2] |
| carrierCode | NA | string($text4) example: SPDE | A unique code that identifies the carrier. |
| sourceAddress | NA | string($text1000) example: 200 Apple Street, Coolsville, WI, 55555 | The address of the source shipping location sending the delivery. |
| licensePlate | NA | string($text128) example: ABC-123 | The license plate of the delivery vehicle. |
| freightId | NA | string($text128) example: 882211 | A freight identifier associated to the delivery. |
| countryCode | NA | string($text3) example: US | A country code of the country of the bill of lading. |
| currencyCode | NA | string($text3) example: USD | The currency code of the invoice cost. |
| invoiceNumber | NA | string($text128) example: 10056 | The unique identifier of the invoice associated to the delivery. |
| invoiceDate | NA | string($date-time) | The date of the delivery invoice. |
| invoiceAmount | NA | number($decimal(12,4)) example: 999.99 | The value of the invoice cost. |
| cartons | Yes | object | The cartons present on the delivery. |

**Table 4-500 VendorDeliveryCreateCartonIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: 444200301 | The external identifier of the carton. |


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**Table 4-500 (Cont.) VendorDeliveryCreateCartonIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| referenceId | NA | string($text128) example: 200440012 | A reference identifier to the carton. |
| damageReason | NA | string($text128) example: Dropped | A reason for the carton damage that took place. |
| serialCode | NA | number($int18) example: 337654 | A serial code for the carton. |
| trackingNumber | NA | string($text128) example: AZB12743D | A tracking number for the carton. |
| damageRemaining | NA | boolean example: false | True indicates all remaining unaddressed quantities should be marked damaged on final receipt. |
| receiveAtShopFloor | NA | boolean example: false | True if it should receive inventory to the shop floor, false otherwise. |
| qualityControl | NA | boolean example: false | True indicates the carton requires detailed receiving. |
| lineItems | Yes | object | The items contained within the carton. |

**Table 4-501 VendorDeliveryCreateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| caseSize | NA | number($decima(10,2)) example: 10 | The case size of the item. |
| quantityReceived | NA | number($decimal(20,4)) example: 3 | The amount received on the delivery. |
| quantityDamaged | NA | number($decimal(20,4)) example: 2 | The amount received as damaged on the delivery. |
| unitCostOverrideAmount | NA | number($decimal(20,4)) example: 17.5 | The override unit cost value of this delivery. |
| purchaseOrderId | NA | integer($int12) example: 500678 | The unique identifier of the purchase order for this item. |
| uins | NA | object | The UINs associated to this item. |


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**Table 4-502 VendorDeliveryUinIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | NA | string($text128) example: 14532B12 | The Universal Identification Number. |
| received | NA | boolean example: true | True if the UIN is received as part of the delivery, false otherwise. |
| damaged | NA | boolean example: false | True if the UIN is received as damaged as part of the delivery, false otherwise. |

## Responses

This section describes the responses of the Create Delivery API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "deliveryId": 11111,
    "storeId": 5000,
    "supplierId": 5101,
    "status": 1
  }
]
```

### Schema — VendorDeliveryStatusIdo

**Table 4-503 VendorDeliveryStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| deliveryId | NA | number($int12) example: 11111 | The unique identifier of the vendor delivery. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| supplierId | NA | number($int10) example: 5101 | The identifier of the supplier shipping the inventory. |


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**Table 4-503 (Cont.) VendorDeliveryStatusIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| status | NA | integer($int4)<br>example: 1 | The current status of the vendor delivery. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Received<br>4 - Canceled<br>5 - Rejected<br>Enum: [ 1, 2, 3, 4, 5 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Delivery

This section describes the Read Delivery API. This API retrieves all the details about a vendor delivery.

### Method

```
GET
```

### URL

```
/dsds/{deliveryId}
```

### Request Parameters

**Table 4-504 Read Delivery — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the vendor delivery. |

### Responses

This section describes the responses of the Read Delivery API.


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## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "deliveryId": 11111,
    "storeId": 5000,
    "supplierId": 5101,
    "status": 1,
    "originType": 1,
    "purchaseOrderId": 789012,
    "receiptNumber": 90000,
    "asn": "784562",
    "invoiceNumber": "10056",
    "invoiceCurrency": "USD",
    "invoiceAmount": 999.99,
    "customerOrderId": "45000",
    "fulfillmentOrderId": "45001",
    "displayCartonInfo": true,
    "billOfLadingId": "55601",
    "carrierName": "Speedy Delivery",
    "carrierCode": "SPDE",
    "countryCode": "US",
    "sourceAddress": "200 Apple Street, Coolsville, WI, 55555",
    "licensePlate": "ABC-123",
    "freightId": "882211",
    "fiscalDocumentRequestId": 22233344455566,
    "fiscalDocumentReferenceId": 77788899100,
    "fiscalDocumentNumber": "128745",
    "createDate": "2025-03-27T12:03:25.084Z",
    "updateDate": "2025-03-27T12:03:25.084Z",
    "expectedDate": "2025-03-27T12:03:25.084Z",
    "invoiceDate": "2025-03-27T12:03:25.084Z",
    "receivedDate": "2025-03-27T12:03:25.084Z",
    "createUser": "smith123",
    "updateUser": "smith123",
    "receivedUser": "smith123",
    "cartons": [
      {
        "cartonId": 100200300,
        "externalCartonId": "444200301",
        "referenceId": "200440012",
        "status": 1,
        "damageReason": "Dropped",
        "serialCode": 337654,
        "trackingNumber": "AZB12743D",
        "damageRemaining": false,
        "uinRequired": false,
        "receiveAtShopFloor": false,
```



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```
        "qualityControl": false,
        "externalCreate": false,
        "adjusted": false,
        "customerOrderRelated": 1,
        "createDate": "2025-03-27T12:03:25.084Z",
        "updateDate": "2025-03-27T12:03:25.084Z",
        "receivedDate": "2025-03-27T12:03:25.084Z",
        "createUser": "smith123",
        "updateUser": "smith123",
        "receivedUser": "smith123",
        "lineItems": [
          {
            "lineId": 2222222,
            "itemId": "10045600",
            "caseSize": 10,
            "quantityExpected": 5,
            "quantityReceived": 3,
            "quantityDamaged": 2,
            "quantityReceivedOverage": 3,
            "quantityDamagedOverage": 2,
            "quantityPreviouslyReceived": 3,
            "quantityPreviouslyDamaged": 2,
            "unitCostCurrency": "USD",
            "unitCostAmount": 14.5,
            "unitCostOverrideCurrency": "USD",
            "unitCostOverrideAmount": 17.5,
            "purchaseOrderId": 500678,
            "purchaseOrderNumber": "DX4600",
            "customerOrderNumber": "CO100000",
            "fulfillmentOrderNumber": "FO12",
            "vendorProductNumber": "147800",
            "uins": [
              {
                "uin": "14532B12",
                "shipped": true,
                "received": true,
                "damaged": false
              }
            ]
          }
        ]
      }
    ]
  }
]
```


## Schema — VendorDeliveryIdo


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**Table 4-505 VendorDeliveryIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryId | NA | number($int12) example: 11111 | The unique identifier of the vendor delivery. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| supplierId | NA | number($int10) example: 5101 | The identifier of the supplier shipping the inventory. |
| status | NA | integer($int4) example: 1 | The current status of the vendor delivery. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Received<br>4 - Canceled<br>5 - Rejected<br>Enum: [ 1, 2, 3, 4, 5 ] |
| originType | NA | integer($int4) example: 1 | The origin type of the vendor delivery. Valid values are:<br>1 - Advanced Shipping Notification<br>2 - Purchase Order<br>3 - DEX-NEX<br>4 - Manual/On The Fly<br>Enum: [ 1, 2, 3, 4 ] |
| purchaseOrderId | NA | number($int12) example: 789012 | The purchase order that the delivery is associated to (at header level). |
| receiptNumber | NA | integer($int12) example: 90000 | The global receipt number of the delivery, used to identify the receipt across applications through integration. |
| asn | NA | string($text128) example: 784562 | The advanced shipping notification. |
| invoiceNumber | NA | string($text128) example: 10056 | The unique identifier of the invoice associated to the delivery. |
| invoiceCurrency | NA | string($text3) example: USD | The currency code of the invoice cost. |


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**Table 4-505 (Cont.) VendorDeliveryIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| invoiceAmount | NA | number($decimal(12,4)) example: 999.99 | The value of the invoice cost. |
| customerOrderId | NA | string($text128) example: 45000 | The identifier of a customer order associated to the delivery. |
| fulfillmentOrderId | NA | string($text128) example: 45001 | The identifier of a fulfillment order associated to the delivery. |
| displayCartonInfo | NA | boolean example: true | True if carton information should be displayed in the UI, false otherwise. |
| billOfLadingId | NA | string($text128) example: 55601 | An external identifier of a bill of lading record. |
| carrierName | NA | string($text128) example: Speedy Delivery | The name of the carrier. |
| carrierCode | NA | string($text4) example: SPDE | A unique code that identifies the carrier. |
| countryCode | NA | string($text3) example: US | A country code of the country of the bill of lading. |
| sourceAddress | NA | string($text1000) example: 200 Apple Street, Coolsville, WI, 55555 | The address of the source shipping location sending the delivery. |
| licensePlate | NA | string($text128) example: ABC-123 | The license plate of the delivery vehicle. |
| freightId | NA | string($text128) example: 882211 | A freight identifier associated to the delivery. |


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**Table 4-505 (Cont.) VendorDeliveryIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| fiscalDocumentRequestId | NA | number($int20) example: 22233344455566 | The identifier of the request for a fiscal document. |
| fiscalDocumentReferenceId | NA | number($int20) example: 77788899100 | The unique identifier of the fiscal document record. |
| fiscalDocumentNumber | NA | string($text255) example: 128745 | The fiscal document number. |
| createDate | NA | string($date-time) | The date the delivery was created. |
| updateDate | NA | string($date-time) | The date the delivery was last updated. |
| expectedDate | NA | string($date-time) | The expected delivery date of the delivery. |
| invoiceDate | NA | string($date-time) | The date of the delivery invoice. |
| receivedDate | NA | string($date-time) | The date the delivery was received. |
| createUser | NA | string($text128) example: smith123 | The user that created the delivery record. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the delivery record. |
| receivedUser | NA | string($text128) example: smith123 | The user that received the delivery record. |
| cartons | NA | object | The containers belonging to this delivery. |


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**Table 4-506 VendorDeliveryCartonIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | NA | integer($int12) example: 100200300 | The unique identifier of the carton record. |
| externalCartonId | NA | string($text128) example: 444200301 | The external identifier of the carton. |
| referenceId | NA | string($text128) example: 200440012 | A reference identifier for the carton. |
| status | NA | integer($int4) example: 1 | The current status of the carton. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Submitted<br>4 - Received<br>5- Damaged<br>6 - Missing<br>7 - Canceled<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |
| damageReason | NA | string($text128) example: Dropped | A reason for the carton damage that took place. |
| serialCode | NA | number($int18) example: 337654 | A serial code for the carton. |
| trackingNumber | NA | string($text128) example: AZB12743D | A tracking number for the carton. |
| damageRemaining | NA | boolean example: false | True indicates all remaining quantities should be marked damaged on final receipt. |
| uinRequired | NA | boolean example: false | True if a UIN item exists within the carton, false otherwise. |
| receiveAtShopFloor | NA | boolean example: false | True if delivery should receive inventory to the shop floor, false otherwise. |


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**Table 4-506 (Cont.) VendorDeliveryCartonIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| qualityControl | NA | boolean example: false | True indicates the carton requires detailed receiving. |
| externalCreate | NA | boolean example: false | True indicates the carton was externally created, false indicates it was created by EICS. |
| adjusted | NA | boolean example: false | True indicates the carton has been adjusted. |
| customerOrderRelated | NA | integer($int4) example: 1 | Defines whether or not the items within the carton are related to customer orders. Valid values are:<br>1 - Yes<br>2 - Mix<br>3 - No<br>Enum: [ 1, 2, 3 ] |
| createDate | NA | string($date-time) | The date the carton was created. |
| updateDate | NA | string($date-time) | The date the carton was last updated. |
| receivedDate | NA | string($date-time) | The date the carton was received. |
| createUser | NA | string($text128) example: smith123 | The user that created the carton record. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the carton record. |
| receivedUser | NA | string($text128) example: smith123 | The user that received the carton record. |
| lineItems | NA | object | The items belonging to the carton. |

**Table 4-507 VendorDeliveryLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | integer($int12) example: 2222222 | The unique identier of the line item record. |


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**Table 4-507 (Cont.) VendorDeliveryLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| caseSize | NA | number($decimal(10,2)) example: 10 | A case size of the item in this container. |
| quantityExpected | NA | number($decimal(20,4)) example: 5 | The total amount expected on the delivery. |
| quantityReceived | NA | number($decimal(20,4)) example: 3 | The total amount received on the delivery. |
| quantityDamaged | NA | number($decimal(20,4)) example: 2 | The total amount received as damaged on the delivery. |
| quantityReceivedOverage | NA | number($decimal(20,4)) example: 3 | Amount of received inventory over expected quantities. |
| quantityDamagedOverage | NA | number($decimal(20,4)) example: 2 | Amount of received as damaged inventory over expected quantities. |
| quantityPreviouslyReceived | NA | number($decimal(20,4)) example: 3 | Units previously received (captured at time container is re-opened after receipt). |
| quantityPreviouslyDamaged | NA | number($decimal(20,4)) example: 2 | Units previously received as damaged (captured at time container is re-opened after receipt). |
| unitCostCurrency | NA | string($text3) example: USD | The currency of the unit cost of this delivery. |


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**Table 4-507 (Cont.) VendorDeliveryLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| unitCostAmount | NA | number($decimal(20,4)) example: 14.5 | The unit cost value of this delivery. |
| unitCostOverrideCurrency | NA | string($text3) example: USD | The currency of the override unit cost of this delivery. |
| unitCostOverrideAmount | NA | number($decimal(20,4)) example: 17.5 | The override unit cost value of this delivery. |
| purchaseOrderId | NA | integer($int12) example: 500678 | The unique identifier of the purchase order for this item. |
| purchaseOrderNumber | NA | string($text128) example: DX4600 | The external purchase order number for this item. |
| customerOrderNumber | NA | string($text128) example: CO100000 | The unique external customer order identifier this item is fulfilling. |
| fulfillmentOrderNumber | NA | string($text3) example: FO12 | The unique external fulfillment order identifier this item is fulfilling. |
| vendorProductNumber | NA | string($text256) example: 147800 | The vendor product number of the item. |
| uins | NA | object | The UINs being received as part of this item. |

**Table 4-508 VendorDeliveryLineItemUinIdo— Object**

| | | | |
|---|---|---|---|
| uin | NA | string($text128) example: 14532B12 | The Universal Identification Number. |
| shipped | NA | Boolean example: true | True if the UIN was shipped from the supplier as part of the delivery, false otherwise. |
| received | NA | boolean example: true | True if the UIN is received as part of the delivery, false otherwise. |


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**Table 4-508 (Cont.) VendorDeliveryLineItemUinIdo— Object**

| | | | |
|---|---|---|---|
| damaged | NA | boolean example: false | True if the UIN is received as damaged as part of the delivery, false otherwise. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Delivery

This section describes the Update Delivery API. This API update the header portion of a delivery.

## Method

`POST`

## URL

`/dsds/{deliveryId}`

## Request Parameters

**Table 4-509 Update Delivery — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the transfer delivery. |

The request body is application/json.

Delivery header details to update.

## Example Value

```
"billOfLadingId": "55601",
"carrierName": "Speedy Delivery",
"carrierType": 1,
"carrierCode": "SPDE",
```


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```
  "sourceAddress": "200 Apple Street, Coolsville, WI, 55555",
  "licensePlate": "ABC-123",
  "freightId": "882211",
  "countryCode": "US",
  "currencyCode": "USD",
  "invoiceNumber": "10056",
  "invoiceDate": "2025-01-28T13:22:31.457Z",
  "invoiceAmount": 999.99,
  "expectedDate": "2025-01-28T13:22:31.457Z"
}
```


## Schema — VendorDeliveryUpdateIdo

**Table 4-510 VendorDeliveryUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| billOfLadingId | NA | string($text128) example: 55601 | An external identifier of a bill of lading record. |
| carrierName | NA | string($text128) example: Speedy Delivery | The name of the carrier. |
| carrierType | NA | integer($int4) example: 1 | The carrier type of the vendor delivery. Valid values are:<br>1 - Corporate<br>2 - Third Party<br>Enum: [ 1, 2 ] |
| carrierCode | NA | string($text4) example: SPDE | A unique code that identifies the carrier. |
| sourceAddress | NA | string($text1000) example: 200 Apple Street, Coolsville, WI, 55555 | The address of the source shipping location sending the delivery. |
| licensePlate | NA | string($text128) example: ABC-123 | The license plate of the delivery vehicle. |
| freightId | NA | string($text128) example: 882211 | A freight identifier associated to the delivery. |
| countryCode | NA | string($text3) example: US | A country code of the country of the bill of lading. |
| currencyCode | NA | string($text3) example: USD | The currency code of the invoice cost. |
| invoiceNumber | NA | string($text128) example: 10056 | The number or identifier of the invoice associated to the delivery. |
| invoiceDate | NA | string($date-time) | The date of the delivery invoice. |


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**Table 4-510 (Cont.) VendorDeliveryUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| invoiceAmount | NA | number($decimal(12,4)) example: 999.99 | The value of the invoice cost. |
| expectedDate | NA | string($date-time) | The expected delivery date of the delivery. |

## Responses

This section describes the responses of the Update Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Receive Delivery

This section describes the Receive Delivery API. This API updates the received quantities to the quantities that were expected so that it is ready to be confirmed. This will place the delivery into the "In Progress" state if that is not already its current state.

## Method

`POST`

## URL

`/dsds/{deliveryId}/receive`

## Request Parameters


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**Table 4-511 Receive Delivery — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the transfer delivery. |

## Responses

This section describes the responses of the Receive Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Confirm Delivery

This section describes the Confirm Delivery API. This API confirms the vendor delivery and receives the goods into inventory.

## Method

`POST`

## URL

`/dsds/{deliveryId}/confirm`

## Request Parameters

**Table 4-512 Confirm Delivery — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the vendor delivery. |

## Responses


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This section describes the responses of the Confirm Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Reject Delivery

This section describes the Reject Delivery API. This API cancels the vendor delivery without receiving goods and places it in rejected status.

### Method

`POST`

### URL

`/dsds/{deliveryId}/reject`

### Request Parameters

**Table 4-513 Reject Delivery — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the vendor delivery. |

### Responses

This section describes the responses of the Reject Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Delivery

This section describes the Cancel Delivery API. This API cancels the vendor delivery without receiving goods and places it in canceled status.

## Method

```
POST
```

## URL

```
/dsds/{deliveryId}/cancel
```

## Request Parameters

**Table 4-514 Cancel Delivery — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the vendor delivery. |

## Responses

This section describes the responses of the Cancel Delivery API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Create Carton

This section describes the Crate Carton API. This API adds a new container to a new or in progress shipment.


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## Method

POST

## URL

/dsds/cartons/{cartonId}

## Request Parameters

**Table 4-515 Create Carton — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | Yes | number($int12) (path) | The unique identifier of the delivery. |

The request body is application/json.

Details about the carton to create.

## Example Value

```
{
  "externalCartonId": "444200301",
  "referenceId": "200440012",
  "damageReason": "Dropped",
  "serialCode": 337654,
  "trackingNumber": "AZB12743D",
  "damageRemaining": false,
  "receiveAtShopFloor": false,
  "qualityControl": false,
  "lineItems": [
    {
      "itemId": "10045600",
      "caseSize": 10,
      "quantityReceived": 3,
      "quantityDamaged": 2,
      "unitCostOverrideAmount": 17.5,
      "purchaseOrderId": 500678,
      "uins": [
        {
          "uin": "14532B12",
          "received": true,
          "damaged": false
        }
      ]
    }
```


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```
    ]
}
```

## Schema — VendorDeliveryCartonCreateIdo

**Table 4-516 VendorDeliveryCartonCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: 444200301 | The external identifier of the carton. |
| referenceId | NA | string($text128) example: 200440012 | A reference identifier to the carton. |
| damageReason | NA | string($text128) example: Dropped | A reason for the carton damage that took place. |
| serialCode | NA | number($int18) example: 337654 | A serial code for the carton. |
| trackingNumber | NA | string($text128) example: AZB12743D | A tracking number for the carton. |
| damageRemaining | NA | boolean example: false | True indicates all remaining quantities should be marked damaged on final receipt. |
| receiveAtShopFloor | NA | boolean example: false | True if will receive inventory to the shop floor, false otherwise. |
| qualityControl | NA | boolean example: false | True indicates the carton requires detailed receiving. |
| lineItems | Yes | object | The items to create within the carton. |

**Table 4-517 VendorDeliveryCartonCreateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| caseSize | NA | number($decimal(10,2)) example: 10 | The case size of the item in this carton. |
| quantityReceived | NA | number($decimal(20,4)) example: 3 | The amount of the item received on the delivery. |
| quantityDamaged | NA | number($decimal(20,4)) example: 2 | The amount of the item received as damaged on the delivery. |
| unitCostOverrideAmount | NA | number($decimal(20,4)) example: 17.5 | The override unit cost value of this delivery. |


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**Table 4-517 (Cont.) VendorDeliveryCartonCreateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| purchaseOrderId | NA | integer($int12) example: 500678 | The unique identifier of the purchase order for this item delivery. |
| uins | NA | object | The UINs associated to this item. |

**Table 4-518 VendorDeliveryUinIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | NA | string($text128) example: 14532B12 | The Universal Identification Number. |
| received | NA | boolean example: true | True if the UIN is received as part of the delivery, false otherwise. |
| damaged | NA | boolean example: false | True if the UIN is received as damaged as part of the delivery, false otherwise. |

## Responses

This section describes the responses of the Create Carton API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "deliveryId": 11111,
    "cartonId": 100200300,
    "externalCartonId": "444200301",
    "status": 1
  }
]
```

### Schema — VendorDeliveryCartonStatusIdo


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**Table 4-519 VendorDeliveryCartonStatusIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| eliveryId | NA | number($int12) example: 11111 | The unique identifier of the delivery record. |
| cartonId | NA | integer($int12) example: 100200300 | The unique identifier of the carton record. |
| externalCartonId | NA | string($text128) example: 444200301 | The external identifier of the carton. |
| status | NA | integer($int4) example: 1 | The current status of the carton. Valid values are:<br>1 - New<br>2 - In Progress<br>3 - Submitted<br>4 - Received<br>5 - Damaged<br>6 - Missing<br>7 - Canceled<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Carton

This section describes the Update Carton API. This API updates a previously existing carton that is in a new or in progress state, on a delivery that is also new or in progress.

## Method

```
POST
```

## URL

```
/dsds/cartons/{cartonId}
```


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## Request Parameters

**Table 4-520 Update Carton — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the delivery carton. |

The request body is application/json.

Details about the carton to update.

## Example Value

```
{
  "externalCartonId": "444200301",
  "referenceId": "200440012",
  "damageReason": "Dropped",
  "serialCode": 337654,
  "trackingNumber": "AZB12743D",
  "damageRemaining": false,
  "receiveAtShopFloor": false,
  "qualityControl": false,
  "lineItems": [
    {
      "itemId": "10045600",
      "caseSize": 10,
      "quantityReceived": 3,
      "quantityDamaged": 2,
      "unitCostOverrideAmount": 17.5,
      "purchaseOrderId": 500678,
      "uins": [
        {
          "uin": "14532B12",
          "received": true,
          "damaged": false
        }
      ]
    }
  ]
}
```

## Schema — VendorDeliveryCartonUpdateIdo


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**Table 4-521 VendorDeliveryCartonUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: 444200301 | The external identifier of the carton. |
| referenceId | NA | string($text128) example: 200440012 | A reference identifier to the carton. |
| damageReason | NA | string($text128) example: Dropped | A reason for the carton damage that took place. |
| serialCode | NA | number($int18) example: 337654 | A serial code for the carton. |
| trackingNumber | NA | string($text128) example: AZB12743D | A tracking number for the carton. |
| damageRemaining | NA | boolean example: false | True indicates all remaining quantities should be marked damaged on final receipt. |
| receiveAtShopFloor | NA | boolean example: false | True if the item should receive inventory to the shop floor, false otherwise. |
| qualityControl | NA | boolean example: false | True indicates the carton requires detailed receiving. |
| lineItems | NA | object | The items to update within the carton. |

**Table 4-522 VendorDeliveryCartonUpdateItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| caseSize | NA | number($decimal(10,2)) example: 10 | A case size of the item within this carton. |
| quantityReceived | NA | number($decimal(20,4)) example: 3 | The amount received for this item. |
| quantityDamaged | NA | number($decimal(20,4)) example: 2 | The amounted received as damaged for this item. |
| unitCostOverrideAmount | NA | number($decimal(20,4)) example: 17.5 | The override unit cost value of this item. |
| purchaseOrderId | Na | integer($int12) example: 500678 | The unique identifer of the purchase order for this item. |
| uins | NA | object | The UINs associated to this item. |


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**Table 4-523 VendorDeliveryUinIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | NA | string($text128) example: 14532B12 | The Universal Identification Number. |
| received | NA | boolean example: true | True if the UIN is received as part of the delivery, false otherwise. |
| damaged | NA | boolean example: false | True if the UIN is received as damaged as part of the delivery, false otherwise. |

## Responses

This section describes the responses of the Update Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Submit Carton

This section describes the Submit Carton API. This API moves the status of the carton to submitted and prevents further updates. The carton may still be confirmed. No inventory positions are updated via this operation.

## Method

```
POST
```

## URL

```
/dsds/cartons/{cartonId}/submit
```

## Request Parameters


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**Table 4-524 Submit Carton — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the delivery carton. |

## Responses

This section describes the responses of the Submit Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Submitted Carton

This section describes the Cancel Submitted Carton API. This API opens a submitted carton for further updates, moving the status to in progress.

## Method

`POST`

## URL

`/dsds/cartons/{cartonId}/cancelsubmit`

## Request Parameters

**Table 4-525 Cancel Submitted Carton — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the delivery carton. |

## Responses


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This section describes the responses of the Cancel Submitted Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Confirm Carton

This section describes the Confirm Carton API. This API confirms the final receipt of a vendor delivery carton.

### Method

`POST`

### URL

`/dsds/cartons/{cartonId}/cancelsubmit`

### Request Parameters

**Table 4-526 Confirm Carton — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the delivery carton. |

### Responses

This section describes the responses of the Confirm Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Carton

This section describes the Cancel Carton API. This API cancels a vendor delivery carton.

## Method

POST

## URL

/dsds/cartons/{cartonId}/cancel

## Request Parameters

**Table 4-527 Cancel Carton — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the delivery carton. |

## Responses

This section describes the responses of the Cancel Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Open Carton

This section describes the Open Carton API. This API re--opens a completed carton after reciept allowing it to be received again.


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## Method

POST

## URL

/dsds/cartons/{cartonId}/open

## Request Parameters

**Table 4-528 Open Carton — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the delivery carton. |

## Responses

This section describes the responses of the Open Carton API.

### Response Code: 204

No content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Import ASN Delivery

This section describes the Import ASN Delivery API. This API imports an ASN vendor delivery that is managed by an external system. When importing, the contents must contain the entire delivery. This asynchronous call places a record in the MPS message table for later processing, controlled by the DcsAsn work type.

## Method

POST


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## URL

```
/dsds/imports
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the delivery to import.

## Example Value


```
{
  "asn": "789012",
  "storeId": 5000,
  "supplierId": 5101,
  "invoiceNumber": "10056",
  "invoiceDate": "2025-02-06T11:48:31.239Z",
  "invoiceAmount": 999.99,
  "currencyCode": "USD",
  "fiscalDocumentNumber": "USD",
  "expectedDate": "USD",
  "displayCartonInfo": true,
  "billOfLadingId": "55601",
  "carrierName": "Speedy Delivery",
  "carrierType": 1,
  "carrierCode": "SPDE",
  "sourceAddress": "200 Apple Street, Coolsville, WI, 55555",
  "licensePlate": "ABC-123",
  "freightId": "882211",
  "countryCode": "US",
  "cartons": [
    {
      "cartonNumber": "444200301",
      "trackingNumber": "AZB12743D",
      "qualityControl": false,
      "lineItems": [
        {
          "itemId": "10045600",
          "quantity": 3,
          "purchaseOrderNumber": "500678",
          "uins": [
            333000341341,
            444001343243
          ]
        }
      ]
    }
  ],
  "looseItems": [
```



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```
    {
      "itemId": "10045600",
      "quantity": 3,
      "purchaseOrderNumber": "500678",
      "uins": [
        333000341341,
        444001343243
      ]
    }
  ],
  "notes": [
    "This is note number one.",
    "This is note number two."
  ]
}
```


## Schema — VendorDeliveryImportIdo

**Table 4-529 VendorDeliveryImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| asn | Yes | string($text128) example: 789012 | The the asn. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the inventory. |
| supplierId | Yes | number($int10) example: 5101 | The identifier of the supplier shipping the inventory. |
| invoiceNumber | NA | string($text128) example: 10056 | The number or identifier of the invoice associated to the delivery. |
| invoiceDate | NA | string($date-time) | The date of the delivery invoice. |
| invoiceAmount | NA | number($decimal(12,4)) example: 999.99 | The value of the invoice cost. |
| currencyCode | NA | string($text3) example: USD | The currency code of the invoice cost. |
| fiscalDocumentNumber | NA | string($text3) example: USD | The fiscal document number. This is an imported external fiscal document number and is simply stored. The document may not exist in the system as a fiscal document. |
| expectedDate | NA | string($date-time) example: USD | The date the delivery is expected to arrive. |
| displayCartonInfo | NA | boolean example: true | If true, carton information will be displayed on the UI, otherwise only item information will be displayed. |


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**Table 4-529 (Cont.) VendorDeliveryImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| billOfLadingId | NA | string($text128) example: 55601 | An external identifier of a bill of lading record. |
| carrierName | NA | string($text128) example: Speedy Delivery | The name of the carrier. |
| carrierType | NA | integer($int4) example: 1 | The carrier type of the vendor delivery. Valid values are:<br>1 - Corporate<br>2 - Third Party<br>Enum: Array [ 2 |
| carrierCode | NA | string($text4) example: SPDE | A unique code that identifies the carrier. |
| sourceAddress | NA | string($text1000) example: 200 Apple Street, Coolsville, WI, 55555 | The address of the source shipping location sending the delivery |
| licensePlate | NA | string($text128) example: ABC-123 | The license plate of the delivery vehicle. |
| freightId | NA | string($text128) example: 882211 | A freight identifier associated to the delivery. |
| countryCode | NA | string($text3) example: US | A country code of the country of the bill of lading. |
| cartons* | Yes | object | A collection of cartons on the delivery. |
| looseItems | NA | object | A collection of loose items not on the delivery. These will be gathered and placed in a generated carton. |
| notes | NA | string($text2000)] example: List [ "This is note number one.", "This is note number two." ] | A collection of notes on the delivery. |

**Table 4-530 VendorDeliveryImportCartonIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonNumber | NA | string($text128) example: 444200301 | The external identifier of the carton. A carton will be added or updated based on whether or not it already exists on the delivery. |


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**Table 4-530 (Cont.) VendorDeliveryImportCartonIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| trackingNumber | NA | string($text128) example: AZB12743D | A tracking number for the carton. |
| qualityControl | NA | boolean example: false | True indicates the carton requires detailed receiving. |
| lineItems | Yes | object | A collection of items in the container. If all items within the container are set to a zero quantity, the carton will be cancelled. |

**Table 4-531 VendorDeliveryImportItemdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| quantity | Yes | number($decimal(20,4)) example: 3 | The total amount of the item expected on the delivery. |
| purchaseOrderNumber | Yes | string($text128) example: 500678 | The external system purchase order number. |
| uins | NA | string($text128)] example: List [ 333000341341, 444001343243 ] | A list of UINs that shipped as part of the delivery. |

## Responses

This section describes the responses of the Import ASN Delivery API.

### Response Code: 202

Accepted

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Import ASN Cancel Delivery


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This section describes the Import ASN Cancel Delivery API. This API imports a cancellation of the vendor delivery. The vendor delivery must be in new status in order to be canceled. It cannot be cancelled if receiving has begun against it as well. This asynchronous call places a record in the MPS message table for later processing, controlled by the DcsAsn work type.

## Method

```
POST
```

## URL

```
/dsds/imports/cancel
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the delivery to import.

### Example Value

```
{
  "asn": "5101",
  "storeId": 5000
}
```

### Schema — VendorDeliveryImportCancelIdo

**Table 4-532 VendorDeliveryImportCanelIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| asn | NA | string($text128) example: 5101 | The advanced shipping notification of the delivery. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the inventory. |

## Responses

This section describes the responses of the Import ASN Delivery API.

### Response Code: 202

Accepted


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### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Import ASN Adjustments

This section describes the Import ASN Adjustments API. This API is used to import external adjustments made to a vendor delivery. It does not adjust the delivery itself but does track adjustments made after the delivery is closed. It updates the inventory stock positions and the received amount of the purchase order. This asynchronous call places a record in the MPS message table for later processing, controlled by the DcsAsn work type.

### Method

```
POST
```

### URL

```
/dsds/adjustments
```

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the delivery to import.

### Example Value

```
{
  "asn": "93471341",
  "storeId": 5000,
  "items": [
    {
      "itemId": "100637121",
      "cartonNumber": "9834834",
      "purchaseOrderNumber": "34AA04134",
      "quantity": 55.23
    }
  ]
}
```


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### Schema — VendorDeliveryAdjustmentImportIdo

**Table 4-533 VendorDeliveryAdjustmentImportIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| asn | Yes | string($text128) example: 93471341 | The advanced shipping notification of the delivery. |
| storeId | Yes | number($int10) example: 5000 | The unique identifier of the store receiving the inventory. |
| items | Yes | object | itmes |

**Table 4-534 VendorDeliveryAdjustmentImportItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 100637121 | The item that is being adjusted. |
| cartonNumber | Yes | string($text128) example: 9834834 | The carton number of the carton containing the item. |
| purchaseOrderNumber | Yes | string($text128) example: 34AA04134 | The purchase order number associated to the adjustment. |
| quantity | Yes | number($decimal(20,4)) example: 55.23 | The new amount of the item received to be adjusted to. |

## Responses

This section describes the responses of the Import ASN Adjustments API.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Find ASN Adjustments

This section describes the Find ASN Adjustments API. This API retrieves the adjustments made for a delivery after the delivery was received.


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## Method

```
GET
```

## URL

```
/dsds/adjustments
```

## Request Parameters

**Table 4-535 Find ASN Adjustments — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| deliveryId | NA | number($int10) (query) | Include only records for this delivery. |
| asn | NA | string($text128) (query) | Include only records for this advanced shipping notification. |

## Responses

This section describes the responses of the Find ASN Adjustments API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "adjustmentId": 55601,
    "deliveryId": 513434,
    "storeId": 5000,
    "purchaseOrderNumber": "34AA04134",
    "itemId": "100637121",
    "adjustmentDate": "2025-02-06T13:25:54.461Z",
    "quantity": 55.23
  }
]
```


### Schema — VendorDeliveryAdjustmentIdo


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**Table 4-536 VendorDeliveryAdjustmentIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| adjustmentId | NA | number($int15) example: 55601 | The identifier of the delivery adjustment record. |
| deliveryId | NA | number($int12) example: 513434 | The identifier of the delivery. |
| storeId | NA | number($int10) example: 5000 | The unique identifier of the store receiving the inventory. |
| purchaseOrderNumber | NA | string($text128) example: 34AA04134 | The purchase order number associated to the adjustment. |
| itemId | NA | string($text25) example: 100637121 | The item that was adjusted. |
| adjustmentDate | NA | string($date-time) | The date of the adjustment. |
| quantity | NA | number($decimal(20,4)) example: 55.23 | The new amount of the item to be adjusted to. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Vendor Return

A return request is a return to vendor that comes into the store from an external system. A return request is a made for items to be returned to the supplier from the store. The items and quantities requested to be returned and reasons (for RTV) will be listed. Updating the return allows the approved quantity to be assigned. Once the request has been approved, the items are shipped to the supplier. This service allows for the integration of return requests with an external system.

## Service Base URL


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The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

# Find Return

This section describes the Find Return API. This API Finds up to 10,000 return headers for the input criteria.

## Method

```
GET
```

## URL

```
/vendorreturns
```

## Request Parameters

**Table 4-537 Find Return — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeId | NA | number($int10) (query) | Include only returns from this store. |
| supplierId | NA | number($int10) (query) | Include only returns to this supplier. |
| externalReturnId | NA | string($text128) (query) | Include only returns for this vendor return external identifier. |
| status | NA | integer($int4) (query) | Include only returns with this status. Valid values are:<br>1 - Requested<br>2 - Request In Progress<br>3 - RTV In Progress<br>4 - Approved<br>5 - In Shipping<br>6 - Completed<br>7 - Rejected<br>8 - Canceled Request<br>9 - Canceled RTV<br>99 - Active<br>Available values : 1, 2, 3, 4, 5, 6, 7, 8, 9, 99 |
| itemId | NA | string($text25) (query) | Include only returns that contain this item. |
| shipmentReasonId | NA | number($int15) (query) | Include only returns that contain this shipment reason. |


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**Table 4-537 (Cont.) Find Return — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| updateDateFrom | NA | string($date-time) (query) | Include only returns with an update date on or after this date. |
| updateDateTo | NA | string($date-time) (query) | Include only returns with an update date on or before this date. |

## Responses

This section describes the responses of the Find Return API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "returnId": 11111,
    "storeId": 5000,
    "supplierId": 5101,
    "externalReturnId": "90000",
    "status": 1,
    "notAfterDate": "2025-01-17T16:44:28.715Z",
    "approvedDate": "2025-01-17T16:44:28.715Z",
    "closedDate": "2025-01-17T16:44:28.715Z",
    "createDate": "2025-01-17T16:44:28.715Z",
    "updateDate": "2025-01-17T16:44:28.715Z"
  }
]
```

### Schema — VendorReturnHeaderIdo

**Table 4-538 VendorReturnHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| returnId | NA | number($int12) example: 11111 | The unique identifier of the vendor return. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store returning the inventory. |


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**Table 4-538 (Cont.) VendorReturnHeaderIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| supplierId | NA | number($int10) example: 5101 | The identifier of the supplier the goods are being shipped to. |
| externalReturnId | NA | string($text128) example: 90000 | A unique identifier of the vendor return from an external system. |
| status | NA | integer($int4) example: 1 | 1 - Requested<br>2 - Request In Progress<br>3 - RTV In Progress<br>4 - Approved<br>5 - In Shipping<br>6 - Completed<br>7 - Rejected<br>8 - Canceled Request<br>9 - Canceled RTV<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9 ] |
| notAfterDate | NA | string($date-time) | A date after which the return should not be shipped. |
| approvedDate | NA | string($date-time) | The date the return was approved. |
| closedDate | NA | string($date-time) | The date the return was closed. |
| createDate | NA | string($date-time) | The date the return was created in SIOCS. |
| updateDate | NA | string($date-time) | The date the return was last updated in SIOCS. |

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Create Return

This section describes the Create Return API. This service creates a new vendor return document.

## Method

POST


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## URL

```
/vendorreturns
```

## Request Parameters

The are no request parameters.

The request body is application/json.

### Example Value

```
{
  "storeId": 5000,
  "supplierId": 5101,
  "notAfterDate": "2025-01-20T14:04:51.208Z",
  "authorizationCode": "JID112",
  "addressLine1": "460 Summer Street",
  "addressLine2": "Apartment 2",
  "addressLine3": "c/o John Smith",
  "aAddressCity": "Coolsville",
  "addressState": "NY",
  "addressCountry": "US",
  "addressPostalCode": "55555-1111",
  "lineItems": [
    {
      "itemId": "10045600",
      "reasonId": "82236",
      "quantity": 100,
      "caseSize": 1
    }
  ]
}
```

### Schema — VendorReturnCreateIdo

**Table 4-539 VendorReturnCreateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int 10) example: 5000 | The identifier of the store returning the inventory. This value is ignored if the return already exists. |
| supplierId | Yes | number($int 10) example: 5101 | The identifier of the supplier the goods are being shipped to. This value is ignored if the return already exists. |
| notAfterDate | NA | string($date-time) | A date after which the return should not be shipped. If not included, this value will be defaulted through system configuration. |


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**Table 4-539 (Cont.) VendorReturnCreateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| authorizationCode | NA | string($text12) example: JID112 | An authorization number that may be required for the return. |
| addressLine1 | NA | string($text240) example: 460 Summer Street | The first line of the destination address. |
| addressLine2 | NA | string($text240) example: Apartment 2 | The second line of the destination address. |
| addressLine3 | NA | string($text240) example: c/o John Smith | The third line of the destination address. |
| aAddressCity | NA | string($text120) example: Coolsville | The city of the destination address. |
| addressState | Na | string($text3) example: NY | The state of the destination address. |
| addressCountry | NA | string($text3) example: US | The country code of the destination address. |
| addressPostalCode | NA | string($text30) example: 55555-1111 | The postal code of the destination address. |
| lineItems* | Yes | object | The items to be returned. |

**Table 4-540 VendorReturnCreateLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| reasonId | NA | string($text6) example: 82236 | The unique identifier of a return reason code for this item return. |
| quantity | Yes | number($decimal(20,4)) example: 100 | The quantity to return. |
| caseSize | | number($decimal(20,4)) example: 1 | The case size of this item return. |

## Responses

This section describes the responses of the Create Return API.


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## Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "returnId": 11111,
    "storeId": 5000,
    "supplierId": 5101,
    "status": 1
  }
]
```

### Schema — VendorReturnStatusIdo

**Table 4-541 VendorReturnStatusIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| returnId | NA | number($int 12) example: 11111 | The unique identifier of the vendor return. |
| storeId | NA | number($int 10) example: 5000 | The identifier of the store returning the inventory. |
| supplierId | Na | number($int 10) example: 5101 | The identifier of the supplier the goods are being shipped to. |
| status | NA | integer($int4 ) example: 1 | 1 - Requested<br>2 - Request In Progress<br>3 - RTV In Progress<br>4 - Approved<br>5 - In Shipping<br>6 - Completed<br>7 - Rejected<br>8 - Canceled Request<br>9 - Canceled RTV<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9 ] |

## Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# Read Return

This section describes the Read Return API. This service retrieves all the details about a vendor return.

## Method

```
GET
```

## URL

```
/vendorreturns/{returnId}
```

## Request Parameters

**Table 4-542 Read Return — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| returnId | Yes | number($int12) (path) | The unique identifier of the vendor return. |

## Responses

This section describes the responses of the Read Return API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value


```
[
  {
    "returnId": 11111,
    "storeId": 5000,
    "supplierId": 5101,
    "externalReturnId": "90000",
    "externalLocked": true,
    "originType": 1,
    "status": 1,
    "notAfterDate": "2025-01-17T16:59:15.721Z",
    "authorizationCode": "JID112",
```



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```
    "addressLine1": "460 Summer Street",
    "addressLine2": "Apartment 2",
    "addressLine3": "c/o John Smith",
    "aAddressCity": "Coolsville",
    "addressState": "NY",
    "addressCountry": "US",
    "addressPostalCode": "55555-1111",
    "approvedUser": "smith123",
    "approvedDate": "2025-01-17T16:59:15.721Z",
    "closedUser": "smith123",
    "closedDate": "2025-01-17T16:59:15.721Z",
    "createUser": "smith123",
    "createDate": "2025-01-17T16:59:15.721Z",
    "updateUser": "smith123",
    "updateDate": "2025-01-17T16:59:15.721Z",
    "lineItems": [
      {
        "lineId": 2222222,
        "externalLineId": 456,
        "itemId": "10045600",
        "shipmentReasonId": 82236,
        "caseSize": 3,
        "quantityRequested": 100,
        "quantityApproved": 100,
        "quantityShipping": 100,
        "quantityShipped": 100
      }
    ]
  }
]
```


## Schema — VendorReturnIdo

**Table 4-543 VendorReturnIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| returnId | NA | number($int 12) example: 11111 | The unique identifier of the vendor return. |
| storeId | NA | number($int 10) example: 5000 | The identifier of the store returning the inventory. |
| supplierId | NA | number($int 10) example: 5101 | The identifier of the supplier the goods are being shipped to. |
| externalReturnId | NA | string($text128) example: 90000 | A unique identifer of the vendor return from an external system. |
| externalLocked | NA | boolean example: true | True if the system no longer accepts changes to the vendor return from an external source. |


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**Table 4-543 (Cont.) VendorReturnIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| originType | NA | integer($int4) example: 1 | The origin type of the return. Valid values are:<br>1 - External<br>2 - Internal <br/ 3 - Shipment<br>Enum: [ 1, 2, 3 ] |
| status | NA | integer($int4) example: 1 | 1 - Requested<br>2 - Request In Progress<br>3 - RTV In Progress<br>4 - Approved<br>5 - In Shipping<br>6 - Completed<br>7 - Rejected<br>8 - Canceled Request<br>9 - Canceled RTV<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9 ] |
| notAfterDate | NA | string($date-time) | A date after which the return should not be shipped. |
| authorizationCode | NA | string($text12) example: JID112 | An authorization number that may be required for the return. |
| addressLine1 | NA | string($text240) example: 460 Summer Street | The first line of the destination address. |
| addressLine2 | NA | string($text240) example: Apartment 2 | The second line of the destination address. |
| addressLine3 | NA | string($text240) example: c/o John Smith | The third line of the destination address. |
| aAddressCity | NA | string($text120) example: Coolsville | The city of the destination address. |
| addressState | NA | string($text3) example: NY | The state of the destination address. |
| addressCountry | NA | string($text3) example: US | The country code of the destination address. |
| addressPostalCode | NA | string($text30) example: 55555-1111 | The postal code of the destination address. |
| approvedUser | NA | string($text128) example: smith123 | The user that approved the return. |
| approvedDate | NA | string($date-time) | The date the return was approved. |


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**Table 4-543 (Cont.) VendorReturnIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| closedUser | NA | string($text128) example: smith123 | The user that closed the return. |
| closedDate | NA | string($date-time) | The date the return was closed. |
| createUser | NA | string($text128) example: smith123 | The user that created the return. |
| createDate | NA | string($date-time) | The date the return was created. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the return. |
| updateDate | NA | string($date-time) | The date the return was last updated. |
| lineItems | NA | object | A collection of items to be returned. |

**Table 4-544 VendorReturnLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | integer($int15) example: 2222222 | The unique identifier of the line record. |
| externalLineId | NA | integer($int15) example: 456 | An external identifier to this particular line item on the return. |
| itemId | NA | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| shipmentReasonId | NA | integer($int15) example: 82236 | The unique identifier of the shipment reason. |
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |
| quantityRequested | NA | number($decimal(20,4)) example: 100 | The quantity requested to return. |
| quantityApproved | NA | number($decimal(20,4)) example: 100 | The quantity approved to return. |
| quantityShipping | NA | number($decimal(20,4)) example: 100 | The quantity prepared to ship on the return. |


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**Table 4-544 (Cont.) VendorReturnLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| quantityShipped | NA | number($decimal(20,4)) example: 100 | The quantity that has shipped on the return. |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Return

This section describes the Update Return API. This service updates vendor return approved quantities prior to approving the vendor return.

### Method

```
POST
```

### URL

```
/vendorreturns/{returnId}
```

### Request Parameters

**Table 4-545 Update Return — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| returnId | Yes | number($int12) (path) | The unique identifier of the vendor return. |

The request body is application/json.

Vendor return details to update.

### Example Value

```
{
  "authorizationCode": "JID112",
  "lineItems": [
```


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```
    {
      "itemId": "10045600",
      "shipmentReasonId": 82236,
      "quantity": 100
    }
  ]
}
```

## Schema — VendorReturnUpdateIdo

**Table 4-546 VendorReturnUpdateIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| authorizationCode | NA | string($text12) example: JID112 | An authorization number that may be required for the return. |
| lineItems | NA | object | A list of up to 1,000 items with approved quantities to be included on the return. The collection can remain empty if only updating the authorization code. |

**Table 4-547 VendorReturnUpdateLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| shipmentReasonId | Yes | integer($int15) example: 82236 | The unique identier of the shipment reason. If the shipment reason is unavailable, the quantity must not exceed the item's unavailable stock. Unavailable sub-buckets are not considered in vendor return and are only used when creating the vendor shipment. |
| quantity | Yes | number($decimal(20,4)) example: 100 | The quantity approved to return. |

# Responses

This section describes the responses of the Update Return API.

## Response Code: 204

No content.

## Response Code: 400

Bad request

The media type is application/json.


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See the JSON Error Element and Error Codes section.

# Approve Return

This section describes the Approve Return API. This service approves a vendor return for shipment. Use the Update Return operation to assign and persist desired quantities before approval.

## Method

`POST`

## URL

`/vendorreturns/{returnId}/approve`

## Request Parameters

**Table 4-548 Approve Return — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| returnId | Yes | number($int12) (path) | The unique identifier of the vendor return. |

## Responses

This section describes the responses of the Approve Return API.

### Response Code: 204

No content.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Close Return

This section describes the Close Return API. This service closes out the vendor return.


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## Method

POST

## URL

/vendorreturns/{returnId}/close

## Request Parameters

**Table 4-549 Close Return — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| returnId | Yes | number($int12) (path) | The unique identifier of the vendor return. |

## Responses

This section describes the responses of the Close Return API.

### Response Code: 204

No content.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Import Return

This section describes the Import Return API. This service imports a vendor return request managed by an external system. Processing assumes that any notification to other systems about the creation of this information will be managed by the external system. The imported return is processed asynchronous through our MPS sub-system and is controlled by the DcsRtv work type. If more than 1,000 items are included in the return, a "input too large" error will be returned. This operation will return a forbidden error code if the system is integrated with Oracle merchandising.


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## Method

```
POST
```

## URL

```
/vendorreturns/imports
```

## Request Parameters

There are no request parameters.

Vendor return details to import.

### Example Value

```
{
  "externalReturnId": "90000",
  "storeId": 5000,
  "supplierId": 5101,
  "notAfterDate": "2025-01-20T15:17:16.265Z",
  "authorizationCode": "JID112",
  "addressLine1": "460 Summer Street",
  "addressLine2": "Apartment 2",
  "addressLine3": "c/o John Smith",
  "aAddressCity": "Coolsville",
  "addressState": "NY",
  "addressCountry": "US",
  "addressPostalCode": "55555-1111",
  "comment": "Originally overshipped goods.",
  "createDate": "2025-01-20T15:17:16.265Z",
  "lineItems": [
    {
      "itemId": "10045600",
      "reasonCode": "82236",
      "quantity": 100,
      "sequence": 1
    }
  ]
}
```

### Schema — VendorReturnImportIdo


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**Table 4-550 VendorReturnImportIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalReturnId | Yes | string($text128) example: 90000 | A unique identifer of the vendor return from an external system. This identifier is used to determine if the import will be created or updated. |
| storeId | Yes | number($int10) example: 5000 | The identifier of the store returning the inventory. This value is ignored if the return already exists. |
| supplierId | Yes | number($int10) example: 5101 | The identifier of the supplier the goods are being shipped to. This value is ignored if the return already exists. |
| notAfterDate | NA | string($date-time) | A date after which the return should not be shipped. If not included, this value will be defaulted through system configuration. |
| authorizationCode | NA | string($text12) example: JID112 | An authorization number that may be required for the return. |
| addressLine1 | NA | string($text240) example: 460 Summer Street | The first line of the destination address. |
| addressLine2 | NA | string($text240) example: Apartment 2 | The second line of the destination address. |
| addressLine3 | NA | string($text240) example: c/o John Smith | The third line of the destination address. |
| aAddressCity | NA | string($text120) example: Coolsville | The city of the destination address. |
| addressState | NA | string($text3) example: NY | The state of the destination address. |
| addressCountry | NA | string($text3) example: US | The country code of the destination address. |
| addressPostalCode | NA | string($text30) example: 55555-1111 | The postal code of the destination address. |
| comment | NA | string($text2000) example: Originally overshipped goods. | A comment to associate to the vendor return request. |
| createDate | Yes | string($date-time) | The date the return was created. |
| lineItems | Yes | object | The items to be returned. |


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**Table 4-551 VendorReturnImportLineItemIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| reasonCode | Yes | string($text6) example: 82236 | A reason code associate to the item return. |
| quantity | Yes | number($decimal(20,4)) example: 100 | The quantity requested to return. |
| sequence | NA | number($int15) example: 1 | An external sequence number for the item on the return. |

## Responses

This section describes the responses of the Import Return API.

### Response Code: 204

No content.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Import Return Delete

This section describes the Import Return Delete API. This service will place a delete notification in the system (in the MPS work queue with DcsRtv work type) for asynchronous processing. When processed, it will cancel the vendor return if it qualifies for cancellation (it is not already in progress). This operation will return a forbidden error code if the system is integrated with Oracle merchandising.

## Method

```
DELETE
```

## URL

```
/vendorreturns/imports/{externalReturnId}
```


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## Request Parameters

**Table 4-552 Import Return Delete — Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| externalReturnId | Yes | string($text128) (path) | The unique identifier of the vendor return from the external system. |

## Responses

This section describes the responses of the Import Return Delete API.

### Response Code: 202

Accepted.

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Vendor Shipment

Vendor shipment is the process of shipping inventory out of the store back to a supplier for redistribution or disposal. If the store plans to return items to the vendor, it can be done by creating a vendor shipment (RTV shipment). The items, quantities to be returned, and reasons for the return, can be added to the shipment. When the shipment is dispatched, the goods are removed from inventory.

To create a shipment, a supplier must be identified for this return. The supplier must allow for returns and must be a DSD supplier, and if the system is configured to use multiple sets of books, then the supplier is limited to the same operating unit as that of the store.

Items along with reasons can be added to the return. For Return to Vendors, the system allows a mix of available and unavailable inventory status items on the return; therefore, all reasons for the Return to Vendor type will be listed. All items on the return must be sourced by the supplier designated on the RTV. Authorization Number, which is required for certain suppliers, would need to be entered before dispatching.

The service defines operations to manage vendor shipment information by integration with an external system.

## Service Base URL


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The Cloud service base URL follows the format:

```
https://<external_load_balancer>/<cust_env>/siocs-int-services/api
```

# Find Shipments

This section describes the Find Shipments API. This API finds up to 10,000 shipments headers for the input criteria.

## Method

```
GET
```

## URL

```
/rtvshipments
```

## Request

This section describes the request parameters.

**Table 4-553 Find Shipments— Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| storeId | NA | number ($int10) (query) | Include only records where the shipment is from this store. |
| supplierId | NA | number ($int10) (query) | Include only shipments where the shipment is to this supplier. |
| vendorReturnId | NA | number ($int15) (query) | Include only shipments for this vendor return (by internal identifier). |
| vendorReturnExternalId | NA | string ($text128) (query) | Include only shipments for this vendor return (by external identifier). |
| status | NA | integer ($int4) (query) | Include only shipments with this delivery status. Valid values are<br>1 – New<br>2 - In Progress<br>3 – Submitted<br>4 – Shipped<br>5 – Canceled<br>99 – Active<br>*Available values:* 1, 2, 3, 4, 5, 99 |
| itemId | NA | string ($text128) (query) | Include only shipments that contain this item. |
| updateDateFrom | NA | string ($date-time) (query) | Include only shipments with an update date on or after this date. |


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**Table 4-553 (Cont.) Find Shipments— Request Parameters**

| Parameter | Required | Data Type | Description |
|---|---|---|---|
| updateDateTo | NA | string ($date-time) (query) | Include only shipments with an update date on or before this date. |

## Responses

This section describes the responses of the Find Shipments API.

### Response Code: 200

The request has been successful.

The media type is application/json.

### Example Value

```
[
  {
    "shipmentId": 11111,
    "storeId": 5000,
    "supplierId": 5101,
    "vendorReturnId": 789012,
    "vendorReturnExternalId": "90000",
    "status": 1,
    "notAfterDate": "2024-08-30T07:40:22.421Z",
    "submitDate": "2024-08-30T07:40:22.421Z",
    "dispatchDate": "2024-08-30T07:40:22.422Z",
    "updateDate": "2024-08-30T07:40:22.422Z"
  }
]
```

### Schema — VendorShipmentHeaderIdo

This section describes the VendorShipmentHeaderIdo schema.

**Table 4-554 VendorShipmentHeaderIdo — Object**

| Element Name | Required | Data Type | Description |
|---|---|---|---|
| shipmentId | NA | number($int12) example: 11111 | The unique identifier of the vendor shipment. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store shipping the inventory. |
| supplierId | NA | number($int10) example: 5101 | The identifier of the supplier the goods are being shipped to. |
| vendorReturnId | NA | number($int15) example: 789012 | The unique identifier of the vendor return this shipment is for. |


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**Table 4-554 (Cont.) VendorShipmentHeaderIdo — Object**

| Element Name | Required | Data Type | Description |
|---|---|---|---|
| vendorReturnExternalId | NA | string($text128) example: 90000 | A unique identifier of the vendor return from an external system. |
| status | NA | integer($int4) example: 1 | The current status of the vendor shipment. Valid values are:<br>1 – New<br>2 - In Progress<br>3 – Submitted<br>4 – Shipped<br>5 – Canceled<br>Enum: [ 1, 2, 3, 4, 5 ] |
| notAfterDate | NA | string($date-time) | A date after which the shipment should not be shipped. |
| submitDate | NA | string($date-time) | The date the shipment was submitted. |
| dispatchDate | NA | string($date-time) | The date the shipment was dispatched. |
| updateDate | NA | string($date-time) | The date the delivery was last updated. |

### Response Code: 400

Bad Request

The media type is application/json.

## Create Shipment

This section describes the Create Shipment API. It creates a new vendor shipment whose status is in progress. When creating the vendor shipment, it only allows up to 1,000 items in the overall shipment.

### Method

`POST`

### URL

`/rtvshipments`

### Request

There are no request parameters.

The request body is application/json.

The shipment details of the new shipment.


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## Example Value


```
{
  "storeId": 5000,
  "supplierId": 5101,
  "supplierCountryCode": "USA",
  "vendorReturnId": 789012,
  "authorizationCode": "H112",
  "notAfterDate": "2024-08-30T07:55:27.191Z",
  "contextId": 90000,
  "contextValue": "Spring Return",
  "addressType": 1,
  "carrierRole": 1,
  "carrierId": 123,
  "carrierServiceId": 456,
  "alternateAddress": "Another Street, Different City, NY, 44444",
  "alternateCarrierName": "Speedy Delivery",
  "alternateCarrierAddress": "Carrier Street, Carrier City, NY, 44444",
  "motiveId": 123,
  "taxId": "11-33500",
  "trackingNumber": "44000567002",
  "dimensionId": 100,
  "weight": 12.8,
  "weightUom": "KG",
  "requestedPickupDate": "2024-08-30T07:55:27.191Z",
  "cartons": [
    {
      "externalCartonId": "4500300",
      "trackingNumber": "876300456",
      "restrictionLevel": 1,
      "cartonSizeId": 1000,
      "weight": 4.5,
      "weightUom": "LBS",
      "lineItems": [
        {
          "itemId": "10045600",
          "reasonId": 2222222,
          "caseSize": 3,
          "quantity": 100,
          "uins": [
            111345000,
            222220000
          ]
        }
      ]
    }
  ],
  "notes": [
    "The first note",
    "The second note"
  ]
}
```



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## Schema — VendorShipmentCreateIdo

This section describes the VendorShipmentCreateIdo schema.

**Table 4-555 VendorShipmentCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | Yes | number($int10) example: 5000 | The identifier of the store shipping the inventory. |
| supplierId | Yes | number($int10) example: 5101 | The identifier of the supplier the goods are being shipped to. |
| supplierCountryCode | NA | string($text3) example: USA | The country code of the supplier for this shipment. All items must be available with this country code. If left blank, a country code will be selected from the available supplier items giving preference to a country code that matches the store. |
| vendorReturnId | NA | number($int15) example: 789012 | The unique identifier of the vendor return this shipment is for. |
| authorizationCode | NA | string($text12) example: H112 | A vendor authorization code |
| notAfterDate | NA | string($date-time) | A date after which the shipment should not be shipped. |
| contextId | NA | number($int18) example: 90000 | A unique identifier of a context for the shipment (see shipping service). |
| contextValue | NA | string($text25) example: Spring Return | An additional value associated to the context for the shipment. |
| addressType | NA | integer($int4) example: 1 | The hierarchy restriction level for items in the container. Valid values are:<br>1 - Department<br>2 - Class<br>3 - Subclass<br>4 - None<br>Enum: [ 1, 2, 3, 4 |
| carrierRole | Yes | integer($int2) example: 1 | The type of carrier for the shipment. Valid values are:<br>1 - Sender<br>2 - Receiver<br>3 - Third Party<br>Enum: [ 1, 2, 3 ] |
| carrierId | NA | integer($int10) example: 123 | A unique identifier of a carrier for the shipment. |
| carrierServiceId | NA | integer($int10) example: 456 | A unique identifier of a carrier service for the shipment. |
| alternateAddress | NA | string($text2000) example: Another Street, Different City, NY, 44444 | An alternate destination address. |


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**Table 4-555 (Cont.) VendorShipmentCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| alternateCarrierName | NA | string($text240) example: Speedy Delivery | The name of a third-party shipping company. |
| alternateCarrierAddress | NA | string($text240) example: Carrier Street, Carrier City, NY, 44444 | The address of a third-party shipping company. |
| motiveId | NA | number($int18) example: 123 | The identifier ofa motive for the bill of lading. |
| taxId | NA | string($text18) example: 11-33500 | The tax identifier of the supplier it is being shipped to. |
| trackingNumber | NA | string($text128) example: 44000567002 | A tracking number associated to the shipment. |
| dimensionId | NA | integer($int12) example: 100 | The identifier of a dimension object associated to the shipment. |
| weight | NA | number($decimal(12,4)) example: 12.8 | The weight of the shipment. |
| weightUom | NA | string($text4) example: KG | The unit of measure of the weight of the shipment. |
| requestedPickupDate | NA | string($date-time) | The requested pickup date. |
| cartons | Yes | object | cartons |
| notes | NA | string ($text2000) example: List [ "The first note", "The second note" ] | A collection of up to 100 notes to be created. |

**Table 4-556 VendorShipmentCreateCartonIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: 4500300 | A container identifier from an external system. |
| trackingNumber | NA | string($text128) example: 876300456 | The tracking number of the container. |
| restrictionLevel | NA | integer($int4) | example: 1 The hierarchy restriction level for items in the container. Valid values are:<br>1 - Department<br>2 - Class<br>3 - Subclass<br>4 - None<br>Enum: [ 1, 2, 3, 4 ] |


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**Table 4-556 (Cont.) VendorShipmentCreateCartonIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| cartonSizeId | NA | integer($int10) example: 1000 | The unique identifier of the container dimension object. |
| weight | NA | number($decimal(12,4)) example: 4.5 | The weight of the container. |
| weightUom | NA | string($text4) example: LBS | The unit of measure of the weight of the container. |
| lineItems | Yes | object | line items |

**Table 4-557 VendorShipmentCreateLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| reasonId | Yes | integer($int15) example: 2222222 | The unique identier of the shipment reason. |
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |
| quantity | Yes | number($decimal(20,4)) example: 100 | The quantity that was shipped. |
| uins | NA | string($text128)] example: List [ 111345000, 222220000 ] | The UINs that were shipped. They total number must match the quantity shipped. |

# Responses

This section describes the responses of the Create Shipment API.

## Response Code: 200

Successful response.

The media type is application/json.

### Example Value

```
[
  {
    "shipmentId": <shipmentId>,
    "returnId": <returnId>,
    "status": 1
  }
]
```


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### Schema — VendorShipmentStatusIdo

This section describes the VendorShipmentStatusIdo schema.

**Table 4-558 VenderoShipmentStatusIdo**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| shipmentId | NA | number($int15) example: 11111 | The unique identifier of the vendor shipment. |
| returnId | NA | number($int15) example: 5000 | The identifier of the associated vendor return. |
| status | NA | integer($int4) example: 1 | The current status of the vendor shipment. Valid values:<br>1 - New<br>2 - In Progress<br>3 - Submitted<br>4 - Shipped<br>5 - Canceled<br>Enum: [ 1, 2, 3, 4, 5 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Read Shipment

This section describes the Read Shipment API. This API retrieves all the details about an vendor shipment.

### Method

```
GET
```

### URL

```
/rtvshipments/{shipmentId}
```

### Request

This section describes the request parameters.


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**Table 4-559 Read Shipment — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| shipmentId | Yes | number($int12) (path) | The unique identifier of the vendor shipment. |

## Responses

This section describes the responses of the Read Shipment API.

### Response Code: 200

Successful response

This media type is application/json.

### Example Value


```
[
  {
    "shipmentId": <shipmentId>,
    "storeId": 5000,
    "supplierId": 5101,
    "vendorReturnId": 789012,
    "vendorReturnExternalId": "90000",
    "status": 1,
    "notAfterDate": "2024-08-28T09:29:33.327Z",
    "authorizationCode": "H112",
    "contextId": 90000,
    "contextValue": "Spring Return",
    "destinationAddress1": "460 Summer Street",
    "destinationAddress2": "Apartment 2",
    "destinationAddress3": "c/o John Smith",
    "destinationAddressCity": "Coolsville",
    "destinationAddressState": "NY",
    "destinationAddressCountry": "US",
    "destinationAddressPostalCode": "55555-1111",
    "billOfLadingId": 55601,
    "alternateAddress": "Another Street, Different City, NY, 44444",
    "carrierRole": 1,
    "carrierId": 123,
    "carrierServiceId": 456,
    "alternateCarrierName": "Speedy Delivery",
    "alternateCarrierAddress": "Carrier Street, Carrier City, NY, 44444",
    "motive": "Overstock",
    "taxId": "11-33500",
    "trackingNumber": "44000567002",
    "dimensionId": 100,
    "weight": 12.8,
    "weightUom": "KG",
    "requestedPickupDate": "2024-08-28T09:29:33.327Z",
    "fiscalDocumentRequestId": 22233344455566,
```



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```
    "fiscalDocumentReferenceId": 77788899100,
    "fiscalDocumentNumber": "128745",
    "fiscalDocumentStatus": 1,
    "fiscalDocumentRejectReason": "Missing Requirements",
    "fiscalDocumentUrl": "http://fiscaldoc/doc123",
    "createUser": "smith123",
    "createDate": "2024-08-28T09:29:33.327Z",
    "submitUser": "smith123",
    "submitDate": "2024-08-28T09:29:33.327Z",
    "dispatchUser": "smith123",
    "dispatchDate": "2024-08-28T09:29:33.327Z",
    "updateUser": "smith123",
    "updateDate": "2024-08-28T09:29:33.327Z",
    "cartons": [
      {
        "cartonId": 100200300,
        "externalCartonId": "4500300",
        "status": 1,
        "cartonDimensionId": 1000,
        "weight": 4.5,
        "weightUom": "LBS",
        "trackingNumber": "876300456",
        "restrictionLevel": 1,
        "createDate": "2024-08-28T09:29:33.328Z",
        "createUser": "smith123",
        "updateDate": "2024-08-28T09:29:33.328Z",
        "updateUser": "smith123",
        "approvalDate": "2024-08-28T09:29:33.328Z",
        "approvalUser": "smith123",
        "lineItems": [
          {
            "lineId": 2222222,
            "itemId": "10045600",
            "shipmentReasonId": 2222222,
            "caseSize": 3,
            "quantity": 100,
            "uins": [
              111345000,
              222220000
            ]
          }
        ]
      }
    ]
  }
]
```


## Schema — VendorShipmentIdo

This section describes the VendorShipmentIdo schema.


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**Table 4-560 VendorShipmentIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| shipmentId | NA | number($int12)<br>example: 11111 | The unique identifier of the vendor shipment. |
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store shipping the inventory. |
| supplierId | NA | number($int10)<br>example: 5101 | The identifier of the supplier the goods are being shipped to. |
| vendorReturnId | NA | number($int15)<br>example: 789012 | The unique identifier of the vendor return this shipment is for. |
| vendorReturnExternalId | NA | string($text128)<br>example: 90000 | A unique identifier of the vendor return from an external system. |
| status | NA | integer($int4)<br>example: 1 | The current status of the vendor shipment. Valid values are<br>1 - New<br>2 - In Progress<br>3 - Submitted<br>4 - Shipped<br>5 - Canceled<br>Enum: [ 1, 2, 3, 4, 5 ] |
| notAfterDate | NA | string($date-time) | A date after which the shipment should not be shipped. |
| authorizationCode | NA | string($text12)<br>example: H112 | A vendor authorization code |
| contextId | NA | number($int18)<br>example: 90000 | A unique identifer of a context for the shipment (see shipping service). |
| contextValue | NA | string($text25)<br>example: Spring Return | An additional value associated to the context for the shipment. |
| destinationAddress1 | NA | string($text240)<br>example: 460 Summer Street | The first line of the destination address. |
| destinationAddress2 | NA | string($text240)<br>example: Apartment 2 | The second line of the destination address. |
| destinationAddress3 | NA | string($text240)<br>example: c/o John Smith | The third line of the destination address. |
| destinationAddressCity | NA | string($text120)<br>example: Coolsville | The city of the destination address. |
| destinationAddressState | NA | string($text3)<br>example: NY | The state of the destination address. |
| destinationAddressCountry | NA | string($text3)<br>example: US | The country code of the destination address. |
| destinationAddressPostalCode | NA | string($text30)<br>example: 55555-1111 | The postal code of the destination address. |
| billOfLadingId | NA | number($int15)<br>example: 55601 | A bill of lading identifier. |


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**Table 4-560 (Cont.) VendorShipmentIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| alternateAddress | NA | string($text2000) example: Another Street, Different City, NY, 44444 | An alternate destination address. |
| carrierRole | NA | integer($int2) example: 1 | The type of carrier for the shipment. Valid values are<br>1 - Sender<br>2 - Receiver<br>3 - Third Party<br>Enum: [ 1, 2, 3 ] |
| carrierId | NA | integer($int10) example: 123 | A unique identifier of a carrier for the shipment. |
| carrierServiceId | NA | integer($int10) example: 456 | A unique identifier of a carrier service for the shipment. |
| alternateCarrierName | NA | string($text240) example: Speedy Delivery | The name of a third-party shipping company. |
| alternateCarrierAddress | NA | string($text240) example: Carrier Street, Carrier City, NY, 44444 | The address of a third-party shipping company. |
| motive | NA | string($text120) example: Overstock | A motive for the shipment. |
| taxId | NA | string($text18) example: 11-33500 | The tax identifier of the supplier it is being shipped to. |
| trackingNumber | NA | string($text128) example: 44000567002 | A tracking number associated to the shipment. |
| dimensionId | NA | integer($int12) example: 100 | The identifier of a dimension object associated to the shipment. |
| weight | NA | number($decimal(12,4)) example: 12.8 | The weight of the shipment. |
| weightUom | NA | string($text4) example: KG | The unit of measure of the weight of the shipment. |
| requestedPickupDate | NA | string($date-time) | The requested pickup date. |
| fiscalDocumentRequestId | NA | number($int20) example: 22233344455566 | The identifier of the request for a fiscal document. |
| fiscalDocumentReferenceId | NA | number($int20) example: 77788899100 | The unique identifier of the fiscal document |
| fiscalDocumentNumber | NA | string($text255) example: 128745 | The fiscal document number. |


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**Table 4-560 (Cont.) VendorShipmentIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| fiscalDocumentStatus | NA | integer($int4) example: 1 | The status of the fiscal document. Valid values are<br>1 - Approved<br>2 - Submitted<br>3 - Rejected<br>4 - Canceled<br>Enum: [ 1, 2, 3, 4 ] |
| fiscalDocumentRejectReason | NA | string($text255) example: Missing Requirements | A reason the fiscal document was rejected. |
| fiscalDocumentUrl | NA | string($text255) example: | A URL to the fiscal document. |
| createUser | NA | string($text128) example: smith123 | The user that created the shipment. |
| createDate | NA | string($date-time) | The date the shipment was created. |
| submitUser | NA | string($text128) example: smith123 | The user that submitted the shipment. |
| submitDate | NA | string($date-time) | The date the shipment was submitted. |
| dispatchUser | NA | string($text128) example: smith123 | The user that dispatched the shipment. |
| dispatchDate | NA | string($date-time) | The date the shipment was dispatched. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the shipment. |
| updateDate | NA | string($date-time) | The date the delivery was last updated. |
| cartons | NA | object | cartons |

**Table 4-561 VendorShipmentCartonIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| cartonId | NA | integer($int15) example: 100200300 | The unique identifier of the carton record. |
| externalCartonId | NA | string($text128) example: 4500300 | A container identifier from an external system. |
| status | NA | integer($int4) example: 1 | The current status of the carton. Valid values are<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Shipped<br>5 - Canceled<br>Enum: [ 1, 2, 3, 4, 5 ] |
| cartonDimensionId | NA | integer($int10) example: 1000 | The unique identifier of the container dimension object. |


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**Table 4-561 (Cont.) VendorShipmentCartonIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| weight | NA | number($decimal(12,4)) example: 4.5 | The weight of the container. |
| weightUom | NA | string($text4) example: LBS | The unit of measure of the weight of the container. |
| trackingNumber | NA | string($text128) example: 876300456 | The tracking number of the container. |
| restrictionLevel | NA | integer($int4) example: 1 | The hierarchy restriction level for items in the container. Valid values are1 - Department<br>2 - Class<br>3 - Subclass<br>4 - None<br>Enum: [ 1, 2, 3, 4 ] |
| createDate | NA | string($date-time) | The date the carton was created. |
| createUser | NA | string($text128) example: smith123 | The user that created the carton. |
| updateDate | NA | string($date-time) | The date the carton was last updated. |
| updateUser | NA | string($text128) example: smith123 | The user that last updated the carton. |
| approvalDate | NA | string($date-time) | The date the carton was approved. |
| approvalUser | NA | string($text128) example: smith123 | The user that approved the carton. |
| lineItems | NA | object | line items |

**Table 4-562 VendorShipmentLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| lineId | NA | integer($int15) example: 2222222 | The unique identier of the line record. |
| itemId | NA | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| shipmentReasonId | NA | integer($int15) example: 2222222 | The unique identier of the shipment reason. |
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |
| quantity | NA | number($decimal(20,4)) example: 100 | The quantity that was shipped. |
| uins | Na | string($text128) example: List [ 111345000, 222220000 ] | The UINs that were shipped. They total number must match the quantity shipped. |

## Response Code: 400

Bad request


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The media type is application/json.

See the JSON Error Element and Error Codes section.

# Update Shipment

This section describes the Update Shipment API. This API updates the header portion of a shipment as well as its bill of lading information. See carton related operations for creating or updating cartons on the shipment.

## Method

```
POST
```

## URL

```
/rtvshipments/{shipmentId}
```

## Request

This section describes the request parameters.

**Table 4-563 Update Shipment — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| shipmentId | Yes | number($int12) (path) | The unique identifier of the vendor shipment. |

The request body is application/json.

Shipment header details to update

## Example Value

```
{
  "notAfterDate": "2024-08-28T12:54:48.823Z",
  "authorizationCode": "H112",
  "contextId": 90000,
  "contextValue": "Spring Return",
  "addressType": 1,
  "carrierRole": 1,
  "carrierId": 123,
  "carrierServiceId": 456,
  "alternateAddress": "Another Street, Different City, NY, 44444",
  "alternateCarrierName": "Speedy Delivery",
  "alternateCarrierAddress": "Carrier Street, Carrier City, NY, 44444",
  "motiveId": 123,
  "taxId": "11-33500",
  "trackingNumber": "44000567002",
```


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```
  "dimensionId": 100,
  "weight": 20.4,
  "weightUom": "KG",
  "requestedPickupDate": "2024-08-28T12:54:48.823Z",
  "notes": [
    "The first note",
    "The second note"
  ]
}
```


## Schema — VendorShipmentUpdateIdo

This section describes the VendorShipmentUpdateIdo schema.

**Table 4-564 VendorShipmentUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| notAfterDate | NA | string($date-time) | A date after which the shipment should not be shipped. |
| authorizationCode | NA | string($text12) example: H112 | A vendor authorization code |
| contextId | NA | number($int18) example: 90000 | A unique identifier of a context for the shipment (see shipping service). |
| contextValue | NA | string($text25) example: Spring Return | An additional value associated to the context for the shipment. |
| addressType | NA | integer($int4) example: 1 | The hierarchy restriction level for items in the container. Valid values are<br>1 - Department<br>2 - Class<br>3 - Subclass<br>4 - None<br>Enum: [ 1, 2, 3, 4 ] |
| carrierRole | Yes | integer($int2) example: 1 | The type of carrier for the shipment. Valid values are<br>1 - Sender<br>2 - Receiver<br>3 - Third Party<br>Enum: [ 1, 2, 3 ] |
| carrierId | NA | integer($int10) example: 123 | A unique identifier of a carrier for the shipment. |
| carrierServiceId | NA | integer($int10) example: 456 | A unique identifier of a carrier service for the shipment. |
| alternateAddress | NA | string($text2000) example: Another Street, Different City, NY, 44444 | An alternate destination address. |
| alternateCarrierName | NA | string($text240) example: Speedy Delivery | The name of a third-party shipping company. |


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**Table 4-564 (Cont.) VendorShipmentUpdateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| alternateCarrierAddress | NA | string($text240) example: Carrier Street, Carrier City, NY, 44444 | The address of a third-party shipping company. |
| motiveId | NA | number($int18) example: 123 | The unique identifier of a mtoive for the bill of lading. |
| taxId | NA | string($text18) example: 11-33500 | The tax identifier of the supplier it is being shipped to. |
| trackingNumber | NA | string($text128) example: 44000567002 | A tracking number associated to the shipment. |
| dimensionId | NA | integer($int12) example: 100 | The idnetifier of a dimension object associated to the shipment. |
| weight | NA | number($decimal(12,4)) example: 20.4 | The weight of the shipment. |
| weightUom | NA | string($text4) example: KG | The unit of measure of the weight of the shipment. |
| requestedPickupDate | NA | string($date-time) | The requested pickup date. |
| notes | NA | string($text2000) example: List [ "The first note", "The second note" ] | A collection of up to 100 notes to be added to the list of notes. |

## Responses

This section describes the responses of the Update Shipment API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Submit Shipment


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This section describes the Submit Shipment API. This API submits a vendor shipment placing it into submitted status awaiting review and eventual dispatch. Fiscal document data capture can occur as part of this process.

## Method

```
POST
```

## URL

```
/rtvshipments/{shipmentId}/submit
```

## Request

This section describes the request paramters.

**Table 4-565 Submit Shipment — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| shipmentId | Yes | number($int12) (path) | The unique identifier of the vendor shipment. |

The request body is application/json.

Fiscal document information to include as part of the submission.

## Example Value

```
{
  "vehicleNumber": "ABC-222",
  "vehicleStateOrCountry": "New York",
  "driverName": "John Smith",
  "driverLicenseNumber": "HBAC-123456"
}
```

## Schema — VendorShipmentFiscalSubmitIdo

This section describes the VendorShipmentFiscalSubmitIdo schema.

**Table 4-566 VendorShipmentFiscalSubmitIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| vehicleNumber | NA | string($text25) example: ABC-222 | The vehicle license plate or identifying number. |


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**Table 4-566 (Cont.) VendorShipmentFiscalSubmitIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| vehicleStateOrCountry | NA | string($text25) example: New York | The vehicle's state or country. |
| driverName | NA | string($text30) example: John Smith | The name of the driver. |
| driverLicenseNumber | NA | string($text30) example: HBAC-123456 | The driver's liscence number. |

## Responses

This section describes the responses of the Submit Shipment API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Submit Shipment

This section describes the Cancel Submit Shipment API. Cancels the submission of a shipment moving it back to in progress state.

## Method

`POST`

## URL

`/rtvshipments/{shipmentId}/cancelSubmit`

## Request

This section describes the request parameters.


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**Table 4-567 Cancel Submit Shipment — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| shipmentId | Yes | number($int12) (path) | The unique identifier of the vendor shipment. |

## Responses

This section describes the responses of the Cancel Submit Shipment API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Dispatch Shipment

This section describes the Dispatch Shipment API. This API dispatches the shipment to the destination, closing the shipment, and updating inventory.

## Method

`POST`

## URL

`/rtvshipments/{shipmentId}/dispatch`

## Request

This section describes the request parameters.

**Table 4-568 Dispatch Shipment — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| shipmentId | Yes | number($int12) (path) | The unique identifier of the vendor shipment. |


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## Responses

This section describes the responses of the Dispatch Shipment API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Shipment

This section describes the Cancel Shipment API. This API cancels the shipment. This will close the associated vendor return.

## Method

`POST`

## URL

`/rtvshipments/{shipmentId}/cancel`

## Request

This section describes the request parameters.

**Table 4-569 Cancel Shipment — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| shipmentId | Yes | number($int12) (path) | The unique identifier of the vendor shipment. |

## Responses

This section describes the responses of the Cancel Shipment API.

### Response Code: 204


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No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Create Carton

This section describes the Create Carton API. This API adds a new container to a new or in progress shipment.

### Method

`POST`

### URL

`/rtvshipments/{shipmentId}/cartons`

### Request

This section describes the request parameters.

**Table 4-570 Create Carton — Request Parameters**

| Parameters | Required | Data Type | Description |
|---|---|---|---|
| shipmentId | Yes | number($int12) (path) | The unique identifier of the shipment. |

The request body is applicaton/json.

Details for the carton to create.

### Example Value

```
{
  "externalCartonId": "4500300",
  "trackingNumber": "876300456",
  "restrictionLevel": 1,
  "cartonSizeId": 1000,
  "weight": 4.5,
  "weightUom": "LBS",
  "lineItems": [
    {
```


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```
      "itemId": "10045600",
      "reasonId": 2222222,
      "caseSize": 3,
      "quantity": 100,
      "uins": [
        111345000,
        222220000
      ]
    }
  ]
}
```

## Schema — VendorShipmentCartonCreateIdo

This section describes the VendorShipmentCartonCreateIdo schema.

**Table 4-571 VendorShipmentCartonCreateIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: 4500300 | A container identifier from an external system. |
| trackingNumber | NA | string($text128) example: 876300456 | The tracking number of the container. |
| restrictionLevel | NA | integer($int4) example: 1 | The hierarchy restriction level for items in the container. Valid values are<br>1 - Department<br>2 - Class<br>3 - Subclass<br>4 - None<br>Enum: [ 1, 2, 3, 4 ] |
| cartonSizeId | NA | integer($int10) example: 1000 | The unique identifier of the container dimension object. |
| weight | NA | number($decimal(12,4)) example: 4.5 | The weight of the container. |
| weightUom | NA | string($text4) example: LBS | The unit of measure of the weight of the container. |
| lineItems | Yes | object | line items |

**Table 4-572 VendorShipmentCartonCreateLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |


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**Table 4-572 (Cont.) VendorShipmentCartonCreateLineItemIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| reasonId | Yes | integer($int15) example: 2222222 | The unique identifier of the shipment reason. |
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |
| quantity | Yes | number($decimal(20,4)) example: 100 | The quantity that was shipped. |
| uins | NA | string($text128 example: List [ 111345000, 222220000 ] | The UINs that were shipped. The total number must match the quantity shipped. |

## Responses

This section describes the responses of the Create Carton API.

### Reason Code: 200

Successful response

The media type is application/json.

### Example Value

```
[
  {
    "shipmentId": 11111,
    "cartonId": 5000,
    "status": 1
  }
]
```

### Schema — VendorShipmentCartonStatusIdo

This section describes the VendorShipmentCartonStatusIdo schema.

**Table 4-573 VendorShipmentCartonStatusIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| shipmentId | NA | number($int15) example: 11111 | The unique identifier of the vendor shipment. |


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**Table 4-573 (Cont.) VendorShipmentCartonStatusIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | NA | number($int15) example: 5000 | The identifier of the new carton. |
| status | NA | integer($int4) example: 1 | The current status of the vendor shipment. Valid values are<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Shipped<br>5 - Canceled<br>Enum: [ 1, 2, 3, 4, 5 ] |

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

## Update Carton

This section describes the Update Carton API. Updates a previously existing carton that is in a new or in progress state, on a shipment that is also new or in progress.

### Method

```
POST
```

### URL

```
/rtvshipments/cartons/{cartonId}
```

### Request

This section describes the request parameters.


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**Table 4-574 Update Create — Request Parameters**

| Parameters | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the shipment carton. |

The request body is application/json.

Details for the carton to update.

## Example Value

```
{
  "externalCartonId": "4500300",
  "trackingNumber": "876300456",
  "restrictionLevel": 1,
  "cartonSizeId": 1000,
  "weight": 4.5,
  "weightUom": "LBS",
  "lineItems": [
    {
      "itemId": "10045600",
      "reasonId": 2222222,
      "caseSize": 3,
      "quantity": 100,
      "uins": [
        111345000,
        222220000
      ]
    }
  ]
}
```

## Schema — VendorShipmentCartonUpdateIdo

This section describes the VendorShipmentCartonUpdateIdo schema.

**Table 4-575 VendorShipmentCartonUpdateIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: 4500300 | A container identifier from an external system. |
| trackingNumber | NA | string($text128) example: 876300456 | The tracking number of the container. |


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**Table 4-575 (Cont.) VendorShipmentCartonUpdateIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| restrictionLevel | NA | integer($int4) example: 1 | The hierarchy restriction level for items in the container. Valid values are<br>1 - Department<br>2 - Class<br>3 - Subclass<br>4 - None<br>Enum: [ 1, 2, 3, 4 ] |
| cartonSizeId | NA | integer($int10) example: 1000 | The unique identifier of the container dimension object. |
| weight | NA | number($decimal(12,4)) example: 4.5 | The weight of the container. |
| weightUom | NA | string($text4) example: LBS | The unit of measure of the weight of the container. |
| lineItems | Yes | object | Line items |

**Table 4-576 VendorShipmentCreateLineItemIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 10045600 | The unique identifier of the SKU item. |
| reasonId | Yes | integer($int15) example: 2222222 | The unique identier of the shipment reason. |
| caseSize | NA | number($decimal(10,2)) example: 3 | The case size of this record. |
| quantity* | Yes | number($decimal(20,4)) example: 100 | The quantity that was shipped. |
| uins | NA | string($text128) example: List [ 111345000, 222220000 ] | The UINs that were shipped. They total number must match the quantity shipped. |

# Responses

This section describes the responses of the Update Carton API.

## Response Code: 204

No Content

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.


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# Confirm Carton

This section describes the Confirm Carton API. This API confirms a carton indicating the carton is ready for dispatch. This sets the carton so it can no longer be modified.

## Method

`POST`

## URL

`/rtvshipments/cartons/{cartonId}/confirm`

## Request

This section describes the request parameters.

**Table 4-577 Confirm Carton — Request Parameters**

| Parameters | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the shipment carton. |

## Responses

This section describes the responses of the Confirm Carton API.

## Response Code: 204

No Content

## Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Cancel Carton

This section describes the Cancel Carton API. This API cancels a carton effectively removing its contents from the shipment.


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## Method

POST

## URL

/rtvshipments/cartons/{cartonId}/cancel

## Request

This section describes the request parameters.

**Table 4-578 Cancel Carton — Request Parameters**

| Parameters | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the shipment carton. |

## Responses

This section describes the responses of the Cancel Carton API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# Open Carton

This section describes the Open Carton API. This API opens a previously confirmed carton so that it can be modified again.

## Method

POST


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## URL

```
/rtvshipments/cartons/{cartonId}/open
```

## Request

This section describes the request parameters.

**Table 4-579 Open Carton — Request Parameters**

| Parameters | Required | Data Type/ Example | Description |
|---|---|---|---|
| cartonId | Yes | number($int12) (path) | The unique identifier of the shipment carton. |

## Responses

This section describes the responses of the Open Carton API.

### Response Code: 204

No Content

### Response Code: 400

Bad request

The media type is application/json.

See the JSON Error Element and Error Codes section.

# REST Service: Warehouse

This service integrates warehouse and warehouse item foundation data as well as warehouse item inventory adjustments.

Asynchronous warehouse integration is processed through staged messages and is controlled by the MPS Work Type: DcsWarehouse.

## Service Base URL

The Cloud service base URL follows the format:

https://<external_load_balancer>/<cust_env>/siocs-int-services/api/warehouses

## API Definitions


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| API | Description |
|---|---|
| Import Warehouses | Imports a collection of warehouses into the system. |
| Delete Warehouse | Deletes a warehouse from the system. |
| Import Items | Imports a collection of warehouse items. |
| Delete Items | Deletes warehouse items from the system. |
| Import Adjustments | Imports a collection of warehouse items adjustments that took place. |
| Import Inventory | Imports a collection of warehouse item inventory to update the inventory positions. |

# API: Import Warehouses

This will import warehouses through foundation warehouse processing.

If more than 500 warehouses are sent in a single call, an input too large error will be returned.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/import |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of warehouses to import |
| Output | None |
| Max Response Limit | 500 |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| warehouses | List of details | Yes | A list of warehouses to import. |

### Detail Data Definition

| Attribute | Data Type | Required | Size | Description |
|---|---|---|---|---|
| warehouseId | Long (10) | Yes | | The warehouse identifier. |
| name | String (150) | Yes | 150 | The name of the warehouse. |
| organizationUnit | String (15) | | 15 | The organization the warehouse belongs to. |
| countryCode | String (3) | | 3 | The ISO country code of the warehouse. |
| currencyCode | String (40) | | 3 | The ISO currency code of the warehouse. |

### Example Output

```
{
```


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"warehouses": [
{
"warehouseId": 64,
"name": "DownTownWarehouse-1",
"organizationUnit": "70001",
"countryCode": "IN",
"currencyCode": "INR"
},
{
"warehouseId": 65,
"name": "CitynWarehouse-1",
"organizationUnit": "70001",
"countryCode": "IN",
"currencyCode": "INR"
}
]
}
]

# API: Delete Warehouse

Deletes a warehouse. The warehouse will not be deleted if any items remain ranged to the warehouse.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}{warehouseId}/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Synchronous |
| Input | None |
| Output | None |
| Max Response Limit | N/A |

### Path Parameter Definitions

| Attribute | Definition |
|---|---|
| warehouseId | The internal identifier of the warehouse. |


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# API: Import Items

Imports a collection of warehouse items.

If more than 5000 items are sent in a single call, an input too large error will be returned.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/{warehouseId}/items/import |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous (High Volume) |
| Input | A list of warehouse items to import |
| Output | None |
| Max Response Limit | 5000 |

### Path Parameter Definitions

| Attribute | Definition |
|---|---|
| warehouseId | The internal identifier of the warehouse. |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| items | List of details | Yes | A list of warehouse items to import. |

### Detail Import Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String (25) | Yes | The item identifier. |
| standardUom | String (4) | Yes | The standard unit of measure of the item. |
| status | Integer | Yes | The status (See Index: Warehouse Item Import Status) |
| clearInventory | Boolean | Yes | True indicates that the inventory positions should all be set to zero. |

### Example Input

{

"items": [

{

"itemId": "100000147",

"standardUom": "EA",


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"status": 1,

"clearInventory": true

},

{

"itemId": "100000148",

"standardUom": "KG",

"status": 2,

"clearInventory": false

}

]

}

### Additional Data Definitions

### Warehouse Import Item Status

| Value | Definition |
|---|---|
| 1 | ACTIVE |
| 2 | DISCONTINUED |
| 3 | INACTIVE |

## API: Delete Items

Marks warehouse items for later deletion.

If more than 5000 items are sent in a single call, an input too large error will be returned.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}{warehouseId}/delete |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous |
| Input | List of item ids to delete |
| Output | None |
| Max Response Limit | 5000 |

### Path Parameter Definitions

| Attribute | Definition |
|---|---|
| warehouseId | The internal identifier of the warehouse. |


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### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| items | List<String(25)> | Yes | A collection of up to 5000 items to remove. |

### Example Input

```
{
"itemIds": [ "100000301", "100000147" ]
}
```

# API: Import Adjustments

### API: Import Adjustments

A list of warehouse adjustments is processed, inventory is updated for the warehouse items, and then the adjustments are discarded.

They are not persisted anywhere and this process does not produce a transaction history record.

If more than 5000 items are sent in a single call, an input too large error will be returned.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL} {warehouseId}/adjustments/import |
| Method | POST |
| Successful Response | 202 Accepted |
| Processing Type | Asynchronous (High Volume) |
| Input | A list of warehouse adjustments to import |
| Output | None |
| Max Response Limit | 5000 |

### Path Parameter Definitions

| Attribute | Definition |
|---|---|
| warehouseId | The internal identifier of the warehouse. |

### Input Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| adjustments | List of details | Yes | A list of adjustments that occurred for that warehouse. |


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### Detail Import Data Definition

| Attribute | Data Type | Required | Description |
|---|---|---|---|
| itemId | String (25) | Yes | The unique item identifier. |
| quantity | BigDecimal | Yes | The quantity to be adjusted. |
| reasonCode | Integer | Yes | The unique reason code of an inventory adjustment reason code. |

### Example Input

{
"adjustments": [
{
"itemId": "100000147",
"quantity": 100,
"reasonCode": 182
},
{
"itemId": "100000024",
"quantity": 50,
"reasonCode": 183
}
]
}

# API: Import Inventory

This operation updates the inventory positions of a warehouse.

### API Basics

| | |
|---|---|
| Endpoint URL | {base URL}/{warehouseId}/inventory/import |
| Method | POST |
| Successful Response | 200 Accepted |
| Processing Type | Asynchronous |
| Input | List of items with their inventory |
| Max Input | 10,000 items |
| Output | N/A |
| Max Response Limit | N/A |


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### Input Data Definition

| Attribute | Type | Definition |
|---|---|---|
| Items | List of Warehouse Inventory | A list of items to overwrite inventory for at the warehouse. |

### Warehouse Inventory Ido

| Attribute | Type | Definition |
|---|---|---|
| itemId | String(25) | The unique item identifier. |
| quantityTotal | BigDecimal(12,4) | The total quantity of the item in inventory. |
| quantityReserved | BigDecimal(12,4) | he quantity reserved for outgoing shipping. |
| quantityUnavailable | BigDecimal(12,4) | The quantity unavailable for usage. |
| quantityInTransit | BigDecimal(12,4) | The quantity in transit to the warehouse. |

### Example Input

{

"items

{

"itemId": "100000147",

"quantityTotal”: 100,

"quantityReserved”: 8

},

{

"itemId": "100000024",

"quantityTotal”: 50,

"quantityInTransit”: 183

}

]

}


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5

# Sales Integration

EICS integrates with POS systems and Sales Audit systems to ensure that the inventory positions are accurate. This is especially important where accurate up-to-date inventory positions are required to reduce customer disappointment when trying to locate items that appear in inventory or delays in filling customer orders.

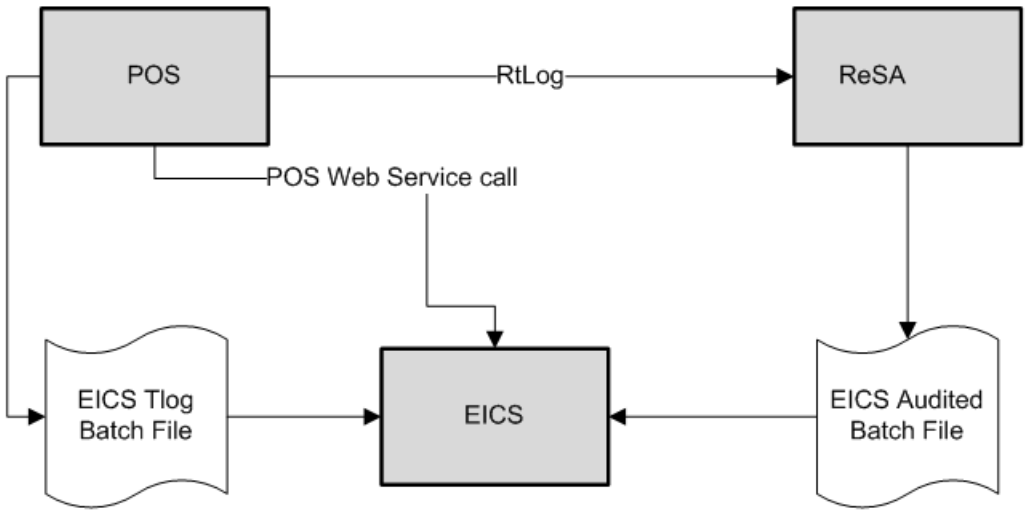
POS is the primary source of sales, returns, void, and some customer order transaction information to EICS.

ReSA sends only modified or new POS transaction records to EICS.

POS systems integrated with EICS can do the transaction notifications using a web service.

Sales Audit systems can only communicate through a file import process.

**Figure 5-1 POS and Sales Audit Integration**




The following features are part of this integration:

- Real-time web service integration
- Batch integration
- Audited sales data integration
- Automatic disposition processing for returns

Batch processing and ReSA processing are discussed elsewhere as are the store and system configurations that might determine how the sale is processes.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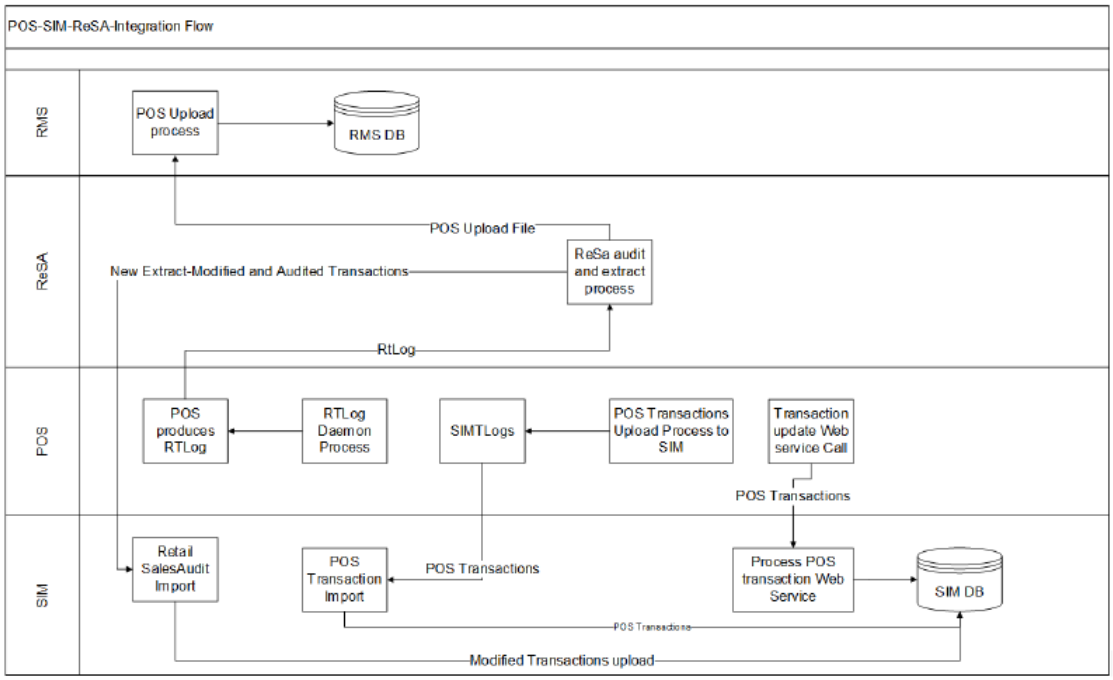
# POS and Sales Audit Process Flow

The following figure shows how a POS, Retail Sales Audit, and EICS are integrated. A POS generates an RTLog containing all the POS transactions and sends it to the Oracle Retail Sales Audit system (ReSA). ReSA sends the audited modified or new transactions to EICS. ReSA also sends the POS transaction upload file to merchandising to update inventory.

Please note that Oracle Retail Xstore is interfaced with EICS to update the inventory transactions near real time only through web service. It does not use batch.

Non-Oracle POS systems can use a batch to import transactions directly into EICS. EICS also processes the POS transactions that have been changed or entered into the sales audit system and updates the inventory based on the delta.

**Figure 5-2 POS and Sales Audit Process Flow**




There are two reasons for POS to send sales data directly to EICS and not to the auditing system:

- Real-time inventory updates to support Commerce Anywhere are critical. A possible round trip from POS to ReSA to EICS takes too long in the dynamic inventory environment of today.
- POS is the application that owns sales data and ReSA owns audited data. Architecturally, it makes more sense to have data supplied by the owner of that data. POS sends sales data and ReSA sends audit changes to EICS.

## Sales and Return Processing

As part of the sales processing, EICS updates the inventory depending on the nature of the transaction. The following are the supported transaction types for the sales processing: Sale,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Return, and Post Void of these transactions. The audit system should not modify the post void transactions. A change to a void is not supported by EICS.

## Customer Order Processing

In EICS, the Retail Sales Audit import process, POS Transaction import process, and POS Transaction web service process support the following types of customer orders.

- For layaway and on hold, EICS supports create, update, cancel, and pickup/delivery. For external web order type, only pickup transactions performed in POS are sent to EICS.
- Pickup transactions, both in-store and external, cannot be voided or modified by sales audit and if these transactions are modified by sales audit system, EICS just drops the transaction and does not process.

> **Note**
>
> Current Xstore functionality is limited to only layaway and on hold orders. Web order processing is not supported in this release.

## Item Disposition

POS can move inventory for return and post void transactions to ’unavailable’ or ’out of stock’. This is especially useful in some environments where items returned must be disposed of or must be reprocessed.

The external sale transaction coming into EICS may include a reason code that is mapped to the inventory adjustment reason codes in EICS. Point of Service maps the EICS reason codes, and the reason codes are sent to EICS in the web service or file extract for the return and post void transactions. EICS first processes the return or post void and updates stock on hand. Next, if the reason code exists, EICS checks this reason code with the one in inventory adjustment reason code table. If a valid match is found, EICS generates an inventory adjustment to notify external systems and execute the disposition instructions tied to the inventory adjustment reason code. Based on the disposition mapped to the reason code, EICS moves the returned inventory to not for sale or out of stock and updates the history trail. If sub-buckets are used, they are also updated if the movement is to not for sale.

If the reason code received is invalid/not present/mapped incorrectly, the system writes an error log and continues to process the stock on hand part of the transaction.

## Drop Ship

When the sales records indicate the record is a drop ship, EICS does not perform any processing of this record since the drop ship process implies the inventory is shipped from a third-party location and not from the store.

## Item Types

EICS only processes SKU or UPC numbers. GS1 databars, or any other smart barcodes such as VPLUs or Type-E barcodes, should have been extracted to their SKU or UPC number by the POS system.

In addition, EICS only updates inventory for stock holding items. Non-inventory items do not update any stock on hand and are not processed.


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Items with the store pack inventory indicator turned off are automatically broken down and the inventory of the component items is updated.

## RFID

If the point-of-sale record for an item includes an RFID tag, the tag will be moved to a SOLD status indicating it should be out-of-store.


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# 6
# Outbound Integration

This chapter provides information about the following outbound integration processes:


Integration with Customer Order System

Integration of Direct From Vendor Receipts

Integration of Direct From Vendor Return

Integration of Inventory Movements

Integration with Manifesting Systems

Integration for Notifications

Integration of Pre-Shipment Notification

Integration for Sales Forecast

Integration of Shipments

Integration of Stock Count Schedules

Integration for Store Order

Integration for Ticket Printing

Integration of Transfers

Integration of Transfer Receipts

Integration of Order Available Stock On Hand


## Integration with Customer Order System

**SOAP Service: CustomerOrderAddressService**

When shipping to customer during the fulfillment order workflow, EICS retrieves the address for the order delivery from an external order managements system. When viewing delivery address information within the client application, it also retrieves it from an external system. The web service is defined to connect to an OrderManagementService.

| Service Operation | Description |
|---|---|
| queryCustomerOrderAddress | Retrieves detailed address information for the order and customer information passed to it. |

**SOAP Service: CustomerOrderService**

This service connects to OrderManagementService to manage customer orders. It includes operations to create a customer order, query for customer orders, pickup/cancel items from a customer order and return items from customer orders.



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| Service Operation | Description |
|---|---|
| requestNewCustomerOrderId | Requests new customer order Id. |
| cancelNewCustomerOrderId | Cancels the new customer order id. |
| createCustomerOrder | Creates customer order. |
| queryCustomerOrder | Queries the customer order present in the system. |
| PickupCustomerOrderItems | Pickup items from the customer order. |
| ReturnCustomerOrderItems | Returns items from the customer order. |
| UpdateReceipt | Updates the receipt of customer order. |

# REST Service: Fulfillment Order Address (External)

When shipping to customer during the fulfillment order workflow, EICS retrieves the address for the order delivery from an external order managements system. When viewing delivery address information within the client application, it also retrieves it from an external system.

This service must be implemented by an external system that will provide the customer address for a particular customer order. SIOCS does not store customer information and retrieves it from this external endpoint just prior to shipping.

## Order Address

This section describes the Order Address API. This API retrieve the address of the customer for a particular order.

### Method

```
POST
```

### URL

```
/orderaddress
```

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the order and customer in order to retrieve the proper address.

### Example Value

```
{
  "customerOrderNo": "111222333",
  "fulfillmentOrderNo": "444555666",
```


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```
  "storeId": 5000
}
```

## Schema — FulfillmentOrderAddressCriticalExtIdo

**Table 6-1 FulfillmentOrderAddressCriticalExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderNo | NA | string($text128) example: 111222333 | The customer order number. |
| fulfillmentOrderNo | NA | string($text128) example: 444555666 | The fulfillment order number. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store that will fulfill the order. |

## Responses

This section describes the responses of the Order Address API.

## Response Code: 200

The request has been successful.

The media type is application/json.

Example Value

```
[
  {
    "billingAddress1": "Box 110",
    "billingAddress2": "Apartment Block 2534",
    "billingAddress3": "4th Avenue North",
    "billingCity": "Blaketon",
    "billingState": "MN",
    "billingCountryCode": "USA",
    "billingCounty": "Bernard",
    "billingCompanyName": "Holdings Consolidated",
    "billingEmailAddress": "janice.smith@email.com",
    "billingFirstName": "Janice",
    "billingLastName": "Smith",
    "billingPhoneNumber": "555-765-2452",
    "billingPhoneticFirst": "jan-iss",
    "billingPhoneticLast": "Smith",
    "billingPostalCode": "55555",
    "customerNumber": "A123B44",
    "deliveryAddress1": "Box 110",
    "deliveryAddress2": "Apartment Block 2534",
    "deliveryAddress3": "4th Avenue North",
    "deliveryCity": "Blaketon",
```


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```
    "deliveryState": "MN",
    "deliveryCountryCode": "USA",
    "deliveryCounty": "Bernard",
    "deliveryPostalCode": "55555",
    "deliveryCompanyName": "Holdings Consolidated",
    "deliveryEmailAddress": "janice.smith@email.com",
    "deliveryFirstName": "Janice",
    "deliveryLastName": "Smith",
    "deliveryPhoneNumber": "555-765-2452",
    "deliveryPhoneticFirst": "jan-iss",
    "deliveryPhoneticLast": "smith",
    "deliveryPreferredName": "Jan"
  }
]
```


Schema — FulfillmentOrderAddressExtIdo

**Table 6-2 FulfillmentOrderAddressExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| billingAddress1 | NA | string($text240) example: Box 110 | The first billing address line. |
| billingAddress2 | NA | string($text240) example: Apartment Block 2534 | The second billing address line. |
| billingAddress3 | NA | string($text240) example: 4th Avenue North | The third billing address line. |
| billingCity | NA | string($text120) example: Blaketon | The billing address city name. |
| billingState | NA | string($text3) example: MN | The billing address state code. |
| billingCountryCode | NA | string($text3) example: USA | The billing address country code. |
| billingCounty | NA | string($text250) example: Bernard | The billing address county name. |
| billingCompanyName | NA | string($text120) example: Holdings Consolidated | The billing address company name. |
| billingEmailAddress | NA | string($text100) example: janice.smith@email.com | The billing contact email address. |
| billingFirstName | NA | string($text120) example: Janice | The billing contact first name. |


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**Table 6-2 (Cont.) FulfillmentOrderAddressExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| billingLastName | NA | string($text120) example: Smith | The billing contact last name. |
| billingPhoneNumber | NA | string($text20) example: 555-765-2452 | The billing contact phone number. |
| billingPhoneticFirst | NA | string($text120) example: jan-iss | The billing contact phonetic spelling of first name. |
| billingPhoneticLast | NA | string($text120) example: Smith | The billing contact phonetic spell of last name. |
| billingPostalCode | NA | string($text30) example: 55555 | The billing address postal code. |
| customerNumber | NA | string($text14) example: A123B44 | The customer number of the customer who placed the order. |
| deliveryAddress1 | NA | string($text240) example: Box 110 | The first delivery address line. |
| deliveryAddress2 | NA | string($text240) example: Apartment Block 2534 | The second delivery address line. |
| deliveryAddress3 | NA | string($text240) example: 4th Avenue North | The third delivery address line. |
| deliveryCity | NA | string($text120) example: Blaketon | The delivery address city name. |
| deliveryState | NA | string($text3) example: MN | The delivery address state code. |
| deliveryCountryCode | NA | string($text3) example: USA | The delivery address country code. |
| deliveryCounty | NA | string($text250) example: Bernard | The delivery address county name. |
| deliveryPostalCode | NA | string($text30) example: 55555 | The delivery address postal code. |
| deliveryCompanyName | NA | string($text120) example: Holdings Consolidated | The company name at the delivery address. |


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**Table 6-2 (Cont.) FulfillmentOrderAddressExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| deliveryEmailAddress | NA | string($text100) example: janice.smith@email.com | The email address of the delivery contact. |
| deliveryFirstName | NA | string($text120) example: Janice | The first name of the delivery contact. |
| deliveryLastName | NA | string($text120) example: Smith | The last name of the delivery contact. |
| deliveryPhoneNumber | NA | string($text20) example: 555-765-2452 | The phone number of the delivery contact. |
| deliveryPhoneticFirst | NA | string($text120) example: jan-iss | The phonetic spelling of the first name of the delivery contact. |
| deliveryPhoneticLast | NA | string($text120) example: smith | The phonetic spelling of the last name of the delivery contact. |
| deliveryPreferredName | NA | string($text120) example: Jan | The preferred name of the delivery contact. |

# REST Service: Customer Fulfillment Order Status (External)

This service must be implemented by an external system that wants to receive notices from EICS about that state of customer fulfillment orders.

## Order Query

This operations queries an order. It retrieves real-time order from the order management system to verify prior to shipping.

### Method

`POST`

### URL

`/orderstatus/query`

### Request Parameters


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There are no request parameters.

The request body is application/json.

Details about the fulfillment order to be queried.

### Example Value

```
{
  "customerOrderId": "222345666",
  "fulfillmentOrderId": "76544400",
  "storeId": 1234
}
```

### Schema — FulfillmentOrderCriteriaIdo

**Table 6-3 FulfillmentOrderCriteriaIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | Yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | Yes | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |

## Responses

This section describes the responses of the Order Query API.

### Response Code: 200

The request has been successful.

The media type is application/json.

Example Value

```
[
  {
    "customerOrderId": "222345666",
    "lineItems": [
      {
        "itemId": "55001234",
        "completedQuantity": 2,
        "canceledQuantity": 10
      }
    ]
```


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```
  }
]
```

Schema — FulfillmentOrderExtIdo

**Table 6-4 FulfillmentOrderExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | Yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| lineItems | NA | object | A collection of line items on the fulfillment order. |

**Table 6-5 FulfillmentOrderItemExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 55001234 | The SKU level item identifier. |
| completedQuantity | NA | number($int10) example: 2 | The amount of the item ordered that has been completed. |
| canceledQuantity | NA | number($decimal(12,4)) example: 10 | The amount of the item ordered that has been canceled. |

## Order Accepted

This operation will be accessed when a new fulfillment order has been accepted by the store, sending information about the quantities accepted.

### Method

`POST`

### URL

`/orderstatus/accept`

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the fulfillment order that was accepted.


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## Example Value

```
{
  "customerOrderId": "222345666",
  "fulfillmentOrderId": "76544400",
  "storeId": 1234,
  "lineItems": [
    {
      "itemId": "55001234",
      "lineNumber": 2,
      "quantityOrdered": 10
    }
  ]
}
```

## Schema — FulfillmentOrderAcceptExtIdo

**Table 6-6 FulfillmentOrderAcceptExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | Yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | Yes | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |
| lineItems | Yes | object | A collection of accepted line items on the fulfillment order. |

**Table 6-7 FulfillmentOrderAcceptItemExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | Yes | string($text25) example: 55001234 | The SKU level item identifier. |
| lineNumber | NA | number($int10) example: 2 | The line number of the fulfillment order this item is fulfilling. |
| quantityOrdered | Yes | number($decimal(12,4)) example: 10 | The quantity accepted on this line item. |

## Responses

This section describes the responses of the Order Accept API.


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### Response Code: 204

No content

## Order Rejected

This service will be accesses when a new fulfillment order has been rejected by the store.

### Method

`POST`

### URL

`/orderstatus/reject`

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the fulfillment order that was rejected.

### Example Value

```
{
  "customerOrderId": "222345666",
  "fulfillmentOrderId": "76544400",
  "storeId": 1234
}
```

### Schema — FulfillmentOrderRejectIdo

**Table 6-8 FulfillmentOrderRejectIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerOrderId | Yes | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | Yes | number($int10) example: 1234 | The identifier of the store at which this order will be fulfilled. |


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### Responses

This section describes the responses of the Order Rejected API.

### Response Code: 204

No content

## Order Status

This service will be accessed when the state of an order changes sending complete details about the fulfillment order. This occurs when order quantity reservations change, when picking occurs, when reverse picking occurs, and when a delivery is shipped.

### Method

`POST`

### URL

`/orderstatus/status`

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the fulfillment order.

### Example Value


```
{
  "orderId": 11111,
  "customerOrderId": "222345666",
  "fulfillmentOrderId": "76544400",
  "storeId": 1234,
  "customerId": "JXA244443",
  "orderType": 1,
  "deliveryType": 1,
  "status": 1,
  "orderDate": "2025-02-07T10:34:03.411Z",
  "releaseDate": "2025-02-07T10:34:03.411Z",
  "deliveryDate": "2025-02-07T10:34:03.411Z",
  "carrierId": 4500674,
  "carrierServiceId": 573314534,
  "allowPartialDelivery": true,
  "deliveryCharge": 4500674,
```



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```
  "deliveryChargeCurrency": "USD",
  "holdLocation": "Pickup Desk",
  "orderComments": "Customer will arrive by 2pm.",
  "underReview": false,
  "quickFlow": true,
  "deliveryComments1": "First line.",
  "deliveryComments2": "Second line.",
  "deliveryComments3": "Third line.",
  "customerArrivalDate": "2025-02-07T10:34:03.411Z",
  "createDate": "2025-02-07T10:34:03.411Z",
  "updateDate": "2025-02-07T10:34:03.411Z",
  "activityType": 1,
  "systemCode": "INV",
  "lineItems": [
    {
      "lineId": 333444,
      "itemId": "55001234",
      "substituteLineId": 5600043,
      "lineNumber": 2,
      "preferredUom": "KG",
      "comments": "Item packaging slightly damaged.",
      "quantityOrdered": 10,
      "quantityPicked": 6,
      "quantityDelivered": 2,
      "quantityCanceled": 2,
      "quantityReserved": 8,
      "allowSubstitution": true,
      "price": 4500674,
      "priceCurrency": "USD",
      "createDate": "2025-02-07T10:34:03.411Z",
      "updateDate": "2025-02-07T10:34:03.411Z"
    }
  ]
}
```


## Schema — FulfillmentOrderStatusExtIdo

**Table 6-9 FulfillmentOrderStatusExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderId | NA | number($int12 ) example: 11111 | The unique identifier of the fulfillment order. |
| customerOrderId | NA | string($text128) example: 222345666 | The customer order number (from the external ordering system). |
| fulfillmentOrderId | NA | string($text128) example: 76544400 | The fulfillment order number (from the external ordering system). |
| storeId | NA | number($int10 ) example: 1234 | The identifier of the store at which this order will be fulfilled. |


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**Table 6-9 (Cont.) FulfillmentOrderStatusExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| customerId | NA | string($text14) example: JXA244443 | The identifier of the customer for this fulfillment order. |
| orderType | NA | integer($int4) example: 1 | The order type of the customer order. Valid values are:<br>1 - Layaway<br>2 - Pickup and Delivery<br>3 - Customer Order<br>4 - Pending Purchase<br>5 - Special Order<br>6 - Web Order<br>7 - On Hold<br>Enum: [ 1, 2, 3, 4, 5, 6, 7 ] |
| deliveryType | NA | integer($int4) example: 1 | The delivery type of the customer order. Valid values are:<br>1 - Customer Pickup<br>2 - Ship To Store<br>3 - Layaway<br>4 - On Hold<br>5 - POS Order<br>Enum:<br>[ 1, 2, 3, 4, 5 ] |
| status | NA | integer($int4) example: 1 | The current status of the customer order. Value values are:<br>1 - New<br>2 - In Progress<br>3 - Completed<br>4 - Canceled<br>5 - Reverse Pick<br>6 - Pick In Progress<br>7 - Delivery In Progress<br>8 - Ready To Ship<br>9 - Ready For Pickup<br>10 - Picking Required<br>11 - Under Review<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 ] |
| orderDate | NA | string($date-time) | The date the customer placed the order. |
| releaseDate | NA | string($date-time) | The date in which the order must be shipped by the store or picked up in the store. |
| deliveryDate | NA | string($date-time) | The date in which the order is to be delivered. |
| carrierId | NA | integer($int10) example: 4500674 | The identifier of the carrier who will deliver the order. |


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**Table 6-9 (Cont.) FulfillmentOrderStatusExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| carrierServiceId | NA | integer($int10) example: 573314534 | The identifier of the carrier service used for the delivery. |
| allowPartialDelivery | NA | boolean example: true | True indicates delivery can occur without all items being available and ready. False indicates all items must be shipped in the delivery. |
| deliveryCharge | NA | number($decimal(12,4)) example: 4500674 | The cost of shipment of this order. |
| deliveryChargeCurrency | NA | string($text3) example: USD | The currency of the delivery charge value. |
| holdLocation | NA | string($text128) example: Pickup Desk | Descripton of where the order is being held for pickup or delivery. |
| orderComments | NA | string($text2000) example: Customer will arrive by 2pm. | Comments entered in the external system for the order. |
| underReview | NA | boolean example: false | True indicates that the fulfilling system needs to delay either shipping or fulfilling the order until this flag is cleared. |
| quickFlow | NA | boolean example: true | True indicates the customer order is fulfilled using the quick flow JET mobile process. False indicates the standard process was used. |
| deliveryComments1 | NA | string($text128) example: First line. | The first line of delivery comments. |
| deliveryComments2 | NA | string($text128) example: Second line. | The second line of delivery comments. |
| deliveryComments3 | NA | string($text128) example: Third line. | The third line of delivery comments. |
| customerArrivalDate | NA | string($date-time)q | The date that the customer arrived for pickup. |
| createDate | NA | string($date-time) | The date the fulfillment order was created in SIOCS. |
| updateDate | NA | string($date-time) | The date the fulfillment order was last updated in SIOCS. |
| activityType | NA | integer($int4) example: 1 | 1 - Delivery Dispatch<br>2 - Order Pick<br>3 - Order Reservation<br>4 - Order Reverse Pick<br>Enum: [ 1, 2, 3, 4 ] |


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**Table 6-9 (Cont.) FulfillmentOrderStatusExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| systemCode | NA | string($text10) example: INV | A system code indicating the system of origin of this content. |
| lineItems | NA | object | A collection of line items on the fulfillment order. |

**Table 6-10 FulfillmentOrderStatusItemExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| lineId | NA | number($int12) example: 333444 | The unique identifier of the line item. |
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| substituteLineId | NA | number($int12) example: 5600043 | The identifier of a line item that this item has been substituted for. |
| lineNumber | NA | number($int10) example: 2 | The line number of the fulfillment order this item is fulfilling. |
| preferredUom | NA | string($text4) example: KG | The preferred unit of measure the item quantities should be processed or displayed in. |
| comments | NA | string($text2000) example: Item packaging slightly damaged. | Comments from an external system associated to this item. |
| quantityOrdered | NA | number($decimal(12,4)) example: 10 | The quantity ordered on this line item. |
| quantityPicked | NA | number($decimal(12,4)) example: 6 | The quantity picked for this line item. |
| quantityDelivered | NA | number($decimal(12,4)) example: 2 | The quantity delivered to date on this line item. |
| quantityCanceled | NA | number($decimal(12,4)) example: 2 | The quantity canceled on this line item. |
| quantityReserved | NA | number($decimal(12,4)) example: 8 | The quantity reserved for this line item. |
| allowSubstitution | NA | boolean example: true | True indicates a substitution is allowed for this item, false indicates it is not. |
| price | NA | number($decimal(20,4)) example: 4500674 | The amount of the price of the item. |


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**Table 6-10 (Cont.) FulfillmentOrderStatusItemExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| priceCurrency | NA | string($text3) example: USD | The currency of the price of the item. |
| createDate | NA | string($date-time) | The date the order item was created in SIOCS. |
| updateDate | NA | string($date-time) | The date the order item was last updated in SIOCS. |

### Responses

This section describes the responses of the Order Status API.

### Response Code: 204

No content

# Integration of Direct From Vendor Receipts

EICS publishes out a vendor delivery receipt (DCS receipt) to an external endpoint when the delivery is confirmed. The service must be configured on the external services administration screen.

## REST Service: Vendor Delivery Receipt (External)

This service publishes out the information about a vendor delivery receipt (DSD Receipt) to an external endpoint. This occurs when the vendor delivery receipt is confirmed.

### Receipt Confirmed

A receipt information is sent via this operation when a vendor delivery receipt is confirmed.

### Method

```
POST
```

### URL

```
/dsdreceipts
```

### Request Parameters

There are no request parameters.


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The request body is application/json.

Details about the vendor delivery receipt that was confirmed.

## Example Value


```
{
  "supplierId": 5510,
  "storeId": 5000,
  "receiptNumber": "A3DA",
  "invoiceNumber": "1004728342",
  "invoiceDate": "2025-02-11T14:42:26.122Z",
  "receiptDate": "2025-02-11T14:42:26.122Z",
  "deliveryType": 1,
  "originatingCountryCode": "CAN",
  "currencyCode": "CAD",
  "carrierCode": "SHP",
  "containers": [
    {
      "cartonId": 55001234,
      "externalCartonId": "234342",
      "trackingNumber": "863413410",
      "receiptDate": "2025-02-11T14:42:26.122Z",
      "adjusted": false,
      "missing": false,
      "items": [
        {
          "itemId": "55001234",
          "vendorProductNumber": "55001234",
          "quantityExpected": 10,
          "quantityReceived": 10,
          "quantityDamaged": 5,
          "caseSize": 100,
          "purchaseOrderId": 7444567333,
          "externalPurchaseOrderId": "55001234",
          "customerOrderNumber": "143523465425",
          "fulfillmentOrderNumber": "134314",
          "unitCostValue": 11.5,
          "uins": [
            {
              "uin": "20343932434",
              "status": 1
            }
          ]
        }
      ]
    }
  ]
}
```


## Schema — VendorDeliveryReceiptExtIdo


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**Table 6-11 VendorDeliveryReceiptExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| supplierId | NA | number($int10) example: 5510 | The identifier of the supplier that shipped the goods. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the goods. |
| receiptNumber | NA | number($int12) example: A3DA | The receipt number of the delivery. |
| invoiceNumber | NA | string($text128) example: 1004728342 | The invoice number of the delivery. |
| invoiceDate | NA | string($date-time) | The date of the invoice. |
| receiptDate | NA | string($date-time) | The date the delivery was received. |
| deliveryType | NA | number($int2) example: 1 | The type of delivery. Valid values are:<br>1 - ASN<br>2 - PO<br>3 - DEX-NEX<br>4 - Manual<br>Enum: [ 1, 2, 3, 4 ] |
| originatingCountryCode | NA | string($text3) example: CAN | The country code of the country of origin. |
| currencyCode | NA | string($text3) example: CAD | The currency code of the delivery. |
| carrierCode | NA | string($text4) example: SHP | The carrier code of the delivery carrier. |
| containers | NA | object | A collection of containers on the delivery. |

**Table 6-12 VendorDeliveryReceiptContainerExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| cartonId | NA | number($int12) example: 55001234 | The internal system container identifier. |
| externalCartonId | NA | string($text128) example: 234342 | An external system carton identifier for reference. |
| trackingNumber | NA | string($text124) example: 863413410 | The tracking number of the container. |
| receiptDate | NA | string($date-time) | The date the container was received. |
| adjusted | NA | boolean example: false | True if the carton is adjusted from a previous receipt, false if it is the first receipt of this container. |


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**Table 6-12 (Cont.) VendorDeliveryReceiptContainerExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| missing | NA | boolean example: false | True if the carton is missing from the receipt, false if it is received. |
| items | NA | object | A collection of line items within the container. |

**Table 6-13 VendorDeliveryReceiptItemExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | | string($text25) example: 55001234 | The SKU level item identifier. |
| vendorProductNumber | | string($text256) example: 55001234 | The vendor product number of the item/sku. |
| quantityExpected | | number($decimal(20,4)) example: 10 | The quantity originally expected to be received. |
| quantityReceived | | number($decimal(20,4)) example: 10 | The quantity received (as not damaged) for the item in this container. |
| quantityDamaged | | number($decimal(20,4)) example: 5 | The quantity received as damage for the item in this container. |
| caseSize | | number($decimal(10,4)) example: 100 | The case size of the item on this receipt. |
| purchaseOrderId | | number($int12) example: 7444567333 | The purchase order identifier if associated to a purchase order. |
| externalPurchaseOrderId | | string($text128) example: 55001234 | The external purchase order number if the purchase order originated from an external system. |
| customerOrderNumber | | string($text128) example: 143523465425 | The customer order number if associated to a customer order. |
| fulfillmentOrderNumber | | string($text128) example: 134314 | The fulfillment order number if associated to a customer order. |
| unitCostValue | | number($decimal(12,4)) example: 11.5 | The unit cost amount for this item on the receipt. |
| uins | | object | A collection of uins on the item. |


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**Table 6-14 UinExtIdo— Object**

| Element Name | Required | Required | Data Type/Example |
|---|---|---|---|
| uin | NA | string($text128) example: 20343932434 | The universal identifier number. |
| status | NA | number($int2) example: 1 | The status of the UIN. Valid values are:<br>1 - In Stock<br>2 - Sold<br>3 - Shipped To Warehouse<br>4 - Shipped To Store<br>5 - Reserved For Shipping<br>6 - Shipped To Vender<br>7 - Removed From Inventory<br>8 - Unavailable<br>9 - Missing<br>10 - In Receiving<br>11 - Customer Order Reserved<br>12 - Customer Order Fulfilled<br>13 - shipped To Finisher<br>99 - Unconfirmed<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 99 ] |

### Responses

This section describes the responses of the Receipt Confirmed API.

### Response Code: 204

No content.

# Integration of Direct From Vendor Return

When a vendor return is altered such as when it is approved or closed, or a vendor delivery receipt is made against the vendor return document, EICS will publish the updated vendor return to the service endpoint. The service must be configured on the external services administration screen.

## REST Service: Vendor Return (External)


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This service publishes out the information about a vendor return (RTV) to an external endpoint. This occurs when the vendor delivery receipt is confirmed.

## Update Return

A notification of an updated return is sent when the vendor return is approved, closed, or otherwise modified.

### Method

```
POST
```

### URL

```
/vendorreturns
```

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the vendor return that was update.

### Example Value


```
{
  "supplierId": 5510,
  "storeId": 5000,
  "receiptNumber": "A3DA",
  "invoiceNumber": "1004728342",
  "invoiceDate": "2025-02-11T14:42:26.122Z",
  "receiptDate": "2025-02-11T14:42:26.122Z",
  "deliveryType": 1,
  "originatingCountryCode": "CAN",
  "currencyCode": "CAD",
  "carrierCode": "SHP",
  "containers": [
    {
      "cartonId": 55001234,
      "externalCartonId": "234342",
      "trackingNumber": "863413410",
      "receiptDate": "2025-02-11T14:42:26.122Z",
      "adjusted": false,
      "missing": false,
      "items": [
        {
          "itemId": "55001234",
          "vendorProductNumber": "55001234",
          "quantityExpected": 10,
          "quantityReceived": 10,
```



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```
            "quantityDamaged": 5,
            "caseSize": 100,
            "purchaseOrderId": 7444567333,
            "externalPurchaseOrderId": "55001234",
            "customerOrderNumber": "143523465425",
            "fulfillmentOrderNumber": "134314",
            "unitCostValue": 11.5,
            "uins": [
              {
                "uin": "20343932434",
                "status": 1
              }
            ]
          }
        ]
      }
    ]
}
```

## Schema — VendorReturnExtIdo

**Table 6-15 VendorReturnExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| vendorReturnId | NA | number($int15) example: 222345666 | The internal system identifier of the vendor return. |
| externalReturnId | NA | string($text128) example: 76544400 | The external identifier of the vendor return from the originating system. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store shipping the return. |
| supplierId | NA | number($int10) example: 5510 | The identifier of the supplier receiving the return. |
| authorizationCode | NA | string($text12) example: A3DA | A vendor authorization code for the return. |
| supplierAddress1 | NA | string($text240) example: Shipping Company | The first line of the supplier return address. |
| supplierAddress2 | NA | string($text240) example: Suite 100 | The second line of the supplier address. |
| supplierAddress3 | NA | string($text240) example: Business Lane | The third line of the supplier return address. |
| supplierCity | NA | string($text129) example: Nowheresville | The city of the supplier return address. |
| supplierState | NA | string($text3) example: MN | The state of the supplier return address. |


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**Table 6-15 (Cont.) VendorReturnExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| supplierCountry | NA | string($text3) example: USA | The country code of the supplier return address. |
| supplierPostalCode | NA | string($text30) example: 12345 | The postal code of the supplier return address. |
| status | NA | number($int2) example: 1 | The status of the return. Valid values are:<br>1 - Approved<br>2 - In Shipping<br>3 - Shipped<br>4 - Rejected<br>5 - Closed<br>Enum: [ 1, 2, 3, 4, 5 ] |
| createDate | NA | string($date-time) | The date the vendor return was created. |
| approvedDate | NA | string($date-time) | The date the vendor return was approved. |
| lineItems | NA | object | A collection of line items on the vendor return. |

**Table 6-16 VendorReturnItemExtIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| externalLineNumber | NA | number($int15) example: 2 | The external line number. |
| quantityRequested | NA | number($decimal(20,4)) example: 10 | The quantity originally requested. |
| quantityApproved | NA | number($decimal(20,4)) example: 10 | The quantity approved. |
| quantityInShipping | NA | number($decimal(20,4)) example: 5 | The quantity currently in picking/shipping. |
| quantityShipped | NA | number($decimal(20,4)) example: 5 | The quantity shipped. |
| caseSize | NA | number($decimal(10,4)) example: 100 | The case size of the item on this shipment. |
| unavailableInventory | NA | boolean example: false | True if this item is using unavailable inventory, false otherwise. |


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**Table 6-16 (Cont.) VendorReturnItemExtIdo — Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| returnReason | NA | string($text5) example: O | The shipment return reason code. |

### Responses

This section describes the responses of the Update Return API.

### Response Code: 204

No content.

# Integration of Inventory Movements

EICS publishes out an inventory adjustment when the inventory positions change. This service must be configured on the external services administration screen.

## REST Service: Inventory Adjustment (External)

This service publishes out the information about an inventory adjustment to an external endpoint.

### Adjustments

Publishes out the information about adjustments.

### Method

`POST`

### URL

`/adjustments`

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the adjustment.


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## Example Value


```
{
  "storeId": 5000,
  "transactionType": 1,
  "transactionId": 9834135,
  "adjustments": [
    {
      "itemId": "55001234",
      "quantity": 10,
      "reasonCode": "182",
      "statusCodeFrom": "TRBL",
      "statusCodeTo": "ATS",
      "adjustmentUser": "smith123",
      "adjustmentDate": "2025-02-11T07:19:05.154Z",
      "uins": [
        {
          "uin": "20343932434",
          "status": 1
        }
      ]
    }
  ]
}
```


## Schema — InvAdjustmentExtIdo

**Table 6-17 InvAdjustmentExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store shipping the goods. |
| transactionType | NA | number($int2)<br>example: 1 | The transaction type of a transaction associated to the adjustments. Valid values are:<br>1 - Auto Adjustment<br>2 - DSD Receiving<br>3 - Inventory Adjustmnet<br>4 - Point Of Sale<br>5 - RFID<br>6 - Stock Count<br>Enum: [ 1, 2, 3, 4, 5, 6 ] |


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**Table 6-17 (Cont.) InvAdjustmentExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| transactionId | NA | number($int15) example: 9834135 | The transaction identifier of a transaction associated to (or responsible for the create of) the adjustments. This will only be present if the adjustments all derive from the same transaction. |
| adjustments | NA | object | A collection of adjustments |

**Table 6-18 InvAdjustmentItemExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| quantity | NA | number($decimal(20,4)) example: 10 | The quantity of the adjustment. |
| reasonCode | NA | string($text4) example: 182 | The reason code for the adjustment. |
| statusCodeFrom | NA | string($text4) example: TRBL | The inventory disposition status is moved from. |
| statusCodeTo | NA | string($text4) example: ATS | The inventory disposition status is moved to. |
| adjustmentUser | NA | string($text128) example: smith123 | The user that confrimed the adjustment or transaction. |
| adjustmentDate | NA | string($date-time) | The date of the adjustment. |
| uins | NA | object | A collection of line items on the vendor return. |

**Table 6-19 UinExtIdo— Object**

| Element Name | Required | Required | Data Type/Example |
|---|---|---|---|
| uin | NA | string($text128) example: 20343932434 | The universal identifier number. |


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**Table 6-19 (Cont.) UinExtIdo— Object**

| Element Name | Required | Required | Data Type/Example |
|---|---|---|---|
| status | NA | number($int2) example: 1 | The status of the UIN. Valid values are:<br>1 - In Stock<br>2 - Sold<br>3 - Shipped To Warehouse<br>4 - Shipped To Store<br>5 - Reserved For Shipping<br>6 - Shipped To Vender<br>7 - Removed From Inventory<br>8 - Unavailable<br>9 - Missing<br>10 - In Receiving<br>11 - Customer Order Reserved<br>12 - Customer Order Fulfilled<br>13 - shipped To Finisher<br>99 - Unconfirmed<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 99 ] |

### Responses

This section describes the responses of the Adjustments API.

### Response Code: 204

No content.

# Integration with Manifesting Systems

In order for access to an external manifesting system to take place, the customer must first setup Carrier Type as "Third Party" and the Carrier Service (Manifest Type) must be Parcel (P). Configuration controls whether manifesting is done for a transfer to store, finisher, or warehouse. In addition, configuration controls manifesting for a return to vendor shipment or a customer order delivery.

Carrier services with manifest type of "O" (Other) and "H" (Home Fleet) do not go through the manifesting system. When Manifest Type is "O," EICS prompts the user to enter the carrier address where the shipment is to be sent for fulfillment. Manifest Type of "H" is within the company and therefore, does not prompt the user for an address.


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Some carriers require weight, dimension, or both values to be sent in the manifest payload. If so, the carrier's service should have either the weight indicator or carton dimension indicate set to active (or both) during their carrier service setup.

EICS supplies an outbound and inbound Shipment Manifest SOAP web service. The following are supported service operations:

A web service is used to send all the shipment information to the external manifesting system and also to receive close shipment requests from external systems.

A web service accepts requests from external systems to close shipments. It is used to find those "Submitted" shipments for the provided tracking ID, carrier, service and date, and dispatch those shipments.

> **Note**
>
> EICS supplies a WSDL and XSD that defines the web service, operation, and data content. This web service will need to be implemented either for the manifesting system or a plug-in set up.

**SOAP Service: ShipmentManifestService**

This web service notifies an external manifesting system that a manifest needs to be created.

| Service Operation | Description |
|---|---|
| createManifest | Requests the external manifesting system to create a new parcel manifest for an input transaction. |

**SOAP Service: StoreShipmentManifestService**

This web service receives a message from an external manifesting system that the items on the manifest have been picked up.

| Service Operation | Description |
|---|---|
| closeManifest | Instructs EICS that submitted shipments have been picked up by the carrier. |

# REST Service: Manifest

This is a manifest service integration definition. This service must be implemented by an external system that wants to receive manifesting calls from EICS in order to manifest a shipment. EICS will send all the shipping information to this service and receive back basic tracking information for the shipment. In order for access to an external manifesting system to take place, the customer must first setup Carrier Type as "Third Party" and the Carrier Service (Manifest Type) must be Parcel (P). Configuration controls whether manifesting is done for a transfer to store, finisher, or warehouse. In addition, configuration controls manifesting for a return to vendor shipment or a customer order delivery. Carrier services with manifest type of "O" (Other) and "H" (Home Fleet) do not go through the manifesting system. When Manifest Type is "O," EICS prompts the user to enter the carrier address where the shipment is to be sent for fulfillment. Manifest Type of "H" is within the company and therefore, does not prompt the user for an address. Some carriers require weight, dimension, or both values to be sent in


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the manifest payload. If so, the carrier's service should have either the weight indicator or carton imension indicate set to active (or both) during their carrier service setup.

## Obtain Shipment Manifest

Obtain shipment manifest information from the external system.

### Method

`POST`

### URL

`/manifest`

### Request Parameters

There are no request parameters.

The request body is application/json.

### Example Value


```
{
  "shipmentType": 1,
  "shipmentId": 11111,
  "storeId": 5000,
  "customerOrderId": "789012",
  "shippingCost": 54.23,
  "shippingCostCurrency": "USD",
  "carrierCode": "UPS",
  "carrierServiceCode": "2DAY",
  "packageHeight": 6,
  "packageWidth": 6,
  "packageLength": 6,
  "packUom": "CM",
  "packageWeight": 5.5,
  "packageWeightUom": "LBS",
  "deliveryDate": "2025-02-07T12:51:37.859Z",
  "printerUri": null,
  "userName": "smith123",
  "storeAddress": {
    "addressType": 1,
    "name": "Jane Smith",
    "address1": "7th Aveneue North",
    "address2": "Baker's Apartment Building",
    "address3": "Apartment 28A",
    "city": "Sunnyside",
    "county": "Vale",
    "stateCode": "WI",
```



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```
    "countryCode": "USA",
    "postalCode": "55555"
  },
  "storeContact": {
    "firstName": "John",
    "lastName": "Smith",
    "fullName": "John Smith",
    "companyName": "Speedy, Inc.",
    "contactEmail": "john.smith@provider.com",
    "contactFax": "A",
    "contactPhone": "(555) 555-5555",
    "contactPhoneType": 1
  },
  "destinationAddress": {
    "addressType": 1,
    "name": "Jane Smith",
    "address1": "7th Aveneue North",
    "address2": "Baker's Apartment Building",
    "address3": "Apartment 28A",
    "city": "Sunnyside",
    "county": "Vale",
    "stateCode": "WI",
    "countryCode": "USA",
    "postalCode": "55555"
  },
  "destinationContact": {
    "firstName": "John",
    "lastName": "Smith",
    "fullName": "John Smith",
    "companyName": "Speedy, Inc.",
    "contactEmail": "john.smith@provider.com",
    "contactFax": "A",
    "contactPhone": "(555) 555-5555",
    "contactPhoneType": 1
  },
  "billingAddress": {
    "addressType": 1,
    "name": "Jane Smith",
    "address1": "7th Aveneue North",
    "address2": "Baker's Apartment Building",
    "address3": "Apartment 28A",
    "city": "Sunnyside",
    "county": "Vale",
    "stateCode": "WI",
    "countryCode": "USA",
    "postalCode": "55555"
  },
  "billingContact": {
    "firstName": "John",
    "lastName": "Smith",
    "fullName": "John Smith",
    "companyName": "Speedy, Inc.",
    "contactEmail": "john.smith@provider.com",
    "contactFax": "A",
    "contactPhone": "(555) 555-5555",
    "contactPhoneType": 1
```



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```
  },
  "items": [
    {
      "itemId": "100637445",
      "itemDescription": "Raspberry Tea",
      "quantity": "15.5",
      "unitOfMeasure": "KG"
    }
  ]
}
```

## Schema — ManifestExtIdo

**Table 6-20 ManifestExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| shipmentType | NA | integer($int1) example: 1 | The type of shipment. Valid values are:<br>1 - Fulfillment Order Delivery<br>2 - Transfer Shipment<br>3 - Return To Vendor Shipment<br>Enum: [ 1, 2, 3 |
| shipmentId | NA | number($int12) example: 11111 | The unique identifier of the vendor shipment. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store shipping the inventory. |
| customerOrderId | NA | string($text128) example: 789012 | The customer order number. |
| shippingCost | NA | number($decimal(12,4)) example: 54.23 | The amount of a delivery charge of the shipment. |
| shippingCostCurrency | NA | string($text3) example: USD | The currency code of the delivery charge. |
| carrierCode | NA | string($text4) example: UPS | The carrier code of the carrier being used. |
| carrierServiceCode | NA | string($text6) example: 2DAY | The carrier service code of the service being used. |
| packageHeight | NA | number($decimal(12,4)) example: 6 | The height of the package in the package unit of measure. |
| packageWidth | NA | number($decimal(12,4)) example: 6 | The width of the package in the package unit of measure. |
| packageLength | NA | number($decimal(12,4)) example: 6 | The length of the package in the package unit of measure. |


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**Table 6-20 (Cont.) ManifestExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| packUom | NA | string($text4) example: CM | The unit of measure of the package dimensions. |
| packageWeight | NA | number($decimal(12,4)) example: 5.5 | The weight of the package in the weight unit of measure. |
| packageWeightUom | NA | string($text4) example: LBS | The unit of measure of the package weight. |
| deliveryDate | NA | string($date-time) | The delivery date of the shipment. |
| printerUri | NA | string($text300) example: null | The URI of the printer for a manifest. |
| userName | NA | string($text128) example: smith123 | A user associated to the shipment. |
| storeAddress | NA | object | store address |
| storeContact | NA | object | store contact |
| destinationAddress | NA | object | destination address |
| destinationContact | NA | object | destination contact |
| billingAddress | NA | object | billing address |
| billingContact | NA | object | billing contact |
| items | NA | object | A collection of line items on the shipment. |

**Table 6-21 ManifestAddressExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| addressType | NA | integer($int1) example: 1 | The type of the address. Valid values are:<br>1 - Business<br>2 - Billing<br>3 - Delivery<br>Enum: [ 1, 2, 3 ] |
| name | NA | string($text120) example: Jane Smith | The name of the contact at the address. |
| address1 | NA | string($text240) example: 7th Avenue North | The first line of the address. |
| address2 | NA | string($text240) example: Baker's Apartment Building | The second line of the address. |
| address3 | NA | string($text240) example: Apartment 28A | The third line of the address. |
| city | NA | string($text120) example: Sunnyside | The city of the address. |
| county | NA | string($text250) example: Vale | The county of the address. |


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**Table 6-21 (Cont.) ManifestAddressExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| stateCode | NA | string($text3) example: WI | The state code of the address. |
| countryCode | NA | string($text3) example: USA | The country code of the address. |
| postalCode | NA | string($text30) example: 55555 | The carrier code of the carrier being used. The postal code of the address. |

**Table 6-22 ManifestContactExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| firstName | NA | string($text120) example: John | The first name of the contact. |
| lastName | NA | string($text120) example: Smith | The last name of the contact. |
| fullName | NA | string($text120) example: John Smith | The full name of the contact. |
| companyName | NA | string($text120) example: Speedy, Inc. | The company name. |
| contactEmail | NA | string($text100) example: john.smith@provider.com | The email address of the contact. |
| contactFax | NA | string($text120) example: A | The fax number of the contact. |
| contactPhone | NA | string($text20) example: (555) 555-5555 | The phone number of the contact. |
| contactPhoneType | NA | integer($int1) example: 1 | The phone type of the phone number. Valid values are:<br>1 - Voice<br>2 - Work<br>3 - Fax<br>Enum: [ 1, 2, 3 ] |

**Table 6-23 ManifestItemExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 100637445 | The SKU number of the item. |
| itemDescription | NA | string($text400) example: Raspberry Tea | The description of the item. |
| quantity | NA | string($decimal(20,4)) example: 15.5 | The quantity being shipped. |


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**Table 6-23 (Cont.) ManifestItemExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| unitOfMeasure | NA | string($text4) example: KG | The unit of measure of the quantity being shipped. |

## Responses

This section describes the responses of the Obtain Shipment Manifest API.

## Response Code: 200

The request has been successful.

The media type is application/json.

Example Value

```
[
  {
    "shipmentType": 1,
    "shipmentId": 11111,
    "carrierCode": "UPS",
    "carrierServiceCode": "2DAY",
    "carrierTrackingNumber": "AZB100245683"
  }
]
```

Schema — ManifestTrackExtIdo

**Table 6-24 ManifestTrackExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| shipmentType | NA | integer($int1) example: 1 | The type of shipment. Valid values are:<br>1 - Fulfillment Order Delivery<br>2 - Transfer Shipment<br>3 - Return To Vendor Shipment<br>Enum: [ 1, 2, 3 ] |
| shipmentId | Na | number($int15) example: 11111 | The unique identifier of the shipment. |
| carrierCode | NA | string($text4) example: UPS | The carrier code of the carrier being used. |
| carrierServiceCode | NA | string($text6) example: 2DAY | The carrier service code of the service being used. |


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**Table 6-24 (Cont.) ManifestTrackExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| carrierTrackingNumber | NA | string($text128) example: AZB100245683 | The tracking number provided by the carrier. |

# Integration for Notifications

Notifications that are generated by the system can be sent to an external system. The service must be configured on the external services administration screen.

**SOAP Service: StoreExtNotificationService**

SOAP service and operations for sending notifications to an external system.

| Service Operation | Description |
|---|---|
| createNotification | Sends notification to external system. |

## REST Service: Notification (External)

This service publishes out the information about a notification (most often, an event that occurred in the system) to an external endpoint.

### Notification

Publishes out the information about a notification.

### Method

`POST`

### URL

`/notifications`

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the notification.


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## Example Value

```
{
  "storeId": 5000,
  "name": "Late Delivery",
  "description": "Delivery 123 did not arrive by Tuesday 13th.",
  "createDate": "2025-02-10T11:46:26.867Z",
  "createUser": "System",
  "transactionType": 1,
  "transactionId": 9834135
}
```

## Schema — NotificationExtIdo

**Table 6-25 NotificationExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 5000 | The identifier of the store shipping the goods. |
| name | NA | string($text400) example: Late Delivery | The name, title, or summary text of the notification. |
| description | NA | string($text2000) example: Delivery 123 did not arrive by Tuesday 13th. | The contents of the notification. |
| createDate | NA | string($date-time) | The date the notification was created. |
| createUser | NA | string($text128) example: System | The user that created the notification. |


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**Table 6-25 (Cont.) NotificationExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| transactionType | NA | number($int2) example:1 | The transaction type of the transaction associated to the notification. Valid values are:<br>1 - Customer Order<br>2 - Customer Order Pick<br>3 - Customer Order Delivery<br>4 - Customer Order Reverse Pick<br>5 - Direct Store Delivery Receiving<br>6 - Invenotry Adjustment<br>7 - Item Basket<br>8 - Replenishment Gap<br>9 - Shelf Adjustment<br>10 - Shelf Replenishment<br>11 - Stock Count<br>12 - Store Order<br>13 - Transfer<br>14 - Transfer Shipment<br>15 - Transfer Receiving<br>16 - Vendor Return<br>17 - Vendor Return Shipment<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 ] |
| transactionId | NA | number($int15) example: 9834135 | The transaction identifier of a transaction associated to (or responsible for the create of) the notification. |

### Responses

This section describes the responses of the Notification API.

### Response Code: 204

No content

# Integration of Pre-Shipment Notification

A pre-shipment notification contains the same information as a final shipment but is sent in advance of the shipment when the user submits the shipment, if submit and pre-shipment are enabled and configured in the system. EICS publishes this pre-shipment notification to a service endpoint which must be configured on the external service administration screen.

## REST Service: Pre-Shipment Notification (External)

This service publishes out the information about a shipment prior to its dispatch to an external endpoint.


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## Pre-Shipment Notice

Publishes out the information about a shipment.

### Method

`POST`

### URL

`/`

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the shipment.

### Example Value

```
{
  "shipmentType": 1,
  "storeId": 5000,
  "destinationLocationType": 1,
  "destinationLocationId": "6100",
  "asn": "ABC123456",
  "billOfLadingNumber": "AX4234234",
  "addressLine1": "123 Orange Street",
  "addressLine2": "PO Box 1234",
  "addressLine3": "c/o Intake Processing",
  "addressCity": "Nowheresville",
  "addressState": "MN",
  "addressPostalCode": "12345",
  "addressCountryCode": "US",
  "carrierCode": "DF",
  "carrierServiceCode": "2Day",
  "notes": [
    "Rush transfer",
    "Promotional goods"
  ],
  "containers": [
    {
      "containerId": "550077733",
      "externalContainerId": 2,
      "containerWeight": 10,
      "containerWeightUom": 10,
      "trackingNumber": "FXD124A3434",
      "items": [
```


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```
        {
          "itemId": "55001234",
          "quantity": 10,
          "documentId": "1234",
          "customerOrderNumber": "5666",
          "fulfillmentOrderNumber": "7888",
          "orderLineNumber": "9",
          "unavailable": "fakse",
          "uins": [
            {
              "uin": "20343932434",
              "status": 1
            }
          ]
        }
      ]
    }
  ]
}
```


## Schema — PreShipmentExtIdo

**Table 6-26 PreShipmentExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| shipmentType | NA | number($int2) example: 1 | The type of shipment. Valid values are:<br>1 - Fulfillment Order Delivery<br>2 - Transfer<br>3 - Vendor Return<br>Enum: [ 1, 2, 3 ] |
| storeId | NA | number($int10) example: 5000 | The identifier of the store shipping the goods. |
| destinationLocationType | NA | number($int2) example: 1 | The location type of the destination receiving the goods. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>4 - Supplier<br>5 - Customer<br>Enum: [ 1, 2, 3, 4, 5 ] |
| destinationLocationId | NA | string($text128) example: 6100 | The identifier of the destination location receiving the goods. |
| asn | NA | string($text128) example: ABC123456 | The advanced shipment notification number. |
| billOfLadingNumber | NA | string($text128) example: AX4234234 | The bill of lading number (or the ASN if no bill of lading exists). |


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**Table 6-26 (Cont.) PreShipmentExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| addressLine1 | NA | string($text240) example: 123 Orange Street | The first line of the address to ship to. |
| addressLine2 | NA | string($text240) example: PO Box 1234 | The second line of the address to ship to. |
| addressLine3 | NA | string($text240) example: c/o Intake Processing | The third line of the address to ship to. |
| addressCity | NA | string($text120) example: Nowheresville | The city of the address to ship to. |
| addressState | NA | string($text3) example: MN | The state of the address to ship to. |
| addressPostalCode | NA | string($text30) example: 12345 | The postal code of the address to ship to. |
| addressCountryCode | NA | string($text3) example: US | The country code of the address to ship to. |
| carrierCode | NA | string($text4) example: DF | The carrier code of the shipment carrier. |
| carrierServiceCode | NA | string($text6) example: 2Day | The carrier service code of the service being used. |
| notes | NA | string($text2000)] example: List [ "Rush transfer", "Promotional goods" ] | The notes associated to this shipment. |
| containers | NA | object | A collection of containers on the shipment. |

**Table 6-27 PreShipmentContainerExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| containerId | NA | string($text128) example: 550077733 | The container identifier. |
| externalContainerId | NA | number($int15) example: 2 | An external container identifier (possibly capturing a container identifier of an originating system other than SIOCS). |
| containerWeight | NA | number($decimal(20,4)) example: 10 | The weight of the container. |
| containerWeightUom | NA | number($decimal(20,4)) example: 10 | The unit of measure of the weight of the container. |


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**Table 6-27 (Cont.) PreShipmentContainerExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| trackingNumber | NA | string($text128) example: FXD124A3434 | The tracking number of the container. |
| items | NA | object | A collection of items within the container. |

**Table 6-28 PreShipmentItemExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| quantity | NA | number($decimal(20,4)) example: 10 | The quantity being shipped. |
| documentId | NA | string($text5)*example: 1234* | The document number of the document associated to this transfer, such as a transfer, allocation, or purchase order. |
| customerOrderNumber | NA | string($text5)*example: 5666* | The identifier of the customer order associated to this line item. |
| fulfillmentOrderNumber | NA | string($text5)*example: 7888* | The identifier of the fulfillment order associated to this line item. |
| orderLineNumber | NA | string($text5)*example: 9* | A customer order line number associated to this line item. |
| unavailable | NA | boolean example: false | True if this item is using unavailable inventory, false otherwise. |
| uins | NA | object | A collection of line items on the vendor return. |

**Table 6-29 UinExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| uin | NA | string($text128) example: 20343932434 | The universal identifier number. |


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**Table 6-29 (Cont.) UinExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| status | NA | number($int2) example: 1 | The status of the UIN. Valid values are:<br>1 - In Stock<br>2 - Sold<br>3 - Shipped To Warehouse<br>4 - Shipped To Store<br>5 - Reserved For Shipping<br>6 - Shipped To Vender<br>7 - Removed From Inventory<br>8 - Unavailable<br>9 - Missing<br>10 - In Receiving<br>11 - Customer Order Reserved<br>12 - Customer Order Fulfilled<br>13 - shipped To Finisher<br>99 - Unconfirmed<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 99 ] |

### Responses

This section describes the responses of the Pre-Shipment Notification API.

### Response Code: 204

No content

# Integration for Sales Forecast

EICS can retrieves sales forecast information about items from an external third-party system. The service must be configured in the external services configuration administration screen.

**SOAP Service: SalesForecastService**

SOAP service that defines operations the external third-party system must implement.

| Service Operation | Description |
|---|---|
| retrieveSalesForecast | Retrieves sales forecast data for the next 30 days for a particular item and store. |

# Integration of Shipments

EICS publishes out a shipment notification (ASN) to an external endpoint when the shipment is confirmed. The service must be configured on the external services administration screen.


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# REST Service: Shipment Notification (External)

This services is defined to send a notice of a shipment (ASN - Advance Shipment Notification). This indicates the shipment has taken place and the goods are on the way.

## Shipment Notice

Publishes out the information about a shipment.

### Method

`POST`

### URL

`/shipments`

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the shipment.

### Example Value

```
{
  "shipmentType": 1,
  "storeId": 5000,
  "destinationLocationType": 1,
  "destinationLocationId": "6100",
  "asn": "ABC123456",
  "billOfLadingNumber": "AX4234234",
  "dispatchDate": "2025-02-11T09:03:21.830Z",
  "addressLine1": "123 Orange Street",
  "addressLine2": "PO Box 1234",
  "addressLine3": "c/o Intake Processing",
  "addressCity": "Nowheresville",
  "addressState": "MN",
  "addressPostalCode": "12345",
  "addressCountryCode": "US",
  "carrierCode": "DF",
  "carrierServiceCode": "2Day",
  "notes": [
    "Rush transfer",
    "Promotional goods"
  ],
  "containers": [
```


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```
    {
      "containerId": 550077733,
      "externalContainerId": "23483431",
      "containerWeight": 10,
      "containerWeightUom": "LB",
      "trackingNumber": "FXD124A3434",
      "items": [
        {
          "itemId": "55001234",
          "quantity": 10,
          "documentId": 138413,
          "customerOrderNumber": "934134",
          "fulfillmentOrderNumber": "43534134",
          "orderLineNumber": 1,
          "unavailable": "fakse",
          "uins": [
            {
              "uin": "20343932434",
              "status": 1
            }
          ]
        }
      ]
    }
  ]
}
```


## Schema — ShipmentExtIdo

**Table 6-30 ShipmentExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| shipmentType | NA | number($int2)<br>example: 1 | The type of shipment. Valid values are:<br>1 - Fulfillment Order Delivery<br>2 - Transfer<br>3 - Vendor Return<br>Enum: [ 1, 2, 3 ] |
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store shipping the goods. |
| destinationLocationType | NA | number($int2)<br>example: 1 | The location type of the destination receiving the goods. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>4 - Supplier<br>5 - Customer<br>Enum: [ 1, 2, 3, 4, 5 ] |


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**Table 6-30 (Cont.) ShipmentExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| destinationLocationId | NA | string($text128) example: 6100 | The identifier of the destination location receiving the goods. |
| asn | NA | string($text128) example: ABC123456 | The advanced shipment notification number. |
| billOfLadingNumber | NA | string($text128) example: AX4234234 | The bill of lading number (or the ASN if no bill of lading exists). |
| dispatchDate | NA | string($date-time) | The date the shipment was dispatched. |
| addressLine1 | NA | string($text240) example: 123 Orange Street | The first line of the address to ship to. |
| addressLine2 | NA | string($text240) example: PO Box 1234 | The second line of the address to ship to. |
| addressLine3 | NA | string($text240) example: c/o Intake Processing | The third line of the address to ship to. |
| addressCity | NA | string($text120) example: Nowheresville | The city of the address to ship to. |
| addressState | NA | string($text3) example: MN | The state of the address to ship to. |
| addressPostalCode | NA | string($text30) example: 12345 | The postal code of the address to ship to. |
| addressCountryCode | NA | string($text3) example: US | The country code of the address to ship to. |
| carrierCode | NA | string($text4) example: DF | The carrier code of the shipment carrier. |
| carrierServiceCode | NA | string($text6) example: 2Day | The carrier service code of the service being used. |
| notes | NA | string($text2000)] example: List [ "Rush transfer", "Promotional goods" ] | The notes associated to this shipment. |
| containers | NA | object | A collection of containers on the shipment. |

**Table 6-31 ShipmentContainerExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| externalContainerId | NA | string($text128) example: 23483431 | The identifier of the container if it originated in an external system. |
| containerWeight | NA | number($decimal(12,4)) example: 10 | The weight of the container. |


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**Table 6-31 (Cont.) ShipmentContainerExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| containerWeightUom | NA | string($text4) example: LB | The unit of measure of the weight of the container. |
| trackingNumber | NA | string($text128) example: FXD124A3434 | The tracking number of the container. |
| items | NA | object | A collection of items within the container. |

**Table 6-32 ShipmentItemExtIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| quantity | NA | number($decimal(20,4)) example: 10 | The quantity that was shipped. |
| documentId | NA | number($int15) example: 138413 | The identifier of a document (transfer, PO) it is associated to. |
| customerOrderNumber | NA | string($text128) example: 934134 | A customer order number of a customer order associated to the line item. |
| fulfillmentOrderNumber | NA | string($text128) example: 43534134 | A fulfillment order number of a customer order fulfillment associated to the line item. |
| orderLineNumber | NA | number($int15) example: 1 | The order line number of this item on the customer order. |
| unavailable | NA | boolean example: false | True if this item is using unavailable inventory, false otherwise. |
| uins | NA | object | A collection of UINs for this item. |

**Table 6-33 UinExtIdo— Object**

| Element Name | Required | Required | Data Type/Example |
|---|---|---|---|
| uin | NA | string($text128) example: 20343932434 | The universal identifier number. |


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**Table 6-33 (Cont.) UinExtIdo— Object**

| Element Name | Required | Required | Data Type/Example |
|---|---|---|---|
| status | NA | number($int2) example: 1 | The status of the UIN. Valid values are:<br>1 - In Stock<br>2 - Sold<br>3 - Shipped To Warehouse<br>4 - Shipped To Store<br>5 - Reserved For Shipping<br>6 - Shipped To Vender<br>7 - Removed From Inventory<br>8 - Unavailable<br>9 - Missing<br>10 - In Receiving<br>11 - Customer Order Reserved<br>12 - Customer Order Fulfilled<br>13 - shipped To Finisher<br>99 - Unconfirmed<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 99 ] |

### Responses

This section describes the responses of the Shipment Notice API.

### Response Code: 204

No content.

# Integration of Stock Count Schedules

With the product group schedule administration screen, you can create, update, and cancel a unit and amount stock count schedule. When you do so, EICS will publish information about that schedule to an external service endpoint if configured on the external service administration screen.

## REST Service: Stock Count Schedule (External)

This service publishes out the information about a stock count schedule to an external endpoint. This occurs whenever the state of the schedule is altered.


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## Schedule Updated

This service will be accessed when the stock count schedule is updated.

### Method

```
POST
```

### URL

```
/countschedules
```

### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the stock count schedule that was updated.

### Example Value

```
{
  "scheduleId": 123343434,
  "description": "Monthly Count",
  "startDate": "2025-04-15T11:56:27.545Z",
  "allItems": false,
  "storeIds": [
    5000,
    5010
  ],
  "hierarchies": [
    {
      "departmentId": 1000,
      "classId": 2000,
      "subclassId": 3000
    }
  ]
}
```

### Schema — StockCountScheduleExtIdo


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**Table 6-34 StockCountScheduleExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| scheduleId | NA | number($int8) example: 123343434 | The identifier of the stock count schedule. |
| description | NA | string($text250) example: Monthly Count | The description of the stock count schedule. |
| startDate | NA | string($date-time) | The date of the stock count. |
| allItems | NA | boolean example: false | True, if the schedule represents an all-item count, false if it represents a hierarchy count. |
| storeIds | NA | number($int10)] example: List [ 5000, 5010 ] | The store identifiers associated to the stock count schedule |
| hierarchies | NA | object | A collection of hierarchies the stock count is for. |

**Table 6-35 StockCountScheduleHierarchyExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| departmentId | NA | number($int12) example: 1000 | The department identifier. |
| classId | NA | number($int12) example: 2000 | The class identifier. |
| subclassId | NA | number($int12) example: 3000 | The subclass identifier. |

### Responses

This section describes the responses of the Schedule Updated API.

### Response Code: 204

No content.

## Schedule Canceled

This service will be accessed when the stock count schedule itself is cancelled.

### Method

POST


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## URL

```
/delete/{scheduleId}
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the stock count schedule that was canceled.

## Example Value

```
{
"scheduleId": 123343434,
"description": "Monthly Count",
"startDate": "2025-04-15T11:56:27.545Z",
"allItems": false,
"storeIds": [
  5000,
  5010
],
"hierarchies": [
  {
    "departmentId": 1000,
    "classId": 2000,
    "subclassId": 3000
   }
  ]
 }
```

## Schema — StockCountScheduleCancelExtIdo

**Table 6-36 StockCountScheduleCancelExtIdo - Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| scheduleId | NA | number($int8) example: 123343434 | The identifier of the stock count schedule. |
| description | NA | string($text250) example: Monthly Count | The description of the stock count schedule. |
| startDate | NA | string($date-time) | The date of the stock count. |

## Responses


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This section describes the responses of the Schedule Canceled API.

### Response Code: 204

No content.

# Integration for Store Order

When either a store order is approved in EICS, or when a new store order is created by EICS (either manually or system generated), a notification to a third-party item management can be sent. The endpoint service must be configured in the external service configuration administration screen. EICS does not send newly created store order notification for store orders created by an external system.

**SOAP Service: OrderApproveNotificationService**

Service has operations for both approval and create notifications.

| Service Operation | Description |
|---|---|
| orderRequestApproved | Sends notification to external item management system that the order request is approved. |

**StoreExtNotificationService**

When store order with external ID is approved, EICS sends notification to the external system.

This service is applicable only for externally created store orders.

| Service Operation | Description |
|---|---|
| createNotification | Sends notification to external system on approving the externally created store orders with its items information. |

## REST Service: Store Order (External)

Service has operations for both approval and create notifications.

### Approve Order

A notification that a store order generated in an external system has been approved by the store.

#### Method

```
POST
```

#### URL

```
/storeorders/approvals
```


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## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the store order that was approved.

## Example Value


```
{
  "orderId": 222345666,
  "storeId": 5000,
  "externalTransferId": "7000",
  "externalPurchaseOrderId": "8000",
  "requestedDeliveryDate": "2025-02-10T14:37:45.178Z",
  "approvedDate": "2025-02-10T14:37:45.178Z",
  "lineItems": [
    {
      "itemId": "55001234",
      "quantity": 5
    }
  ]
}
```


## Schema — StoreOrderApproveExtIdo

**Table 6-37 StoreOrderApproveExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderId | NA | number($int15) example: 222345666 | The internal system identifier of the store order. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store that will receive the goods. |
| externalTransferId | NA | string($text128) example: 7000 | An external transfer identifier that this store order is associated to if it is a transfer approval (from a warehouse). |
| externalPurchaseOrderId | NA | string($text128) example: 8000 | An external purchase order identifier that this store order is associated to if it is a purchase order approval (from a supplier). |
| requestedDeliveryDate | NA | string($date-time) | The date the goods should be delivered. |
| approvedDate | NA | string($date-time) | The date the store order was approved by the store. |
| lineItems | NA | object | A collection of line items on the store order. |


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**Table 6-38 StoreOrderApproveItemExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| quantity | NA | number($decimal(20,4)) example: 5 | The quantity approved. |

## Responses

This section describes the responses of the Approve Order API.

## Response Code: 204

No content

# Request Order

A notification of a request to generate a new order for goods.

## Method

`POST`

## URL

`/storeorders/requests`

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the store order that is being requested.

## Example Value

```
"orderId": 222345666,
"storeId": 5000,
"restrictSupplierId": 7000,
"restrictWarehouseId": 4000,
"restrictDepartmentId": 1000,
"restrictClassId": 2000,
```


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```
  "restrictSubclassId": 3000,
  "requestedDeliveryDate": "2025-02-10T15:26:28.424Z",
  "approvedDate": "2025-02-10T15:26:28.424Z",
  "lineItems": [
    {
      "itemId": "55001234",
      "quantity": 5,
      "caseSize": 2,
      "deliverySlotId": 5
    }
  ]
}
```

## Schema — StoreOrderRequestExtIdo

**Table 6-39 StoreOrderRequestItemExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| orderId | NA | number($int15) example: 222345666 | The internal system identifier of the store order. |
| storeId | NA | number($int10) example: 5000 | The identifier of the store that will receive the goods. |
| restrictSupplierId | NA | number($int12) example: 7000 | Items requested should be restricted to this supplier. |
| restrictWarehouseId | NA | number($int12) example: 4000 | Items requested should be restricted to this warehouse. |
| restrictDepartmentId | NA | number($int12) example: 1000 | Items requested should be restricted to this department. |
| restrictClassId | NA | number($int12) example: 2000 | Items requested should be restricted to this class. |
| restrictSubclassId | NA | number($int12) example: 3000 | Items requested should be restricted to this subclass. |
| requestedDeliveryDate | NA | string($date-time) | The date the goods should be delivered. |
| approvedDate | NA | string($date-time) | The date the request for goods was approved by the store. |
| lineItems | NA | object | A collection of line items on the store order. |

**Table 6-40 StoreOrderRequestItemExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |


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**Table 6-40 (Cont.) StoreOrderRequestItemExtIdo— Object**

| Element Name | Required | Data Type/ Example | Description |
|---|---|---|---|
| quantity | NA | number($decimal(20,4)) example: 5 | The quantity requested for delivery. |
| caseSize | NA | number($decimal(10,4)) example: 2 | The case size requested for delivery. |
| deliverySlotId | NA | number($int15) example: 5 | The identifier of the delivery time slot requested for the delivery of the item. |

### Responses

This section describes the responses of the Request Order API.

### Response Code: 204

No content

# Integration for Ticket Printing

When printing tickets, EICS sends ticket information to an external system for printing. This web service needs to be implemented for printing tickets to a physical printer. In the JET administration screen for configuration external service, this endpoint can be configured to connect to either a SOAP or a REST service implementation.

**SOAP Ticket Printing**

The details of the SOAP ticket printing endpoint is captured in the associated web service WSDL.

**TicketPrintService**

| Service Operation | Description |
|---|---|
| printTickets | Sends item tickets to an external system to be printed. It must be implemented by the external system to receive the tickets. |

## REST Service: Ticket Printing

The service is an external ticket printing integration service definition. It defines an end an endpoint that can be developed by a third party in order which allows EICS to send item ticket printing information to that end point, which then handles the physical ticket printing. The endpoint inputs and outputs must be ahdered to by the provider.

### Publish Ticket

EICS will publish ticket information to print to this service.


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## Method

POST

## URL

/

## Request Parameters

There are no request parameters.

The request body is application/json.

## Example Value


```
{
  "storeId": 5000,
  "printerName": "ABX100",
  "printerAddress": "http:/printers/ABX100",
  "printerId": "555",
  "formatType": 1,
  "formatReference": "Small Label",
  "templateId": 5433700,
  "tickets": [
    {
      "ticketId": 11111,
      "itemId": "7890",
      "primaryUpc": "78901",
      "originType": 1,
      "sequenceNumber": 12,
      "ticketCount": 1,
      "printQuantity": 12,
      "shortDescription": "Short description",
      "longDescription": "Long description",
      "shortDescriptionLanguage": "Translated short description",
      "longDescriptionLanguage": "Translated long description",
      "diffType1": "DiffType1",
      "diffType2": "DiffType2",
      "diffType3": "DiffType3",
      "diffType4": "DiffType4",
      "diffDescription1": "Diff1",
      "diffDescription2": "Diff2",
      "diffDescription3": "Diff3",
      "diffDescription4": "Diff4",
      "departmentId": 1000,
      "departmentName": "Hats",
      "classId": 2000,
      "className": "Top Hats",
      "subclassId": 3000,
```



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```
      "subclassName": "Felt Top Hats",
      "priceCurrency": "USD",
      "priceValue": 4.99,
      "priceType": 1,
      "priceUom": "LBS",
      "priceActiveDate": "2025-09-09T13:26:27.929Z",
      "priceExpireDate": "2025-09-09T13:26:27.929Z",
      "overridePriceCurrency": "USD",
      "overridePriceValue": 4.99,
      "previousPriceCurrency": "USD",
      "previousPriceValue": 3.99,
      "previousPriceType": 1,
      "lowestMonthlyPriceCurrency": "USD",
      "lowestMonthlyPriceValue": 4.99,
      "lowestMonthlyPriceType": 1,
      "multiUnitPriceCurrency": "USD",
      "multiUnitValue": 4.99,
      "multiUnitUom": "EA",
      "multiUnitQuantity": 3,
      "countryOfManufacturer": "US",
      "udas": [
        {
          "name": "Temperature",
          "value": "30"
        }
      ]
    }
  ]
}
```


## Schema — TicketPrintRequestIdo

**Table 6-41 TicketPrintRequestIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | yes | number($int10)<br>example: 5000 | The identifier of the store. |
| printerName | yes | string($text200)<br>example: ABX100 | The name of the printer. |
| printerAddress | yes | string($text300)<br>example: http:/<br>printers/ABX100 | The URI (or network address) of the printer. |
| printerId | NA | string($text5)<br>example: 555 | The identifier of the printer. |
| formatType | yes | integer($int4)<br>example: 1 | The type of the ticket format to print. Valid values are:<br>1 - Item Ticket<br>2 - Shelf Label<br>Enum: [ 1, 2 ] |
| formatReference | NA | string($text255)<br>example: Small Label | A reference to the format content to use. |


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**Table 6-41 (Cont.) TicketPrintRequestIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| templateId | NA | integer($int12) example: 5433700 | The identifier of the template to use to print the tickets. |
| tickets | Yes | object | The tickets to print. |

**Table 6-42 TicketIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| ticketId | yes | number($int12) example: 11111 | The unique identifier of the ticket. |
| itemId | yes | string($text25) example: 7890 | The unique identifier of the item. |
| primaryUpc | NA | string($text25) example: 78901 | The primary Unit Product Code for the item. |
| originType | NA | integer($int4) example: 1 | The origin type. Valid values are:<br>1 - External<br>2 - Price Change<br>3 - Foundation<br>4 - Manual<br>5 - Promotional Price Change<br>6 - Clearance Price Change<br>7 - Permanent Price Chanage<br>8 - Reset Price Chanage<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8 ] |
| sequenceNumber | NA | integer($int3) example: 12 | The sequence number of a ticket within a ticket grouping. |
| ticketCount | NA | integer($int3) example: 1 | The number of instances of this ticket to print. |
| printQuantity | NA | number($decimal(12,4)) example: 12 | The quantity to be printed on the ticket. |
| shortDescription | NA | string($text255) example: Short description | The short description of the item. |
| longDescription | NA | string($text400) example: Long description | The long description of the item. |
| shortDescriptionLanguage | NA | string($text255) example: Translated short description | The short description of the item in the language of the store. |
| longDescriptionLanguage | NA | string($text400) example: Translated long description | The long description of the item in the language of the store. |


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**Table 6-42 (Cont.) TicketIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| diffType1 | NA | string($text10) example: DiffType1 | The description of the differentiator type for differentiator 1. |
| diffType2 | NA | string($text10) example: DiffType2 | The description of the differentiator type for differentiator 2. |
| diffType3 | NA | string($text10) example: DiffType3 | The description of the differentiator type for differentiator 3. |
| diffType4 | NA | string($text10) example: DiffType4 | The description of the differentiator type for differentiator 4. |
| diffDescription1 | NA | string($text255) example: Diff1 | The description of the differentiator 1 for the item. |
| diffDescription2 | NA | string($text255) example: Diff2 | The description of the differentiator 2 for the item. |
| diffDescription3 | NA | string($text255) example: Diff3 | The description of the differentiator 3 for the item. |
| diffDescription4 | NA | string($text255) example: Diff4 | The description of the differentiator 4 for the item. |
| departmentId | NA | integer($int12) example: 1000 | The department identifier of the item. |
| departmentName | NA | string($text360) example: Hats | The department name of the item. |
| classId | NA | integer($int12) example: 2000 | The class identifier of the item. |
| className | NA | string($text360) example: Top Hats | The class name of the item. |
| subclassId | NA | integer($int12) example: 3000 | The subclass identifier of the item. |
| subclassName | NA | string($text360) example: Felt Top Hats | The subclass name of the item. |
| priceCurrency | NA | string($text3) example: USD | The currency code of the ticket price. |
| priceValue | NA | number($decimal(12,4)) example: 4.99 | The amount of the ticket price. |
| priceType | NA | integer($int3) example: 1 | The type of the ticket price. Valid values are:<br>1 - Permanent<br>2 - Promotional<br>3 - Clearance<br>4 - Clearance Reset<br>Enum: [ 1, 2, 3, 4 ] |
| priceUom | NA | string($text4) example: LBS | The unit of measure of the price. |


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**Table 6-42 (Cont.) TicketIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| priceActiveDate | NA | string($date-time) | The date the ticket price became active. |
| priceExpireDate | NA | string($date-time) | The date the ticket price expires. |
| overridePriceCurrency | NA | string($text3) example: USD | The override price currency code. |
| overridePriceValue | NA | number($decimal(12,4)) example: 4.99 | The override price amount. |
| previousPriceCurrency | NA | string($text3) example: USD | The currency code of the previous price. |
| previousPriceValue | NA | number($decimal(12,4)) example: 3.99 | The amount of the previous price. |
| previousPriceType | NA | integer($int3) example: 1 | The price type of the previous type. Valid values are:<br>1 - Permanent<br>2 - Promotional<br>3 - Clearance<br>4 - Clearance Reset<br>Enum: [ 1, 2, 3, 4 ] |
| lowestMonthlyPriceCurrency | NA | string($text3) example: USD | The currency code of the lowest monthly price. |
| lowestMonthlyPriceValue | NA | number($decimal(12,4)) example: 4.99 | The amount of the lowest monthly price. |
| lowestMonthlyPriceType | NA | integer($int3) | The price type of the lowest monthly price. Valid values are:<br>1 - Permanent<br>2 - Promotional<br>3 - Clearance<br>4 - Clearance Reset<br>Enum: [ 1, 2, 3, 4 ] |
| multiUnitPriceCurrency | NA | string($text3) example: USD | The currency code of the ticket's multi-unit price. |
| multiUnitValue | NA | number($decimcal(12, 4)) example: 4.99 | The amount of the ticket's multi-unit price. |
| multiUnitUom | NA | string($text3) example: EA | The unit of measure of the ticket's multi-unit price. |
| multiUnitQuantity | NA | number($decimal(12,4)) example: 3 | The multi-unit quanitty associated to the price. |
| countryOfManufacturer | NA | string($text3) example: US | The two-letter country code denoting the country of manufacture for the item. |
| udas | NA | object | udas |


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**Table 6-43 TicketUdaIdo - Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| name | NA | string($text128) example: Temperature | The name of the user defined attribute. |
| value | NA | string($text128) example: 30 | The value of the user defined attribute |

### Responses

This section describes the responses of the Publish TicketAPI.

### Response Code: 204

No content

# Integration of Transfers

When changes occur to transfer documents, EICS publishes the updated transfer to an external service. This occurs when the transfer stock quantities are altered or the transfer status changes. The service must be configured on the external services administration screen.

## REST Service: Transfer Status (External)

This service publishes out the information about changes to a transfer document to an external endpoint. This occurs when the transfer stock quantities are altered or the transfer status changes.

### Status Update

When the transfer status or quantities are altered, this operation is called to notify an external system of the state of the transfer.

### Method

`POST`

### URL

`/tsfstatus`

### Request Parameters

There are no request parameters.


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The request body is application/json.

Details about the transfer that was altered.

## Example Value


```
{
  "transferId": 3413412,
  "externalTransferId": "3464435",
  "distroNumber": "3464435",
  "sourceType": 1,
  "sourceId": 5000,
  "destinationType": 1,
  "destinationId": 5100,
  "status": 1,
  "contextCode": "BAC",
  "contextValue": "Temporary Remodel",
  "unavailable": false,
  "customerOrderNumber": "83233434",
  "fulfillmentOrderNumber": "CAD",
  "requestDate": "2025-02-11T13:00:29.658Z",
  "approveDate": "2025-02-11T13:00:29.658Z",
  "items": [
    {
      "itemId": "55001234",
      "quantityRequested": 10,
      "quantityApproved": 10,
      "quantityShipping": 5,
      "quantityShipped": 5,
      "caseSize": 100
    }
  ]
}
```


## Schema — TransferExtIdo

**Table 6-44 TransferExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| transferId | NA | number($int15)<br>example: 3413412 | The identifier of the transfer. |
| externalTransferId | NA | string($text128)<br>example: 3464435 | The external identifier of the transfer if it originated in an external system. |
| distroNumber | NA | string($text128)<br>example: 3464435 | The distro number of the transfer. |


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**Table 6-44 (Cont.) TransferExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| sourceType | NA | number($int2) example: 1 | The location type of the source location shipping the goods. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| sourceId | NA | number($int10) example: 5000 | The identifier of the location shipping the goods. |
| destinationType | NA | number($int2) example: 1 | The location type of the destination location receiving the goods. Valid values are:<br>1 - Store<br>2 - Warehouse<br>3 - Finisher<br>Enum: [ 1, 2, 3 ] |
| destinationId | NA | number($int10) example: 5100 | The identifier of the location receiving the goods. |
| status | NA | number($int2) example: 1 | The current status of the transfer. Valid values are:<br>1 - New Request<br>2 - Requested<br>3 - Request In Progress<br>4 - Rejected<br>5 - Canceled Request<br>6 - Transfer In Progress<br>7 - Approved<br>8 - In Shipping<br>9 - Completed<br>10 - Cancelled<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] |
| contextCode | NA | string($text6) example: BAC | The context code of a context associated to the transfer. |
| contextValue | NA | string($text25) example: Temporary Remodel | A value associated with the context. |


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**Table 6-44 (Cont.) TransferExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| unavailable | NA | boolean example: false | True indicates a transfer for unavailable quantities, false indicates that transfer is for available quantities. |
| customerOrderNumber | NA | string($text128) example: 83233434 | The customer order number of a customer order associated to the transfer. |
| fulfillmentOrderNumber | NA | string($text128) example: CAD | The fulfillment order number of a customer order associated to the transfer. |
| requestDate | NA | string($date-time) | The date when the transfer was requested. |
| approveDate | NA | string($date-time) | The date the transfer was approved. |
| items | | object | A collection of line items within the container. |

**Table 6-45 TransferItemExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| quantityRequested | NA | number($decimal(20,4)) example: 10 | The quantity that has been requested. |
| quantityApproved | NA | number($decimal(20,4)) example: 10 | The quantity that has been approved. |
| quantityShipping | NA | number($decimal(20,4)) example: 5 | The quantity picked and in shipping. |
| quantityShipped | NA | number($decimal(20,4)) example: 5 | The quantity that has been shipped. |
| caseSize | NA | number($decimal(10,4)) example: 100 | The case size of the item on this transfer. |

## Responses

This section describes the responses of the Status Update API.

## Response Code: 204

No content.


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# Integration of Transfer Receipts

EICS publishes out a vendor delivery receipt (DCS receipt) to an external endpoint when the delivery is confirmed. The service must be configured on the external services administration screen.

## REST Service: Transfer Delivery Receipt (External)

This service publishes out the information about a transfer delivery receipt to an external endpoint. This occurs when the transfer delivery receipt is confirmed.

### Receipt Confirmed

When the transfer delivery receipt is confirmed, this information about the receipt is sent.

#### Method

`POST`

#### URL

`/tsfreceipts`

#### Request Parameters

There are no request parameters.

The request body is application/json.

Details about the transfer delivery receipt that was confirmed.

#### Example Value


```
{
  "storeId": 5000,
  "sourceType": 2,
  "sourceId": 7100,
  "receiptNumber": "A3DA",
  "containers": [
    {
      "cartonId": 55001234,
      "externalCartonId": "234342",
      "referenceCartonId": "6764747",
      "trackingNumber": "863413410",
      "receiptDate": "2025-02-11T11:51:15.169Z",
      "adjusted": false,
      "missing": false,
      "items": [
```



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```
        {
          "itemId": "55001234",
          "quantityExpected": 10,
          "quantityReceived": 10,
          "quantityDamaged": 5,
          "caseSize": 100,
          "unavailable": true,
          "documentType": 2,
          "documentId": 55001234,
          "customerOrderNumber": "143523465425",
          "fulfillmentOrderNumber": "134314",
          "uins": [
            {
              "uin": "20343932434",
              "status": 1
            }
          ]
        }
      ]
    }
  ]
}
```


## Schema — TransferReceiptExtIdo

**Table 6-46 TransferReceiptExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10)<br>example: 5000 | The identifier of the store receiving the goods. |
| sourceType | NA | number($int2)<br>example: 2 | The type of delivery. Valid values are:<br>1 - ASN<br>2 - PO<br>3 - DEX-NEX<br>4 - Manual<br>Enum: [ 1, 2, 3, 4 ] |
| sourceId | NA | number($int10)<br>example: 7100 | The location identifier of the location shipping the goods. |
| receiptNumber | NA | number($int12)<br>example: A3DA | The receipt number of the delivery. |
| containers | NA | object | A collection of containers on the delivery. |

**Table 6-47 TransferReceiptContainerExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| cartonId | NA | number($int12)<br>example: 55001234 | The system internal container identifier. |


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**Table 6-47 (Cont.) TransferReceiptContainerExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| externalCartonId | NA | string($text128) example: 234342 | An external system carton identifier for reference. |
| referenceCartonId | NA | string($text128) example: 6764747 | A reference identifier to an alternate container, such as a misdirected container. |
| trackingNumber | NA | string($text128) example: 863413410 | The tracking number of the container. |
| receiptDate | NA | string($date-time) | The date the container was received. |
| adjusted | NA | boolean example: false | True if the carton is adjusted from a previous receipt, false if the container is first receipt. |
| missing | NA | boolean example: false | True if the carton is missing from the receipt, false if it is received. |
| items | NA | object | A collection of line items within the container. |

**Table 6-48 TransferReceiptItemExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 55001234 | The SKU level item identifier. |
| quantityExpected | NA | number($decimal(20,4)) example: 10 | The quantity originally expected to be received. |
| quantityReceived | NA | number($decimal(20,4)) example: 10 | The quantity received (as not damaged) for the item in this container. |
| quantityDamaged | NA | number($decimal(20,4)) example: 5 | The quantity received as damage for the item in this container. |
| caseSize | NA | number($decimal(10,4)) example: 100 | The case size of the item on this receipt. |
| unavailable | NA | boolean example: true | True if the quantities were received as unavailable, false if they were received as available. Note that even if this value is true, damaged quantities will still be received as unavailable. |


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**Table 6-48 (Cont.) TransferReceiptItemExtIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| documentType | NA | number($int2)<br>example: 2 | The type of document this item is associated to. Valid values are:<br>1 - Allocation<br>2 - Transfer<br>Enum: [ 1, 2 |
| documentId | NA | number($int15)<br>example: 55001234 | The identifier of the document associated to this item on the delivery. |
| customerOrderNumber | NA | string($text128)<br>example: 143523465425 | The customer order number if associated to a customer order. |
| fulfillmentOrderNumber | NA | string($text128)<br>example: 134314 | The fulfillment order number if associated to a customer order. |
| unis | NA | object | A collection of uins within the item. |

**Table 6-49 UinExtIdo— Object**

| Element Name | Required | Required | Data Type/Example |
|---|---|---|---|
| uin | NA | string($text128)<br>example: 20343932434 | The universal identifier number. |


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**Table 6-49 (Cont.) UinExtIdo— Object**

| Element Name | Required | Required | Data Type/Example |
|---|---|---|---|
| status | NA | number($int2) example: 1 | The status of the UIN. Valid values are:<br>1 - In Stock<br>2 - Sold<br>3 - Shipped To Warehouse<br>4 - Shipped To Store<br>5 - Reserved For Shipping<br>6 - Shipped To Vender<br>7 - Removed From Inventory<br>8 - Unavailable<br>9 - Missing<br>10 - In Receiving<br>11 - Customer Order Reserved<br>12 - Customer Order Fulfilled<br>13 - shipped To Finisher<br>99 - Unconfirmed<br>Enum: [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 99 ] |

### Responses

This section describes the responses of the Receipt Confirmed API.

### Response Code: 204

No content.

# Integration of Order Available Stock On Hand

## REST Service: Customer Order Store Available Inventory (External)

This service sends changes to the available inventory of items for stores that have been marked as customer order allowable stores. In addition, a system flag for publishing customer order store available inventory must be selected.

### Available Inventory Update


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The current available inventory positions are sent to this service whenever the item available inventory changes for an item at the store.

## Method

```
POST
```

## URL

```
/
```

## Request Parameters

There are no request parameters.

The request body is application/json.

Details about the location and items and their current available quantities.

## Example Value

```
{
  "storeId": 5000,
  "items": [
    {
      "itemId": "76544400",
      "availableQuantity": 10
    }
  ]
}
```

## Schema — CoAvailableInventoryIdo

**Table 6-50 CoAvailableInventoryIdo — Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| storeId | NA | number($int10) example: 5000 | The identifier of the store receiving the goods. |
| items | NA | object | Items |

**Table 6-51 CoAvailableInventoryItemIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| itemId | NA | string($text25) example: 76544400 | The identifier of the item being updated. |


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**Table 6-51 (Cont.) CoAvailableInventoryItemIdo— Object**

| Element Name | Required | Data Type/Example | Description |
|---|---|---|---|
| availableQuantity | NA | number($decimal(20,4)) example: 10 | The available quantity of the item at this store. |

## Responses

This section describes the responses of the Receipt Confirmed API.

## Response Code: 204

No content.


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7

# File Transfer Services

This chapter covers the following topics:


- Overview
- How to Call FTS APIs
- Handling Import Data Files
- Handling Export Data Files
- File Transfer Service UI
- FTS API Specifications
- File Transfer Service Troubleshooting
- Test FTS API using Postman


## Overview

Oracle Cloud Infrastructure Object Storage is an internet-scale, high-performance storage platform that offers reliable and cost-efficient data durability.

File Transfer Service (FTS) for the Store Inventory Cloud Services is available as JSON REST services. These APIs allows you to manage uploading and downloading files to Object Storage.

Access to files is through a Pre-Authenticated Request (PAR), which is a URL that requires no further authentication to upload or download to the application's object storage. To retrieve a PAR, you must use the appropriate FTS services.

The FTS APIs enables external application to import files to and export files from Object Storage used by the solutions.

These APIs provides following services:

- Ping to check FTS Service health
- List storage prefixes
- List files in object storage
- Move files from object storage
- Delete Files from object storage
- Request Upload PAR
- Request Download PAR

The general process flow below describes how the external solution application interacts with FTS service for transferring files to cloud solution service:

1. The external application gets an Oauth2 token from IDCS.
2. The external application makes an FTS request with the Oauth2 token to request Pre-Authentication.



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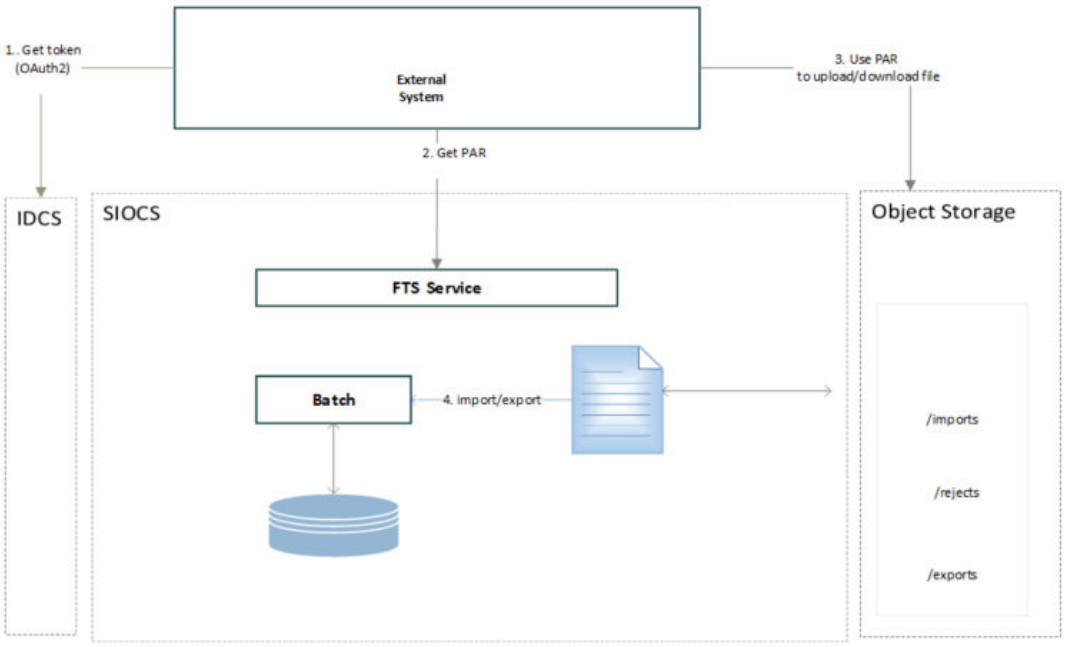
3. Once the PAR is received, the external application uploads a file to object storage using the URL included within the response.
4. The file uploads to application object storage and will be processed by the application batch jobs.

**Figure 7-1 File Transfer Service Process Flow**




In addition to public FTS endpoints, SIOCS also provides a File Transfer Service User Interface to view files in cloud solution object storage, to upload and download file interactively once logged into the SIOCS web client. Refer to File Transfer Service UI

# How to Call FTS APIs

To interact with FTS, you must use the REST APIs provided. The endpoints URLs are relative to cloud solution integration base URL, and endpoints also include the object storage bucket name which is allocated for your environment for file services.

- Service Base URL
- FTS Bucket Name
- FTS Endpoints
- Preparing for Authorization
- Retrieving Access Client Token
- FTS API Call Common Headers
- How to Use FTS API to find Object Storage Prefixes
- How to Use FTS APIs to Upload Files to Object Storage
- How to Use FTS API to List Files in Object Storage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- How to Use FTS APIs to Download Files from Object Storage

## Service Base URL

The Cloud service base URL follows the format:

https://rex.retail.<Region Name>.ocs.oraclecloud.com/<Customer Subnamespace>/siocs-int-services/api/

> **Note**
>
> The <Region Name> and <Customer Subnamespace> part of the URL should be replaced with the one specific to your environment. This will be the same as your cloud service Application URL provided in the Welcome email.

## FTS Bucket Name

For each customer environment, logical containers (buckets) are created in Object Storage for storing objects used by the cloud application. The file transfer bucket name is created and set when the environment is provisioned. The bucket name is required to move files between Oracle Cloud and your local system using file transfer services.

rgbu_rex_cnprod_<cust_env>

Example:

rgbu_rex_cnprod_rgbu-rex-custA-stg1-siocs

The ' File Transfer Service Bucket Name' is a restricted system configuration parameter on the EICS System Configuration screen. A customer Admin user (with the IDCS application role *sim_admin_users*) can perform the following steps to view the bucket name.

1. Log in to EICS web client as customer Admin user.
2. Go to **Configuration System**.
3. Check the values setting for name **File Transfer Service Bucket Name**.

## FTS Endpoints

Open API documents can be viewed via the following URL:

https://{external_load_balancer}/{cust_env}/siocs-int-services/public/api/Fts.json

The table below lists the API end points for different file operations. See FTS API Specifications for details.

**Table 7-1 FTS Endpoints**

| Service | Method | FTS Endpoint URLs |
|---|---|---|
| Ping | GET | {Service Base URL}/fts/ping |
| List Prefixes | GET | {Service Base URL}/fts/{FTS Bucket Name}/listprefixes |
| List Files | GET | {Service Base URL}/fts/{FTS Bucket Name}/listfiles |
| Move Files | POST | {Service Base URL}/fts/{FTS Bucket Name}/movefiles |


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**Table 7-1 (Cont.) FTS Endpoints**

| Service | Method | FTS Endpoint URLs |
|---|---|---|
| Delete Files | POST | {Service Base URL}/fts/{FTS Bucket Name}/delete |
| Request Upload PAR | POST | {Service Base URL}/fts/{FTS Bucket Name}/upload |
| Request Download PAR | POST | {Service Base URL}/fts/{FTS Bucket Name}/download |

> **Note**
>
> The example in this section uses curl command line tools. You may also use Postman to test the FTS REST APIs for testing purpose. Refer to Test FTS API using Postman.

# Preparing for Authorization

**FTS Client Id and Client Secret**

FTS APIs use OAuth2.0 for authorization.

To generate a token from IDCS, an IDCS application client will need to be created for you to use.

The Customer Administration users must create their own client credential IDCS application using the Oracle Retail Home Cloud Service. For additional details, refer to Oracle® Retail Home Administration Guide- Chapter: Oauth Application Configuration chapter – Section: Creating OAuth Client Applications.

The App name and scope that should be used for the FTS IDCS application creation should be environment specific using the format :

App Name- RGBU_SIOCS_<ENV>_EICS_FTS_INT

Scope- rgbu:siocs:integration-<ENV>

**Example:**

App Name- RGBU_SIOCS_STG1_ EICS_FTS_INT

Scope- rgbu:siocs:integration-STG1

Steps to retrieve the FTS Client ID and Client Secret from IDCS:

1. Customer's IDCS Administrator log into Oracle Identity Cloud Service (IDCS) console.
2. In the left navigation panel, select **Oracle Cloud Service.**
3. On the search field, type in "FTS".
4. From the search result, find your FTS client application for cloud environment.

   FTS Client ID is like: RGBU_SIOCS_<ENV>_EICS_FTS_INT_APPID

   (Example <ENV>: DEV1, STG1, PROD1 ..)


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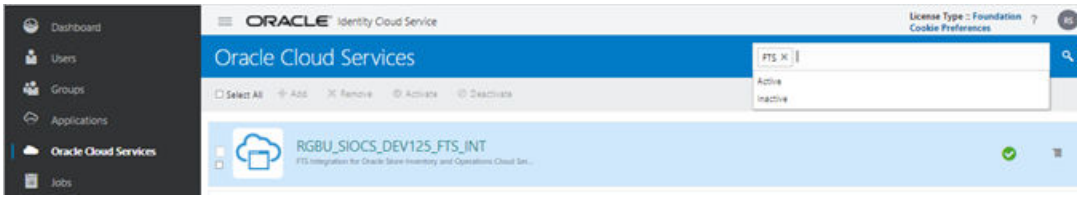
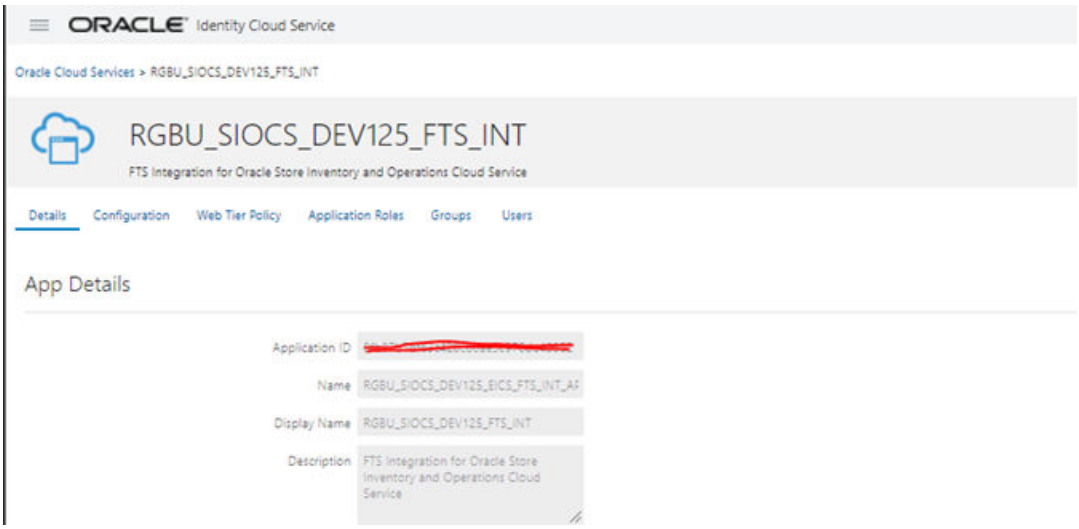
**Figure 7-2 FTS Client Application**



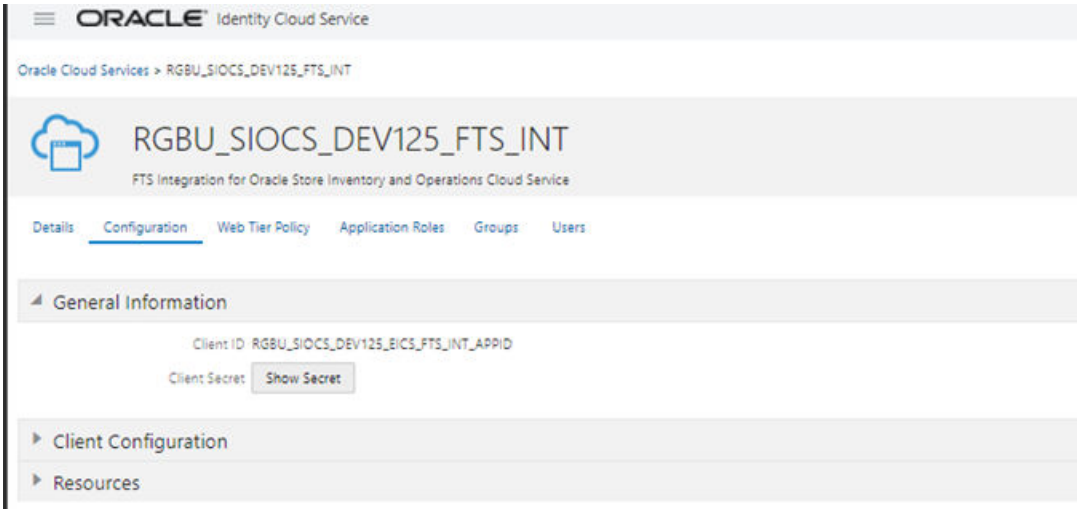

5. Click the client application, which will take you to the **Application Detail Panel**.

**Figure 7-3 Application Detail Panel**




6. Select the **Configuration** tab to view client Id.

**Figure 7-4 Configuration Tab**




7. Click **Show Secret** to see the password.

### OAuth Scopes for FTS

Custom environment specific scope.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The scope pattern that is used in the FTS IDCS application creation template is rgbu:siocs:integration-{env}

For example:

rgbu:siocs:integration-STG1

**IDCS OAuth2 Token URL**

IDCS token URL to obtain Oauth2 token.

Example IDCS_TOKENT_URL:

https://idcs-XXXXXXXX.identity.oraclecloud.com/

Using the above URL,

IDCS_TOKENT_URL = {IDCL_BASE_URL}/oauth2/v1/token

# Retrieving Access Client Token

The following is required in headers for making OAuth2.0 enabled REST Services.

- Please contact customer's IDCS administrator for FTS Client ID and Client Secret.
- An access token using the Client ID and secret from IDCS.

**Example: get access Token Use Curl**

```
export ACCESS_TOKEN="$(curl -u <Client ID>:<Secret> -H 'Content-Type:
application/x-www-form-urlencoded;charset=UTF-8' --request POST https://
<IDCS_BASE_URL>/oauth2/v1/token -d 'grant_type=client_credentials&scope=<Scope>'
| jq -r '.access_token')"
```

In above example, substitute the variables with proper values for your environment. See FTS Client Id and Client Secret section for obtaining Credential Client ID and Client Secret.

> **Note**
>
> You need to have curl and jq client tool installed on your client machine for using curl for testing.

For example:

```
export ACCESS_TOKEN="$(curl -u RGBU_SIOCS_ZZZZ_EICS_FTS_INT_APPID:<secret> -H
'Content-Type: application/x-www-form-urlencoded;charset=UTF-8' --request POST
https://idcs-ZZZZ/oauth2/v1/token -d
'grant_type=client_credentials&scope=rgbu:siocs:integration-X' | jq -r
'.access_token')"
```

# FTS API Call Common Headers

Each call to FTS Endpoint should contain the following Request headers:

- **Content-Type**: application/json
- **Accept**: application/json


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- **Accept**: Language: en
- **Authorization**: Bearer {ACCESS_TOKEN}

Before calling FTS API, you need to get the ACCESS_TOKEN use step Retrieving Access Client Token.

# How to Use FTS API to find Object Storage Prefixes

First you need to get the ACCESS_TOKEN use step Retrieving Access Client Token, then you may call the endpoint List Prefixes as below:

**Sample Request:**

```
curl --request GET https://rex.retail.<Region Name>.ocs.oraclecloud.com/<Customer
Subnamespace>/ /siocs-int-services/api/fts/vvvvv-siocs/listprefixes -H 'content-
type: application/json' -H 'Accept: application/json' -H 'Accept-Language: en' -H
"Authorization: Bearer ${ACCESS_TOKEN}"
```

**Sample Response:**

```
{"values":["archives","rejects","imports","exports"]}
```

# How to Use FTS APIs to Upload Files to Object Storage

- Step1: Request upload PAR
- Step2: Use PAR to upload data files to Object Storage

## Step1: Request upload PAR

First get the ACCESS_TOKEN use step Retrieving Access Client Token, then call the endpoint Request Upload PAR as below:

**Sample Request:**

```
curl --request POST https://rex.retail.<Region Name>.ocs.oraclecloud.com/
<Customer Subnamespace>/ /siocs-int-services/api/fts/{bucketname}/upload -H
'content-type: application/json' -H 'Accept: application/json' -H 'Accept-
Language: en' -H "Authorization: Bearer ${ACCESS_TOKEN}" -d "{\"listOfFiles\":
[{\"storagePrefix\": \"imports\",\"fileName\": \"EXTPC_1.dat\"},
{\"storagePrefix\": \"imports\",\"fileName\": \"RFID_1.dat\"}]}"
```

**Sample Response:**

```
{"par-List":[{"id":"zzzzzzz/:imports/
EXTPC_1.dat","name":"EXTPC_1.dat","accessUri":"https://objectstorage.us-ZZZ-
siocs/o/imports/
EXTPC_1.dat","accessType":"ObjectWrite","timeExpires":"2022-02-13T21:39:40.265Z",
"timeCreated":"2022-02-13T21:34:40.329Z","objectName":"imports/EXTPC_1.dat"},
{"id":"ZZZZ:imports/RFID_1.dat","name":"RFID_1.dat","accessUri":"https://zzzz-
siocs/o/imports/
RFID_1.dat","accessType":"ObjectWrite","timeExpires":"2022-02-13T21:39:40.411Z","
timeCreated":"2022-02-13T21:34:40.472Z","objectName":"imports/RFID_1.dat"}]}
```


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## Step2: Use PAR to upload data files to Object Storage

Use the accessUri returned in the get PAR response to upload the data file.

**Sample Request:**

```
curl https://ZZZZZ-siocs/o/imports/RFID_1.dat --upload-file C:\\temp\\RFID_1.dat
```

# How to Use FTS API to List Files in Object Storage

First get the ACCESS_TOKEN using step Retrieving Access Client Token, then call the endpoint List Files as below:

**Sample Request:**

```
curl --request GET https://<external_load_balancer>/<cust_ env>/siocs-int-
services/api/fts//<bucketname>/listfiles?contains=RFID -H 'content-type:
application/json' -H 'Accept: application/json' -H 'Accept-Language: en' -H
"Authorization: Bearer ${ACCESS_TOKEN}"
```

**Sample Response:**

```
{"lim-it":999,"count":1,"offset":0,"hasMore":false,"resultSet":[{"name":"imports/
RFID_1.dat","createdDate":"2022-02-13T21:35:26Z","modifiedDate":"2022-02-13T21:35
:26Z","scanStatus":"Passed","scanDate":"2022-02-13T21:35:56.187Z","md5":"xxxx==",
"version":"xxxxx","etag":"zzzzzzz","size":75}]}
```

# How to Use FTS APIs to Download Files from Object Storage

- Step1: Find what files are available for downloads
- Step2: Request Download PAR for downloading data files from Object Storage
- Step3: Download the file using the par returned from step2

## Step1: Find what files are available for downloads

First get the ACCESS_TOKEN using step Retrieving Access Client Token, then call the endpoint List Files as below:

**Sample Request:**

```
curl --request GET https://<external_load_balancer>/<cust_ env>//siocs-int-
services/api/fts/<bucketname>/listfiles?contains=RFID -H 'content-type:
application/json' -H 'Accept: application/json' -H 'Accept-Language: en' -H
"Authorization: Bearer ${ACCESS_TOKEN}"
```

**Sample Response:**

```
{"lim-it":999,"count":1,"offset":0,"hasMore":false,"resultSet":[{"name":"imports/
RFID_1.dat","createdDate":"2022-02-13T21:35:26Z","modifiedDate":"2022-02-13T21:35
:26Z","scanStatus":"Passed","scanDate":"2022-02-13T21:35:56.187Z","md5":"xxxxx=="
,"version":"xxxxx","etag":"ZZZZZ","size":75}]}
```


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### Step2: Request Download PAR for downloading data files from Object Storage

First get the ACCESS_TOKEN using step Retrieving Access Client Token, then call the endpoint Request Download PAR as below:

**Sample Request:**

```
curl --request POST https://ZZZZZZ-siocs/siocs-int-services/internal/fts/
rgbu_rex_cndevcorp_rgbu-rex-rgbu-dev125-siocs/download -H 'content-type:
application/json' -H 'Accept: application/json' -H 'Accept-Language: en' -H
"Authorization: Bearer ${ACCESS_TOKEN}" -d "{\"listOfFiles\":
[{\"storagePrefix\": \"imports\",\"fileName\": \"RFID_1.dat\"}]}"
```

**Sample Response:**

```
{"par-List":[{"id":"i91P0nFIIsgj05qrUH2ibTZ2npmbTdq1TKsGtWOerAYaE6/MYZE7840lR/
QEhaFk:imports/RFID_1.dat","name":"RFID_1.dat","accessUri":"https://
objectstorage.us-phoenix-1.oraclecloud.com/p/
ZG89KsLS_5SY7D2p7nVQt8KfJ6rLJ40FSmI97zASLRK2VrsICbvoRP0bgoQGxk3S/n/ZZZZZ-siocs/o/
imports/RFID_1.dat","accessType":"ObjectRead","timeEx-
pires":"2022-02-13T23:07:00.962Z","timeCreated":"2022-02-13T23:02:01.105Z","objec
tName":"imports/RFID_1.dat"}]}
```

### Step3: Download the file using the par returned from step2

```
curl -o <destinationFileName> -X GET <PAR>
```

For example:

```
curl -o RFID_1_download.dat -X GET https://ZZZZZ-siocs/o/imports/RFID_1.dat
```

# Handling Import Data Files

This section describes the general steps for an external solution application to transfer batch data files from external system to cloud application object storage.

The data to be processed can be provided as a single data file, or a zip file contains multiple data files.

The application batch imports the inbound data files from Object Storage, after the files have passed an anti-virus and malware scan. Once the files are downloaded from Object Storage, the batch process deletes the files from Object Storage to ensure it is not re-processed in next batch run. Rejected records are placed in the rejects file when applicable.


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# Supported Import Data Files

**Table 7-2 Supported Import Data Files**

| File Name | Description | File Layout |
|---|---|---|
| Clearance File Import | The file is processed by Clearance File Import Batch.<br>For additional details, see Batches. | Filename Format:<br>Clearance_Tx_<YYYYMMddHHMMss>.csv<br>See Appendix: Batch File Layout Specifications for details. |
| Initial Inventory Import File | The file is processed by Initial Inventory Import Batch.<br>For additional details, see Batches. | File name prefix: EXTSTK_*<br>See Appendix: Batch File Layout Specifications for details. |
| Price Change File Import | The file is processed by Price Change File Import Batch.<br>For additional details, see Batches. | Filename Format:<br>PriceChange_Tx_<YYYYMMddHHMMss>.csv<br>See Appendix: Batch File Layout Specifications for details. |
| ReSA Import File | The file is processed by Retail Sale Audit Import Batch.<br>For additional details, see Batches. | Zip Filename Format<br>SIMT_< YYYYMMDDHH24MISS>.zip<br>See Appendix: Batch File Layout Specifications for details. |
| RFID Import File | The file is processed by Third Party RFID Import Batch.<br>For additional details, see Batches. | Zip Filename Format<br>RFID_<YYYYMMDDHH24MISS>.zip<br>See Appendix: Batch File Layout Specifications for details. |
| Store Sequence Import | The file is processed by Store Sequence Import Batch.<br>For additional details, see Batches. | Filename Format:<br>SSEQ date in YYYYMMDDHH24MISS format>_<loc id>.dat<br>See Appendix: Batch File Layout Specifications for details. |
| Third Party Price Import File | The file is processed by Third Party Price File Import Batch.<br>For additional details, see Batches. | Zip Filename Format<br>EXTPC_<YYYYMMDDHH24MISS>.zip<br>See Appendix: Batch File Layout Specifications for details. |
| Third Party Stock Count Import File | The file is processed by Third Party Stock Count Import Batch.<br>For additional details, see Batches. | Zip Filename Format<br>STK_<YYYYMMDDHH24MISS>.zip<br>See Appendix: Batch File Layout Specifications for details. |

# Upload Import Data Files to Object Storage

To upload data files to object storage, the external solution application needs to perform following steps:

1. The external application gets the Oauth2 token from IDCS.
2. The external application makes an FTS request with the Oauth2 token to requesting Pre-Authentication.


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3. Once the PAR is received, the external application uploads the file to object storage using the URL included within the response.
4. Files uploaded to application object storage will be processed by cloud application batches.

# Handling Export Data Files

The following describes the supported export data files which are supported by cloud application. These export data files are available for external solution applications to download.

## Supported Export Data Files

**Table 7-3 Supported Export Data Files**

| Export File Name | Description | File Name Format |
|---|---|---|
| Inventory Extract File | The file is generated by via Inventory export batch.<br>For additional details, see Batches. | Filename Format:<br>PRODUCT_LOCATION_INV_*<br>See Appendix: Batch File Layout Specifications for details. |
| Stock Count Export File | The stock count export file is generated when a unit and amount stock count authorization is completed. | Zip Filename Format<br>STK_*<br>See Appendix: Batch File Layout Specifications for details. |

## Steps to Download Export Data Files from Object Storage

For retailer to download the export data files from application object storage, perform the following steps:

1. The external solution application gets the Oauth2 token from IDCS.
2. The external solution application calls the FTS service with the Oauth2 token to list the available export files in Object Storage which are generated by cloud app.
3. The external solution application calls the FTS service with the Oauth2 token, requesting Pre-Authentication to download files from object storage used by cloud app.
4. Once the PAR is received, the file is downloaded using the URL included within its response. A PAR is valid for 10 minutes. A download can take longer than 10 minutes, but it must be started within 10 minutes of the PAR being received.

# File Transfer Service UI

In addition to the FTS Wrapper Service REST Services, SIOCS File Transfer Service UI provides user to upload/download a file or view a list of files in object storage.

Security Consideration to access File Transfer Service UI:

- The customer admin user should be assigned the following PSRAF groups to access the FTS JET UI

  **PSRAF Users and PSRAF Admin Users**


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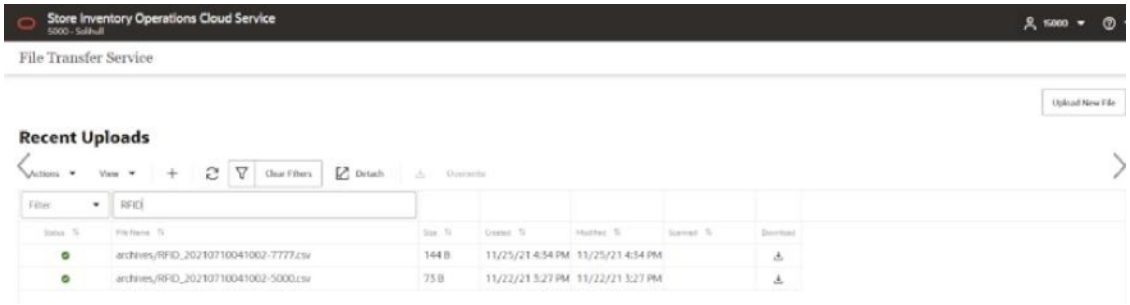
The naming convention for the group is <EICS_IDCS_APP_DISPLAY_NAME>.psraf_users where EICS_IDCS_APP_DISPLAY_NAME is the display name of EICS app on IDCS or OCI IAM.

The naming convention for the group is <EICS_IDCS_APP_DISPLAY_NAME>.psraf_admin_users where EICS_IDCS_APP_DISPLAY_NAME is the display name of EICS app on IDCS or OCI IAM

- Security Permission **Access File Transfer Service** must be assigned to user who needs to access the File Transfer Service UI.
- The IDCS or OCI IAM Application role **admin_users** is required for the user to perform the upload/download operations.

**Figure 7-5 File Transfer Service UI**

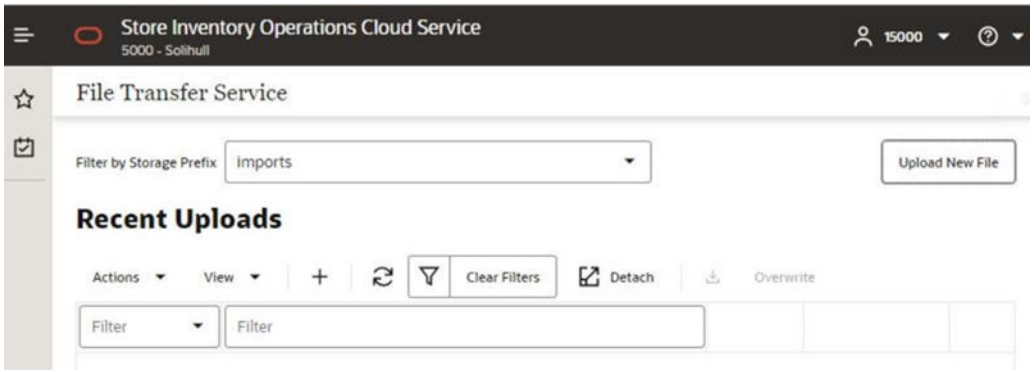



The main form lists the recently uploaded files.

Actions:

- To filter the files by store prefix, select a file storage prefix.
- To filter by file name by choosing the **Actions** choice selector on the screen.
- To upload new files, click **Upload New File** button:

**Figure 7-6 Upload New File**




In the **Upload New File** popup dialog, choose storage prefix **Imports** and click **Add File** button.


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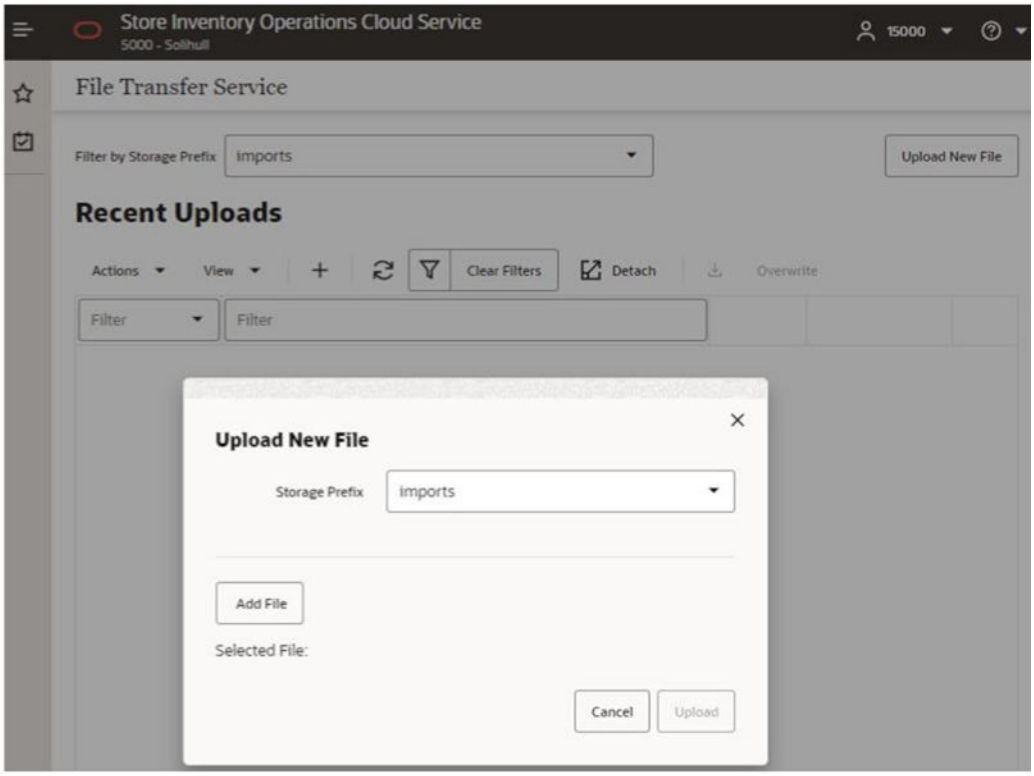
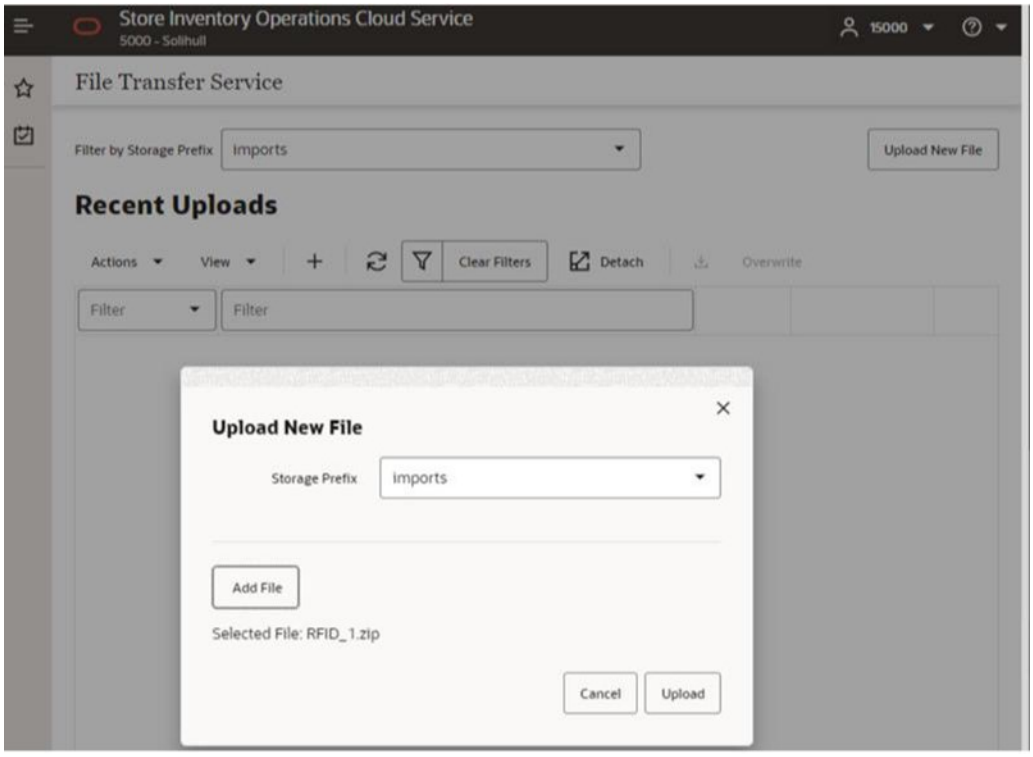
**Figure 7-7 Upload New File Dialog**




Next, choose files from your client machine, then click **Upload**:

**Figure 7-8 File Added**





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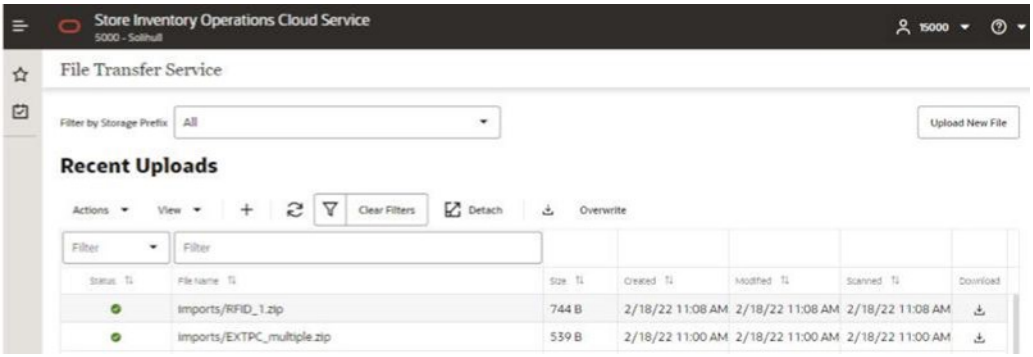
Once the uploaded file has passed a virus scan, the file is ready for a cloud application batch to import the file from object storage into the application.

**Figure 7-9 Recent Uploads**




# FTS API Specifications

This section describes FTS API specifications.

- Ping
- List Prefixes
- List Files
- Move Files
- Delete Files
- Request Upload PAR
- Request Download PAR

## Ping

Returns the status of the service and provides an external health-check.

| Method | GET |
|---|---|
| Endpoint | {Service Base URL}/fts/ping |
| HTTP Header | See Common Request Headers in making FTS API Call Common Headers. |
| Parameters | [ { "name": "pingMessage", "description": "Optional value to be included in the ping response.", "in": "query", "required": false, "schema": { "type": "string" } } ], |
| Request Body | None |
| Response | "200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation."<br>} |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# List Prefixes

Returns a list of the known storage prefixes. These are analogous to directories and are restricted to predefined choices per service. SIOCS has list of pre-defined storage prefixes: import, exports, rejects and archives.

| Method | GET |
|---|---|
| Endpoint | {Service Base URL}/fts/{FTS Bucket Name}/listprefixes |
| HTTP Header | See Common Request Headers in making FTS API Call Common Headers. |
| Parameters | [<br>{<br>"name": "bucketName",<br>"description": "Bucket identifier.",<br>"in": "path",<br>"required": true,<br>"schema": {<br>"type": "string"<br>}<br>}<br>], |
| Request Body | None |
| Response | A JSON array of strings containing the known prefixes.<br>{<br>"200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation."<br>}<br>} |

# List Files

Returns a list of the files within a given storage prefix.

| Method | GET |
|---|---|
| Endpoint | {Service Base URL}/fts/{FTS Bucket Name}/listfiles |
| HTTP Header | See Common Request Headers in making FTS API Call Common Headers. |


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| Method | GET |
| --- | --- |
| Parameters | { "name": "bucketName", "description": "Bucket identifier.", "in": "path", "required": true, "schema": { "type": "string" } }, { "name": "prefix", "description": "The object filter in object storage.", "in": "query", "required": false, "schema": { "type": "string" } }, { "name": "contains", "description": "The object filter in object storage.", "in": "query", "required": false, "schema": { "type": "string" } }, { "name": "scanStatus", "description": "The object filter in object storage.", "in": "query", "required": false, "schema": { "type": "string" } }, |


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| Method | GET |
|---|---|
| | {<br>"name": "offset",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "integer"<br>}<br>},<br>{<br>"name": "limit",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "integer"<br>}<br>},<br>{<br>"name": "sort",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "string"<br>}<br>}<br>], |
| Request Body | None |
| Response | A JSON resultSet containing array of files. For each file, there is metadata including: name, size, created and modified dates, scan status and date, scan output message.<br>{<br>"200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation."<br>} |

# Move Files

Moves one or more files between storage prefixes, while additionally allowing the name to be modified.


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| Method | POST |
|---|---|
| Endpoint | {Service Base URL}/fts/{FTS Bucket Name}/movefiles |
| HTTP Header | See Common Request Headers in making FTS API Call Common Headers. |
| Parameters | [<br>{<br>"name": "bucketName",<br>"description": "Bucket identifier.",<br>"in": "path",<br>"required": true,<br>"schema": {<br>"type": "string"<br>}<br>}<br>] |
| Request Body | {"listOfFiles": [ {"currentPath": { "storagePrefix": "string", "fileName": "string"},<br>"newPath": { "storagePrefix": "string", "fileName": "string" } } }} |

# Delete Files

Deletes one or more files.

| Method | POST |
|---|---|
| Endpoint | {Service Base URL}/fts/{FTS Bucket Name}/delete |
| HTTP Header | See Common Request Headers in making FTS API Call Common Headers. |
| Parameters | [<br>{<br>"name": "bucketName",<br>"description": "Bucket identifier.",<br>"in": "path",<br>"required": true,<br>"schema": {<br>"type": "string"<br>}<br>}<br>] |
| Request Body | A JSON array of files to be deleted. One or more pairs of storagePrefix and filename elements can be specified within the array. Required: true{ " {"listOfFiles": [ [ { " {"storagePrefix": "string", "fileName": "string" } ]} |
| Response | A JSON array of each file deletion attempted and the result.<br>{<br>"200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation." |


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# Request Upload PAR

Request PAR for uploading one or more files.

| Method | POST |
|---|---|
| Endpoint | {Service Base URL}/fts/{FTS Bucket Name}/upload |
| HTTP Header | See Common Request Headers in making FTS API Call Common Headers. |
| Parameters | [<br>{<br>"name": "bucketName",<br>"description": "Bucket identifier.",<br>"in": "path",<br>"required": true,<br>"schema": {<br>"type": "string"<br>}<br>} ] |
| Request Body | A JSON array of files to be uploaded. One or more pairs of storagePrefix and filename elements can be specified within the array.<br>Required: true<br>{ "listOfFiles":<br>[<br>{<br>"storagePrefix": "string",<br>"fileName": "string"<br>}<br>]<br>} |


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| Method | POST |
|---|---|
| Response | A parList containing an array containing elements corresponding to the request including the PAR accessUri and name of file.<br>{<br>"parList": [<br>{<br>"id": "string",<br>"name": "string",<br>"accessUri": "string",<br>"objectName": "string",<br>"accessType": "string",<br>"timeExpires": "2021-09-07T16:35:27.390Z",<br>"timeCreated": "2021-09-07T16:35:27.390Z"<br>}<br>]<br>}<br>Response Status:<br>{<br>"200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation."<br>} |

# Request Download PAR

Request PAR for downloading one or more files.

| | |
|---|---|
| Method | POST |
| Endpoint | {Service Base URL}/fts/{Bucket Name}/download |
| HTTP Header | See Common Request Headers in making FTS API Call Common Headers. |
| Parameters | [<br>{<br>"name": "bucketName",<br>"description": "Bucket identifier.",<br>"in": "path",<br>"required": true,<br>"schema": {<br>"type": "string"<br>}<br>}<br>] |


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| | |
|---|---|
| Request Body | A JSON array of files to be downloaded. One or more pairs of storagePrefix and filenames can be specified within the array. Required: true<br>{<br>"listOfFiles": [<br>{<br>"storagePrefix": "string",<br>"fileName": "string"<br>}<br>]<br>} |
| Response | A parList containing an array containing elements corresponding to the request including the PAR accessUri and name of file.<br>"parList": [<br>{<br>"id": "string",<br>"name": "string",<br>"accessUri": "string",<br>"objectName": "string",<br>"accessType": "string",<br>"timeExpires": "2021-09-07T16:35:27.390Z",<br>"timeCreated": "2021-09-07T16:35:27.390Z"<br>}<br>]<br>}<br>Response Status:<br>{<br>"200": {<br>"description": "OK - The service operation produced a successful response.<br>" |

# File Transfer Service Troubleshooting

These troubleshooting topics covers common file transfer service issues and possible solutions.

### Troubleshooting File Transfer Service Internal Server Error

1. Try to connect to File Transfer Ping endpoint. If you can connect ping endpoints, continue to step2.
2. Try to invoke List Files endpoint, if get response status 200, continue to step3.
3. Verify the bucket name. The bucket name should have value like rgbu_rex_cnprod_<cust_env>
4. Make sure the bucket name in service request matches the configuration value set for 'File Transfer Service Bucket Name' in the system configuration screen.

   If the above steps do not resolve the internal server error, you may raise a Service Request on My Oracle Support.


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# Test FTS API using Postman


- Step 1: Get Client Access Token
- Step 2: Call FTS Endpoints

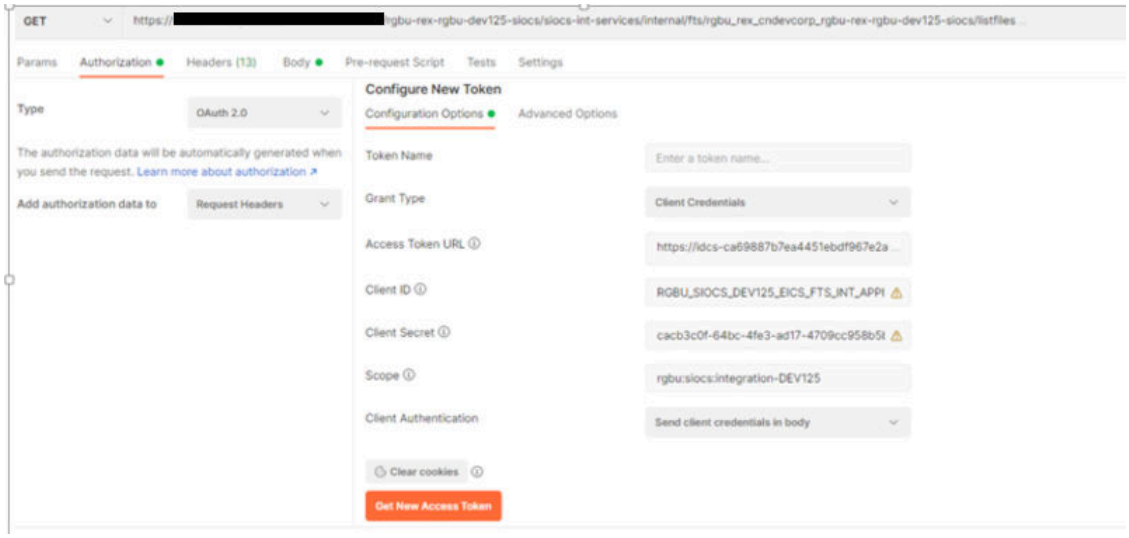

## Step 1: Get Client Access Token

OAuth tokens can also be obtained by REST client tools like postman for testing purposes.

When using Postman testing, fill in the required details:

- **Authorization**: OAuth 2.0
- **Access Token URL**: https://{IDCS_BASE_URL}/oauth2/v1/token
- **Client ID**: Client if of the OAuth
- **Client Secret**: Client secret of OAuth Client app
- **Grant Type**: client_credentials
- **Scope**: The scope pattern that is used in the FTS IDCS app creation template is rgbu:siocs:integration-{env}{env index}

**Figure 7-10 Get Client Access Token**




## Step 2: Call FTS Endpoints

Change **Authorization Type** to **Bearer Token**, use the access token returned from step1 as the **Token Value** as below:


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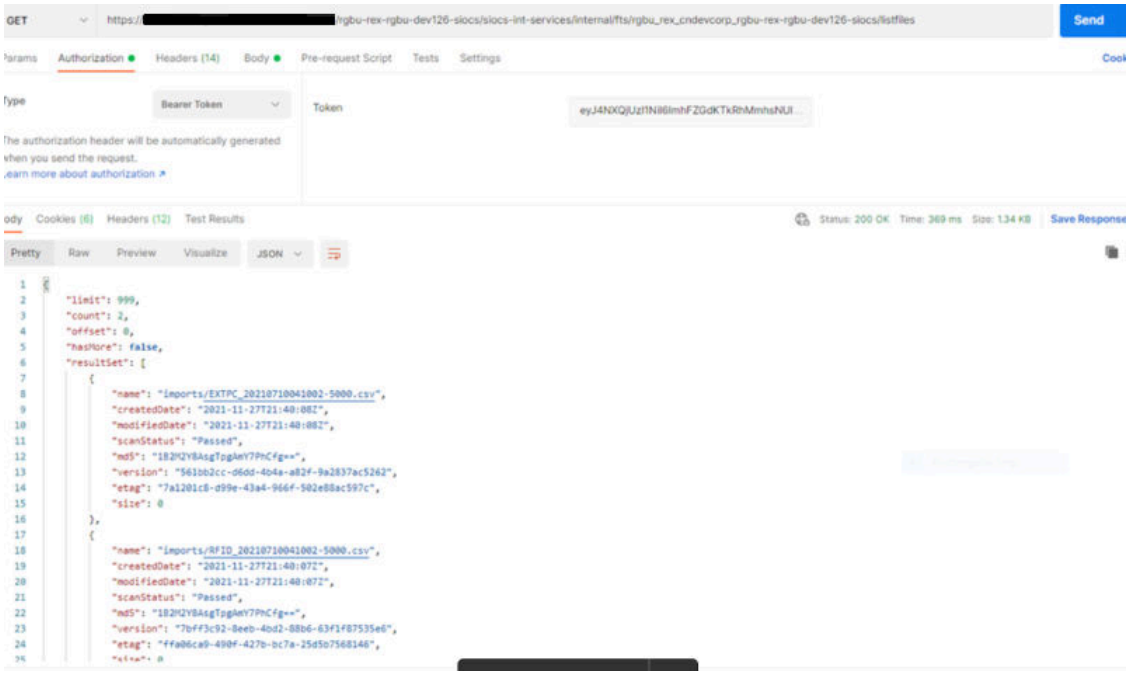
**Figure 7-11 Call FTS Endpoints**





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8

# File Transfer Wrapper Service

This chapter covers the following topics:


- Overview
- Prerequisites
- How to Switch Using File Transfer Wrapper Service
- How to Use Transfer Wrapper Service APIs
- File Transfer Service UI
- File Transfer Wrapper Service API Specification
- File Transfer Wrapper Service Troubleshooting


## Overview

Oracle Cloud Infrastructure Object Storage is an internet-scale, high-performance storage platform that offers reliable and cost-efficient data durability.

In addition to the Legacy File Transfer Integration Service, a new File Transfer Services (FTS) Wrapper Service is added to allows customer to manage files in object storage. The FTS Wrapper service provides a directory-based access to files using a storage prefix and filename. The storage prefix represents a directory path.

File Transfer Wrapper Services provides a common way to allow customer to upload to/ download from object storage direct via common platform implementation.

For each customer environment, logical containers (buckets) are created in Object Storage for storing objects used by the cloud application. The file transfer bucket name is created and set when the environment is provisioned. The bucket name is required to move files between Oracle Cloud and your local system using file transfer services.

Access to files is through a Pre-Authenticated Request (PAR), which is a URL that requires no further authentication to upload or download to the application's object storage. To retrieve a PAR, you must use the appropriate FTS Wrapper service.

The File Transfer Wrapper service enables external application to import files to and export files from Object Storage used by the solutions.

These APIs provides following operations:

- Ping
- List storage prefixes
- List files in object storage
- Move Files
- Delete Files
- Request Upload PAR



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- Request Download PAR

# Service Use Cases

Use Case 1: External Application lists the files in object storage via Service API.

Use Case 2: External Application Uploads data files via Service API to object storage.

Use Case 3: External Application downloads data files via Service API from object storage.

Use Case 4: External application user imports/uploads files use File Transfer Service UI.

# Prerequisites

Before you can use File Transfer Wrapper Service, you need to have the following resources in your Oracle Cloud Infrastructure tenancy:

- Object Storage bucket
- File Transfer Wrapper Service URL and Scopes
- Setup Client ID and Client Secret
- Configure FTS Wrapper User

Some of these resources are automatically created for you upon SIOCS deployments. See details about FTS service in the following sections.

## Object Storage Bucket

For each customer environment, logical containers (buckets) are created in Object Storage for storing objects used by the cloud application. The file transfer bucket name is created and set when the environment is provisioned.

## File Transfer Wrapper Service URL and Scopes

Upon SIOCS deployment, File Transfer Wrapper Service URL and scopes are automatically created, by default the service is disabled. Customer would need to enable the File Transfer Wrapper Service if they intent to use this service.

## OAUTH Security Considerations

**Setup Client ID and Client Secret**

File Transfer Wrapper Service use OAuth2.0 for authorization. The Customer Administration users must create their own client credential IDCS application in IDCS.

Once the client id and client secret are generated, please notes down the credentials, those will be used to get the Authentication Token for using File Transfer Wrapper Service.

When creating the Credentials, the App name and scope for the FTS Wrapper IDCS client application creation should be environment specific using the formats as below:

**App Name**: RGBU_SIOCS_<ENV>_EICS_FTS_WRAPPER


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Where <ENV>: DEV1, STG1, PROD1

For example, RGBU_SIOCS_STG1_ EICS_FTS_WRAPPER

**Scope:** rgbu:siocs:psraf-<ENV>

For example, rgbu:siocs:psraf-STG1

See the *Oracle® Retail Home Administration Guide* OAuth Application Configuration chapter for Creating OAuth Client Applications.

# How to Switch Using File Transfer Wrapper Service

## Configure FTS Wrapper Credentials

The FTS Wrapper user credentials are required for SIOCS batch upload/download files via File Transfer Wrapper Service.

1. Login SIOCS JET webclient.
2. From task menu, under Admin, click **Technical Maintenance**, then click **Credential Administration**.
3. Select Alias **ftswrapper-user**, update the client id and client secret with the one that was created in step “Setup Client ID and Client Secret”.
4. Click **Apply and Save** .

## Enable File Transfer Wrapper Service

Upon SIOCS deployment, by default the service will be disabled. To enable the service, customer will need to perform following steps:

1. Login SIOCS JET.
2. From task menu, under Admin, click **Technical Maintenance**, then click **External Service Administration**.
3. Edit the FtsWrapperExternalService, set Active to **Yes**.
4. Click **Apply and Save**.

## Update Your External Applications to Use FTS Wrapper Service APIs

Evaluate if your application is accessing the object storage via SIOCS legacy FTS endpoint (siocs-int-services/api/fts), then you are on earlier version of the service, update your application to point to the FTS Wrapper service endpoints. See section How to use File Transfer Wrapper Service APIs for details.

# How to Use File Transfer Wrapper Service APIs

To interact with FTS, you must use the REST APIs provided. The endpoints URLs are relative to service base URL.

- Service Base URL


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- Service Endpoints
- Retrieving Access Client Token
- Service Request Headers
- How to Use Service API to find Object Storage Prefixes
- How to User Service API to List Files in Object Storage
- How to Use Service APIs to Upload Import Data Files to Object Storage
- How to Use FTS Wrapper APIs to Download Files from Object Storage


# Service Base URL

The File Transfer Wrapper Service Base URL is automatically configurate upon SIOCS deployment.

The URL has the following format:

https://rex.retail.<Region Name>.ocs.oraclecloud.com/<Customer Subnamespace>/RetailAppsPlatformServices/services/private/FTSWrapper/

> **Note**
>
> The <Region Name> and <Customer Sub Namespace> part of the URL should be replaced with the one specific to your environment. This will be the same as your cloud service application URL provided in the welcome email.

To view the URL via SIOCS External Service Administration Screen.

1. Login SIOCS JET.
2. From task menu, under Admin, click **Technical Maintenance**, then click **External Service Administration.**

# Service Endpoints

The table below lists the API end points for different file operations. See File Transfer Wrapper Service API Specifications for details.

**Table 8-1 FTS Endpoints**

| Service | Method | FTS Wrapper Endpoint URLs |
|---|---|---|
| Ping | GET | {Service Base URL}/ping |
| List Prefixes | GET | {Service Base URL}/listprefixes |
| List Files | GET | {Service Base URL}/listfiles |
| Move Files | POST | { Service Base URL}//movefiles |
| Delete Files | DELETE | {Service Base URL}/delete |
| Request Upload PAR | POST | {Service Base URL}/upload |


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**Table 8-1 (Cont.) FTS Endpoints**

| Service | Method | FTS Wrapper Endpoint URLs |
|---|---|---|
| Request Download PAR | POST | { Service Base URL}/download |

# Retrieving Access Client Token

**IDCS OAuth2 Token URL**

IDCS token URL to obtain Oauth2 token.

Example IDCS_TOKENT_URL:

https://idcs-XXXXXXXX.identity.oraclecloud.com/

Using the above URL,

IDCS_TOKENT_URL = {IDCL_BASE_URL}/oauth2/v1/token

The following is required in headers for making OAuth2.0 enabled REST Services.

- Please contact customer's IDCS administrator for FTS Client ID and Client Secret.
- An access token using the Client ID and secret from IDCS.

Example: get access Token Use Curl

> **Note**
>
> You need to have curl and jq client tool installed on your client machine for using curl for testing.

```
export ACCESS_TOKEN="$(curl -u <Client ID>:<Secret> -H 'Content-Type:
application/x-www-form-urlencoded;charset=UTF-8' --request POST https://
<IDCS_BASE_URL>/oauth2/v1/token -d
'grant_type=client_credentials&scope=<Scope>' | jq -r '.access_token')"
```

In the example above, substitute the variables with proper values for your environment.

# Service Request Headers

Each call to FTS Endpoint should contain the following Request headers:

- Content-Type: application/json
- Accept: application/json
- Accept-Language: en
- Authorization: Bearer {ACCESS_TOKEN}

Before calling FTS Wrapper API, you need to get the ACCESS_TOKEN use step Retrieving Access Client Token.


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# How to Use Service API to find Object Storage Prefixes

First you need to get the ACCESS_TOKEN use step Retrieving Access Client Token, then you may call the endpoint List Prefixes as below:

Sample Request:

```
curl --request GET <Service Base URL>/listprefixes -H 'content-type: application/
json' -H 'Accept: application/json' -H 'Accept-Language: en' -H "Authorization:
Bearer ${ACCESS_TOKEN}"
```

Sample Response:

```
{"values":["archives","rejects","imports","exports"]}
```

# How to Use Service API to List Files in Object Storage

First get the ACCESS_TOKEN using step Retrieving Access Client Token, then call the endpoint List Files as below:

Sample Request:

```
curl --request <Service Base URL>/listfiles?contains=RFID -H 'content-type:
application/json' -H 'Accept: application/json' -H 'Accept-Language: en' -H
"Authorization: Bearer ${ACCESS_TOKEN}"
```

Sample Response:

{"limit":999,"count":1,"offset":0,"hasMore":false,"resultSet":[{"name":"imports/
RFID_1.dat","createdDate":"2022-02-13T21:35:26Z","modifiedDate":"2022-02-13T21:35 :26Z",
"scanStatus":"Passed","scanDate":"2022-02-13T21:35:56.187Z","md5":"xxxx==",
"version":"xxxxx","etag":"zzzzzzz","size":75}]}

# How to Use Service APIs to Upload Import Data Files to Object Storage

To upload data files to object storage, the external solution application needs to perform following steps:

1. The external application gets the Oauth2 token from IDCS. See the Retrieving Access Client Token section.
2. The external application makes an FTS request with the Oauth2 token to requesting Pre-Authentication.

   Then call the endpoint Request Upload PAR as below:

   Sample Request:

   ```
   curl --request POST <Service Base URL>/upload -H 'content-type: application/
   json' -H 'Accept: application/json' -H 'Accept-Language: en' -H
   "Authorization: Bearer ${ACCESS_TOKEN}" -d "{\"listOfFiles\":
   [{\"storagePrefix\": \"imports\",\"fileName\": \"EXTPC_1.dat\"},
   {\"storagePrefix\": \"imports\",\"fileName\": \"RFID_1.dat\"}]}"
   ```

   Sample Response:


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{"parList":[{"id":"zzzzzzz/:imports/
EXTPC_1.dat","name":"EXTPC_1.dat","accessUri":"https://objectstorage.us-ZZZ-siocs/o/imports/
EXTPC_1.dat","accessType":"ObjectWrite","timeExpires":"2022-02-13T21:39:40.265Z", "timeCreated":"2022-02-13T21:34:40.329Z","objectName":"imports/
EXTPC_1.dat"}, {"id":"ZZZZ:imports/
RFID_1.dat","name":"RFID_1.dat","accessUri":"https://zzzz-siocs/o/imports/
RFID_1.dat","accessType":"ObjectWrite","timeExpires":"2022-02-13T21:39:40.411Z"," timeCreated":"2022-02-13T21:34:40.472Z","objectName":"imports/
RFID_1.dat"}]}

3. Once the PAR is received, the external application uploads the file to object storage using the URL included within the response.

   Sample Request:

   ```
   curl https://ZZZZZ-siocs/o/imports/RFID_1.dat --upload-file C:\\temp\
   \RFID_1.dat
   ```

4. Files uploaded to application object storage will be processed by cloud application batches.

# How to Use Service APIs to Download Data Files from Object Storage

For retailer to download the export data files from application object storage, perform the following steps:

1. The external solution application gets the Oauth2 token from IDCS. See the Retrieving Access Client Token section.
2. The external solution application calls the FTS service with the Oauth2 token to list the available export files in Object Storage which are generated by cloud app.

   Sample Request:

   ```
   curl --request GET <Service Base URL>/listfiles?contains=RFID -H 'content-type: application/json' -H 'Accept: application/json' -H 'Accept-Language: en' -H "Authorization: Bearer ${ACCESS_TOKEN}"
   ```

   Sample Response:

   ```
   {"limit":999,"count":1,"offset":0,"hasMore":false,"resultSet":
   [{"name":"imports/
   RFID_1.dat","createdDate":"2022-02-13T21:35:26Z","modifiedDate":"2022-02-13T21:35 :26Z","scanStatus":"Passed","scanDate":"2022-02-13T21:35:56.187Z","md5":"xxxxx==" ,"version":"xxxxx","etag":"ZZZZZ","size":75}]}
   ```

3. The external solution application calls the FTS service with the Oauth2 token, requesting Pre-Authentication to download files from object storage used by cloud app.

   Sample Request:

   ```
   curl --request POST <Service Base URL>/download -H 'content-type: application/json' -H 'Accept: application/json' -H 'Accept-Language: en' -H "Authorization: Bearer ${ACCESS_TOKEN}" -d "{\"listOfFiles\": [{\"storagePrefix\": \"imports\",\"fileName\": \"RFID_1.dat\"}]}"
   ```

   Sample Response:

   ```
   {"parList":[{"id":"i91P0nFIIsgj05qrUH2ibTZ2npmbTdq1TKsGtWOerAYaE6/MYZE7840lR/QEhaFk:imports/RFID_1.dat","name":"RFID_1.dat","accessUri":"https://objectstorage.us-phoenix-1.oraclecloud.com/p/
   ```


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```
ZG89KsLS_5SY7D2p7nVQt8KfJ6rLJ40FSmI97zASLRK2VrsICbvoRP0bgoQGxk3S/n/ZZZZZ-
siocs/o/ imports/RFID_1.dat","accessType":"ObjectRead","timeEx-
pires":"2022-02-13T23:07:00.962Z","timeCreated":"2022-02-13T23:02:01.105Z","ob
jec tName":"imports/RFID_1.dat"}]}
```

4. Once the PAR is received, the file is downloaded using the URL included within its response. A PAR is valid for 10 minutes. A download can take longer than 10 minutes, but it must be started within 10 minutes of the PAR being received.

   ```
   curl -o <destinationFileName> -X GET <PAR>
   ```

   For example:

   ```
   curl -o RFID_1_download.dat -X GET https://ZZZZZ-siocs/o/imports/RFID_1.dat
   ```

# File Transfer Service UI

In addition to the FTS Wrapper Service REST Services, SIOCS File Transfer Service UI provides user to upload/download a file or view a list of files in object storage.

Security Consideration to access File Transfer Service UI:

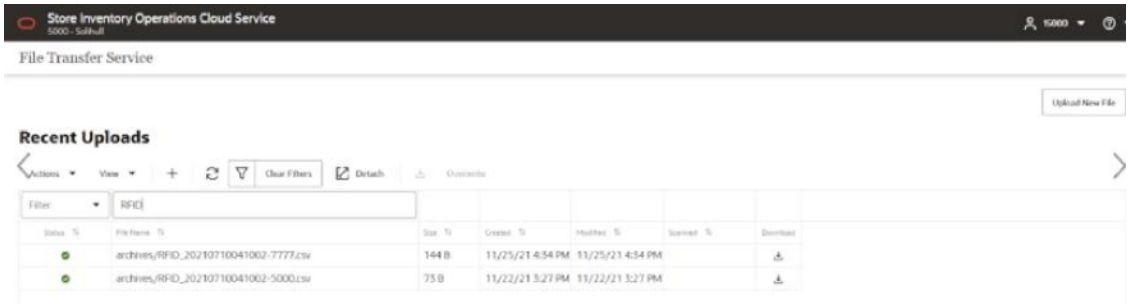
- The customer admin user should be assigned the following PSRAF groups to access the FTS JET UI

  **PSRAF Users and PSRAF Admin Users**

  The naming convention for the group is <EICS_IDCS_APP_DISPLAY_NAME>.psraf_users where EICS_IDCS_APP_DISPLAY_NAME is the display name of EICS app on IDCS or OCI IAM.

  The naming convention for the group is <EICS_IDCS_APP_DISPLAY_NAME>.psraf_admin_users where EICS_IDCS_APP_DISPLAY_NAME is the display name of EICS app on IDCS or OCI IAM
- Security Permission **Access File Transfer Service** must be assigned to user who needs to access the File Transfer Service UI.
- The IDCS or OCI IAM Application role **admin_users** is required for the user to perform the upload/download operations.

**Figure 8-1 File Transfer Service UI**




The main form lists the recently uploaded files.

Actions:

- To filter the files by store prefix, select a file storage prefix.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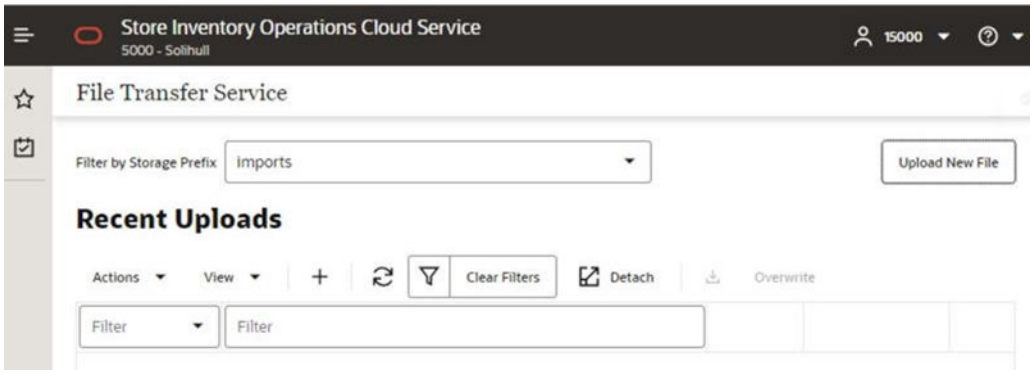
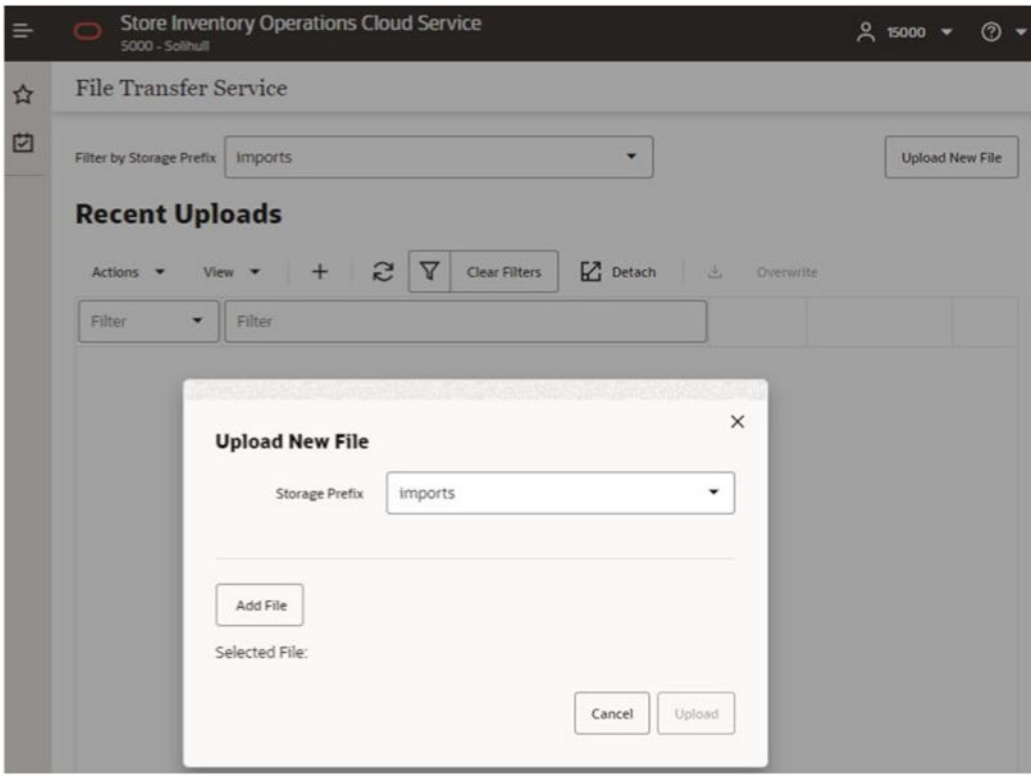
- To filter by file name by choosing the **Actions** choice selector on the screen.
- To upload new files, click **Upload New File** button:

**Figure 8-2 Upload New File**




In the **Upload New File** popup dialog, choose storage prefix **Imports** and click **Add File** button.

**Figure 8-3 Upload New File Dialog**




Next, choose files from your client machine, then click **Upload**:


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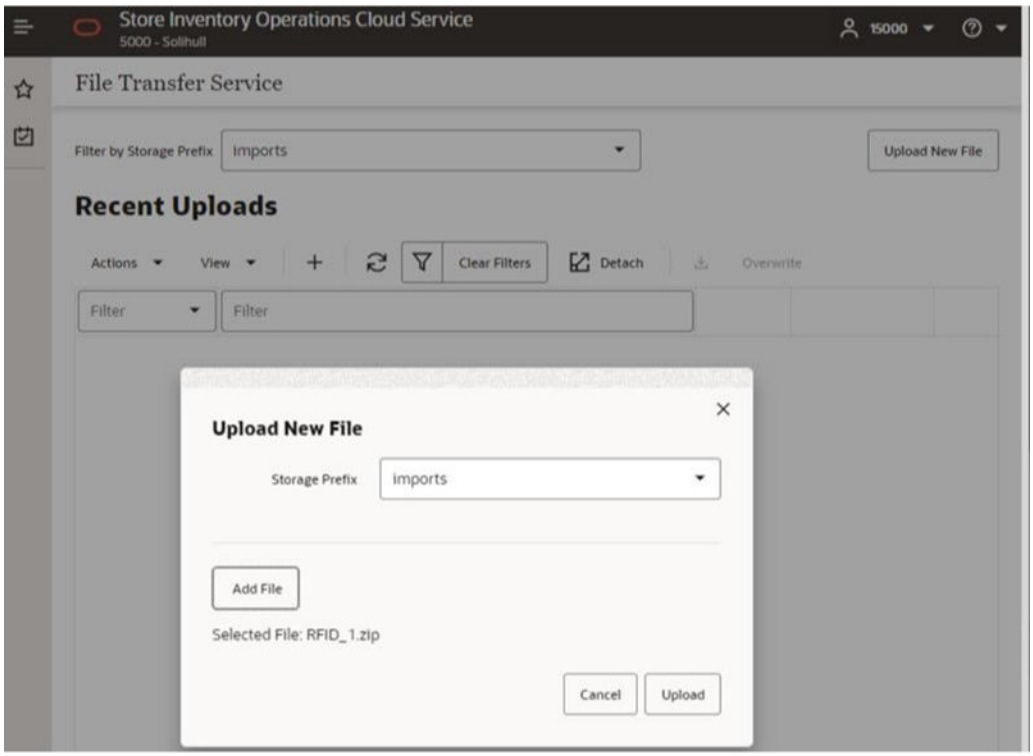
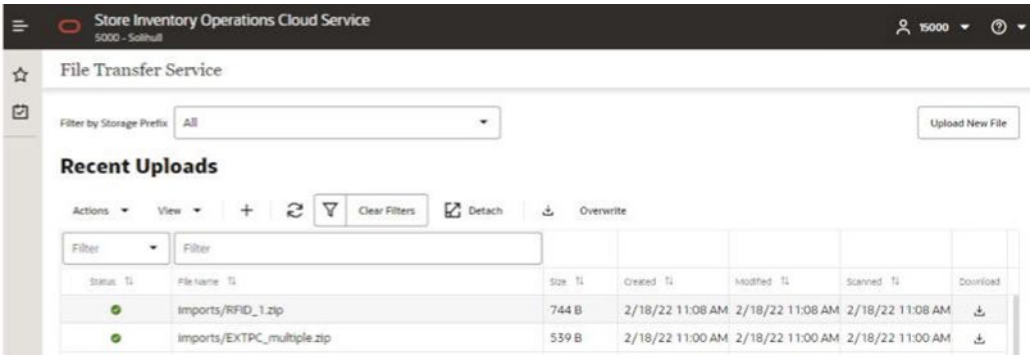
**Figure 8-4 File Added**




Once the uploaded file has passed a virus scan, the file is ready for a cloud application batch to import the file from object storage into the application.

**Figure 8-5 Recent Uploads**




# File Transfer Wrapper Service API Specification

This section describes FTS API specifications.

- Ping
- List Prefixes
- List Files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- Move Files
- Delete Files
- Request Upload PAR
- Request Download PAR

## Ping

Returns the status of the service and provides an external health-check.

| Method | GET |
|---|---|
| Endpoint | {Service Base URL}/ping |
| HTTP Header | See FTS Wrapper API Call Headers. |
| Request Body | None |
| Response | "200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation."<br>} |

## List Prefixes

Returns a list of the known storage prefixes. These are analogous to directories and are restricted to predefined choices per service. SIOCS has list of pre-defined storage prefixes: import, exports, rejects and archives.

| Method | GET |
|---|---|
| Endpoint | {Service Base URL}/listprefixes |
| HTTP Header | See FTS Wrapper API Call Headers. |
| Request Body | None |


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| Method | GET |
|---|---|
| Response | A JSON array of strings containing the known prefixes.<br><br>{<br>"200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation."<br>}<br>} |

## List Files

Returns a list of the files within a given storage prefix.

| Method | GET |
|---|---|
| Endpoint | {Service Base URL}/listfiles |
| HTTP Header | See FTS Wrapper API Call Headers. |


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| Method | GET |
| --- | --- |
| Parameters | {<br>"name": "prefix",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "string"<br>}<br>},<br>{<br>"name": "contains",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "string"<br>}<br>},<br>{<br>"name": "scanStatus",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "string"<br>}<br>},<br>{<br>"name": "offset",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "integer"<br>}<br>},<br>{<br>"name": "limit",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "integer"<br>}<br>},<br>{ |


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| Method | GET |
|---|---|
| | "name": "sort",<br>"description": "The object filter in object storage.",<br>"in": "query",<br>"required": false,<br>"schema": {<br>"type": "string"<br>}<br>}<br>], |
| Request Body | None |
| Response | A JSON resultSet containing array of files. For each file, there is metadata including: name, size, created and modified dates, scan status and date, scan output message.<br><br>{<br>"200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation."<br>} |

## Move Files

Moves one or more files between storage prefixes, while additionally allowing the name to be modified.

| Method | POST |
|---|---|
| Endpoint | {Service Base URL}/movefiles |
| HTTP Header | See FTS Wrapper API Call Headers. |
| Request Body | {"listOfFiles": [ {"currentPath": { "storagePrefix": "string", "fileName": "string"}, "newPath": { "storagePrefix": "string", "fileName": "string" } } }} |

## Delete Files

Deletes one or more files.


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| Method | DELETE |
|---|---|
| Endpoint | {Service Base URL}/ delete |
| HTTP Header | See FTS API Call Common Headers |
| Request Body | A JSON array of files to be deleted. One or more pairs of storagePrefix and filename elements can be specified within the array. Required: true<br>`{ " {"listOfFiles": [ [ { " {"storagePrefix": "string", "fileName": "string" } ]}` |
| Response | 200 The request has succeeded.<br>500 The server has encountered a situation it does not know how to handle. |

# Request Upload PAR

Request PAR for uploading one or more files.

| Method | POST |
|---|---|
| Endpoint | {Service Base URL}/upload |
| HTTP Header | See FTS Wrapper Request Headers. |
| Request Body | A JSON array of files to be uploaded. One or more pairs of storagePrefix and filename elements can be specified within the array.<br>Required: true<br><br>`{ "listOfFiles":`<br>`[`<br>`{`<br>`"storagePrefix": "string",`<br>`"fileName": "string"`<br>`}`<br>`]`<br>`}` |


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| Method | POST |
|---|---|
| Response | A parList containing an array containing elements corresponding to the request including the PAR accessUri and name of file.<br><br>{<br>"parList": [<br>{<br>"id": "string",<br>"name": "string",<br>"accessUri": "string",<br>"objectName": "string",<br>"accessType": "string",<br>"timeExpires": "2021-09-07T16:35:27.390Z",<br>"timeCreated": "2021-09-07T16:35:27.390Z"<br>}<br>]<br>}<br>Response Status:<br>{<br>"200": {<br>"description": "OK - The service operation produced a successful response."<br>},<br>"400": {<br>"description": "Bad Request - The path params or query params or body was not valid for this operation."<br>} |

# Request Download PAR

Request PAR for downloading one or more files.

| Method | POST |
|---|---|
| Endpoint | {Service Base URL}/download |
| HTTP Header | FTS Wrapper Service Request Headers. |


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| Method | POST |
|---|---|
| Request Body | A JSON array of files to be downloaded. One or more pairs of storagePrefix and filenames can be specified within the array. Required: true<br><br>`{ "listOfFiles":`<br>`[`<br>`{`<br>`"storagePrefix": "string",`<br>`"fileName": "string"`<br>`}`<br>`]`<br>`}` |
| Response | A parList containing an array containing elements corresponding to the request including the PAR accessUri and name of file.<br><br>`"parList": [`<br>`{`<br>`"id": "string",`<br>`"name": "string",`<br>`"accessUri": "string",`<br>`"objectName": "string",`<br>`"accessType": "string",`<br>`"timeExpires": "2021-09-07T16:35:27.390Z",`<br>`"timeCreated": "2021-09-07T16:35:27.390Z"`<br>`}`<br>`]`<br>`}`<br>`Response Status:`<br>`{`<br>`"200": {`<br>`"description": "OK - The service operation produced a successful response.` |

# File Transfer Wrapper Service Troubleshooting

These troubleshooting topics covers common file transfer service issues and possible solutions.

**Troubleshooting File Transfer Service Internal Server Error**

1. Try to connect to File Transfer Ping endpoint. If you can connect ping endpoints, continue to step2.
2. Try to invoke List Files endpoint, if get response status 200.
3. If the above steps do not resolve the internal server error, you may raise a Service Request on My Oracle Support.


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