

# ION API Technical Documentation

As of: 04/1/2025

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## Overview:

The ION API system is a real-time interface to the CSD product. It exposes a series of business object calls to the outside world using a series of “proxy” layers. These “proxy” layers allow various programming languages and frameworks access to these business objects using published access methods (see Appendix A for Programming Standards).

## CSD/SX.API 11

In CSD, the APIs use a REST protocol with JSON Request and Response objects. Infor has implemented the OAuth 2.0 security protocol via ION API which will make the calls much more secure. You may hear Infor refer to the SX.API also as the ION APIs. While the API calls are still the same as before, these new changes will require that the API calls be re-written to accommodate the new protocols.

### **JAVA API**

The sxapi2.jar file is no longer supported or provided in the deployment installation.

### **SOAP API**

For on-premise customers that are not able to rewrite their API calls, a SOAP interface may be provided as a custom solution at the customer’s request, if the customer is on V11 or higher and running on-premises.

### **REST ION APIs**

According to REST protocol, each API call has a separate endpoint. For example, below are three sample endpoints which will access the API calls known as Ping, OEPricing, and OEFullOrderMntV6, respectively.

The endpoint for REST based integrations via ION API will be updated to use web handlers with an endpoint of /web/sxapiRESTservice.

<https://ion.infor.com:7443/infor/SX/web/sxapiRESTservice/sxapiping>

<https://ion.infor.com:7443/infor/SX/web/sxapiRESTservice/sxapioepricing>

<https://ion.infor.com:7443/infor/SX/web/sxapiRESTservice/sxapioefullordermntv6>

A submit to each API with **/?help** at the end will display the example Request/Response options for the call. This ION API also has this Swagger Doc mapping which replaces the detailed manual mapping examples for older SXAPI calls in this document.

<https://ion.infor.com:7443/infor/SX/web/sxapiRESTservice/sxapioepricingmultiplev4/?help>

# ION API Technical Documentation

## Example:

```

{
  "Methods": [
    "GET",
    "POST"
  ],
  "GET": {
    "Parameters": "?companyNumber=integer&operatorInit=character&operatorPassword=character&customerNumber=decimal&shipTo=character&warehouse=character&quantity=decimal&productCode=character&unitOfMeasure=character&extraData=character"
  },
  "POST": {
    "Flattened": false,
    "Body": {
      {
        "request": {
          "companyNumber": "integer",
          "operatorInit": "character",
          "operatorPassword": "character",
          "customerNumber": "decimal",
          "shipTo": "character",
          "warehouse": "character",
          "quantity": "decimal",
          "productCode": "character",
          "unitOfMeasure": "character",
          "extraData": "character"
        }
      }
    }
  },
  "Response": {
    "Flattened": false,
    "Body": {
      {
        "response": {
          "errorMessage": "character",
          "price": "decimal",
          "discountAmount": "decimal",
          "discountType": "character",
          "netAvailable": "decimal"
        }
      }
    }
  }
}

```

If you log on to your ION web, there is an online documentation page which will give you a list of all the API calls, their endpoints, as well as the request and response objects. Most all API calls will be submitted as a POST request in JSON format rather than a GET.

All API requests require 3 Header Values: Content-Type, Accept, and Authorization (OAuth)

For more information on JSON formatting, see <http://json.org>

Example: the request object for sxapioepricing will now look like this:

```

{
  "request": {
    "companyNumber": 1000,
    "operatorInit": "web",
    "operatorPassword": "pwd",
    "customerNumber": 101,
    "shipTo": "",
    "warehouse": "main",
    "quantity": 1,
    "productCode": "1-101",
    "unitOfMeasure": "each",
    "extraData": ""
  }
}

```

Please note that the connection string is no longer provided. It will now be set in the environment hosting the URL Web Service.

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The response object will return the following:

```
{
  "response": {
    "errorMessage": "",
    "price": 105.50,
    "discountAmount": 0,
    "discountType": "",
    "netAvailable": 200
  }
}
```

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## **OAuth 2.0 Security**

Within ION, you will need to select the **ION Service** app which is found on the **Authorized Apps** page within the **Infor ION API** section. From there, you can download the credentials file. Within the credentials file is a security endpoint and multiple security keys. When you make a call to the security endpoint with the security keys provided, it will return to you a bearer access token. This bearer access token must be submitted in the header of each API call that you use. It is valid for 30 minutes to 2 hours depending on your ION settings. For further reading on OAUTH 2.0 security, you may go to the links below.

<https://auth0.com/docs/protocols/oauth2>


<https://docs.microsoft.com/en-us/aspnet/web-api/overview/security/individual-accounts-in-web-api>

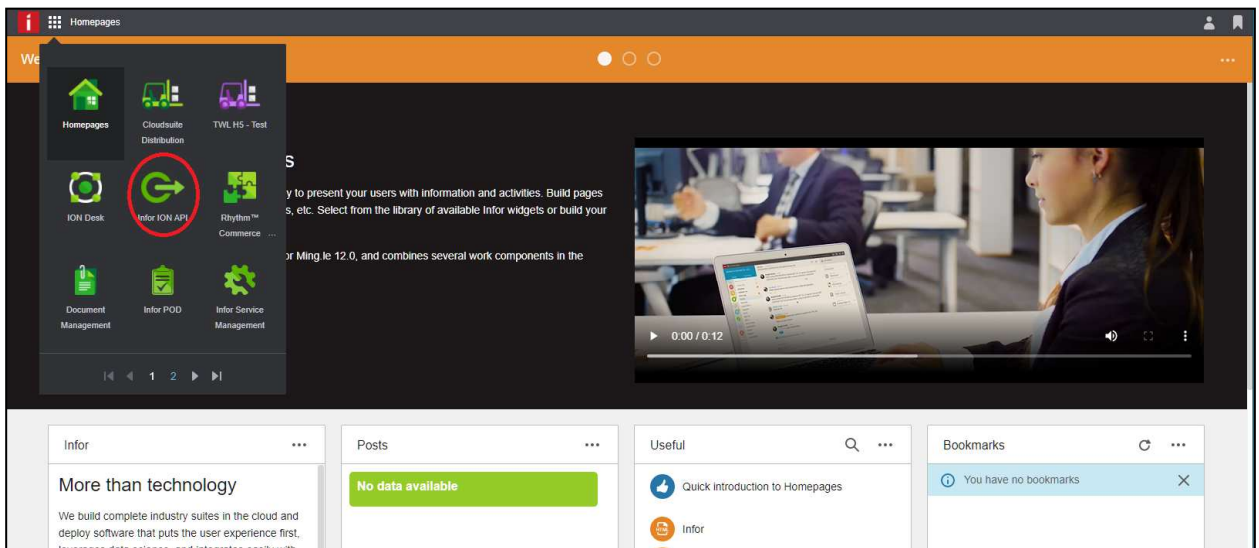
User Field Enhancement: Many of the API calls which previously supported User Fields 1-9 will now support User Fields 1-24 where applicable. Most calls pass the User Fields information in the t-infieldvalue/t-outfieldvalue tables. (Available starting in 11.19.4)

# ION API Technical Documentation

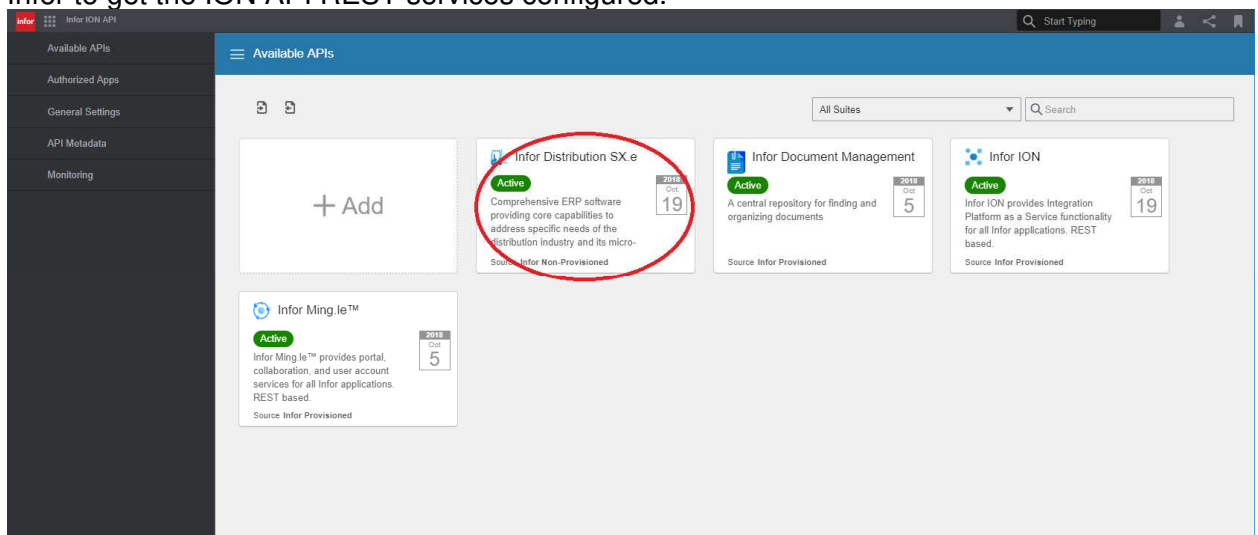
## API Calls via the online doc

The following will provide directions on how to access the online ION API doc. The online doc will give you a list of all API calls along with their JSON objects.

1. Log onto the ION web site
2. Select the “App Menu”  icon in the upper left corner and choose **Infor ION API** icon



3. Select the **Infor Distribution SX.e** icon on the page. If the SX icon is not setup, please contact Infor to get the ION API REST services configured.



# ION API Technical Documentation

4. Identify the row marked **Web ION API REST Service** and select the documentation button
  - Select “EndPoints” link above the grid
  - Select the “Documentation” button on either the **Web ION API REST Service** row or the **ION API Rest Service** row and make note of the URL. Please note if you are new to developing your ION API application, then you should use the **Web ION API REST Service**. If you have already written your ION API application on a previous release, then you should use the **ION API Rest Service** URL because it will be backwards compatible to the older ION API.

The screenshot shows the Infor ION API web interface. On the left is a sidebar with navigation links: Available APIs, Authorized Apps, Configuration, API Metadata, Monitoring, and Authorizations. The main content area is titled 'Infor IONAPI' and 'Available APIs / Infor Distribution SX.e'. It features a table of API endpoints. The 'Endpoints' link above the table is circled in red. The table has columns for Endpoint, Description, Indexing Status, Documentation, and Details. The 'Web SX API REST Service' row is highlighted, and its 'Documentation' button is circled in red.

| Endpoint   | Description             | Indexing Status | Documentation | Details |
|--|-------------------------|-----------------|---------------|---------|
| https://qac-ionapi.qac.awsdev.infor.com/SXEADQADEV_DEV/SX/rest/sxapires...   | SX API REST Service     |                 |               | →       |
| https://qac-ionapi.qac.awsdev.infor.com/SXEADQADEV_DEV/SX/rest/serviceint... | SX API REST Rhythm      |                 |               | →       |
| https://qac-ionapi.qac.awsdev.infor.com/SXEADQADEV_DEV/SX/rest/serviceint... | SX API REST SI Proxy    |                 |               | →       |
| https://qac-ionapi.qac.awsdev.infor.com/SXEADQADEV_DEV/SX/web/sxapires...    | Web SX API REST Service |                 |               | →       |
| https://qac-ionapi.qac.awsdev.infor.com/SXEADQADEV_DEV/SX/web/twlv...        | SX TWL Voice Command    |                 |               | →       |

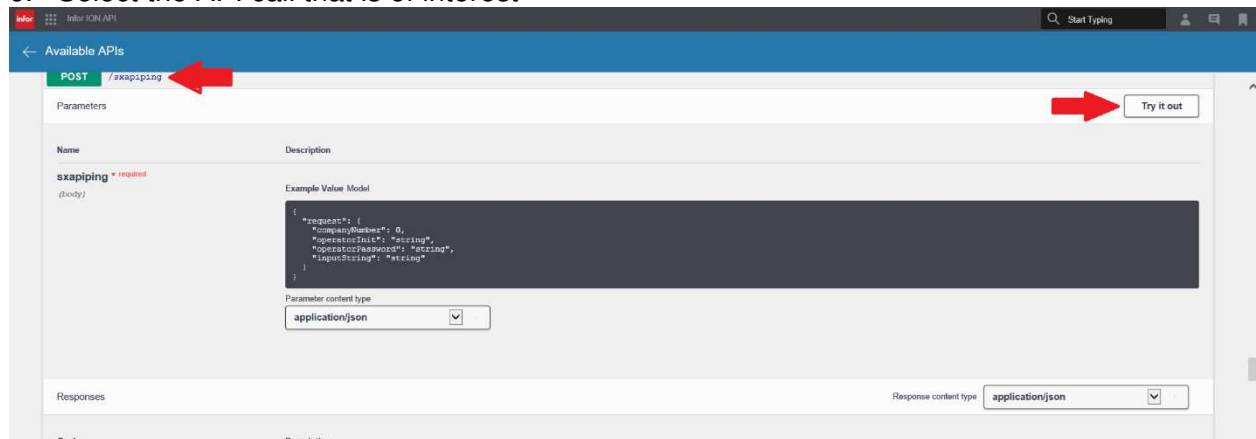
5. A list of API calls will be displayed

The screenshot shows the Infor ION API web interface. The 'Available APIs' section is active, and the 'SX.e API' is selected. Below the API name, a list of API calls is displayed. The calls are listed under the 'default' category and include various POST endpoints.

| Method | Endpoint                    |
|--------|-----------------------------|
| POST   | /sxapigetshipfmlist         |
| POST   | /sxapigetvendordataedi      |
| POST   | /sxapigetvendordatageneral  |
| POST   | /sxapigetvendordataordering |
| POST   | /sxapigetvendorlist         |
| POST   | /sxapiinvoiceimport         |
| POST   | /sxapiinvoiceprocess        |
| POST   | /sxapivendormnt             |
| POST   | /sxapiarcustomermt          |

# ION API Technical Documentation

## 6. Select the API call that is of interest



## Security List

This section will provide a list of the API calls available and the security code required to give it permissions in SASO where you will set the Function security for the operatorid to a level 5.

The multiple versions of the API listed below will all execute the same business logic. The changes in the version are based on changes to the request object and/or the response object. These were put in place to avoid upgrade conflicts with your programs that make API calls. If you develop your code on the latest version (i.e, V2) and we release a V3. Then your program executing V2 will continue to operate properly.

if you wish to see the JSON request and response objects, you will need to go to the online doc described in the previous section.



# ION API Technical Documentation

| API Call                           | Description   | Security |
|------------------------------------|---|----------|
| FetchWhere                         | Retrieve data from a database table   | none     |
| FileTransfer                       | Create or Update a File   | none     |
| sxapiaddrvalidation                | Validates an address  | none     |
| sxapiAPGetShipFmList               | Retrieves a set of ship from records  | apiv     |
| sxapiAPGetShipFmListV2             | Retrieves a set of ship from records  | apiv     |
| sxapiAPGetVendorDataEDI            | Get "EDI" vendor data for a given vendor or ship from   | apiv     |
| sxapiAPGetVendorDataEDIV2          | Get "EDI" vendor data for a given vendor or ship from   | apiv     |
| sxapiAPGetVendorDataGeneral        | Get "General" data for a given vendor or ship from  | apiv     |
| sxapiAPGetVendorDataGeneralV2      | Get "General" data for a given vendor or ship from  | apiv     |
| sxapiAPGetVendorDataOrdering       | Get "Ordering" data for a given vendor or ship from   | apiv     |
| sxapiAPGetVendorDataOrderingV2     | Get "Ordering" data for a given vendor or ship from   | apiv     |
| sxapiAPGetVendorList               | Retrieves a set of vendor records   | apiv     |
| sxapiAPGetVendorListV2             | Retrieves a set of vendor records   | apiv     |
| sxapiAPIInvoiceImport              | No longer used  |          |
| sxapiAPIInvoiceProcess             | Creates OE Invoice  | oet      |
| sxapiAPVendorMnt                   | Vendor (APSV/APSS) Maintenance  | apsv     |
| sxapiARCreateTransaction           | Create ARET Invoice or Misc Credit Transaction  | aret     |
| sxapiARCustomerMnt                 | Customer (ARSC/ARSS) Maintenance  | arsc     |
| sxapiARGetContactList              | Retrieves a set of Contacts for a customer  | aric     |
| sxapiARGetContactListV2            | Retrieves a set of Contacts for a customer  | aric     |
| sxapiARGetCustomerBalance          | Get Customer Balance Information  | aric     |
| sxapiARGetCustomerBalanceV2        | Get Customer Balance Information with multiple output parameters for data rather than pipe delimited list | aric     |
| sxapiARGetCustomerData             | Get customer data based on a passed request type, for a given customer                                    | aric     |
| sxapiARGetCustomerDataCredit       | Get "credit" customer data for a given customer   | aric     |
| sxapiARGetCustomerDataCreditV2     | Get "credit" customer data for a given customer   | aric     |
| sxapiARGetCustomerDataCreditMess   | Get a credit message for a given customer   | aric     |
| sxapiARGetCustomerDataCreditRest   | Get the remaining "credit" fields for a given customer  | aric     |
| sxapiARGetCustomerDataEDI          | Get "EDI" customer data for a given customer  | aric     |
| sxapiARGetCustomerDataGeneral      | Get "general" customer data for a given customer  | aric     |
| sxapiARGetCustomerDataGeneralRest  | Get the remaining "general" fields for a given customer   | aric     |
| sxapiARGetCustomerDataGeneralV2    | Get "general" customer data for a given customer  | aric     |
| sxapiARGetCustomerDataOrdering     | Get "ordering" customer data for a given customer   | aric     |
| sxapiARGetCustomerDataOrderingRest | Get the remaining "ordering" fields for a given customer  | aric     |
| sxapiARGetCustomerDataTaxing       | Get "taxing" customer data for a given customer   | aric     |
| sxapiARGetCustomerList             | Retrieves a set of customers records (lookup)   | aric     |
| sxapiARGetCustomerListV2           | Retrieves a set of customer records   | aric     |
| sxapiARGetCustomerListV3           | Retrieves a set of customer records   | aric     |
| sxapiARGetCustPriceTypeList        | Retrieves a list of customer price type records   | none     |
| sxapiARGetInvoiceList              | Retrieves a set of ARET Invoices  | aric     |
| sxapiARGetInvoiceListV2            | Retrieves a set of ARET Invoices  | aric     |
| sxapiARGetInvoiceListV3            | Retrieves a set of ARET Invoices  | aric     |
| sxapiARGetMiscCustomerList         | Retrieves a set of "misc" customers (ARSC table)  | none     |
| sxapiARGetShipToList               | Retrieves a set of Ship To (ARSS) records   | aric     |
| sxapiARGetShipToListV2             | Retrieves a set of Ship To (ARSS) records   | aric     |
| sxapiARGetShipToListV3             | Retrieves a set of Ship To (ARSS) records   | aric     |
| sxapiARGetShipToListV4             | Retrieves a set of Ship To (ARSS) records   | aric     |
| sxapiARGetSingleCustomer           | Retrieves a single Cuustomer ARSC record  | none     |
| sxapiARSetCustomerBalances         | Set AR Customer Balances  | aret     |
| sxapiCAMActivityClose              | Contact and Activity Manager – Activity Close   | arsc     |
| sxapiCAMActivityMnt                | Contact and Activity Manager – Activity Maintenance   | arsc     |
| sxapiCAMActivityValidate           | Contact and Activity Manager – Activity Validate  | arsc     |
| sxapiCAMContactMnt                 | Contact and Activity Manager – Contact Maintenance  | arsc     |

# ION API Technical Documentation

|                                    |  |       |
|------------------------------------|--|-------|
| sxapiCAMGetActivityList            | Contact and Activity Manager – Get list of Activity records  | aric  |
| sxapiCAMGetActivityListV2          | Contact and Activity Manager – Get list of Activity records  | aric  |
| sxapiCAMGetContactList             | Contact and Activity Manager – Get list of Contact records   | aric  |
| sxapiCAMGetContactListV2           | Contact and Activity Manager – Get list of Contact records (including the third address line)          | aric  |
| sxapiCAMGetContactListV3           | Contact and Activity Manager – Get list of Contact records (including country)                         | aric  |
| sxapiCAMGetContactListV4           | Contact and Activity Manager – Get list of Contact records (including CRM fields)                      | aric  |
| sxapiCMPromoteProspectToCustomer   | Promote a CMSP Prospect record to a customer – which creates a new ARSC customer record                | arsc  |
| sxapiCMPromoteProspectToCustomerV2 | Promote a CMSP Prospect record to a customer – which creates a new ARSC customer record                | arsc  |
| sxapiCMProspectMnt                 | Prospect Maintenance   | cmsp  |
| sxapiCMProspectMntV2               | Prospect Maintenance V2  | cmsp  |
| sxapicust*                         | Custom sxapi call  | none  |
| sxapiCustomCall                    | custom Sxapi Call  | none  |
| sxapiCustomCallV2                  | custom Sxapi Call  | none  |
| sxapiETCCPOAcknowledgement         | ETCC PO Create ETCC Error for EDI 855in  | none  |
| sxapiICBinLocationMnt              | Interface to ICSW records to retrieve the bin location data or update the bin location data            | icsw  |
| sxapiICCustProdMnt                 | Interface to ICSEC Customer Product records. Developed for StoreRoom, but is not specific to StoreRoom | icsec |
| sxapiICECatalogBillMaterials       | Commerce Catalog interface   | none  |
| sxapiICECatalogCustItemNumber      | Commerce Catalog interface   | none  |
| sxapiICECatalogCustItemNumberV2    | Commerce Catalog interface   | none  |
| sxapiICECatalogItemBalance         | Commerce Catalog interface   | none  |
| sxapiICECatalogItemBalanceV2       | Commerce Catalog interface   | none  |
| sxapiICECatalogItemBalDelt         | Commerce Catalog interface   | none  |
| sxapiICECatalogItemComments        | Commerce Catalog interface   | none  |
| sxapiICECatalogItemMastDelt        | Commerce Catalog interface   | none  |
| sxapiICECatalogItemMaster          | Commerce Catalog interface   | none  |
| sxapiICECatalogItemMasterV2        | Commerce Catalog interface   | none  |
| sxapiICECatalogItemMasterV3        | Commerce Catalog interface   | none  |
| sxapiICECatalogItemReplacements    | Commerce Catalog interface   | none  |
| sxapiICECatalogSKUChanges          | Commerce Catalog interface   | none  |
| sxapiICEditSerLotList              | Edit a list of Serials and Lots  | none  |
| sxapiICGetCatalogData              | Get data for a single Catalog Record   | icip  |
| sxapiICGetCatalogList              | Retrieves a set of Catalog Products (ICSC)   | icip  |
| sxapiICGetCatalogListV2            | Retrieves a set of Catalog Products (ICSC) with price and cost information V2                          | icip  |
| sxapiICGetCatalogListV3            | Retrieves a set of Catalog Products (ICSC) with price and cost information V3                          | icip  |
| sxapiICGetLotList                  | Retreives a list of Lots by Product/Whse for Inquiry and Inventory Transactions                        | none  |
| sxapiICGetNonStockInventoryList    | Retrieve a set of Non Stock Inventory (ICEAN) records  | icia  |
| sxapiICGetOptionalProductList      | Retrieves a set of optional products (ICSEC) for a given product.                                      | none  |
| sxapiICGetProdCrossReferenceList   | Retreive a set of product cross references (ICSEC) for a given product (ICSP)                          | icia  |
| sxapiICGetProdCrossReferenceListV2 | Retreive a set of product cross references (ICSEC) for a given product (ICSP)                          | icia  |
| sxapiICGetProdPriceTypeList        | Retrieves a list of Product Price Type records   | none  |
| sxapiICGetProductAvailableDate     | Returns the Expected Availability Date for a product in a warehouse                                    | icia  |
| sxapiICGetProductCategoryList      | Retrieves a Product Category list  | icip  |

# ION API Technical Documentation

|   |   |       |
|---|---|-------|
| sxapiICGetProductCrossReference         | Takes a given part # and determines the product cross reference (ICSEC) for it.   | icia  |
| sxapiICGetProductCrossReferenceV2       | Takes a given part # and determines the product cross reference (ICSEC) for it  | icia  |
| sxapiICGetProductDataGeneral            | Get "general" data for a given ICSP product   | icip  |
| sxapiICGetProductDataGeneralV2          | Get "general" data for a given ICSP product   | icip  |
| sxapiICGetProductDataGeneralV3          | Get "general" data for a given ICSP product   | icip  |
| sxapiICGetProductDataGeneralV4          | Get "general" data for a given ICSP product   | icip  |
| sxapiICGetProductFutureAvailabilityList | Returns the details that make up the Inventory Control Inquire Product Future Availability (i.e. same data as shown in the ICIAF function in SXe) | icia  |
| sxapiICGetProductLineList               | Retrieve a list of Product Lines (ICSL)   | none  |
| sxapiICGetProductList                   | Retrieves a set of Products (ICSP)  | icia  |
| sxapiICGetProductListV2                 | Retrieves a set of Products (ICSP)  | icia  |
| sxapiICGetProductListV3                 | Retrieves a set of Products (ICSP)  | icia  |
| sxapiICGetProductNotesList              | Retrieves a set of Product Notes  | icia  |
| sxapiICGetProductNotesListV2            | Retrieves a set of Product Notes  | icia  |
| sxapiICGetProductUnitOfMeasureList      | Retrieve unit of measure records for a given product  | icia  |
| sxapiICGetReservedProdList              | Retrieves a list of transaction line items that effect quantity reserved for a given product  | icear |
| sxapiICGetSerialList                    | Retreives a list of Serials by Product/Whse for Inquiry and Inventory Transactions  | none  |
| sxapiICGetWarehouseList                 | Retrieves a set of Warehouses (ICSD)  | none  |
| sxapiICGetWarehouseListV2               | Retrieves a set of Warehouses (ICSD)  | none  |
| sxapiICGetWarehouseDataGeneral          | Retrieves details of a warehouse  | none  |
| sxapiICGetWarehouseDataGeneralV2        | Retrieves details of a warehouse  | none  |
| sxapiICGetWhseProductDataCosts          | Get "cost" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataCostsV2        | Get "cost" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataGeneral        | Get "general" data for a given Whse Product (ICSW)  | icip  |
| sxapiICGetWhseProductDataGeneralV2      | Get "general" data for a given Whse Product (ICSW)  | icip  |
| sxapiICGetWhseProductDataGeneralV3      | Get "general" data for a given Whse Product (ICSW)  | icip  |
| sxapiICGetWhseProductDataOrdering       | Get "ordering" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataOrderingV2     | Get "ordering" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataQuantity       | Get "quantity" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataQuantityV2     | Get "quantity" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataQuantityV3     | Get "quantity" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataTaxing         | Get "taxing" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataTaxingV2       | Get "taxing" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataUnits          | Get "unit" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataUnitsV2        | Get "unit" data for a given Whse Product (ICSW)   | icip  |
| sxapiICGetWhseProductDataUsage          | Get "usage" data for a given Whse Product (ICSW)  | icip  |
| sxapiICGetWhseProductDataUsageV2        | Get "usage" data for a given Whse Product (ICSW)  | icip  |
| sxapiICGetWhseProductList               | Retrieves a set of Warehouse Products (ICSW)  | icia  |
| sxapiICGetWhseProductListV2             | Retrieves a set of Warehouse Products (ICSW) with price and cost information  | icia  |
| sxapiICGetWhseProductListV3             | Retrieves a set of Warehouse Products (ICSW) with additional fields and user fields   | icia  |
| sxapiICProductActivityByWhse            | Get EDI-852 Product Activity (availability) for one or more warehouses  | icia  |
| sxapiICProductAvailByWhse               | Get the qty net available for a given product across whse's   | icia  |
| sxapiICProductMnt                       | Product (ICSP/ICSW) maintenance   | icsp  |
| sxapiicprodwhsetransfer                 | Transfer inventory from one whse to another   | icew  |
| sxapiICReAllocateProduct                | Deallocate inventory for a given product  | icear |
| sxapiICWarehouseMnt                     | Allows Maintenance of Storeroom specific warehouse fields in (ICSD)   | icsd  |
| sxapiKPEditSerLotList                   | Edit Serial/Lot Records for a Work Order  | none  |

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|                                 |   |       |
|---------------------------------|---|-------|
| sxapiKPGetListOfWorkOrders      | Returns a list of KP work orders  | kpiw  |
| sxapiKPGetSingleWorkOrder       | Returns a single KP work order  | kpiw  |
| sxapiNPCreateClaim              | National Programs Create Claim  | none  |
| sxapiOEBatchHeaderCreate        | Create an OE Batch Header   | oeebt |
| sxapiOEBatchHeaderUpdate        | Update an existing OE Batch Header  | oeebt |
| sxapiOEBatchLineProcess         | Create / Update an OE Line Item   | oeebt |
| sxapiOEBillWTOOrder             | Auto Bill a Warehouse Transfer Order for Alt Whse                                     | oeet  |
| sxapiOECashDrawer               | OEED Cash Drawer Entry  | oeede |
| sxapiOECalcFreightRate          | Calculate freight rate shopping amount for a Whse / Ship Via                          | oeio  |
| sxapiOECalcFreightWeight        | Calculate freight rate shipping for a given OE order                                  | oeio  |
| sxapiOEConvertBatchOrder        | Convert an OE Order to a Live Order   | oeebt |
| sxapiOECreateBatchName          | Create a new OE Batch Name  | oeebt |
| sxapiOECreditApproval           | Approve an OE order   | oeir  |
| sxapiOEEEditSerLotList          | Edit a list of Serials and Lots for Order Entry                                       | none  |
| sxapiOEDirectRouteMnt           | OE Direct Route Maintenance   | oeet  |
| sxapiOEFullOrderMnt             | Do not use  | oeet  |
| sxapiOEFullOrderMntV2           | Do not use  | oeet  |
| sxapiOEFullOrderMntV3           | Do not use  | oeet  |
| sxapiOEFullOrderMntV4           | Do not use  | oeet  |
| sxapiOEFullOrderMntV5           | Do not use  | oeet  |
| sxapiOEFullOrderMntV6           | Create an OE order  | oeet  |
| sxapiOEGetAddonList             | Retrieve a list of OE addons  | none  |
| sxapiOEGetCreditHoldOrders      | Retrieve a set of OE orders that are on hold  | oeir  |
| sxapiOEGetDeliveryList          | Retrieve a list of OE orders for Direct Route Integration                             | none  |
| sxapiOEGetEdiValidationMessages | Retrieve a list of EDI Errors (EDIE) for a given sales order                          | oeio  |
| sxapiOEGetListOfBatchOrders     | Retrieve a set of OE Batch Orders   | oeebt |
| sxapiOEGetListOfOrders          | Retrieve a set of OE orders   | oeio  |
| sxapiOEGetListOfOrdersV2        | Retrieve a set of OE orders   | oeio  |
| sxapiOEGetListOfOrdersV3        | Retrieve a set of OE orders   | oeio  |
| sxapiOEGetListOfOrdersV4        | Retrieve a set of OE orders   | oeio  |
| sxapiOEGetListOfOrdersV5        | Retrieve a set of OE orders   | oeio  |
| sxapiOEGetLotList               | Retrieve a set of Lots that are eligible for selection for an OE Order                | none  |
| sxapiOEGetOrdersByServicekey    | Get ISM orders by SRO service key   | oeio  |
| sxapiOEGetSerialList            | Retrieve a set of Serials that are eligible for selection for an OE Order             | none  |
| sxapiOEGetServiceRentOrder      | Get the data (header, line items) for a single OE order created by Service and Rental | oeio  |
| sxapiOEGetShopListPastSales     | Retrieve a list of products that have been purchased before for a given customer      | oeio  |
| sxapiOEGetSingleBatchOrder      | Get the data (header, line items) for a single OE Batch Order                         | oeebt |
| sxapiOEGetSingleOrder           | Get the data (header, line items) for a single OE order                               | oeio  |
| sxapiOEGetSingleOrderV2         | Get the data (header, line items) for a single OE order                               | oeio  |
| sxapiOEGetSingleOrderV3         | Get the data (header, line items) for a single OE order                               | oeio  |
| sxapiOEHeaderUpdate             | Updates the order header for an open order  | none  |
| sxapiOEHoldAllOrders            | Hold all OE orders for a Customer/Ship To   | oeir  |
| sxapiOEOrdChgSerialLot          | Assign Serial/Lot Data to an Order  | none  |
| sxapiOEOrderCalc                | Taxing calculation for list of products   | oeet  |
| sxapiOEOrderChange              | Change an Order Entry Order   | oeet  |
| sxapiOEOrderChangeV2            | Change an Order Entry Order   | oeet  |
| sxapiOEOrderCopyConvert         | Convert a Quote to an order or copy an existing order to a new order                  | oeet  |
| sxapiOEOrderDeleteOrCancel      | Delete or cancel an OE order  | oeet  |
| sxapiOEOrderShipUnship          | Ship (or unship) an OE order  | oes   |
| sxapiOEPreauthCreditCard        | Preauthorize credit card data via VeriSign  | oeir  |
| sxapiOEPricing                  | Get Product Price and Availability  | oeip  |

# ION API Technical Documentation

|                                  |   |       |
|----------------------------------|---|-------|
| sxapiOEPricingExternal           | Get Product Price and Availability External Access Restrictions                                       | oeip  |
| sxapiOEPricingMultiple           | Get Product Price and Availability for multiple Products  | oeip  |
| sxapiOEPricingMultipleExternal   | Get Product Price and Availability for multiple Products External Access Restrictions                 | oeip  |
| sxapiOEPricingMultipleV2         | Get Product Price and Availability for multiple Products  | oeip  |
| sxapiOEPricingMultipleV3         | Get Product Price and Availability for multiple Products  | oeip  |
| sxapiOEPricingMultipleV4         | Get Product Price and Availability for multiple Products  | oeip  |
| sxapiOEPricingMultipleV5         | Get Product Price and Availability for multiple Products  | oeip  |
| sxapiOEPricingV2                 | Get Product Price and Availability  | oeip  |
| sxapiOEPricingV3                 | Get Product Price and Availability  | oeip  |
| sxapiOEPricingV4                 | Get Product Price and Availability  | oeip  |
| sxapiOEPricingV5                 | Get Product Price and Availability  | oeip  |
| sxapioereassigncustnoshipto      | Chg Custno or shipto on order   | oeet  |
| sxapiOEReceiveOnAccount          | OE Receive On Account   | oeet  |
| sxapiOEReleaseAllOrders          | Release all OE orders for a Customer/Ship To  | oeir  |
| sxapiPDEquatePricing             | Equate Pricing Integration API  | none  |
| sxapiPDEquatePricingTotals       | Equate Pricing Totals Integration API   | none  |
| sxapiPDPriceSheetMnt             | Import Pricing sheets for add or update   | pdsp  |
| sxapiPDPriceMnt                  | All Improved Price / Discounting Price Records Maintenance  | pdsp  |
| sxapiPDPriceMnt                  | Price / Discounting Price Records Maintenance   | pdfsc |
| sxapiPDRebateMnt                 | Price Rebate Records Maintenance  | pdsr  |
| sxapiPing                        | Simple API call to see if Appserver is working properly   | None  |
| sxapiPOAcknowledgement           | PO Acknowledgement  | edepp |
| sxapiPOAdvanceShipNotice         | PO Advance Ship Notice  | edeps |
| sxapiPOEditSerLotList            | Edit a list of Serials and Lots for PO Receiving, Re grind Receiving and Receiving Customer Inventory | none  |
| sxapiPOGetDeliveryList           | Retrieve a list of PO records for Direct Route Integration  | none  |
| sxapiPOGetDocumentList           | Retrieve a set of prepared PO XML Documents   | poep  |
| sxapiPOGetListOfPurchaseOrders   | Retrieve a set of Purchase Orders (PO)  | poio  |
| sxapiPOGetListOfPurchaseOrdersV2 | Retrieve a set of Purchase Orders (PO)  | poio  |
| sxapiPOGetListOfPurchaseOrdersV3 | Retrieve a set of Purchase Orders (PO)  | poio  |
| sxapiPOGetSinglePOXML            | Get the raw XML for a single PO   | poep  |
| sxapiPOGetSinglePurchaseOrder    | Get the data (header, line items) for a single purchase order   | poip  |
| sxapiPOGetSinglePurchaseOrderV2  | Get the data (header, line items) for a single purchase order   | poip  |
| sxapiPOHeaderUpdate              | Updates the PO header for an open PO  | none  |
| sxapiPOOrderDeleteOrCancel       | Delete or cancel a PO order   | poet  |
| sxapiPOPurchaseOrderMnt          | Create / Maintain a vendor purchase order   | poet  |
| sxapiPOPurchaseOrderMntV2        | Create / Maintain a vendor purchase order   | poet  |
| sxapiSAGetBusinessRule           | Retrieve an SX.enterprise Business Rule (sxxmlrule table) value                                       | none  |
| sxapiSAGetBuyerList              | Retrieve a list of Buyers   | none  |
| sxapiSAGetConnectionString       | Routine to get a connection string based on an input user ID (business rule driven)                   | none  |
| sxapiSAGetEnv                    | Get environment settings and session parameters   | none  |
| sxapiSAGetGenericDataList        | Get a list of generic data values (ex: whse's)  | none  |
| sxapiSAGetGenericDataListV2      | Get a list of generic data values (ex: whse's)  | none  |
| sxapiSAGetGenericDataListV3      | Get a list of generic data values (ex: whse's)  | none  |
| sxapiSAGetGenericDataListV4      | Get a list of generic data values (ex: whse's)  | nond  |
| sxapiSAGetInternalProcs          | Get a list of internal procedures in sxapi  | none  |
| sxapiSAGetLineComments           | Get line item notes for an order  | none  |
| sxapiSAGetLostBusinessList       | Retrieve a list of Lost Business Reasons  | none  |
| sxapiSAGetNotesList              | Retrieve a list of Note records   | none  |
| sxapiSAGetProcParams             | Get a list of parameters for a procedure  | none  |
| sxapiSAGetReportList             | Get a list of all the reports   | none  |
| sxapiSAGetReportStatus           | Retrieve a list of reports (SAPB)   | none  |

# ION API Technical Documentation

|                                |   |       |
|--------------------------------|---|-------|
| sxapiSAGetRptRangeOptions      | Get the options and ranges for a report   | none  |
| sxapiSAGetRptRangeOptionsV2    | Get the options and ranges for a report   | none  |
| sxapiSAGetShipViaList          | Retrieve a list of Ship Via's   | none  |
| sxapiSAGetSingleStoredReport   | Get the data for a single stored report   | none  |
| sxapiSAGetStoredReportList     | Retrieve a list of stored reports for a given report menu function  | none  |
| sxapiSAGetTermsList            | Retrieve a list of Terms  | none  |
| sxapiSAGetUnitOfMeasureList    | Retrieve a list of Unit Of Measures   | none  |
| sxapiSANoteChange              | Note maintenance – Retrieve, Add, Change or Delete Note records for a given subject                           | none  |
| sxapiSASubmitReport            | Submit a report for printing  | none  |
| sxapiSASubmitReportV2          | Submit a report for printing  | none  |
| sxapiSATableCodeMnt            | Add, Change SA Table Codes  | sastt |
| sxapiSFCustomerSummary         | Return general and balance information for a customer to Storefront   | none  |
| sxapiSFGetAssortmentItems      | Return assortment items (not currently stored in SX) to Storefront  | none  |
| sxapiSFGetBox                  | Return data for boxes shipped to Storefront   | none  |
| sxapiSFGetCorpGroup            | Return data for corporate groups (not currently stored in SX) to Storefront                                   | none  |
| sxapiSFGetCustComment          | Return customer or ship to notes to Storefront  | none  |
| sxapiSFGetCustomerMaster       | Return general data for customer and ship to's to Storefront  | none  |
| sxapiSFGetCustomerMasterV2     | Return general data for customer and ship to's to Storefront  | none  |
| sxapiSFGetEnvironment          | Return names of connected databases to Storefront   | none  |
| sxapiSFGetGenericData          | Return setup data to Storefront for initial data load or data update  | none  |
| sxapiSFGetGenericDataV2        | Return setup data to Storefront for initial data load or data update  | none  |
| sxapiSFGetInvoiceDetail        | Return data for an AR Invoice to Storefront   | none  |
| sxapiSFGetOEOrderData          | Return data for an OE order to Storefront   | none  |
| sxapiSFGetOEOrderDataV2        | Return data for an OE order to Storefront   | none  |
| sxapiSFGetOEOrderDataV3        | Return data for an OE order to Storefront   | none  |
| sxapiSFGetOEOrderHistory       | Return list of products purchased on OE orders to Storefront  | none  |
| sxapiSFGetOEOrderHistoryV2     | Return list of products purchased on OE orders  | none  |
| sxapiSFGetOpenARTransaction    | Return list of open AR transactions regardless of type for a customer, through a specified date to Storefront | none  |
| sxapiSFGetOpenARTransactionV2  | Return list of open AR transactions regardless of type for a customer, through a specified date               | none  |
| sxapiSFGetOpenInvoice          | Return list of open AR Invoices for a customer  | none  |
| sxapiSFGetOpenInvoiceV2        | Return list of open AR Invoices for a customer  | none  |
| sxapiSFGetOpenOEOrders         | Return OE orders with a specific product for a customer   | none  |
| sxapiSFGetPaidInvoice          | Return list of paid AR Invoices for a customer  | none  |
| sxapiSFGetPaidInvoiceV2        | Return list of paid AR Invoices for a customer  | none  |
| sxapiSFGetPriceAvail           | Return price and availability information   | none  |
| sxapiSFGetPriceAvailMultiple   | Return price and availability information for multiple products   | none  |
| sxapiSFGetPriceAvailMultipleV2 | Return price and availability information for multiple products   | none  |
| sxapiSFGetPriceAvailV2         | Return price and availability information to Storefront   | none  |
| sxapiSFGetPriceAvailV3         | Return price and availability information to Storefront   | none  |
| sxapiSFGetSalesStatistics      | Return sales history for a product to Storefront  | none  |
| sxapiSFGetShipToList           | Return general information for a customer ship to Storefront  | none  |
| sxapiSFGetShipToListV2         | Return general information for a customer ship to   | none  |
| sxapiSFGetTrackingNum          | Return the tracking number for a package to Storefront  | none  |
| sxapiSFOEOrderTotLoad          | Return OE order totals to Storefront or created new OE order from Storefront shopping cart                    | none  |
| sxapiSFOEOrderTotLoadV2        | Return OE order totals to Storefront or created new OE order from Storefront shopping cart                    | none  |

# ION API Technical Documentation

|                              |   |               |
|------------------------------|---|---------------|
| sxapiSFOEOrderTotLoadV3      | Return OE order totals to Storefront or created new OE order from Storefront shopping cart  | none          |
| sxapiSFOEOrderTotLoadV4      | Return OE order totals to Storefront or created new OE order from Storefront shopping cart  | none          |
| sxapiSFOEQuoteRelease        | Convert OE Quote to a stock order   | none          |
| sxapiSFProductRestriction    | StoreFront Restrict Products  | icsp          |
| sxapiSFValidateCustomer      | Confirm customer exists and return minimal data to Storefront   | none          |
| sxapiSFValidateCustomerV2    | Confirm customer exists and return minimal data to Storefront   | none          |
| sxapiShippingInterface       | Handles shipping interface communication  |               |
| sxapiSRAllowTieCancel        | Determines if a nonstock backorder tied to a PO can be cancelled.   | poet          |
| sxapiSRCountEntry            | Update the quantity counted for a product on a cycle or physical count run  | icepe         |
| sxapiSRCreateOEOrder         | Create an OE Order from the Storeroom   | none          |
| sxapiSRCreateOEOrderV2       | Create an OE Order from the Storeroom   | none          |
| sxapiSRDeleteCount           | Delete Cycle Count Runs from Storeroom  | icepu         |
| sxapiSREditICSerLotList      | Serial/Lot Edits for Storeroom Inventory Functions  | none          |
| sxapiSRGetDefaultPoWtShipVia | Get Default PO/WT Line Tie ShipVia  | none          |
| sxapiSRGetDefaultPrinters    | Get Default SR Printer and SR Printer Group List  | none          |
| sxapiSRGetDefaultRestockData | Retrieve Restock Fee and Type (Currency/Percent) based on SASBR Storeroom setups  | none          |
| sxapiSRGetItemBackorderData  | Retrieve a list of open (stage 1 & 2) backorders  | oeio          |
| sxapiSRGetItemTransData      | Retrieve al ist of item transactions  | icip          |
| sxapiSRGetNonstockPrice      | Retrieve the price for a non-stock product  | oeip          |
| sxapiSRGetOpenPOWTDData      | Retrieve a list of open PO's and WT's   | poio,<br>wtio |
| sxapiSRGetReturnOrderLines   | a list of Order Entry orders which a product can be returned against  | none          |
| sxapiSRGetTaxStatus          | Retrieve the taxable status of a product based on the customer and warehouse  | icip          |
| sxapiSRGetWarehouseList      | Retrieve a list of warehouses   | icip          |
| sxapiSRGetWhseProdBalances   | Retrieve the customer owned quantities, the distributor owned quantities and the total quantities for a product in a warehouse  | icip          |
| sxapiSRGetWhseProdListData   | Retrieve ICSW detail for a given product  | icip          |
| sxapiSRGetWhseProductData    | Retrieve ICSW detail for a product/whse   | icip          |
| sxapiSRInventoryAdjust       | Adjust distributor or customer on hand inventory quantities   | icepa         |
| sxapiSRInventoryTransfer     | Transfer distributor or customer inventory from one warehouse to another  | icew          |
| sxapiSROrderChange           | Update the OE order based upon actions taken against the order in the Storeroom   | oeet          |
| sxapiSRProcessBackOrder      | Update the lines on an OE order backorder based upon actions taken against the backorder in the Storeroom.  | oeet          |
| sxapiSRProcessBackOrderV2    | Update the lines on an OE order backorder based upon actions taken against the backorder in the Storeroom. Add new Nonstock lines and update order quantity and other fields on existing lines. | oeet          |
| sxapiSRProcessRegrindIn      | Process a Regrind In transaction, Ship OE Receive PO, or cancel.  | oees          |
| sxapiSRProcessRegrindOut     | Process a regrind out transaction. Creates OE/PO order to track processing.   | oeet          |
| sxapiSRReceiveCustInv        | Receive customer owned inventory into a storeroom managed warehouse   | icepa         |
| sxapiSRReceivePO             | Receive a PO for StoreRoom  | poei          |

# ION API Technical Documentation

|                                  |  |       |
|----------------------------------|--|-------|
| sxapiSRReceiveWT                 | Receive a WT for StoreRoom   | wtei  |
| sxapiSRShipWT                    | Ship a WT (with option to AutoReceive)   | wtes  |
| sxapiSRUnavailableAdjust         | Adjust distributor or customer unavailable inventory quantities                            | iceu  |
| sxapiSRUpdateCount               | Update Inventory Balances From ICSEP   | icepu |
| sxapiSRUpdateCustOnOrder         | Update Customer on Order Quantity  | icepa |
| sxapiSRUpdateWorkOrder           | Update Work Order – Build or Cancel  | kpea  |
| sxapiTokenGenerate               | Generate a Token Authorization   | none  |
| sxapiTWlGetCartonData            | TWL StoreFront Carton Retrieval  | none  |
| sxapiTWlGetTrackerNum            | TWL StoreFront Tracker Retrieval   | none  |
| sxapiWTApproveAllLines           | Approve all WT line items for a given WT order that is in “requested” stage                | wtia  |
| sxapiWTEditSerLotList            | Edit a list of Serial/Lots for WT Shipping and Receiving                                   | none  |
| sxapiWTGetDeliveryList           | Retrieve a list of WT records for Direct Route Integration                                 | none  |
| sxapiWTGetListOfTransferOrders   | Retrieve a set of WT orders  | wtio  |
| sxapiWTGetListOfTransferOrdersV2 | Retrieve a set of WT orders  | wtio  |
| sxapiWTGetLotList                | Retrieve a set of Lots that are eligible for selection for in WT Shipping and Receiving    | none  |
| sxapiWTGetSerialList             | Retrieve a set of Serials that are eligible for selection for in WT Shipping and Receiving | none  |
| sxapiWTGetSingleTransferOrder    | Get the data (header, line items) for a single WT order                                    | wtio  |
| sxapiWTGetSingleTransferOrderV2  | Get the data (header, line items) for a single WT order                                    | wtio  |
| sxapiWTHeaderUpdate              | Update the WT header of an open WT   | none  |
| sxapiWTTTransferDeleteOrCancel   | Delete or cancel a given WT order  | wtet  |
| sxapiWTTTransferOrderMnt         | Create or Change WT order  | wtet  |
| sxapiWTTTransferOrderMntV2       | Create or Change WT order  | wtet  |
| sxapiXMLProcessing               | Process XML Data   | none  |



# ION API Technical Documentation

## API Call Details

### API Call: *CustomDataGetList*

<https://<domain>/rest/serviceinterface/proxy/customdatagetlist>

**Purpose:** This call will retrieve data from a custom table which has been defined in SASCT

#### Parameters:

| REST Params    | Direction      | Description  |
|----------------|----------------|--|
| companyNumber  | Input/Required | Company # being accessed.  |
| operator       | Input/Required | A valid SASO operator ID   |
| TableName      | Input/Required | A valid SASCT database table to retrieve                               |
| recordlimit    | Input/optional | The limit of records to retrieve                                       |
| Key1           | Input/Optional | Retrieve data from key1 field  |
| Key2           | Input/Optional | Retrieve data from key2 field  |
| Key3           | Input/Optional | Retrieve data from key3 field  |
| Key4           | Input/Optional | Retrieve data from key4 field  |
| Key5           | Input/Optional | Retrieve data from key5 field  |
| Key6           | Input/Optional | Retrieve data from key6 field  |
| Key7           | Input/Optional | Retrieve data from key7 field  |
| keyword        | Input/Optional | Retrieve keywords from any of the key fields                           |
| Columns        | Input/Optional | A comma-delimited list of columns that you wish to retrieve from SASCT |
| ttblcustomdata | Output         | Array of rows that match the input criteria                            |

#### Notes:

The output data will be formatted as follows:

| ttblcustomdata |             |
|----------------|-------------|
| FieldName      | Data Type   |
| cono           | int         |
| tablename      | char        |
| key1           | char        |
| key2           | char        |
| key3           | char        |
| key4           | char        |
| key5           | char        |
| key6           | char        |
| key7           | char        |
| keywords       | char        |
| rowpointer     | char        |
| col1           | char        |
| col2           | char        |
| col3           | char        |
| col4           | char        |
| col5           | char        |
| col6           | char        |
| col7           | char        |
| col8           | char        |
| col9           | char        |
| col10          | char        |
| transdt        | date        |
| transm         | char        |
| transproc      | char        |
| operinit       | operator    |
| transdtmz      | datetime-tz |

# ION API Technical Documentation

## **API Call:**     *CustomDataReadByPointer*

**https://<domain>/rest/serviceinterface/proxy/customdatareadbyrowp**

**Purpose:** The actual endpoint name is “customerdatareadbyrowp”. This call will retrieve data from a specific row in the custom SASCT table. This is a required step in order to update a specific record. After using **customdatagetlist** to find the row you desire, this API must be executed to retrieve the entire data in order to do the update.

### **Parameters:**

| REST Params   | Direction      | Description  |
|---------------|----------------|--|
| companyNumber | Input/Required | Company # being accessed.  |
| operator      | Input/Required | A valid SASO operator ID   |
| rowpointer    | Input/Required | The rowpointer or unique identifier to retrieve a row from the SASCT table |
| <tablename>   | Output         | The full row of pertaining to the row pointer                              |

### **Notes:**

The response will contain the SASCT tablename and all of its fields. It will return the table name (test in the example below) and all the fields where field1 and field2 are the actual names of the fields as defined in SASCT.

```
{
  "test": [
    {
      "field1": "zzzz3",
      "field2": "33"
    }
  ]
}
```

# ION API Technical Documentation

## API Call: *CustomDataCreate*

**https://<domain>/rest/serviceinterface/proxy/customdatacreate**

**Purpose:** This call will create a new record for a table that has been defined in SASCT

### Parameters:

| REST Params   | Direction      | Description  |
|---------------|----------------|--|
| companyNumber | Input/Required | Company # being accessed.                                  |
| operator      | Input/Required | A valid SASO operator ID                                   |
| TableName     | Input/Required | A valid SASCT table name                                   |
| Key1          | Input/required | If key1 has been defined in SASCT this is a required field |
| Key2          | Input          | If key2 has been defined in SASCT this is a required field |
| Key3          | Input          | If key3 has been defined in SASCT this is a required field |
| Key4          | Input          | If key4 has been defined in SASCT this is a required field |
| Key5          | Input          | If key5 has been defined in SASCT this is a required field |
| Key6          | Input          | If key6 has been defined in SASCT this is a required field |
| Key7          | Input          | If key7 has been defined in SASCT this is a required field |
| keyword       | Input/Optional | Additional keywords  |
| <tablename>   | Input/Required | A valid SASCT table name containing the fields to assign   |
| Message       | Output         | Contains error messages                                    |

### Note:

The table name “test” has been defined in SASCT with 2 fields which are named “field1” and “field2”. Also Key1 and key2 have been defined for index purposes. Below is an example of how to create a new record in the “test” table. The key1 and key2 values must be unique. The API will not allow rows with duplicate key values. Also, even though the fields in the JSON are designated as string, the field values must match the data type declared in SASCT or an error will be returned.

### Example

```
{
  "CompanyNumber": 1000,
  "Operator": "web",
  "tablename": "test",
  "key1": "A",
  "key2": "B",
  "key3": "",
  "key4": "",
  "key5": "",
  "key6": "",
  "key7": "",
  "keywords": "",
  "test": [
    {
      "field1": "X2222",
      "field2": "22222"
    }
  ]
}
```

# ION API Technical Documentation

## **API Call:**     *CustomDataDelete*

**https://<domain>/rest/serviceinterface/proxy/customdatadelete**

**Purpose:** This call will delete one from a custom table that has been defined in SASCT

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/Required   | Company # being accessed.                                 |
| operator           | Input/Required   | A valid SASO operator ID                                  |
| TableName          | Input/Required   | A valid SASCT table name                                  |
| Key1               | Input/optional   | For future use  |
| Key2               | Input/optional   | For future use  |
| Key3               | Input/optional   | For future use  |
| Key4               | Input/optional   | For future use  |
| Key5               | Input/optional   | For future use  |
| Key6               | Input/optional   | For future use  |
| Key7               | Input/optional   | For future use  |
| keyword            | Input/optional   | For future use  |
| rowpointer         | Input/Required   | If a rowpointer is provided, it will delete this row only |
| Col1               | Input/optional   | For future use  |
| Col2               | Input/optional   | For future use  |
| Col3               | Input/optional   | For future use  |
| Col4               | Input/optional   | For future use  |
| Col5               | Input/optional   | For future use  |
| Col6               | Input/optional   | For future use  |
| Col7               | Input/optional   | For future use  |
| Col8               | Input/optional   | For future use  |
| Col9               | Input/optional   | For future use  |
| Col10              | Input/optional   | For future use  |
| Transdt            | Input/optional   | For future use  |
| transtm            | Input/optional   | For future use  |
| Complete           | Output           | Boolean true if successful                                |

### **Note:**

In the future, this should allow deletion of multiple rows. But for now, you provide the tablename and row point. This will allow it to delete one row at a time.

# ION API Technical Documentation

## API Call: *CustomDataUpdate*

**https://<domain>/rest/serviceinterface/proxy/customdataupdate**

**Purpose:** This call will update an existing record for a table that has been defined in SASCT

### Parameters:

| REST Params   | Direction      | Description  |
|---------------|----------------|--|
| companyNumber | Input/Required | Company # being accessed.                                |
| operator      | Input/Required | A valid SASO operator ID                                 |
| TableName     | Input/Required | A valid SASCT table name                                 |
| rowpointer    | Input/Required | A valid rowpointer to a custom row for the table         |
| Keywords      | Input/optional | Updating keywords  |
| <tablename>   | Input/Required | A valid SASCT table name containing the fields to assign |
| Complete      | Output         | Boolean true if successful                               |

### Note:

In order to properly execute this API call, you must first run **customdatareadbyp** then take ALL the data from the tablename object and return it in this API call changing the fields that you need to make changes to. If you omit any fields, those missing fields will be blanked out as part of the update.

```
{
  "CompanyNumber": 1000,
  "Operator": "web",
  "tablename": "test",
  "rowpointer": "8167253c-a628-feb9-a914-5eeabce3381c",
  "keywords": "",
  "test": [
    {
      "field1": "zzzz3",
      "field2": "33"
    }
  ]
}
```

# ION API Technical Documentation

### API Call: *FetchWhere*

**http://<domain>/rest/serviceinterface/proxy/FetchWhere**

**Purpose:** This call will retrieve database table information based on the criteria provided

### Parameters:

| REST Params   | Direction      | Description  |
|---------------|----------------|--|
| companyNumber | Input/Required | Company # being accessed.  |
| operator      | Input/Required | A valid SASO operator ID   |
| TableName     | Input/Required | A valid CSD database table to retrieve (see list below).   |
| WhereClause   | Input/Required | The query of selection critieria needed to retrieve data. The syntax for this query is the same as that of a where clause on a Progress FOR EACH statement |
| BatchSize     | Input/Optional | The limit of records to retrieve.  |
| RestartRowid  | Input/Optional | Rowid (internal pointer) to begin searching  |

### Available Table List:

[illegible]

# ION API Technical Documentation

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## Timeout Override:

To override the 45 seconds timeout, there is an SASBR business rule:

**Global/Company:** global

**DocHandler:** config

**Direction:** None

**Node Name:** Infor.Webui

**Attribute Name:** fetchwheretimeout

**Rule Type:** es\_timeout

**Rule Value:** <timeout in seconds>

## SAMPLE Request Object:

```
{
  "CompanyNumber": 1000,
  "Operator": "sys",
  "TableName": "arsc",
  "WhereClause": "arsc.cono = 1 and arsc.custno = 101",
  "BatchSize": 1,
  "RestartRowID": ""
}
```

**WhereClause** is submitted with Progress syntax and not SQL

- Use **CAN-DO** rather than **IN**
- Use **MATCHES** rather than **LIKE**
- Use **<>** rather than **!=**
- Follow Progress index rules for best performance

**RestartRowID** is an internal pointer used to get the next page. You should use the value from the last dataset retrieved. If no RestartRowID was returned, that indicates that you have no more rows to find.

**WARNING:** The output response object will vary for each table. Also a specific table response may change over time. It is a mirror of the database schema. So when the schema changes, the response object will reflect the new changes.

# ION API Technical Documentation

## API Call: *FileTransfer*

**http://<domain>/rest/serviceinterface/proxy/FileTransfer**

**Purpose:** This call will write a file to the server machine

### Parameters:

| REST Params    | Direction      | Description  |
|----------------|----------------|--|
| companyNumber  | Input/Required | Company # being accessed.  |
| operatorInit   | Input/Required | A valid SASO operator ID   |
| subdir         | Input/Required | subdirectory of the tenant's area                                      |
| adddatetime    | Input/Optional | Adds the date and time to the filename before the extension            |
| Base64contents | Input/Optional | base64 encoded longchar/string that represents the output of the file. |
| filecontents   | Input/Optional | longchar/string that represents the output of the file.                |
| overwrite      | Input/Optional | file is allowed to be overwritten                                      |

### Note:

### Example of simple base64 file transfer

```
{
  "companyNumber": 1000,
  "operatorInit": "sys",
  "subdir": "ProductImport",
  "filename": "testfile.txt",
  "adddatetime": false,
  "base64contents": WUiOiAidGVzdGZpbGhc2U2NGZpbGUlLAoib3ZsdIndyaXRlI
  "overwrite": false
}
```

### Example of simple ASCII file transfer

```
{
  "companyNumber": 1000,
  "operatorInit": "sys",
  "filename": "testfile.txt",
  "adddatetime": false,
  "filecontents": "test file here\n",
  "overwrite": false
}
```

Where

**subdir:** [optional]

The subdirectory of the tenant's area /reports/TENANTID/. If the subdirectory doesn't exist in the filesystem, the transfer will fail.

Example: "ProductImport" will create the file in /reports/TENANTID/ProductImport/

**filename:** [required]

Example: "prod.csv", or "customer.txt", etc.

**adddatetime:** [optional, defaults to false]

Adds the date and time to the filename before the extension.

IE: if the filename is "prod.csv" and adddatetime is true, then the filename will follow the pattern:



# ION API Technical Documentation

---

prod\_YYYYMMDD\_HHMMSSsss.csv  
prod\_20200825\_1420051294.csv

**overwrite:** [optional, defaults to false]

If true, the file is allowed to be overwritten.

If false and the file already exists, then the transfer will fail.

**filecontents:**

Contains a longchar/string that represents the output of the file.

\n can be used as a linefeed.

It can be as large as 2gb (the limit of a longchar).

filecontents and base64contents cannot both be in the body of the same request.

**base64contents:**

Contains a base64 encoded longchar/string that represents the output of the file.

It can be as large as 2gb (the limit of a longchar).

## Successful Response (200)

```
{
  "companyNumber": 1000,
  "operatorInit": "sys",
  "filename": "testfile.txt",
  "adddatetime": false,
  "filecontents": "test file here\n",
  "overwrite": false
}
```

## Failed Response (400)

```
{
  "status": "error",
  "errorMessage": "Error: File already exists.",
  "finalFile": "/reports/<TENANTID>/testfile.txt",
  "fileSizeBytes": 136,
  "timeRunSec": 0,
  "timeRunMS": 7,
  "errorMsg": "Error: File already exists.",
  "cErrorMessage": "Error: File already exists."
}
```

# ION API Technical Documentation

## Retrieving a List of Files with FileTransfer (as of 2022.10)

```
{
  "CompanyNumber": 1000,
  "Operator": "sys",
  "direction": "list",
  "filetype": "p",
  "filenamepattern": "*.log"
}
```

This object will request a list of files from CSD

Where **filetype** is:

<blank> - returns files from /reports/TENANTID/

P – return files from /reports/TENANTID/productimport

E – returns files from EDI dir

L – returns files from logs dir

B – returns files from labels dir

D – returns files from DATACONV.dir

R – returns files from EXTENSIONS dir

C – returns files from CUSTOM dir

## Retrieving a specific file from CSD (as of 2022.10)

```
{
  "CompanyNumber": 1000,
  "Operator": "sys",
  "filename": "test.txt",
  "direction": "outbound",
  "outmode": "lcreponse",
  "emailaddr": "",
  "subdir": "",
  "afterxfer": ""
}
```

This object will request a specific file from CSD

Where:

**filename** contains the name of the file

**Outmode**

- “lcreponse” instructs the api to return the file contents in the API call
- “base64response” instructs the api to return the file contents in the API call in base64 format
- “email” instructs the api instructs to return the file as an attachment to an email

**Subdir** – sub directory in csd where the file is. Ie: ProductImport

- All files are under /report/TENANT\_NAME/...
- /report/TENANT\_NAME/subdir..

**Afterxfer** – optional , if not used, file remains.

- Delete – deletes the file.
- Rename – renames the file adding .bk to the file name.

# ION API Technical Documentation

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## Response:

```
{
  "filename": "/reports/ITSGDENA056_DEM/test.p",
  "lccontents": "for each arsc where arsc.cono 1000 no-lock:      display
arsc.custno arsc.name.  end.",
  "status": "ok",
  "command": "",
  "output": "",
  "errorMessage": "",
  "timeRunSec": 0,
  "timeRunMS": 14
}
```

The **lccontents** will contain the content of the file that is being returned.  
The **lccontents** string can be as large as 1GB (the limit of a longchar).

## Request for base64 output

```
{
  "CompanyNumber": 1000,
  "Operator": "sys",
  "filename": "test.p",
  "direction": "outbound",
  "outmode": "base64response",
  "emailaddr": "",
  "subdir": "",
  "afterxfer": ""
}
```

## Request for email output

```
{
  "CompanyNumber": 1000,
  "Operator": "sys",
  "filename": "test.p",
  "direction": "outbound",
  "outmode": "email",
  "emailaddr": "ron.stephens@infor.com",
  "subdir": "",
  "afterxfer": ""
}
```

# ION API Technical Documentation

## **API Call:** *sxapiaddressvalidation*

**Purpose:** If you are using either of the Avatax, Vertex, or Taxware systems, this API will validate your address based on those systems. Multiple addresses may be submitted.

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified                                |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)         |
| t-in-addr-validation  | Input/Required | Array object containing address info                                   |
| t-infieldvalue        | Input/Optional | An optional array parameter for additional info                        |
| cErrorMessage         | Output         | Error message – Any error messages will be returned in this parameter. |
| t-out-addr-validation | Output         | Output array object containing normalized address info                 |
| t-outfieldvalue       | Output         | An optional array parameter for additional info                        |

### **Notes:**

The request object contains the t-in-addr-validation array (shown below). It contains the address information to validate. The output for this API call is an array known as “t-out-addr-validation” with the normalized address if the address was found

| t-in-addr-validation/t-out-addr-validation |           |
|--|-----------|
| Field Name                                 | Data Type |
| streetaddr                                 | character |
| streetaddr2                                | character |
| streetaddr3                                | character |
| city                                       | character |
| country                                    | character |
| county                                     | character |
| geocd                                      | integer   |
| state                                      | character |
| zipcd                                      | character |
| zipcdext                                   | character |
| docidentifier                              | character |
| addressoverfl                              | boolean   |
| customparam                                | character |

# ION API Technical Documentation

## API Call: *sxapiAPGetShipFmList*

**Purpose:** This call will retrieve a list of Ship From records (APSS) based on a variety of selection criteria.

### Parameters:

| REST Params            | Direction      | Description   |
|------------------------|----------------|---|
| companyNumber          | Input/required | Company #   |
| operatorInit           | Input/required | SASO operator for the company specified   |
| operatorPassword       | Input/optional | SASO operator password (only required if business rule is set)  |
| vendorNumber           | Input/Optional | Name – An optional parameter to select records using a vendor number.   |
| shipFromNumber         | Input/Optional | An optional parameter to select records using a ship from number  |
| phoneNumber            | Input/Optional | Phone # - An optional parameter to select records based on a beginning phone # value.   |
| name                   | Input/Optional | Lookup Name – An optional parameter to select vendors based on a beginning lookup name.   |
| city                   | Input/Optional | City – An optional parameter to select vendors based on a beginning city value.   |
| state                  | Input/Optional | State – An optional parameter to select vendors based on a beginning state value.   |
| postalCode             | Input/Optional | Zip Code – An optional parameter to select vendors based on a beginning zip code value.   |
| includeClosedShipFroms | Input/Optional | Inactive flag – If set to “yes” inactive vendor records will be selected. If set to “no”, then only active vendors will be selected.  |
| sortCode               | Input/Optional | Sort Option that controls the sorting of the set of records that were selected:<br>“a” – Vendor #<br>“b” – Name<br>“c” – City<br>“d” – Zip Code<br>all other – Vendor # as well |
| recordLimit            | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of records selected. If this field is zero, no record count limiting will occur.              |
| errorMessage           | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable   | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-Shipfmlst            | Output         | t-shipfmlst collection. Each row in the collection represents one record found in the APSS table that qualified based on the selection criteria.                                |

### Notes:

The output for this API call is a collection known as “t-shipfmlst”. This collection will contain 1 record for each APSS record selected. The following is a list of those fields that will be populated for this API call:

| t-shipfmlst |           |
|-------------|-----------|
| Field Name  | Data Type |
| vendno      | decimal   |
| shipfmno    | integer   |
| name        | character |
| addr1       | character |
| addr2       | character |
| addr3       | character |
| city        | character |
| state       | character |
| zip         | character |
| phoneno     | character |
| sortfld     | character |
| countrycd   | Character |

# ION API Technical Documentation

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|           |           |
|-----------|-----------|
| shipviaty | character |
|-----------|-----------|

# ION API Technical Documentation

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**API Call:** *sxapiAPGetVendorDataEDI*

**Purpose:** This call is used to return “EDI” information for a given vendor / ship from.

**Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified                                |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)         |
| vendorNumber            | Input/Required | This is the required numeric vendor #                                  |
| shipFromNumber          | Input/Optional | This is the optional numeric ship from #.                              |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter. |
| eCommerceType           | Output         | eCommerce Type   |
| edi846Number            | Output         | EDI 846 Number (Advice Number)   |
| edi846Version           | Output         | EDI 846 Version  |
| ediNetwork              | Output         | EDI Network  |
| ediPartnerAddress       | Output         | EDI Partner Address  |
| ediPartner              | Output         | EDI Partner  |
| ediPurchaseOrderVersion | Output         | EDI PO Version   |
| ediYourAddress          | Output         | EDI Your Address   |
| ediPaymentType          | Output         | EDI Payment Type   |
| ediPurchaseOrderType    | Output         | EDI PO To  |
| ediQuoteType            | Output         | EDI Quote Type   |
| ediRebateType           | Output         | EDI Rebate Type  |
| paymentType             | Output         | Payment Type   |
| updatePrice             | Output         | Update Price   |
| vendorBankAccount       | Output         | Vendor Bank Account  |
| vendorBankTransitNumber | Output         | Vendor Bank Transit Routing #  |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiAPGetVendorDataGeneral*

**Purpose:** This call is used to return “General” information for a given vendor / ship from.

### **Parameters:**

| REST Params              | Direction      | Description  |
|--------------------------|----------------|--|
| companyNumber            | Input/required | Company #  |
| operatorInit             | Input/required | SASO operator for the company specified                                |
| operatorPassword         | Input/optional | SASO operator password (only required if business rule is set)         |
| vendorNumber             | Input/Required | This is the required numeric vendor #                                  |
| shipFromNumber           | Input/Optional | This is the optional numeric ship from #.                              |
| errorMessage             | Output         | Error message – Any error messages will be returned in this parameter. |
| address1                 | Output         | Address line 1   |
| address2                 | Output         | Address line 2   |
| address3                 | Output         | Address line 3 (future)  |
| apCustomerNumber         | Output         | AP Customer #  |
| vendorClass              | Output         | Vendor Class   |
| arCustomerNumber         | Output         | AR Customer #  |
| bankNumber               | Output         | Bank #   |
| city                     | Output         | City   |
| comment                  | Output         | Comment  |
| countryCode              | Output         | Country Code   |
| countryCodeDescription   | Output         | Country Code Description   |
| currencyType             | Output         | Currency Type  |
| disputeFlag              | Output         | Dispute Flag   |
| divisionNumber           | Output         | Division #   |
| dunsNumber               | Output         | Duns #   |
| emailAddress             | Output         | Email Address  |
| enteredDate              | Output         | Entered Date   |
| excludeECommerceType     | Output         | Exclude eCommerce Type   |
| expediterName            | Output         | Expediter Name   |
| expediterPhoneNumber     | Output         | Expediter Phone #  |
| faxPhoneNumber           | Output         | Fax #  |
| invoiceType              | Output         | Invoice Type   |
| languageCode             | Output         | Language Code  |
| languageCodeDescription  | Output         | Language Code Description  |
| lookupName               | Output         | Lookup Name  |
| name                     | Output         | Name   |
| notesIndicator           | Output         | Notes Flag   |
| phoneNumber              | Output         | Phone #  |
| salesRepName             | Output         | Sales Rep (slsnm)  |
| salesRepPhoneNumber      | Output         | Sales Rep Phone # (slsphoneno)   |
| state                    | Output         | State  |
| statusType               | Output         | Status Type  |
| syncCRMFlag              | Output         | Sync CRM Flag  |
| termsType                | Output         | Terms Type   |
| termsTypeDescription     | Output         | Terms Type Description   |
| sendChecksToVendorNumber | Output         | Vendor # 2 (send checks to)  |
| vendorType               | Output         | Vendor Type  |
| postalCode               | Output         | Zip Code   |
| lastUpdate               | Output         | Last Update Date / Time / Init / Transproc                             |

### **Notes:**



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## **API Call:** *sxapiAPGetVendorDataOrdering*

**Purpose:** This call is used to return "Ordering" information for a given vendor / ship from.

### **Parameters:**

| REST Params               | Direction      | Description  |
|---------------------------|----------------|--|
| companyNumber             | Input/required | Company #  |
| operatorInit              | Input/required | SASO operator for the company specified                                |
| operatorPassword          | Input/optional | SASO operator password (only required if business rule is set)         |
| vendorNumber              | Input/Required | This is the required numeric vendor #                                  |
| shipFromNumber            | Input/Optional | This is the optional numeric ship from #.                              |
| errorMessage              | Output         | Error message – Any error messages will be returned in this parameter. |
| addonNumber1              | Output         | Addon # 1  |
| addonNumber2              | Output         | Addon # 2  |
| ap1099Name                | Output         | AP 1099 Name   |
| backorderFlag             | Output         | Backorder Flag   |
| centralBuyFlag            | Output         | Central Buy Flag   |
| fed1099Box                | Output         | Fed 1099 Box   |
| fed1099Number             | Output         | Fed 1099 No  |
| fedTaxId                  | Output         | Fed Tax ID   |
| fobFlag                   | Output         | FOB Flag   |
| grossNetFlag              | Output         | Gross / Net Flag   |
| gstStatus                 | Output         | GST Status   |
| gstType                   | Output         | GST Type   |
| numberPOCopies            | Output         | # PO Copies  |
| orderDisposition          | Output         | Order Disposition  |
| resaleFlag                | Output         | Resale Flag  |
| salesManagerFlag          | Output         | Sales Manager Flag   |
| shipViaType               | Output         | Ship Via   |
| shipViaTypeDescription    | Output         | Ship Via Description   |
| substituteFlag            | Output         | Substitutes Flag   |
| webPage                   | Output         | Web Page   |
| webPageExternal           | Output         | Web Page External  |
| wIASNCreate               | Output         | WL ASN Create Flag   |
| wholeOrderDiscountPercent | Output         | Whole Order Discount Percent   |
| wholeOrderDiscountType    | Output         | Whole Order Discount Type  |

### **Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiAPGetVendorList*

**Purpose:** This call will retrieve a list of Vendor records (APSV) based on a variety of selection criteria.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| name             | Input/Optional | Name – An optional parameter to select vendors based on a beginning name value.  |
| lookupName       | Input/Optional | Lookup Name – An optional parameter to select vendors based on a beginning lookup name.  |
| vendorNumber     | Input/Optional | Vendor # - An optional parameter that can be used when the exact Vendor # is known and wants to be used to retrieve that one vendor. All other selection fields will be ignored. |
| city             | Input/Optional | City – An optional parameter to select vendors based on a beginning city value.  |
| state            | Input/Optional | State – An optional parameter to select vendors based on a beginning state value.  |
| zipCd            | Input/Optional | Zip Code – An optional parameter to select vendors based on a beginning zip code value.  |
| phone            | Input/Optional | Phone # - An optional parameter to select vendors based on a beginning phone # value.  |
| inactiveFlag     | Input/Required | Inactive flag – If set to “yes” inactive vendor records will be selected. If set to “no”, then only active vendors will be selected.   |
| keyWord1         | Input/Optional | Optional Keyword # 1 parameter   |
| keyWord2         | Input/Optional | Optional Keyword # 2 parameter   |
| keyWord3         | Input/Optional | Optional Keyword # 3 parameter   |
| keyWord4         | Input/Optional | Optional Keyword # 4 parameter   |
| keyWord5         | Input/Optional | Optional Keyword # 5 parameter   |
| sort             | Input/Optional | Sort Option that controls the sorting of the set of data that was selected:<br>“a” – Vendor #<br>“b” – Name<br>“c” – City<br>“d” – Zip Code<br>all other – Vendor # as well      |
| recordLimit      | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of records selected. If this field is zero, no record count limiting will occur.               |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsFlag  | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| t-vendlst        | Output         | t-vendlst collection. Each row in the collection represents one record found in the APSV table that qualified based on the selection criteria.                                   |

### **Notes:**

The output for this API call is a collection known as “t-vendlst”. This collection will contain 1 row for each vendor selected. The following is a list of those fields that will be populated for this API call:

| t-vendlst  |           |
|------------|-----------|
| Field Name | Data Type |
| vendno     | decimal   |
| shipfm     | character |

# ION API Technical Documentation

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|          |           |
|----------|-----------|
| name     | character |
| addr1    | character |
| addr2    | character |
| city     | character |
| state    | character |
| zip      | character |
| ordbal   | decimal   |
| totalbal | decimal   |
| sortFld  | character |

# ION API Technical Documentation

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**API Call:** ***sxapiAPIInvoiceImport***

**Purpose:** This call will create vendor invoices by capturing the data below and running APEGE.

This API has been removed. Please use the Supplier Invoice BOD instead.

# ION API Technical Documentation

## **API Call:** *sxapiAPVendorMnt*

**Purpose:** This call will maintain (add, change) Vendor (APSV) and Vendor Ship From (APSS) records.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-mnt-tt         | Input/Required | This first parameter is a collection that defines the operation to perform (see notes section)                          |
| extraData        | Input/Not Used | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – This parameter will contain a pipe ( ) delimited list of information as to the success of the operator. |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

| Table from Parameter t-mnt-tt |                   |
|-------------------------------|-------------------|
| Field Name                    | Data Type         |
| Setno                         | numeric / integer |
| Seqno                         | numeric / integer |
| key1                          | character         |
| key2                          | character         |
| Updatemode                    | Character         |
| Fieldname                     | Character         |
| Fieldvalue                    | character         |

All of the records, within the collection, are grouped together by a Set #. Each Set # represents a single operation that will be performed against the CSD system.

The seq # is just a sequential number that forces the collection rows to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “add” or “chg”. “del” is not supported.

The “fieldname” field is the field that will be updated, within the CSD database table (APSV or APSS). See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the Vendor # during a “chg” operation. It can also be used during the “add” operation to specify the Vendor # to be assigned (cannot be already used within SX) for the new vendor being added. During an “add” operation, the “key1” field can be left blank and the next available Vendor # will be used.

The “key2” field is only used for a Ship From (APSS) operation. That is, when adding or changing a Ship From record, the ship from # must be specified in “key2”.

Example of a new Vendor (APSV) being added:

| set# | seq# | updatemode | key1 | key2 | fieldname | fieldvalue           |
|------|------|------------|------|------|-----------|----------------------|
| 1    | 1    | add        |      |      | addr1     | 5760 Eldora Drive    |
| 1    | 2    | add        |      |      | addr2     | suite 300            |
| 1    | 3    | add        |      |      | city      | Colorado Springs     |
| 1    | 4    | add        |      |      | state     | co                   |
| 1    | 5    | add        |      |      | zipcd     | 80918                |
| 1    | 6    | add        |      |      | name      | Allan Bradley Supply |

# ION API Technical Documentation

The following is a list of valid “fieldname” values:

addonno1, addonno2, addr1, addr2, addr3, ap1099nm, apcustno, apinvtolamt, apinvtolpct, aplntolamt, aplntolpct, apqtytolamt, apqtytolpct, apvendcls, apvendtofl, arcustno, bankno, bofl, capaddonamt1, capaddonamt2, capaddonamt3, capaddonamt4, capaddonno1, capaddonno2, capaddonno3, capaddonno4, capaddontype1, capaddontype2, capaddontype3, capaddontype4, centbuyfl, city, comment, coreprice, countrycd, currbal, currencyty, disclstytd, discly, disctknytd, disputevndfl, divno, domesticbal, dunsno, edi846no, edi846ver, edictrlno, edienvtag1, edienvtag2, ediinpswd, edilevel, edinetwork, edioutpswd, edipartaddr, edipartner, edipover, ediyouraddr, email, enterdt, epmttype, epoto, epotype, equoteto, equotetype, erebtype, expednm, exphoneno, faxphoneno, fed1099box, fed1099no, fedtaxid, fobfl, gldefaultfl, grossnetfl, gststatus, gsttype, invly, invtype, invytd, langcd, lastactdt, lastinvdt, lastpaydt, lastpodt, lastpono, lookupnm, name, nopocopies, nopoytd, notimelate, ordbal, orderdisp, paymentty, paymtly, paymytd, phoneno, proctype, rebatesdue, rebatesly, rebatesytd, resalefl, returnsly, returnsytd, rmaamount, salesmgrfl, shipfmno, shipviaty, slsnm, slsphoneno, state, statustype, subfl, termstype, updtprice, updtsrc, user1, user2, user3, user4, user5, user6, user7, user8, user9, vendbankacct, vendbanktrno, vendno2, vendtype, webpage, webpageext, wodiscpct, wodiscptype, zipcd,

As the collection rows are read, the following validation will be performed if the data for that field has been included in the input collection:

| Field Name  | Validation  |
|-------------|---|
| addonno1    | Must be defined in the SASTN table (codeiden = “x”) |
| addonno2    | Must be defined in the SASTN table (codeiden = “x”) |
| arcustno    | Must be defined in the ARSC table                   |
| bankno      | Must be defined in the CRSB table                   |
| capaddonno1 | Must be defined in the SASTN table (codeiden = “x”) |
| capaddonno2 | Must be defined in the SASTN table (codeiden = “x”) |
| capaddonno3 | Must be defined in the SASTN table (codeiden = “x”) |
| capaddonno4 | Must be defined in the SASTN table (codeiden = “x”) |
| countrycd   | Must be defined in the SASTA table (codeiden = “w”) |
| currencyty  | Must be defined in the SASTC table                  |
| divno       | Must be defined in the SASTN table (codeiden = “v”) |
| epmttype    | Must be blank or “e”                                |
| epotype     | Must be blank, “f”, or “e”                          |
| erebtype    | Must be blank, or “e”                               |
| fed1099box  | Must be >= 0 and <= 18                              |
| gsttype     | Must be “r”, “u”, or “f”                            |
| langcd      | Must be defined in the SASTA table (codeiden = “y”) |
| name        | Must be non-blank                                   |
| orderdisp   | Must be blank, “s”, “w”, or “t”                     |
| shipviaty   | Must be defined in the SASTA table (codeiden = “s”) |
| termstype   | Must be defined in the SASTA table (codeiden = “t”) |
| vendno2     | Must be defined in the APSV table                   |

# ION API Technical Documentation

## **API Call:** *sxapiARCreateTransaction*

**Purpose:** This call will create an ARET transaction

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber   | Input/Required | Valid ARSC customer number   |
| shipTo           | Input/optional | Ship to code   |
| divisionNumber   | Input/optional | Division # is only needed if you are divisionalized  |
| invoiceNumber    | Input/required |  |
| reference        | input          | Reference value (if begins with “#” followed by a number it will return the SASTT reference description) |
| termsType        | Input/required | Valid terms type code  |
| amount           | Input/required | Transaction amount   |
| postdate         | Input/optional | If not provided postdt will default to the current date  |
| t-glaccount      | Input/optional | GI accounts for the ar transaction   |
| t-infieldvalue   | Input/optional | Misc input data  |
| arTrans          | output         | Return invoice number if applicable  |
| cErrorMessage    | Output         | Error message  |
| t-messages       | Output         | Return collection of error messages.   |
| t-outfieldvalue  | Output         | Misc output data   |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

| Table from Parameter t-glaccount |                   |
|----------------------------------|-------------------|
| Field Name                       | Data Type         |
| gldivno                          | numeric / integer |
| gldeptno                         | numeric / integer |
| glacctno                         | numeric / integer |
| glsubno                          | numeric / integer |
| glamount                         | numeric / integer |

| Table from Parameter t-infieldvalue |                   |
|-------------------------------------|-------------------|
| Field Name                          | Data Type         |
| level                               | numeric / integer |
| lineno                              | numeric / integer |
| seqno                               | numeric / integer |
| fieldname                           | character         |
| fieldvalue                          | character         |

| Table from Parameter t-messages |                   |
|---------------------------------|-------------------|
| Field Name                      | Data Type         |
| setno                           | numeric / integer |
| seqno                           | numeric / integer |
| fieldname                       | character         |
| messagetext                     | character         |

| Table from Parameter t-outfieldvalue |                   |
|--------------------------------------|-------------------|
| Field Name                           | Data Type         |
| level                                | numeric / integer |
| lineno                               | numeric / integer |
| seqno                                | numeric / integer |
| fieldname                            | character         |
| fieldvalue                           | character         |

# ION API Technical Documentation

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# ION API Technical Documentation

## **API Call:** *sxapiARCustomerMnt*

**Purpose:** This call will maintain (add, change) Customer (ARSC) and Customer Ship To (ARSS) records.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-mnt-tt         | Input/Required | This first parameter is a collection that defines the operation to perform (see notes section)                          |
| extraData        | Input/NotUsed  | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – This parameter will contain a pipe ( ) delimited list of information as to the success of the operator. |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|            |                   |
|------------|-------------------|
| setno      | numeric / integer |
| seqno      | numeric / integer |
| key1       | character         |
| key2       | character         |
| updatemode | character         |
| fieldname  | character         |
| fieldvalue | character         |

All of the records, within the collection, are grouped together by a Set #. Each Set # represents a single operation that will be performed against CSD.

The seq # is just a sequential number that forces the collection rows to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “add” or “chg”..

The “fieldname” field is the field that will be updated, within the CSD database table (ARSC or ARSS). See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the Customer # during a “chg” operation. It can also be used during the “add” operation to specify the Customer # to be assigned (cannot be already used within SX) for the new customer being added. During an “add” operation, the “key1” field can be left blank and the next available Customer # will be used.

The “key2” field is only used for a Ship To (ARSS) operation. That is, when adding, or changing a Ship To record, the ship to identifier must be specified in “key2”.

Example of a new Customer (ARSC) being added:

| set# | seq# | updatemode | key1 | key2 | fieldname | fieldvalue                    |
|------|------|------------|------|------|-----------|-------------------------------|
| 1    | 1    | add        |      |      | addr1     | 5760 Eldora Drive             |
| 1    | 2    | add        |      |      | addr2     | suite 300                     |
| 1    | 3    | add        |      |      | addr3     | Complex 3 (6.1.080 and Above) |
| 1    | 4    | add        |      |      | city      | Colorado Springs              |
| 1    | 5    | add        |      |      | state     | co                            |
| 1    | 6    | add        |      |      | zipcd     | 80918                         |
| 1    | 7    | add        |      |      | name      | John Smith Electric Supply    |

# ION API Technical Documentation

## List of Supported Input data elements (fields):

The following is a list of valid “fieldname” values:

addonno1, addonno2, addonno3, addonno4, addr1, addr2, addr3, apmgr, apphoneno, ardatccost, ardatcty, avgpaydays, bankacct, bankmgr, banknm, bankno, bankphoneno, bofl, bondedfl, bondno, cashrecfl, cashreqfl, city, citycd, class, codbal, comment, costlyd, countrycd, countycd, creditmgr, **credlim**, crestdt, crref1, crref2, crsname, currencyty, custcodbal, custfutinval, custmiscrbal, custno2, custordbal, custperiodbal1, custperiodbal2, custperiodbal3, custperiodbal4, custperiodbal5, custpo, custprodf, custservchgbal, custshipto, custtype, custuncashbal, cyclecd, dealer, disccd, discytd, divno, downpayamt, dunningfl, dunsno, eackto, eacktype, easngrp, easnto, ecommwhse, ediackver, edichgcd, edictrln, edienvtg1, edienvtg2, ediinvver, edinetwork, ediorcd, edipartaddr, edipartner, ediyouraddr, einvto, einvtype, email, epropto, eproptype, estcompdt, estmttype, faxphoneno, fpcustfl, fpcustno, futbal, futinval, genaddr1, genaddr2, genaddr3, gencity, gennm, genphoneno, genst, genzip, geocd, gstcert, gstreg, highsaleamt, holddays, holdfl, holdpercd, inbndfrtfl, invtofl, jobclosedt, jobcodbal, jobdesc, jobfutinval, jobmiscrbal, jobordbal, jobperiodbal1, jobperiodbal2, jobperiodbal3, jobperiodbal4, jobperiodbal5, jobservchgbal, jobuncashbal, langcd, lastagedt, lastcostytd, lastdiscytd, lastpayamt, lastpaydt, lastrebatesytd, lastreturnsytd, lastrevdt, lastrtg1, lastrtg2, lastrtgdt1, lastrtgdt2, lastsaleamt, lastsaledt, lastsalesytd, lastservchgytd, laststmtbal, laststmttdt, lastunearnedytd, lenaddr1, lenaddr2, lenaddr3, lencity, lennm, lenst, lenzip, lienamt, lienfiledt, lienfileoper, lienpreamt, lienpredt, lienpreoper, lienprewith, linetermsfl, **lookupnm**, maxord, mediacd, minord, miscrbal, **name**, nextrevdt, noinv, noinvcopy, nontaxtype, nopastdue, nopay, ordbal, orderdisp, other1cd, other2cd, outbndfrtfl, ownaddr1, ownaddr2, ownaddr3, owncity, ownnm, ownst, ownzip, pastduedt, pdcustno, periodbal1, periodbal2, periodbal3, periodbal4, periodbal5, phoneno, pickprno, pickprtl, pmcashfl, pocontctnm, pophoneno, poreqfl, pricecd, pricetype, prstmtbal, p-dlvprntty, rebatesdue, rebatesytd, rebatety, restrictfl, returnsytd, revestdt, route, salesamt, salesmgrfl, salesterr, salesytd, securfl, **selltype**, servchgbal, servchgfl, servchgytd, shipinstr, shiplbl, shipreqfl, shipto, shiptoeasncd, shipviaty, siccd1, siccd2, siccd3, slslimitamt, slsrepin, **slsrepout**, spcdefaultty, startdt, state, **statedcd**, stagedcd, statementty, statusdt, statustype, subfl, **taxablety**, taxauth, taxcert, taxdt, taxreg, tendqtyfl, **termstype**, uncashbal, unearnedfl, unearnedytd, user1, user2, user3, user4, user5, user6, user7, user8, user9, user10, user11, user12, user13, user14, user15, user16, user17, user18, user19, user20, user21, user22, user23, user24, webpage, webpageext, whse, wodisccd, zipcd

**Note:** The **bold** fields above are required values when creating a new customer record. You may not get an error message if you omit them. However orders for the customer will not process properly. You can set up **SASBR** business rules to put in default values when creating a customer. The business rules are listed below in the special logic section

## Special Logic:

Since this SXAPI call can be used to create a new Customer (ARSC) and/or Ship To (ARSS), additional logic was added to provide some defaults for certain fields (ex: Terms). These defaults allow the newly created Customer / Ship To to be initialized so a sales order can be placed. These defaults are setup as Business Rules (SXXMLRULE records), which are maintained in the OEIE GUI menu functions. The following lists how those business rules would be setup:

|                  |   |
|------------------|---|
| Trading Partner: | <blank>   |
| Document Handler | sxapi   |
| Direction:       | <blank>   |
| Node Name:       | The company #. Ex: 1000   |
| Attribute Name:  | ar  |
| Rule Type:       | defaultselltype   |
| Rule Value:      | One of the following single characters:<br>Y (Yes)<br>N (No)<br>H (Hold Until)<br>O (Open Until)<br>D (COD) |
| Purpose:         | This controls the default “selltype” (Sales Order Status) field   |

# ION API Technical Documentation

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Trading Partner: <blank>  
 Document Handler: sxapi  
 Direction: <blank>  
 Node Name: The company #. Ex: 1000  
 Attribute Name: ar  
 Rule Type: defaulttermstype  
 Rule Value: A valid terms code setup in SASTT  
 Purpose: This controls the default "termstype" field

Trading Partner: <blank>  
 Document Handler: sxapi  
 Direction: <blank>  
 Node Name: The company #. Ex: 1000  
 Attribute Name: ar  
 Rule Type: defaultslsrepout  
 Rule Value: A valid sales rep setup in SMSN / OESS  
 Purpose: This controls the default "slsrepout" field

Trading Partner: <blank>  
 Document Handler: sxapi  
 Direction: <blank>  
 Node Name: The company #. Ex: 1000  
 Attribute Name: ar  
 Rule Type: defaultnontaxtype  
 Rule Value: A valid non tax type code, setup in SASTT  
 Purpose: This controls the default "nontaxtype" field

Trading Partner: <blank>  
 Document Handler: sxapi  
 Direction: <blank>  
 Node Name: The company #. Ex: 1000  
 Attribute Name: ar  
 Rule Type: defaultarsccredlim  
 Rule Value: A numeric credit limit value  
 Purpose: This controls the default "credlim" field for ARSC

Trading Partner: <blank>  
 Document Handler: sxapi  
 Direction: <blank>  
 Node Name: The company #. Ex: 1000  
 Attribute Name: ar  
 Rule Type: defaultarsscredlim  
 Rule Value: A numeric credit limit value  
 Purpose: This controls the default "credlim" field for ARSS

## Input Collection Validation:

As the collection rows are read, the following validation will be performed if the data for that field has been included in the input collection:

| Field Name | Validation                         |
|------------|------------------------------------|
| addonno1   | Must be defined in the SASTO table |
| addonno2   | Must be defined in the SASTO table |
| addonno3   | Must be defined in the SASTO table |
| addonno4   | Must be defined in the SASTO table |
| ardatcty   | Must be "n", "p", or "c"           |
| bankno     | Must be defined in the CRSB table  |
| class      | Must be >= 0 and <= 13             |

# ION API Technical Documentation

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|              |  |
|--------------|--|
| countrycd    | Must be defined in the SASTA table (codeiden = "w")            |
| creditmgr    | Must be defined in the SASOO table (operator)                  |
| currencyty   | Must be defined in the SASTC table                             |
| custno2      | Must be defined in the ARSC table                              |
| divno        | Must be defined in the SASTN table                             |
| eacktype     | Must be blank, "e", "m", "f" or "l"                            |
| einvtype     | Must be blank, "e", "m", "f", "x", or "l"                      |
| estmttype    | Must be blank, "f", "e", or "m"                                |
| fpcustno     | Must be defined in the ARSC table                              |
| holdpercd    | Must be >=0 and <= 5   |
| langcd       | Must be defined in the SASTA table (codeiden = "y")            |
| mediacd      | Must be defined in the SASTN table (codeiden = "p")            |
| name         | Must not be blank  |
| nontaxtype   | Must be defined in the SASTN table (codeiden = "n")            |
| orderdisp    | Must be blank, "s", "w", "t", or "j"                           |
| pdcustno     | Must be defined in the ARSC table                              |
| pricetype    | Must be defined in the SASTA table (codeiden = "j")            |
| rebate       | Must be defined in the PDST table (codeiden = "ct")            |
| salesterr    | Must be defined in the SASTA table (codeiden = "z")            |
| selltype     | Must be "y", "n", "c", "h", "o", or "d"                        |
| shipviaty    | Must be defined in the SASTA table (codeiden = "s")            |
| slsrepin     | Must be defined in the SMSN table                              |
| slsrepout    | Must be defined in the SMSN table                              |
| spcdefaultty | Must be "i", "n", or "o"                                       |
| statementty  | Must be "o" or "n"   |
| taxablety    | Must be "y", "n", or "v"                                       |
| termstype    | Must be defined in the SASTA table (codeiden = "t")            |
| whse         | Must be defined in the ICSD table                              |
| statedcd     | Must be defined in the SASGM table for the correct record type |
| countycd     | Must be defined in the SASGM table for the correct record type |
| citycd       | Must be defined in the SASGM table for the correct record type |
| other1cd     | Must be defined in the SASGM table for the correct record type |
| other2cd     | Must be defined in the SASGM table for the correct record type |

# ION API Technical Documentation

## **API Call:** *sxapiARGetContactList*

**Purpose:** Get a list of contacts for a customer

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber   | Input/Required | CustNo – Required Customer Number                                      |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| t-custcontact    | Output         | A collection with the list of contacts for customer                    |

### **Notes:**

This API call will first look for contacts in the Contact and Activity Manager (CAM) table (CONTACTS). If records are found, the collection will be built from those rows. If no records are found, the API call will attempt to locate a Prospect (CMSP) record tied to this customer and if the Prospect is found, the CM Contacts (CMSM) records will be used to build the collection.

This API call uses a collection to control its operation. The collection has the following fields:

| Collection for parameter t-custcontact |           |
|--|-----------|
| Field Name                             | Data Type |
| contactid                              | Decimal   |
| firstnm                                | Character |
| notesfl                                | Character |
| middlenm                               | Character |
| lastnm                                 | Character |
| cotitle                                | Character |
| comment                                | Character |
| priority                               | Integer   |
| salutation                             | Character |
| groupcd                                | Character |
| contacttype                            | Character |
| contacttypedesc                        | Character |
| phoneno                                | Character |
| emailaddr                              | Character |
| addr                                   | Character |
| city                                   | Character |
| faxphoneno                             | Character |
| state                                  | Character |
| zipcd                                  | Character |
| ccno                                   | Character |
| others                                 | Character |
| cName                                  | Character |
| cAddr                                  | Character |
| cCityStateZip                          | Character |
| contactsrecid                          | Recid     |

# ION API Technical Documentation

## **API Call:** *sxapiARGetContactListV2*

**Purpose:** Get a list of contacts for a customer

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber   | Input/Required | CustNo – Required Customer Number                                      |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| t-custcontactv2  | Output         | A collection with the list of contacts for customer                    |

### **Notes:**

This API call will first look for contacts in the Contact and Activity Manager (CAM) table (CONTACTS). If records are found, the collection will be built from those rows. If no records are found, the API call will attempt to locate a Prospect (CMSP) record tied to this customer and if the Prospect is found, the CM Contacts (CMSM) records will be used to build the collection.

This API call uses a collection to control its operation. The collection has the following fields:

| Collection      |           |
|-----------------|-----------|
| Field Name      | Data Type |
| contactid       | decimal   |
| firstnm         | character |
| notesfl         | character |
| middlenm        | Character |
| lastnm          | Character |
| cotitle         | Character |
| comment         | Character |
| priority        | Integer   |
| salutation      | Character |
| groupcd         | Character |
| contacttype     | Character |
| contacttypedesc | Character |
| phoneno         | Character |
| emailaddr       | Character |
| addr            | Character |
| city            | Character |
| faxphoneno      | Character |
| state           | Character |
| zipcd           | Character |
| ccno            | Character |
| others          | Character |
| cName           | Character |
| cAddr           | Character |
| cCityStateZip   | Character |
| cSubject        | Character |
| contactsrecid   | Recid     |

# ION API Technical Documentation

## **API Call:** *sxapiARGetCustomerBalance*

**Purpose:** This call is used to retrieve Accounts Receivable balance information for a given Customer (ARSC) or Ship To (ARSS).

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| customerNumber   | Input/Required | This is the required numeric Customer #   |
| shipTo           | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the balance information will be retrieved for that Ship To. If left blank, the balance information will be retrieved for the Customer record. |
| extraData        | Input/NotUsed  | Extra parameter<br>BalanceType=x<br>Extra parameter value explained below   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – see notes for contents.   |

### **Notes:**

The returned data will be in a single output parameter. The data represents up to 11 balances, separated by a pipe(|). Each balance will contain a Label, followed by the actual dollar amount.

Example:

(1) 05/13/98 – 06/12/98: 33143.74 |(2) 04/12/98 – 05/12/98: 131283.59 |(3) 03/12/98 – 04/11/98: 95307.15  
|(4) 02/09/98 – 03/11/98: 46356.51 |(5) Older - 02/08/98: 0.00 |Future Invoice Balance: 0.00 |Service  
Charges: 0.00 |Misc Credits: 212.93-|Unapplied Cash: 50100.00-|COD Balance: 352.00 |Total  
Balance: 256130.06

It's just a matter of parsing this data and displaying the individual balances. The reason the data is returned in this manner is that the labels for the first 5 balances (period balances) have to be calculated and the remaining list of balances changes depending how the Administrative Options are set.

### **Extra Parameter:**

Extra Param input parameter with the following:

- 0 Nothing – If Shipto param loaded – defaults to 's'hipto balances.  
Otherwise loads 'c'ustomer balance.
- b. BalanceType=t – Total Exposure balances
- c. BalanceType=s – If shipto is loaded then leaves as shipto  
Otherwise goes to customer balances
- d. BalanceType=c – Customer Balances.

BalanceType must carry a value of 'c', 's', or 't' if loaded, otherwise it will default to values as if not loaded with a value. Most uses can leave the parameter blank and take the automatic default of Ship To if the shipto is passed or the Customer. Only time really need to pass a parameter is when needing to retrieve the Total Exposure value (total of customer and shipto's). If the customer does not have shipto's with credit limits, then customer balance is the same as total exposure.

# ION API Technical Documentation

## **API Call:** *sxapiARGetCustomerBalanceV2*

**Purpose:** This call is used to retrieve Accounts Receivable balance information for a given Customer (ARSC) or Ship To (ARSS).

### **Parameters:**

| REST Params       | Direction      | Description   |
|-------------------|----------------|---|
| companyNumber     | Input/required | Company #   |
| operatorInit      | Input/required | SASO operator for the company specified   |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)  |
| customerNumber    | Input/Required | This is the required numeric Customer #   |
| shipTo            | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the balance information will be retrieved for that Ship To. If left blank, the balance information will be retrieved for the Customer record. |
| extraParam        | Input/Optional | Extra parameter:<br>BalanceType=x<br>Use of parameter explained below   |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter.  |
| period1Text       | Output         | Period 1 Text – Period 1 balance label  |
| period1Balance    | Output         | Period 1 balance – Period 1 dollar amount balance   |
| period2Text       | Output         | Period 2 Text – Period 2 balance label  |
| period2Balance    | Output         | Period 2 balance – Period 2 dollar amount balance   |
| period3Text       | Output         | Period 3 Text – Period 3 balance label  |
| period3Balance    | Output         | Period 3 balance – Period 3 dollar amount balance   |
| period4Text       | Output         | Period 4 Text – Period 4 balance label  |
| period4Balance    | Output         | Period 4 balance – Period 4 dollar amount balance   |
| period5Text       | Output         | Period 5 Text – Period 5 balance label  |
| period5Balance    | Output         | Period 5 balance – Period 5 dollar amount balance   |
| futureBalanceText | Output         | Future Text – Future balance label  |
| futureBalance     | Output         | Future balance – Future dollar amount balance   |
| total1Text        | Output         | Period 1 Total Text – Period 1 Total balance label, based on Administrative options   |
| total1Balance     | Output         | Period 1 Total balance – Period 1 total dollar amount balance, based on Administrative options  |
| total2Text        | Output         | Period 2 Total Text – Period 2 Total balance label, based on Administrative options   |
| total2Balance     | Output         | Period 2 Total balance – Period 2 total dollar amount balance, based on Administrative options  |
| total3Text        | Output         | Period 3 Total Text – Period 3 Total balance label, based on Administrative options   |
| total3Balance     | Output         | Period 3 Total balance – Period 2 total dollar amount balance, based on Administrative options  |
| total4Text        | Output         | Period 4 Total Text – Period 4 Total balance label, based on Administrative options   |
| total4Balance     | Output         | Period 4 Total balance – Period 2 total dollar amount balance, based on Administrative options  |
| total5Text        | Output         | Period 5 Total Text – Period 5 Total balance label, based on Administrative options   |
| total5Balance     | Output         | Period 5 Total balance – Period 2 total dollar amount balance, based on Administrative options  |

### **Notes:**

The reason the data is returned in this matter is that the labels for the first 5 balances (period balances) have to be calculated and the remaining list of balances changes depending how the Administrative Options are set. This API Call is a signature change to sxapiARGetCustomerBalance.

### **Extra Parameter:**



# ION API Technical Documentation

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01/25/05 mwb; TB# e20669 Credit checking (sxe 4.3.000) – balances now stored on the files (ARSS/ARSC).  
Need ability to extract by Total Exposure, Customer or ShipTo.

Extra Param input parameter with the following:

- a) Nothing – If Shipto param loaded – defaults to 's'hipto balances. Otherwise loads 't'otal exposure balance. \*\* Blank is the same as the old way prior to change.
- b) BalanceType=t – Total Exposure balances
- c) BalanceType=s – If shipto is loaded then leaves as shipto  
Otherwise goes to customer balances
- d) BalanceType=c – Customer Balances

BalanceType must carry a value of 'c', 's', or 't' if loaded, otherwise it will default to values as if not loaded with a value. Most uses can leave the parameter blank and take the automatic default of Ship To if the shipt to is passed or the Total Exposure. Only time really need to pass a parameter is when needing to retrieve the Total Exposure value (total of customer and shipto's). If the customer does not have shipto's with credit limits, then customer balance is the same as total exposure.

# ION API Technical Documentation

## **API Call:** *sxapiARGetCustomerData*

**Purpose:** This call is used to retrieve Accounts Receivable data for a given Customer (ARSC) or Ship To (ARSS). A passed "Request Type" parameter controls what set of data fields will be returned.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber   | Input/Required | This is the required numeric Customer #  |
| shipTo           | Input/Optional | This is the optional alphanumeric Ship To identifier.  |
| requestType      | Input/Required | Request Type – Must "general" or "credit"  |
| extraData        | Input/NotUsed  | Extra parameter – currently not used.  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-fieldlist      | Output         | The t-fieldlist collection. This is a "value pair" type collection where the t-fieldlist.fieldname contains the name of the field from ARSC (ex: "name") and the t-fieldlist.fieldvalue contains the data value (see below for a complete list of returned fields) |

### **Notes:**

The returned data will be in the "t-fieldlist" collection. Based on the request type, the following is a list of the data returned.

| t-fieldlist table |            |  |
|-------------------|------------|--|
| Request Type      | Field Name | Field Value                            |
| General           | name       | arsc/arss.name                         |
| General           | addr1      | arsc/arss.addr[1]                      |
| General           | addr2      | arsc/arss.addr[2]                      |
| General           | addr3      | arsc/arss.addr3                        |
| General           | city       | arsc/arss.city                         |
| General           | state      | arsc/arss.state                        |
| General           | zipcd      | arsc/arss.zipcd                        |
| General           | countrycd  | arsc/arss.countrycd                    |
| General           | phoneno    | arsc/arss.phoneno                      |
| General           | faxphoneno | arsc/arss.faxphoneno                   |
| General           | comment    | arsc.comment                           |
| General           | siccd1     | arsc.siccd[1]                          |
| General           | siccd2     | arsc.siccd[2]                          |
| General           | siccd3     | arsc.siccd[3]                          |
| General           | statustype | arsc/arss.statustype (Active/Inactive) |
| Credit            | creditmgr  | arsc.creditmgr                         |
| Credit            | credlim    | arsc/arss.creditlim                    |
| Credit            | holdpercd  | arsc/arss.holdpercd                    |
| Credit            | selltype   | arsc.selltype (Sales Order Status)     |
| Credit            | avgpaydays | arsc.avgpaydays                        |
| Credit            | nopastdue  | arsc.nopastdue (Times Late)            |
| Credit            | nopay      | arsc.nopay (Payments YTD)              |
| Credit            | noinv      | arsc.noinv (Invoices YTD)              |
| Credit            | Lastpayamt | arsc.lastpayamt                        |
| Credit            | Highball   | arsc.highbal                           |
| Credit            | Ordbal     | arsc.ordbal                            |
| Credit            | termstype  | arsc/arss.termstype                    |
| Credit            | nonsf      | arsc.nonsf                             |

# ION API Technical Documentation

**API Call:** *sxapiARGetCustomerDataCredit*

**Purpose:** This call will return “credit” information for a given customer / ship to.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified                                |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber        | Input/Required | This is the required numeric customer #                                |
| shipTo                | Input/Optional | This is the optional alphanumeric Ship To identifier.                  |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter. |
| creditManager         | Output         | Credit Manager   |
| creditLimit           | Output         | Credit Limit   |
| holdPeriodCode        | Output         | Hold Period Code   |
| sellType              | Output         | Sell Type  |
| avgPayDays            | Output         | Average Pay Days   |
| noPastDue             | Output         | # of Days Past Due   |
| noPayments            | Output         | # of Payments  |
| noInvoices            | Output         | # of Invoices  |
| lastPaymentAmount     | Output         | Last Payment Amount  |
| highBalance           | Output         | High Balance   |
| orderBalance          | Output         | Order Balance  |
| termsType             | Output         | Terms  |
| termsTypeDescription  | Output         | Terms Description  |
| creditEstablishedDate | Output         | Credit Established Date  |
| lastReviewDate        | Output         | Last Review Date   |
| nextReviewDate        | Output         | Next Review Date   |
| lastPaymentDate       | Output         | Last Payment Date  |

**Notes:**

# ION API Technical Documentation

**API Call:** *sxapiARGetCustomerDataCreditV2*

**Purpose:** This call will return “credit” information for a given customer / ship to.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified                                |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber        | Input/Required | This is the required numeric customer #                                |
| shipTo                | Input/Optional | This is the optional alphanumeric Ship To identifier.                  |
| t-infieldvalue        | Input          | The input “t-infieldvalue” collection (see below)                      |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter. |
| creditManager         | Output         | Credit Manager   |
| creditLimit           | Output         | Credit Limit   |
| holdPeriodCode        | Output         | Hold Period Code   |
| sellType              | Output         | Sell Type  |
| avgPayDays            | Output         | Average Pay Days   |
| noPastDue             | Output         | # of Days Past Due   |
| noPayments            | Output         | # of Payments  |
| noInvoices            | Output         | # of Invoices  |
| lastPaymentAmount     | Output         | Last Payment Amount  |
| highBalance           | Output         | High Balance   |
| orderBalance          | Output         | Order Balance  |
| termsType             | Output         | Terms  |
| termsTypeDescription  | Output         | Terms Description  |
| creditEstablishedDate | Output         | Credit Established Date  |
| lastReviewDate        | Output         | Last Review Date   |
| nextReviewDate        | Output         | Next Review Date   |
| lastPaymentDate       | Output         | Last Payment Date  |
| t-outfieldvalue       | Output         | The output “t-outfieldvalue” collection (see below)                    |

**Notes:**

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

# ION API Technical Documentation

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**API Call:** ***sxapiARGetCustomerDataCreditMess***

**Purpose:** This call is used to retrieve a credit message (Ex: On Credit Hold!) for a given customer / ship to.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber   | Input/Required | This is the required numeric customer #                                |
| shipTo           | Input/Optional | This is the optional alphanumeric Ship To identifier.                  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| message          | Output         | This is the return credit message                                      |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiARGetCustomerDataCreditRest*

**Purpose:** This call is used to retrieve the remaining “credit” fields for a given customer. The sxapiARGetCustomerDataCredit call would retrieve the initial set of credit fields.

**Parameters:**

| REST Params                | Direction      | Description  |
|----------------------------|----------------|--|
| companyNumber              | Input/required | Company #  |
| operatorInit               | Input/required | SASO operator for the company specified                                |
| operatorPassword           | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber             | Input/Required | This is the required numeric customer #                                |
| shipTo                     | Input/Optional | This is the optional alphanumeric Ship To identifier.                  |
| errorMessage               | Output         | Error message – Any error messages will be returned in this parameter. |
| accountsPayableManager     | Output         | Accounts Payable Manager   |
| accountsPayablePhoneNumber | Output         | Accounts Payable Manager Phone #                                       |
| bankAccount                | Output         | Bank Account   |
| bankManager                | Output         | Bank Manager   |
| bankName                   | Output         | Bank Name  |
| bankPhoneNumber            | Output         | Bank Phone #   |
| creditReference1           | Output         | Credit Reference #1  |
| creditReference2           | Output         | Credit Reference #2  |
| creditServiceName          | Output         | Credit Service   |
| dunsNumber                 | Output         | Dunns #  |
| enteredDate                | Output         | Entered Date (Account Opened)  |
| lastRating1                | Output         | Last Rating  |
| lastRating2                | Output         | Last Rating 2  |
| lastRatingDate1            | Output         | Last Rating Date 1   |
| lastRatingDate2            | Output         | Last Rating Date 2   |
| pastDueDate                | Output         | Past Due Date  |
| pmCashFlag                 | Output         | PM Cash Flag   |
| securityAgreement          |                | Security Agreement Flag  |
| statusDate                 |                | Status Date  |

**Notes:**

# ION API Technical Documentation

**API Call:** *sxapiARGetCustomerDataEDI*

**Purpose:** Retrieves “EDI” related fields for a given customer.

**Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified                                |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber          | Input/Required | This is the required numeric customer #                                |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier.                  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter. |
| acknowledgeType         | Output         | Acknowledgement Type (eacktype)  |
| advanceShipNoticeGroup  | Output         | ASN Grouping (easngrp)   |
| advanceShipNoticeSendTo | Output         | ASN To (easnto)  |
| eCommWarehouse          | Output         | eCommerce Whse (ecomwhse)  |
| acknowledgeVersion      | Output         | Acknowledgement Version (ediackver)                                    |
| catalogProductFlag      | Output         | Catalog Product Flag (edicatprodfl)                                    |
| changeReasonCode        | Output         | Change Code (edichgcd)   |
| invoiceVersion          | Output         | Invoice Version # (ediinvver)  |
| jitOrderFlag            | Output         | JIT Flag (edijitfl)  |
| netWork                 | Output         | Network (edinetwork)   |
| nonStockProductFlag     | Output         | Non-Stock Product Flag (edinsprodfl)                                   |
| orderStatusCode         | Output         | Order Code (ediordcd)  |
| partnerAddress          | Output         | Partner Address  |
| partner                 | Output         | Partner ID   |
| priceOverrideFlag       | Output         | Pricing Flag (ediprcfl)  |
| prrintNotesFlag         | Output         | Print Notes Flag (ediprintnotesfl)                                     |
| termsOverrideFlag       | Output         | Terms Override Flag (editermsfl)                                       |
| yourAddress             | Output         | Your Address (ediyouraddr)   |
| invoiceType             | Output         | Invoice Type (einvtype)  |
| proposalType            | Output         | Proposal Type (eproptype)  |
| statementType           | Output         | Statement Type (estmttype)   |
| webPage                 |                | Web Page Internal (webpage)  |
| webPageExternal         |                | Web Page External (webpagext)  |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiARGetCustomerDataGeneral*

**Purpose:** This call is used to return “general” information for a given customer / ship to.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber   | Input/Required | This is the required numeric customer #                                |
| shipTo           | Input/Optional | This is the optional alphanumeric Ship To identifier.                  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| name             | Output         | Name   |
| address1         | Output         | Address line 1   |
| address2         | Output         | Address line 2   |
| city             | Output         | City   |
| state            | Output         | State  |
| zipCd            | Output         | Zip Code   |
| countryCode      | Output         | Country Code   |
| countryDesc      | Output         | Country Code Description   |
| phone            | Output         | Phone #  |
| fax              | Output         | Fax Phone #  |
| statusType       | Output         | Status Type  |
| comment          | Output         | Comment  |
| sicCd1           | Output         | Sic Code 1   |
| sicCd2           | Output         | Sic Code 2   |
| sicCd3           | Output         | Sic Code 3   |

**Notes:**



# ION API Technical Documentation

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**API Call:** *sxapiARGetCustomerDataGeneralRest*

**Purpose:** This call is used to return the remaining “general” information for a given customer / ship to.

**Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified                                |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber          | Input/Required | This is the required numeric customer #                                |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier.                  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter. |
| bankNumber              | Output         | Bank #   |
| classNumber             | Output         | Class  |
| currencyType            | Output         | Currency Type  |
| statementCustomerNumber | Output         | Statement Customer (custno2)   |
| customerType            | Output         | Customer Type  |
| cycleCode               | Output         | Cycle Code   |
| divisionNumber          | Output         | Division #   |
| dunningFlag             | Output         | Dunning Flag   |
| email                   | Output         | Email Address  |
| floorPlanCustomerFlag   | Output         | Floor Plan Customer Flag   |
| geoCode                 | Output         | GEO Code   |
| languageCode            | Output         | Language Code  |
| lookupName              | Output         | Lookup Name  |
| purchasingAgent         | Output         | Purchase Agent Contact   |
| purchasingAgentPhoneNo  | Output         | Purchase Agent Phone #   |
| serviceChargeFlag       | Output         | Service Charge Flag  |
| shipLabel               | Output         | Shipping Label   |
| statementType           | Output         | Statement Type   |
| unearnedDiscFlag        | Output         | Unearned Discounts Flag  |
| termsType               | Output         | Terms Type   |
| termsTypeDescription    | Output         | Terms Type Description   |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiARGetCustomerDataGeneralV2*

**Purpose:** This call is used to return “general” information for a given customer / ship to – version 2

**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                                |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)         |
| customerNumber       | Input/Required | This is the required numeric customer #                                |
| shipTo               | Input/Optional | This is the optional alphanumeric Ship To identifier.                  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter. |
| name                 | Output         | Name   |
| address1             | Output         | Address line 1   |
| address2             | Output         | Address line 2   |
| city                 | Output         | City   |
| state                | Output         | State  |
| zipCd                | Output         | Zip Code   |
| countryCode          | Output         | Country Code   |
| countryDesc          | Output         | Country Code Description   |
| phone                | Output         | Phone #  |
| fax                  | Output         | Fax Phone #  |
| statusType           | Output         | Status Type  |
| comment              | Output         | Comment  |
| sicCd1               | Output         | Sic Code 1   |
| sicCd2               | Output         | Sic Code 2   |
| sicCd3               | Output         | Sic Code 3   |
| address3             | Output         | Address line 3   |
| customerProductsFlag | Output         | Customer product xref flag   |
| lastAgingDate        | Output         | Last Aging Date  |
| lastSalesDate        | Output         | Last Sales Date  |
| notesIndicator       | Output         | Notes Flag   |
| syncCRMFlag          | Output         | Sync CRM Flag  |
| lastUpdate           | Output         | Last Update Date / Time / Init / Transproc                             |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiARGetCustomerDataOrdering*

**Purpose:** This call is used to return “ordering” information for a given customer / ship to.

**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                            |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)     |
| customerNumber       | Input/Required | This is the required numeric customer #                            |
| shipto               | Input/Optional | This is the optional alphanumeric Ship To identifier.              |
| errorMessage         | Output         | Error message – Error messages will be returned in this parameter. |
| shipVia              | Output         | Ship Via   |
| shipViaDesc          | Output         | Ship Via Description   |
| shipToRequiredFlag   | Output         | Ship To Required Flag  |
| shippingInstructions | Output         | Shipping Instructions  |
| defaultShipTo        | Output         | Default Ship To  |
| poRequiredFlag       | Output         | Customer PO # Required Flag  |
| customerPoNo         | Output         | Customer PO #  |
| backorderFlag        | Output         | Allow Backorder Flag   |
| substitutesFlag      | Output         | Allow Substitutes Flag   |
| slsRepOut            | Output         | Sales Rep Outside  |
| slsRepIn             | Output         | Sales Rep Inside   |
| orderDisposition     | Output         | Order Disposition  |
| priceType            | Output         | Price Type   |
| priceTypeDesc        | Output         | Price Type Description   |
| minOrder             | Output         | Minimum Order Amount   |
| maxOrder             | Output         | Maximum Order Amount   |
| salesTerritory       | Output         | Sales Territory  |
| route                | Output         | Route  |
| whse                 | Output         | Warehouse  |
| fpCustomerNumber     | Output         | Floor Plan Customer # (fpcustno)                                   |
| fpCustomerName       | Output         | Floor Plan Customer Name   |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiARGetCustomerDataOrderingRest*

**Purpose:** This call is used to return the remaining “ordering” information for a given customer / ship to.

### **Parameters:**

| REST Params                    | Direction      | Description  |
|--------------------------------|----------------|--|
| companyNumber                  | Input/required | Company #  |
| operatorInit                   | Input/required | SASO operator for the company specified                            |
| operatorPassword               | Input/optional | SASO operator password (only required if business rule is set)     |
| customerNumber                 | Input/Required | This is the required numeric customer #                            |
| shipTo                         | Input/Optional | This is the optional alphanumeric Ship To identifier.              |
| errorMessage                   | Output         | Error message – Error messages will be returned in this parameter. |
| addonNumber1                   | Output         | Add on # 1   |
| addonNumber2                   | Output         | Add on # 2   |
| addonNumber3                   | Output         | Add on # 3   |
| addonNumber4                   | Output         | Add on # 4   |
| addonNumber5                   | Output         | Add on # 5   |
| addonNumber6                   | Output         | Add on # 6   |
| addonNumber7                   | Output         | Add on # 7   |
| addonNumber8                   | Output         | Add on # 8   |
| arDatcCost                     | Output         | DATC Cost  |
| arDatcType                     | Output         | DATC Type  |
| dealer                         | Output         | Dealer   |
| discountCode                   | Output         | Discount Code  |
| inboundFreightFlag             | Output         | Inbound Freight Flag   |
| lineTermsFlag                  | Output         | Line Terms Flag  |
| mediaCode                      | Output         | Media Code   |
| numberInvoiceCopies            | Output         | # of Invoice Copies  |
| outboundFreightFlag            | Output         | Outbound Freight Flag  |
| priceDiscountingCustomerNumber | Output         | PD Customer #  |
| pickPriority                   | Output         | Pick priority #  |
| printPriceFlag                 | Output         | Pick Print Flag  |
| priceCode                      | Output         | Price Code   |
| rebateType                     | Output         | Rebate Type  |
| salesManagerFlag               | Output         | Sales Manager Flag   |
| specialDiscountDefaultType     | Output         | SPC Default Type   |
| tenderByFlag                   | Output         | Tendering Qty Flag   |
| wholeOrderDiscountCode         | Output         | Whole Order Discount Code  |

### **Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiARGetCustomerDataTaxing*

**Purpose:** This call is used to return the "taxing" information for a given customer / ship to.

**Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified                            |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)     |
| customerNumber          | Input/Required | This is the required numeric customer #                            |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier.              |
| errorMessage            | Output         | Error message – Error messages will be returned in this parameter. |
| city                    | Output         | City Code  |
| cityDescription         | Output         | City Code Description  |
| county                  | Output         | County Code  |
| countyDescription       | Output         | County Code Description  |
| gstCertificate          | Output         | GST Certificate  |
| gstRegistration         | Output         | GST Registration   |
| nonTaxType              | Output         | Non Tax Type   |
| nonTaxTypeDescription   | Output         | Non Tax Type Description   |
| other1                  | Output         | Other 1 Code   |
| other1Description       | Output         | Other 1 Code Description   |
| other2                  | Output         | Other 2 Code   |
| other2Description       | Output         | Other 2 Code Description   |
| state                   | Output         | State Code   |
| stateDescription        | Output         | State Code Description   |
| taxableType             | Output         | Taxable Type   |
| taxAuthority            | Output         | Taxable Authorization  |
| taxAuthorityDescription | Output         | Taxable Authorization Description                                  |
| taxCertificate          | Output         | Tax Certificate  |
| taxDate                 | Output         | Tax Date   |
| taxRegistration         | Output         | Tax Registration   |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiARGetCustomerList*

**Purpose:** This call will retrieve a list of Customer records (ARSC) based on a variety of selection criteria.

### **Parameters:**

| <b>REST Params</b>       | <b>Direction</b> | <b>Description</b>  |
|--------------------------|------------------|---|
| companyNumber            | Input/required   | Company #   |
| operatorInit             | Input/required   | SASO operator for the company specified   |
| operatorPassword         | Input/optional   | SASO operator password (only required if business rule is set)  |
| name                     | Input/Optional   | Name – An optional parameter to select customers based on a beginning name value.   |
| lookupName               | Input/Optional   | Lookup Name – An optional parameter to select customers based on a beginning lookup name.   |
| customerNumber           | Input/Optional   | Customer # - An optional parameter that can be used when the exact Customer # is known and wants to be used to retrieve that one customer. All other selection fields will be ignored.  |
| city                     | Input/Optional   | City – An optional parameter to select customers based on a beginning city value.   |
| state                    | Input/Optional   | State – An optional parameter to select customers based on a beginning state value.   |
| postalCode               | Input/Optional   | Zip Code – An optional parameter to select customers based on a beginning zip code value.   |
| phone                    | Input/Optional   | Phone # - An optional parameter to select customers based on a beginning phone # value.   |
| includeInactiveCustomers | Input/Required   | Inactive flag – If set to “yes” inactive customer records will be selected. If set to “no”, then only active customers will be selected.  |
| lastReview               | Input/Optional   | Last Review Date – An optional parameter to select customers based on their last review date. Used in conjunction with the next parameter.  |
| lastReviewComparison     | Input/Optional   | Last Review Date Type – “e” – select customers if their date equals the value in the previous parameter, “g” – greater than or equal, “l” – less than or equal.   |
| nextReview               | Input/Optional   | Next Review Date – An optional parameter to select customers based on their next review date. Used in conjunction with the next parameter.  |
| nextReviewComparison     | input/Optional   | Next Review Date Type – “e” – select customers if their date equals the value in the previous parameter, “g” – greater than or equal, “l” – less than or equal.   |
| balance                  | Input/Optional   | Balance – An optional parameter to select customers based on a particular balance field. Used in conjunction with the next parameter. If a certain balance field for a given customer is greater than the value entered for this parameter, that customer will be selected. |
| balanceComparison        | Input/Optional   | Balance Type – An indicator as to which balance should be checked (see notes below)   |
| sort                     | Input/Optional   | Sort Option that controls the sorting of the set of customers that were selected:<br>“a” – Customer #<br>“b” – Name<br>“c” – City<br>“d” – Zip Code<br>all other – Customer # as well   |
| recordLimit              | Input/Optional   | Record Limit – This is an optional parameter that can be used to limit the number of records selected. If this field is zero, no record count limiting will occur.  |

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|                      |        |  |
|----------------------|--------|--|
| errorMessage         | Output | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.                       |
| t-custLst            | Output | t-custlst collection. Each row in the collection represents one record found in the ARSC table that qualified based on the selection criteria. |

**Notes:**

For the Balance Type field, pass the following value and that balance field will be examined:

- “1” – Period 1
- “2” – Period 2
- “3” – Period 3
- “4” – Period 4
- “f” – Future balance

Fields in the t-custlst collection:

| <b>t-custlst for REST Params 19</b> |             |
|-------------------------------------|-------------|
| <b>Field</b>                        | <b>Type</b> |
| Custno                              | decimal     |
| Shipto                              | character   |
| Name                                | character   |
| Addr1                               | character   |
| Addr2                               | character   |
| City                                | character   |
| State                               | character   |
| Zipcd                               | character   |
| Ordbal                              | Decimal     |
| Totalbal                            | decimal     |
| Sortfld                             | character   |

# ION API Technical Documentation

## **API Call:** *sxapiARGetCustomerListV2*

**Purpose:** This call will retrieve a list of Customer records (ARSC) based on a variety of selection criteria – version #2.

### **Parameters:**

| REST Params              | Direction      | Description   |
|--------------------------|----------------|---|
| companyNumber            | Input/required | Company #   |
| operatorInit             | Input/required | SASO operator for the company specified   |
| operatorPassword         | Input/optional | SASO operator password (only required if business rule is set)  |
| name                     | Input/Optional | Name – An optional parameter to select customers based on a beginning name value.   |
| lookupName               | Input/Optional | Lookup Name – An optional parameter to select customers based on a beginning lookup name.   |
| customerNumber           | Input/Optional | Customer # - An optional parameter that can be used when the exact Customer # is known and wants to be used to retrieve that one customer. All other selection fields will be ignored.  |
| city                     | Input/Optional | City – An optional parameter to select customers based on a beginning city value.   |
| state                    | Input/Optional | State – An optional parameter to select customers based on a beginning state value.   |
| postalCode               | Input/Optional | Zip Code – An optional parameter to select customers based on a beginning zip code value.   |
| phone                    | Input/Optional | Phone # - An optional parameter to select customers based on a beginning phone # value.   |
| includeInactiveCustomers | Input/Required | Inactive flag – If set to “yes” inactive customer records will be selected. If set to “no”, then only active customers will be selected.  |
| lastReview               | Input/Optional | Last Review Date – An optional parameter to select customers based on their last review date. Used in conjunction with the next parameter.  |
| lastReviewComparison     | Input/Optional | Last Review Date Type – “e” – select customers if their date equals the value in the previous parameter, “g” – greater than or equal, “l” – less than or equal.   |
| nextReview               | Input/Optional | Next Review Date – An optional parameter to select customers based on their next review date. Used in conjunction with the next parameter.  |
| nextReviewComparison     | input/Optional | Next Review Date Type – “e” – select customers if their date equals the value in the previous parameter, “g” – greater than or equal, “l” – less than or equal.   |
| balance                  | Input/Optional | Balance – An optional parameter to select customers based on a particular balance field. Used in conjunction with the next parameter. If a certain balance field for a given customer is greater than the value entered for this parameter, that customer will be selected. |
| balanceComparison        | Input/Optional | Balance Type – An indicator as to which balance should be checked (see notes below)   |
| summaryType              | Input/Optional | Summary Type – An optional parameter to indicate which Customer Summary Search is to be performed (see notes below)   |
| summaryFromAmount        | Input/Optional | From Summary Amount – An optional parameter that is used in conjunction with the Summary Type.  |
| summaryToAmount          | Input/Optional | To Summary Amount – An optional parameter that is used in conjunction with the Summary Type.  |
| keyWord1                 | Input/Optional | Keyword 1 – An optional keyword parameter   |
| keyWord2                 | Input/Optional | Keyword 2 – An optional keyword parameter   |



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|                        |                |   |
|------------------------|----------------|---|
| keyWord3               | Input/Optional | Keyword 3 – An optional keyword parameter   |
| keyWord4               | Input/Optional | Keyword 4 – An optional keyword parameter   |
| keyWord5               | Input/Optional | Keyword 5 – An optional keyword parameter   |
| sort                   | Input/Optional | Sort Option that controls the sorting of the set of customers that were selected:<br>“a” – Customer #<br>“b” – Name<br>“c” – City<br>“d” – Zip Code<br>all other – Customer # as well |
| recordLimit            | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of records selected. If this field is zero, no record count limiting will occur.                    |
| errorMessage           | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable   | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| totalSalesYTD          | Output         | The total Sales YTD for those customers retrieved   |
| totalCostYTD           | Output         | The total Cost YTD  |
| totalMarginYTD         | Output         | The total Margin YTD (arsc.salestyd – arsc.costtyd)   |
| totalLastYearSalesYTD  | Output         | The total Last Year Sales YTD   |
| totalLastYearCostYTD   | Output         | The total Last Year Cost YTD  |
| totalLastYearMarginYTD | Output         | The total Last Year Margin YTD (arsc.lastsalesytd – arsc.lastcostytd)   |
| totalPeriodBalance1    | Output         | The total period balance 1  |
| totalPeriodBalance2    | Output         | The total period balance 2  |
| totalPeriodBalance3    | Output         | The total period balance 3  |
| totalPeriodBalance4    | Output         | The total period balance 4  |
| totalPeriodBalance5    | Output         | The total period balance 5  |
| t-custLstV2            | Output         | t-custlstV2 collection. Each row in the collection represents one record found in the ARSC table that qualified based on the selection criteria.                                      |

## Notes:

For the Balance Type field, pass the following value and that balance field will be examined:

- “1” – Period 1
- “2” – Period 2
- “3” – Period 3
- “4” – Period 4
- “f” – Future balance

For the Summary Type field, pass the following value for the desired selection option:

- “salesytd” – Searches for ARSC records with arsc.salestyd >= the From Summary Amount and arsc.salestyd < To Summary amount
- “costytd” – arsc.costtyd >= the From Summary Amount and < To Summary Amount
- “marginytd” – (arsc.salestyd – arsc.costtyd) >= the From Summary Amount and < To Summary Amount
- “lastsalesytd” – arsc.lastsalesytd >= the From Summary Amount and < To Summary Amount
- “lastcostytd” – arsc.lastcostytd >= the From Summary Amount and < To Summary Amount
- “lastmarginytd” – (arsc.lastsalesytd – arsc.lastcostytd) >= the From Summary Amount and < To Summary Amount

| t-custlst collection |           |
|----------------------|-----------|
| Field                | Type      |
| Custno               | decimal   |
| Shipto               | character |
| Name                 | character |
| Addr1                | character |

# ION API Technical Documentation

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|               |           |
|---------------|-----------|
| Addr2         | character |
| City          | character |
| State         | character |
| Zipcd         | character |
| Ordbal        | decimal   |
| Totalbal      | decimal   |
| Sortfld       | character |
| Salesytd      | decimal   |
| Costytd       | decimal   |
| Marginytd     | decimal   |
| Lastsalesytd  | decimal   |
| Lastcostytd   | decimal   |
| Lastmarginytd | decima    |
| Periodbal1    | decimal   |
| Periodbal2    | decimal   |
| Periodbal3    | decimal   |
| Periodbal4    | decimal   |
| Periodbal5    | decimal   |

# ION API Technical Documentation

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**API Call:** *sxapiARGetCustPriceTypeList*

**Purpose:** This call returns a list of Customer Price Types (defined in the SASTA table with codeiden = "j").

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the unit of measure value, otherwise it sorts on the description. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                                 |
| t-codeLst        | Output         | The t-codelst collection.  |

**Notes:**

Collection fields:

| t-codelst collection |                                     |
|----------------------|-------------------------------------|
| Field Name           | Type                                |
| Codevalue            | character (Customer Price Type)     |
| Codedesc             | character (description)             |
| Extradata            | character                           |
| Sortfld              | character (sort key for collection) |

# ION API Technical Documentation

## **API Call:** *sxapiARGetInvoiceList*

**Purpose:** Get a list of invoices for a customer based on a variety of selection criteria.

### **Parameters:**

| REST Params              | Direction      | Description   |
|--------------------------|----------------|---|
| companyNumber            | Input/required | Company #   |
| operatorInit             | Input/required | SASO operator for the company specified   |
| operatorPassword         | Input/optional | SASO operator password (only required if business rule is set)                      |
| customerNumber           | Input          | CustNo – Required Customer Number   |
| shipTo                   | Input          | ShipTo – Optional Ship To   |
| includeInvoices          | Input          | Invoices – Set to YES to get list of invoices                                       |
| includeServiceCharges    | Input          | ServiceCharges – Set to YES to get list of service charges                          |
| includeCOD               | Input          | COD – Set to YES to get list of COD   |
| includeDebitMemos        | Input          | DebitMemos – Set to YES to list of debit memos                                      |
| includeCreditMemos       | Input          | CreditMemos – Set to YES to get list of credit momos                                |
| includeUnappliedCash     | Input          | UnappCash – Set to YES to get list of unapplied cash                                |
| includeMiscCredits       | Input          | MiscCredits – Set to YES to get list of Misc Credits                                |
| includeRebates           | Input          | Rebates – Set to YES to get list of rebates   |
| includeChecks            | Input          | Checks – Set to YES to get list of checks   |
| includeScheduledPayments | Input          | ScheduledPayments – Set to YES to get list of scheduled payments                    |
| status                   | Input          | Status – Valid status that can be used are Open, Closed, Disputed or All            |
| startDate                | Input          | FromDate – Starting date for date range   |
| endDate                  | Input          | ToDate – Ending date for date range   |
| invoiceNumber            | Input          | InvoiceNum – Specify an invoice number to get the invoice                           |
| checkNumber              | Input          | CheckNum – Specify a check number to get the check                                  |
| includePeriod1           | Input          | Period1 – Set to yes to get aging info for period 1                                 |
| includePeriod2           | Input          | Period2 – Set to yes to get aging info for period 2                                 |
| includePeriod3           | Input          | Period3 – Set to yes to get aging info for period 3                                 |
| includePeriod4           | Input          | Period4 – Set to yes to get aging info for period 4                                 |
| includePeriod5           | Input          | Period5 – Set to yes to get aging info for period 5                                 |
| includeFutureInvoices    | Input          | FutureInvoices – Set to yes to get future invoices                                  |
| recordLimit              | Input          | RecordLimit – Specify the number of records that need to be returned                |
| moreRecordsAvailable     | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found. |
| errorMessage             | Output         | Error message – Any error messages will be returned in this parameter.              |
| t-artrans                | Output         | A collection with the list of invoices  |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

| t-artrans Collection |           |   |
|----------------------|-----------|---|
| Field Name           | Data Type | Description   |
| Invdt                | date      |   |
| Invno                | character | Contains the invoice # or other text depending on the Type of ARET record                             |
| Invnoraw             | integer   |   |
| Invsufraw            | integer   |   |
| Notesf1              | character |   |
| Statusype            | character | This is a character representation of the Status. Possible values "Open", "Due", or blank for closed. |
| Transcd              | character | This is a 2 character representation of the ARET transaction type (aret.transcd)                      |
| Transcdraw           | integer   |   |

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|           |           |  |
|-----------|-----------|--|
| Refer     | character | Reference field  |
| Amountx   | character | A character representation of the appropriate “amount” or “activity” value |
| Amtduex   | character | A character representation of the appropriate “balance” value              |
| Segno     | integer   |  |
| Period    | integer   |  |
| Discdt    | date      |  |
| discamt   | decimal   |  |
| Duedt     | date      |  |
| Disputef1 | logical   |  |
| Jrnlno    | integer   |  |
| Setno     | integer   |  |

# ION API Technical Documentation

## **API Call:** *sxapiARGetInvoiceListV2*

**Purpose:** Get a list of invoices for a customer based on a variety of selection criteria.

### **Parameters:**

| REST Params              | Direction      | Description   |
|--------------------------|----------------|---|
| companyNumber            | Input/required | Company #   |
| operatorInit             | Input/required | SASO operator for the company specified   |
| operatorPassword         | Input/optional | SASO operator password (only required if business rule is set)                      |
| customerNumber           | Input/Required | CustNo – Required Customer Number   |
| shipTo                   | Input/Optional | ShipTo – Optional Ship To   |
| includeInvoices          | Input/Required | Invoices – Set to TRUE to get list of invoices                                      |
| includeServiceCharges    | Input/Required | ServiceCharges – Set to TRUE to get list of service charges                         |
| includeCOD               | Input/Required | COD – Set to TRUE to get list of COD  |
| includeDebitMemos        | Input/Required | DebitMemos – Set to TRUE to list of debit memos                                     |
| includeCreditMemos       | Input/Required | CreditMemos – Set to TRUE to get list of credit momos                               |
| includeUnappliedCash     | Input/Required | UnappCash – Set to TRUE to get list of unapplied cash                               |
| includeMiscCredits       | Input/Required | MiscCredits – Set to TRUE to get list of Misc Credits                               |
| includeRebates           | Input/Required | Rebates – Set to TRUE to get list of rebates  |
| includeChecks            | Input/Required | Checks – Set to TRUE to get list of checks  |
| includeScheduledPayments | Input/Required | ScheduledPayments – Set to TRUE to get list of scheduled payments                   |
| status                   | Input/Optional | Status – Valid status that can be used are Open, Closed, Disputed or All            |
| startDate                | Input/Optional | FromDate – Starting date for date range   |
| endDate                  | Input/Optional | ToDate – Ending date for date range   |
| invoiceNumber            | Input/Optional | InvoiceNum – Specify an invoice number to get the invoice                           |
| checkNumber              | Input/Optional | CheckNum – Specify a check number to get the check                                  |
| includePeriod1           | Input/Required | Period1 – Set to TRUE to get aging info for period 1                                |
| includePeriod2           | Input/Required | Period2 – Set to TRUE to get aging info for period 2                                |
| includePeriod3           | Input/Required | Period3 – Set to TRUE to get aging info for period 3                                |
| includePeriod4           | Input/Required | Period4 – Set to TRUE to get aging info for period 4                                |
| includePeriod5           | Input/Required | Period5 – Set to TRUE to get aging info for period 5                                |
| includeFutureInvoices    | Input/Required | FutureInvoices – Set to TRUE to get future invoices                                 |
| recordLimit              | Input/Optional | RecordLimit – Specify the number of records that need to be returned                |
| moreRecordsAvailable     | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found. |
| errorMessage             | Output         | Error message – Any error messages will be returned in this parameter.              |
| t-artransV2              | Output         | A collection with the list of invoices  |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

| t-artransV2 collection |           |   |
|------------------------|-----------|---|
| Field Name             | Data Type | Description   |
| Invdt                  | date      |   |
| Invno                  | character | This is a character field containing the invoice # or other text depending on the Type of ARET record |
| Invnoraw               | integer   |   |
| Invsufraw              | integer   |   |
| Notesf1                | character |   |

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|            |           |   |
|------------|-----------|---|
| Statustype | character | This is a character representation of the Status. Possible values "Open", "Due", or blank for closed. |
| Transcd    | integer   | This is a 2 character representation of the ARET transaction type (aret.transcd)<br>Transcdraw        |
| Refer      | char      | Reference field   |
| Amountx    | character | A character representation of the appropriate "amount" or "activity" value                            |
| Amtduex    | character | A character representation of the appropriate "balance" value   |
| Segno      | integer   |   |
| Period     | integer   |   |
| Discdt     | date      |   |
| discamt    | decimal   |   |
| Duedt      | date      |   |
| Disputef1  | logical   |   |
| Jrnlno     | integer   |   |
| Setno      | integer   |   |
| Custpo     | character |   |

# ION API Technical Documentation

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**API Call:** *sxapiARGetMiscCustomerList*

**Purpose:** This call retrieves a list of “misc” customers that are defined in the ARSCL table.

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-misccust       | Output         | The t-misccust collection. There is one record in this collection for each Customer setup as a misc customer (see AO Screen). |

**Notes:**

Field in Collection:

| The t-misccust collection |           |
|---------------------------|-----------|
| Field Name                | Data Type |
| Custno                    | Numeric   |
| Name                      | character |
| Addr1                     | character |
| Addr2                     | character |
| City                      | character |
| State                     | character |
| Zipcd                     | character |
| Pricetype                 | character |
| Pricetypedesc             | character |

If no ARSCL records are present, the API call will look for a single “misc” customer record in ARSC (with customer# = 999999999999) and if that exists, it will return the data from that record in a single collection row.



# ION API Technical Documentation

## **API Call:** *sxapiARGetShipToList*

**Purpose:** Retrieves a list of Ship To (ARSS) records based on a variety of selection criteria.

### **Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)                      |
| customerNumber       | Input/Optional | Customer # - Optional field to select based on a given Customer #.                  |
| shipTo               | Input/Optional | Ship To – Optional field to select those records that begin with this value.        |
| phoneNumber          | Input/Optional | Phone # - Optional field to select those records that begin with this value.        |
| name                 | Input/Optional | Name – Optional field to select those records that begin with this value.           |
| city                 | Input/Optional | City – Optional field to select those records that begin with this value.           |
| state                | Input/Optional | State – Optional field to select based on a state.                                  |
| postalCode           | Input/Optional | Postal Code – Optional field to select those records that begin with this value.    |
| includeClosedJobs    | Input/Required | Closed Flag – Should closed jobs (arss.jobclosedt < today) be included              |
| sort                 | Input          | Sort – not defined yet  |
| recordLimit          | Input/Optional | RecordLimit – Specify the number of records that need to be returned                |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.              |
| moreRecordsAvailable | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found. |
| t-shiptoLst          | Output         | The t-shiptolst collection  |

### **Notes:**

The t-shiptolst collection has the following fields:

| t-shiptolst collection |           |
|------------------------|-----------|
| Field Name             | Data Type |
| Custno                 | decimal   |
| Shipto                 | character |
| Name                   | character |
| Addr1                  | character |
| Addr2                  | character |
| City                   | character |
| State                  | character |
| Zipcd                  | character |
| Phoneno                | character |
| Notesfl                | character |
| Sortflds               | character |

# ION API Technical Documentation

**API Call:** sxapiARGetShipToListV2

**Purpose:** Retrieves a list of Ship To (ARSS) records based on a variety of selection criteria.

**Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)                      |
| customerNumber       | Input/Optional | Customer # - Optional field to select based on a given Customer #.                  |
| shipTo               | Input/Optional | Ship To – Optional field to select those records that begin with this value.        |
| phoneNumber          | Input/Optional | Phone # - Optional field to select those records that begin with this value.        |
| name                 | Input/Optional | Name – Optional field to select those records that begin with this value.           |
| city                 | Input/Optional | City – Optional field to select those records that begin with this value.           |
| state                | Input/Optional | State – Optional field to select based on a state.                                  |
| postalCode           | Input/Optional | Postal Code – Optional field to select those records that begin with this value.    |
| includeClosedJobs    | Input/Required | Closed Flag – Should closed jobs (arss.jobclosedt < today) be included              |
| sort                 | Input          | Sort – not defined yet  |
| recordLimit          | Input          | RecordLimit – Specify the number of records that need to be returned                |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.              |
| moreRecordsAvailable | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found. |
| t-shiptolstv2        | Output         | The t-shiptolstv2 collection  |

**Notes:**

The t-shiptolstv2 collection has the following fields:

| t-shiptolstv2 collection |           |
|--------------------------|-----------|
| Field Name               | Data Type |
| Custno                   | decimal   |
| Shipto                   | character |
| Name                     | character |
| Addr1                    | character |
| Addr2                    | character |
| Addr3                    | character |
| Addr4                    | character |
| City                     | character |
| State                    | character |
| Zipcd                    | character |
| Phoneno                  | character |
| Notesfl                  | character |
| Sortflds                 | character |
| Contact                  | character |
| CountryCd                | character |
| Whse                     | character |
| shipviaty                | character |
| whseseqcd                | character |
| prodrestrict             | character |

# ION API Technical Documentation

## **API Call:** *sxapiARGetShipToListV3*

**Purpose:** Retrieves a list of Ship To (ARSS) records based on a variety of selection criteria.

### **Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)                      |
| customerNumber       | Input          | Customer # - Optional field to select based on a given Customer #.                  |
| shipTo               | Input          | Ship To – Optional field to select those records that begin with this value.        |
| phoneNumber          | Input          | Phone # - Optional field to select those records that begin with this value.        |
| name                 | Input          | Name – Optional field to select those records that begin with this value.           |
| city                 | Input          | City – Optional field to select those records that begin with this value.           |
| state                | Input          | State – Optional field to select based on a state.                                  |
| postalCode           | Input          | Postal Code – Optional field to select those records that begin with this value.    |
| includeClosedJobs    | Input          | Closed Flag – Should closed jobs (arss.jobclosedt < today) be included              |
| sort                 | Input          | Sort – not defined yet  |
| recordLimit          | Input          | RecordLimit – Specify the number of records that need to be returned                |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.              |
| moreRecordsAvailable | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found. |
| t-shiptolstv3        | Output         | The t-shiptolstv3 collection  |
| t-shiptovaluepair    | Output         | The t-shiptovaluepair collection  |

### **Notes:**

The t-shiptolstv3 collection has the following fields:

| <b>t-shiptolstv3 collection</b> |           |
|---------------------------------|-----------|
| Field Name                      | Data Type |
| Custno                          | Decimal   |
| Shipto                          | Character |
| Name                            | Character |
| Addr1                           | Character |
| Addr2                           | Character |
| Addr3                           | Character |
| Addr4                           | Character |
| City                            | Character |
| State                           | Character |
| Zipcd                           | character |
| Phoneno                         | character |
| Notesfl                         | character |
| Sortfld                         | character |
| Contact                         | character |
| CountryCd                       | character |
| Whse                            | character |
| Whse                            | character |
| Shipviaty                       | character |
| Whseseqcd                       | character |

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|              |           |
|--------------|-----------|
| Prodrestrict | character |
| Poreqfl      | logical   |
| Custpo       | character |

The t-shiptovaluepair collection has the following fields:

| <b>t-shiptovaluepair collection</b> |                  |                                     |
|-------------------------------------|------------------|-------------------------------------|
| <b>Field Name</b>                   | <b>Data Type</b> |                                     |
| Sortfld                             | Character        |                                     |
| Custno                              | Decimal          | Returns cust #                      |
| Shipto                              | Character        | Returns shipto code                 |
| Fieldname                           | Character        | Returns bofl, invtofl, user1-user24 |
| Fieldvalue                          | Character        | Returns value                       |

# ION API Technical Documentation

## **API Call:** *sxapiARGetShipToListV4*

**Purpose:** Retrieves a list of Ship To (ARSS) records based on a variety of selection criteria.

### **Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)                      |
| customerNumber       | Input          | Customer # - Optional field to select based on a given Customer #.                  |
| shipTo               | Input          | Ship To – Optional field to select those records that begin with this value.        |
| phoneNumber          | Input          | Phone # - Optional field to select those records that begin with this value.        |
| name                 | Input          | Name – Optional field to select those records that begin with this value.           |
| city                 | Input          | City – Optional field to select those records that begin with this value.           |
| state                | Input          | State – Optional field to select based on a state.                                  |
| postalCode           | Input          | Postal Code – Optional field to select those records that begin with this value.    |
| includeClosedJobs    | Input          | Closed Flag – Should closed jobs (arss.jobclosedt < today) be included              |
| sort                 | Input          | Sort – not defined yet  |
| recordLimit          | Input          | RecordLimit – Specify the number of records that need to be returned                |
| t-infieldvalue       | Input          | The t-infieldvalue collection   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.              |
| moreRecordsAvailable | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found. |
| t-shiptolstv3        | Output         | The t-shiptolstv3 collection  |
| t-shiptovaluepair    | Output         | The t-shiptovaluepair collection  |
| t-outfieldvalue      | Output         | The t-outfieldvalue collection  |

### **Notes:**

The t-shiptolstv3 collection has the following fields:

| <b>t-shiptolstv3 collection</b> |           |
|---------------------------------|-----------|
| Field Name                      | Data Type |
| Custno                          | Decimal   |
| Shipto                          | Character |
| Name                            | Character |
| Addr1                           | Character |
| Addr2                           | Character |
| Addr3                           | Character |
| Addr4                           | Character |
| City                            | Character |
| State                           | Character |
| Zipcd                           | character |
| Phoneno                         | character |
| Notesfl                         | character |
| Sortfld                         | character |
| Contact                         | character |
| CountryCd                       | character |
| Whse                            | character |
| Whse                            | character |

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|              |           |
|--------------|-----------|
| Shipviaty    | character |
| Whseseqcd    | character |
| Prodrestrict | character |
| Poreqfl      | logical   |
| Custpo       | character |

The t-shiptovaluepair collection has the following fields:

| <b>t-shiptovaluepair collection</b> |                  |                                     |
|-------------------------------------|------------------|-------------------------------------|
| <b>Field Name</b>                   | <b>Data Type</b> |                                     |
| Sortfld                             | Character        |                                     |
| Custno                              | Decimal          | Returns cust #                      |
| Shipto                              | Character        | Returns shipto code                 |
| Fieldname                           | Character        | Returns bofl, invtofl, user1-user24 |
| Fieldvalue                          | Character        | Returns value                       |

The t-infieldvalue and t-outfieldvalue collection has the following fields:

| <b>Field Name</b> | <b>Type</b> |  |
|-------------------|-------------|--|
| Level             | character   |  |
| Lineno            | integer     |  |
| Segno             | integer     |  |
| Fieldname         | character   | Permits "slsrepin", "slsrepout" and salesterr for t-infieldvalue |
| Fieldvalue        | character   |  |

# ION API Technical Documentation

## **API Call:** *sxapiCAMActivityMnt*

**Purpose:** This call will maintain (add, change, delete) Contact and Activity (CAM) Activity records.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-mnt-tt         | Input          | This first parameter is a collection that defines the operation to perform (see notes section)                          |
| extraData        | Input          | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – This parameter will contain a pipe ( ) delimited list of information as to the success of the operator. |

### **Notes:**

This API call uses a collection (t-mnt-tt) to control its operation. The collection has the following fields:

|            |                   |
|------------|-------------------|
| setno      | numeric / integer |
| seqno      | numeric / integer |
| key1       | character         |
| key2       | character         |
| updatemode | character         |
| fieldname  | character         |
| fieldvalue | character         |

All of the records, within the collection, are grouped together by a Set #. Each Set # represents a single operation that will be performed against the CSD system.

The seq # is just a sequential number that forces the collection rows to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “add” or “chg”.

The “fieldname” field is the field that will be updated, within the CSD database table (ACTIVITIES). See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the Activity ID during the “chg”, or “del” operation. During an “add” operation, the “key1” field should not be specified, since the system will assign the next Activity ID. The “key2” field is not used.

Example of a new Activity being added:

| set# | seq# | updatemode | key1 | key2 | fieldname  | fieldvalue        |
|------|------|------------|------|------|------------|-------------------|
| 1    | 1    | add        |      |      | oper2      | mtt               |
| 1    | 2    | add        |      |      | activitycd | adm               |
| 1    | 3    | add        |      |      | schstartdt | 12/13/03          |
| 1    | 4    | add        |      |      | schstarttm | 0830              |
| 1    | 5    | add        |      |      | comment    | Follow up on this |

The following is a list of valid “fieldname” values:

activitycd, actstartdt, actstarttm, actstopdt, actstop tm, comment, docorderno, docordersuf, doctype, durationtm, groupnm, groupseqno, msgwinselectfl, name, oper2, parentactvid, phoneno, priority, resultcd, schstartdt, schstarttm, statuscd, subjectprimarykey, subjectsecondkey, subjecttype, user1, user2, user3, user4, user5, user6, user7, user8, user9, whse

As the collection rows are read, the following validation will be performed if the data for that field has been included in the input collection:

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| <u>Field Name</u> | <u>Validation</u>                                    |
|-------------------|--|
| activitycd        | Must be defined in the SASTA table (codeiden = "ac") |
| contacted         | Must be defined in the CONTACTS table                |
| resultcd          | Must be defined in the SASTA table (codeiden = "ar") |
| statuscd          | Must be "a", "i", or "c"                             |



# ION API Technical Documentation

## **API Call:** *sxapiCAMContactMnt*

**Purpose:** This call will maintain (add, change, delete) Contact and Activity (CAM) Contact records.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-mnt-tt         | Input          | This first parameter is a collection that defines the operation to perform (see notes section)                          |
| extraData        | Input          | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – This parameter will contain a pipe ( ) delimited list of information as to the success of the operator. |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|            |                   |
|------------|-------------------|
| setno      | numeric / integer |
| seqno      | numeric / integer |
| key1       | character         |
| key2       | character         |
| updatemode | character         |
| fieldname  | character         |
| fieldvalue | character         |

All of the records, within the collection, are grouped together by a Set #. Each Set # represents a single operation that will be performed against the CSD system.

The seq # is just a sequential number that forces the collection rows to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “add”, “chg”, or “del”. At this time, “del” is not supported.

The “fieldname” field is the field that will be updated, within the CSD database table (CONTACTS). See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the Contact ID during the “chg”, or “del” operation. During an “add” operation, the “key1” field should not be specified, since the system will assign the next Contact ID. The “key2” field is not used.

Example of a new Contact being added:

| set# | seq# | updatemode | key1 | key2 | fieldname     | fieldvalue        |
|------|------|------------|------|------|---------------|-------------------|
| 1    | 1    | add        |      |      | firstnm       | Mike              |
| 1    | 2    | add        |      |      | lastnm        | Taylor            |
| 1    | 3    | add        |      |      | addtiearsc    | 101               |
| 1    | 4    | add        |      |      | workemailaddr | mtaylor@infor.com |
| 1    | 5    | add        |      |      | workphoneno   | 7195552111        |

The following is a list of valid “fieldname” values:

charuser1, charuser10, charuser2, charuser3, charuser4, charuser5, charuser6, charuser7, charuser8, charuser9, comment, contacttype, cotitle, crmid, dateuser1, dateuser2, dateuser3, dateuser4, dateuser5, decuser1, decuser2, decuser3, decuser4, decuser5, firstnm, groupcd, intuser1, intuser2, intuser3, intuser4, intuser5, lastnm, loguser1, loguser2, loguser3, loguser4, loguser5, middlenm, priority, salutation, user1, user2, user3, user4, user5, user6, user7, user8, user9, workphoneno, homephoneno, cellphoneno, tollfreephoneno, pagerphoneno, faxnumber, workemailaddr, homeemailaddr, addr1, addr2, addr3, city, state, zipcd, addrdesc, addtiearsc,

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deltiearsc, addtiearss, deltiearss, addtieapsv, deltieapsv, addtieapss, deltieapss, addtiecmsp, deltiecmsp, addtieprod, deltieprod

As the collection rows are read, the following validation will be performed if the data for that field has been included in the input collection:

| Field Name  | Validation   |
|-------------|--|
| Contacttype | Must be defined in the SASTA table (codeiden = "ct")           |
| Addtiearsc  | Must contain a valid ARSC customer#                            |
| Deltiearsc  | Must contain a valid ARSC customer #                           |
| Addtiearss  | Must contain a valid ARSS customer # and ship to (comma sep)   |
| Deltiearss  | Must contain a valid ARSS customer # and ship to (comma sep)   |
| Addtieapsv  | Must contain a valid APSV vendor #                             |
| Deltieapsv  | Must contain a valid APSV vendor #                             |
| Addtieapss  | Must contain a valid APSS vendor # and ship from # (comma sep) |
| Deltieapss  | Must contain a valid APSS vendor # and ship from # (comma sep) |
| Addtiecmsp  | Must contain a valid CMSP prospect #                           |
| Deltiecmsp  | Must contain a valid CMSP prospect #                           |
| Addtieprod  | Must contain a valid ICSP/ICSC product                         |
| Deltieprod  | Must contain a valid ICSP/ICSC product                         |

## PhoneNo and eMail Hierarchy:

Since the Contact-Method in CSD does not store the phone numbers or email addresses in specific database fields that identify them in the contact's file as such, there is a hierarchy order that a search is done to determine what the 'type' of phone number or email address the update needs to apply to (chg or del) or what default to load for the field being updated (add):

### Hierarchy:

1. SASTT – Code Value or Description match specific work find  
Example: 'workphoneno' looks for word 'work', 'homephoneno looks for word 'home'
2. Contacts-Methods Description or MethodKey match  
When a Contact-Method is created in CSD, it will use the SASTT CodeValue and load that into the contact-method.methodkey field. So the Contact-Method's setup in SASTT can say 'Work' and description of 'work phone'. The word 'work' is stored in the methodkey field. The description is a free-form field which is loaded with anything the operator want to load in there.
3. Find First Contacts-Methods primary  
If a specific find failed off the first two attempts, then primary 'phone' contact method is assumed a 'work phone number', so this search is for a work phone number only or work email address only.
4. First phone email contact-method  
If the other three attempts failed, then just finds the first record for the Specific type (phone or email). This search is for a work phone number only or work email address only.

\*\* Once a phone/email record has been assigned to a specific search or find, then the record cannot be reused.

## Delete of a specific Phone or eMail number:

There is an update type that is passed for the contact called 'del'. This delete is considered a delete of 'all' the contact-roles, contact-methods and the actual contact record supplied. We introduced a way to 'delete' a single phone number or email address using the 'chg' update type for the contact.

The 'chg' type and a blank workphoneno or blank homephoneno, etc will delete the contact-method for the type if an existing 'work', or 'home', etc phone number is found that is not already blank (based on the hierarchy listed above). The transaction is requesting a phone number be deleted, so the system needs to find a specific 'work', 'home', 'cell', etc number to remove.

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## **API Call:** *sxapiCAMGetActivityList*

**Purpose:** Retrieve a list of Contact and Activity Manager (CAM) Activity records.

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| operators            | Input/Optional | The optional list of Operators (either a single operator initials or comma-separated list)   |
| activityCode         | Input/Optional | The optional Activity Code   |
| contactID            | Input/Optional | The optional Contact Id  |
| startDate            | Input/Optional | The optional From Scheduled Start Date   |
| endDate              | Input/Optional | The optional To Scheduled Start Date   |
| startTime            | Input/Optional | The optional From Scheduled Start Time   |
| endTime              | Input/Optional | The optional To Scheduled Start Time   |
| statusCode           | Input/Optional | The optional Status Code (if left blank, only (A)ctive records will be selected.   |
| subjectPrimaryKey    | Input/Optional | The optional Subject Primary Key   |
| subjectSecondKey     | Input/Optional | The optional Subject Secondary Key   |
| subjectType          | Input/Optional | The optional Subject Type (ARSC, ARSS, APSV, APSS, CMSP, or PROD).   |
| updateType           | Input/Optional | The optional update type (currently not used)  |
| eventManagerOnly     | Input/Required | The Event Manager only flag. If this is set to "yes", only CAM Activities created from Event Manager will be selected.   |
| includeNoteData      | Input/Required | The Extract Notes Data flag. If this is set to "yes", then CAM Activity note data will be extracted.   |
| noteDataLineFeed     | Input/Required | The Notes Line Feed Flag. If this is set to "yes", and Notes data is being extracted, then should a carriage return character be inserted after each Note array element (note line). |
| sort                 | Input          | The optional sort type (currently not used)  |
| recordLimit          | Input/Optional | The optional Record Limit – Specify the number of records that need to be returned.  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found.  |
| t-camactivity        | Output         | The "t-camactivity" collection.  |

### **Notes:**

The "t-camactivity" collection contains the following fields:

| <b>"t-camactivity" collection</b> |           |
|-----------------------------------|-----------|
| Field Name                        | Data Type |
| Activity Code                     | character |
| Activity Code Desc                | character |
| Activity ID                       | decimal   |
| Comment                           | character |
| Contact ID                        | decimal   |
| Contact Name                      | character |
| Doc Order Number                  | integer   |
| Doc Order Suffix                  | integer   |
| Doc Ttype                         | character |
| Doc Order String                  | character |
| Group Name                        | character |
| Notes Data                        | character |

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|                           |           |
|---------------------------|-----------|
| Operator Initials (oper2) | character |
| Operator's Email Address  | character |
| Parent Activity ID        | decimal   |
| Priority                  | integer   |
| Scheduled Start Date      | date      |
| Scheduled Start Time      | character |
| Status Code               | character |
| Subject Primary Key       | character |
| Subject Secondary Key     | character |
| Subject Type              | character |
| Subject Name              | character |
| Whse                      | character |
| Sort Field                | character |

# ION API Technical Documentation

## **API Call:** *sxapiCAMGetContactList*

**Purpose:** Retrieve a list of Contact and Activity Manager (CAM) Contact records

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| contactID            | Input/Optional | An optional single Contact ID parameter. If specified, only a single Contact will be selected and all other selection fields will be ignored.  |
| subjectRoleType      | Input/Optional | An optional Subject Role Type. If specified, only those contacts for a given subject (used in conjunction with the next 2 paramaters) will be selected. Valid choices are "arsc,arss,apsv,apss,cmssp,prod" |
| subjectPrimaryKey    | Input/Optional | An optional Subject Primary key.   |
| subjectSecondaryKey  | Input/Optional | An optional Subject Secondary Key.   |
| firstName            | Input/Optional | An optional First Name (any Contact that begins with this value will be selected).   |
| lastName             | Input/Optional | An optional Last Name (any Contact that begins with this value will be selected).  |
| contactType          | Input/Optional | An optional Contact Type   |
| priority             | Input/Optional | An optional Priority. If the value that is passed is not zero, then the Contacts with this priority will be selected.  |
| sort                 | Input          | Sort Options (currently not used)  |
| recordLimit          | Input/Optional | The optional Record Limit – Specify the number of records that need to be returned.  |
| extractNotesFlag     | Input/Required | A flag indicating if Contact Notes data should be extracted (currently not used).  |
| notesDelimiter       | Input/Optional | An optional field that is used to delimit the note data (currently not used)   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-camcontact         | Output         | The output "t-camcontact" collection (see below)   |
| moreRecordsAvailable | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found.  |

### **Notes:**

The "t-camcontact" collection contains the following fields:

| <b>"t-camcontact" collection</b> |           |
|----------------------------------|-----------|
| Field Name                       | Data Type |
| contactid                        | decimal   |
| cono                             | integer   |
| firstnm                          | character |
| middlenm                         | character |
| lastnm                           | character |
| comment                          | character |
| contacttype                      | character |
| contacttypedesc                  | character |
| cotitle                          | character |
| groupcd                          | character |
| priority                         | integer   |
| salutation                       | character |
| dateuser1                        | date      |
| dateuser2                        | date      |
| dateuser3                        | date      |
| dateuser4                        | date      |

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|                     |           |
|---------------------|-----------|
| dateuser5           | date      |
| decuser1            | decimal   |
| decuser2            | decimal   |
| decuser3            | decimal   |
| decuser4            | decimal   |
| decuser5            | decimal   |
| intuser1            | integer   |
| intuser2            | integer   |
| intuser3            | integer   |
| intuser4            | integer   |
| intuser5            | integer   |
| charuser1           | character |
| charuser2           | character |
| charuser3           | character |
| charuser4           | character |
| charuser5           | character |
| charuser6           | character |
| charuser7           | character |
| charuser8           | character |
| charuser9           | character |
| charuser10          | character |
| loguser1            | logical   |
| loguser2            | logical   |
| loguser3            | logical   |
| loguser4            | logical   |
| loguser5            | logical   |
| firstroletype       | character |
| firstprimarykey     | character |
| firstsecondarykey   | character |
| firstname           | character |
| secondroletype      | character |
| secondprimarykey    | character |
| secondsecondarykey  | character |
| secondname          | character |
| firstphoneno        | character |
| firstphonenodesc    | character |
| secondphoneno       | character |
| secondphonenodesc   | character |
| thirdphoneno        | character |
| thirdphonenodesc    | character |
| faxphoneno          | character |
| firstemailaddr      | character |
| firstemailaddrdesc  | character |
| secondemailaddr     | character |
| secondemailaddrdesc | character |
| addr1               | character |
| addr2               | character |
| city                | character |
| state               | character |
| zipcd               | character |
| notesdata           | character |
| sortfield           | character |

# ION API Technical Documentation

## **API Call:** *sxapiCAMGetContactListV2*

**Purpose:** Retrieve a list of Contact and Activity Manager (CAM) Contact records

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| contactID            | Input/Optional | An optional single Contact ID parameter. If specified, only a single Contact will be selected and all other selection fields will be ignored.  |
| subjectRoleType      | Input/Optional | An optional Subject Role Type. If specified, only those contacts for a given subject (used in conjunction with the next 2 paramaters) will be selected. Valid choices are "arsc,arss,apsv,apss,cmssp,prod" |
| subjectPrimaryKey    | Input/Optional | An optional Subject Primary key.   |
| subjectSecondaryKey  | Input/Optional | An optional Subject Secondary Key.   |
| firstName            | Input/Optional | An optional First Name (any Contact that begins with this value will be selected).   |
| lastName             | Input/Optional | An optional Last Name (any Contact that begins with this value will be selected).  |
| contactType          | Input/Optional | An optional Contact Type   |
| priority             | Input/Optional | An optional Priority. If the value that is passed is not zero, then the Contacts with this priority will be selected.  |
| sort                 | Input          | Sort Options (currently not used)  |
| recordLimit          | Input/Optional | The optional Record Limit – Specify the number of records that need to be returned.  |
| extractNotesFlag     | Input/Required | A flag indicating if Contact Notes data should be extracted (currently not used).  |
| notesDelimiter       | Input/Optional | An optional field that is used to delimit the note data (currently not used)   |
| t-infieldvalue       | Input/Optional | The input "t-infieldvalue" collection (see below)  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-camcontact         | Output         | The output "t-camcontact" collection (see below)   |
| t-outfieldvalue      | Output         | The output "t-outfieldvalue" collection (see below)  |
| moreRecordsAvailable | Output         | MoreRecordsfl – This flag will be set to yes if more records are there to be found.  |

### **Notes:**

The "t-camcontactv2" collection contains the following fields:

| <b>"t-camcontactv2" collection – param #14</b> |           |
|--|-----------|
| Field Name                                     | Data Type |
| contactid                                      | Decimal   |
| cono   | Integer   |
| firstnm  | Character |
| middlenm                                       | Character |
| lastnm   | Character |
| comment  | Character |
| contacttype                                    | Character |
| contacttypedesc                                | character |
| cotitle  | Character |
| groupcd  | Character |
| priority                                       | Integer   |
| salutation                                     | Character |
| dateuser1                                      | Date      |

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|                     |           |
|---------------------|-----------|
| dateuser2           | Date      |
| dateuser3           | Date      |
| dateuser4           | Date      |
| dateuser5           | Date      |
| decuser1            | Decimal   |
| decuser2            | Decimal   |
| decuser3            | Decimal   |
| decuser4            | Decimal   |
| decuser5            | Decimal   |
| intuser1            | Integer   |
| intuser2            | Integer   |
| intuser3            | Integer   |
| intuser4            | Integer   |
| intuser5            | Integer   |
| charuser1           | Character |
| charuser2           | Character |
| charuser3           | Character |
| charuser4           | Character |
| charuser5           | Character |
| charuser6           | Character |
| charuser7           | Character |
| charuser8           | Character |
| charuser9           | Character |
| charuser10          | Character |
| loguser1            | Logical   |
| loguser2            | Logical   |
| loguser3            | Logical   |
| loguser4            | Logical   |
| loguser5            | Logical   |
| firstroletype       | Character |
| firstprimarykey     | character |
| firstsecondarykey   | Character |
| firstname           | Character |
| secondroletype      | Character |
| secondprimarykey    | character |
| secondsecondarykey  | Character |
| secondname          | Character |
| firstphoneno        | Character |
| firstphonenodesc    | Character |
| secondphoneno       | Character |
| secondphonenodesc   | Character |
| thirdphoneno        | Character |
| thirdphonenodesc    | Character |
| faxphoneno          | Character |
| firstemailaddr      | Character |
| firstemailaddrdesc  | Character |
| secondemailaddr     | Character |
| secondemailaddrdesc | character |
| addr1               | character |
| addr2               | character |
| addr3               | character |
| city                | Character |
| state               | Character |
| zipcd               | Character |
| notesdata           | Character |



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|           |           |
|-----------|-----------|
| sortfield | Character |
|-----------|-----------|

Collection fields for both “t-infieldvalue” and “t-outfieldvalue”:

| Field Name | Type      |
|------------|-----------|
| Level      | character |
| Lineno     | integer   |
| Seqno      | integer   |
| Fieldname  | character |
| Fieldvalue | character |

# ION API Technical Documentation

## **API Call:** *sxapiCMPromoteProspectToCustomer*

**Purpose:** Promote a CMSP Prospect record to a customer – which creates a new ARSC customer record.

### **Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified  |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)                   |
| prospectNumber    | Input/Required | The required prospect #  |
| newCustomerNumber | Input/Optional | An optional customer #, to be used when creating the new Customer (ARSC) record. |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter.           |
| companyNumberOut  | Output         | The returned Company # for the newly created ARSC customer.                      |
| customerNumberOut | Output         | The returned Customer # for the newly created ARSC record                        |

### **Notes:**

This SXAPI call will first read the Prospect (CMSP) record to ensure it exists. If not, an error message is returned. Next, the CMSP record is checked to ensure it is not already tied to a Customer (cmisp.conoul and cmisp.custno must be zero). If it's already tied, then an error is returned.

If the new Customer # was passed in as the input parameter, then this customer # cannot already be used. If so, an error message is returned and the call will terminate.

If the new Customer # was not passed in, the call will attempt to use the value from the Prospect # as the Customer #, if it is not already used. Otherwise, the next available Customer # will be object.

The ARSC record will be created, and the following CMSP fields will be copied to it: addr[1], addr[2], addr3, city, comment, faxphoneno, name, phoneno, siccd[1], siccd[2], siccd[3], spcdefaultty, state, and zipcd.

If the CMSP record contains a valid Country Code (defined in SASTT for this company #), then it will be copied over.

If the CMSP record contains a valid inside sales rep (cmisp.inslsrep), it will be copied over.

If the CMSP record contains a valid outside sales rep (cmisp.slsrep), it will be copied over.

The CMSP record will be updated to reflect this customer tie, and the CRM synchronization flag (cmisp.syncrmfl) will be turned off. This is being done for the Correlation 2-way synchronization feature, since only the ARSC record should be synchronized at this point.

Since this SXAPI call is creating a new Customer (ARSC) record, additional logic was added to provide some defaults for certain fields (ex: Terms). These defaults allow the newly created Customer to be initialized so a sales order can be placed. These defaults are setup as Business Rules (SXXMLRULE records), which are maintained in the OEIE GUI menu functions. The following lists how those business rules would be setup:

|                  |  |
|------------------|--|
| Trading Partner: | <blank>  |
| Document Handler | sxapi  |
| Direction:       | <blank>  |
| Node Name:       | The company #. Ex: 1000  |
| Attribute Name:  | ar   |
| Rule Type:       | defaultselltype  |
| Rule Value:      | One of the following single characters:<br>Y (Yes)<br>N (No)<br>H (Hold Until)<br>O (Open Until) |

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Purpose: D (COD)  
This controls the default "selltype" (Sales Order Status) field

Trading Partner: <blank>  
Document Handler: sxapi  
Direction: <blank>  
Node Name: The company #. Ex: 1000  
Attribute Name: ar  
Rule Type: defaulttermstype  
Rule Value: A valid terms code setup in SASTT  
Purpose: This controls the default "termstype" field

Trading Partner: <blank>  
Document Handler: sxapi  
Direction: <blank>  
Node Name: The company #. Ex: 1000  
Attribute Name: ar  
Rule Type: defaultslsrepout  
Rule Value: A valid sales rep setup in SMSN / OESS  
Purpose: This controls the default "slsrepout" field

Trading Partner: <blank>  
Document Handler: sxapi  
Direction: <blank>  
Node Name: The company #. Ex: 1000  
Attribute Name: ar  
Rule Type: defaultnontaxtype  
Rule Value: A valid non tax type code, setup in SASTT  
Purpose: This controls the default "nontaxtype" field

Trading Partner: <blank>  
Document Handler: sxapi  
Direction: <blank>  
Node Name: The company #. Ex: 1000  
Attribute Name: ar  
Rule Type: defaultarsccredlim  
Rule Value: A numeric credit limit value  
Purpose: This controls the default "credlim" field for ARSC

Trading Partner: <blank>  
Document Handler: sxapi  
Direction: <blank>  
Node Name: The company #. Ex: 1000  
Attribute Name: ar  
Rule Type: defaultarsscredlim  
Rule Value: A numeric credit limit value  
Purpose: This controls the default "credlim" field for ARSS

It's possible for the prospect record to have CAM Contacts attached. In this case, these Contacts are updated to be tied to the newly created Customer, as well as the Prospect. This feature is controlled by the presence of a business rule:

Trading Partner: <blank>  
Document Handler: sxapi  
Direction: <blank>  
Node Name: <blank>  
Attribute Name: promoteprospects  
Rule Type: createcontactsroles

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Rule Value: The value "yes"

# ION API Technical Documentation

## **API Call:** *sxapiCMProspectMnt*

**Purpose:** This call will maintain (add, change, delete) Customer Marketing (CMSP) records.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-mnt-tt         | Input          | This first parameter is a collection that defines the operation to perform (see notes section)                          |
| extraData        | Input          | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – This parameter will contain a pipe ( ) delimited list of information as to the success of the operator. |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|            |                   |
|------------|-------------------|
| setno      | numeric / integer |
| seqno      | numeric / integer |
| key1       | character         |
| key2       | character         |
| updatemode | character         |
| fieldname  | character         |
| fieldvalue | character         |

All of the records, within the collection, are grouped together by a Set #. Each set # represents a single operation that will be performed against the CSD system.

The seq # is just a sequential number that forces the collection rows to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “add” or “chg”.

The “fieldname” field is the field that will be updated, within the CSD database table (CMSP). See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the Prospect # during the “chg”, or “del” operation. It can also be used during the “add” operation to specify the Prospect # to be assigned (cannot already exist within SX) for the new Prospect being added. During an “add” operation, the “key1” field can be left blank and the next available prospect # will be used.

Example of a new Prospect being added:

| set# | seq# | updatemode | key1 | key2 | fieldname | fieldvalue        |
|------|------|------------|------|------|-----------|-------------------|
| 1    | 1    | add        |      |      | name      | Mike Taylor       |
| 1    | 2    | add        |      |      | addr1     | 5760 Eldora Drive |
| 1    | 3    | add        |      |      | city      | Colo Springs      |
| 1    | 4    | add        |      |      | state     | co                |
| 1    | 5    | add        |      |      | zipcd     | 80918             |

The following is a list of valid “fieldname” values:

addr1, addr2, addr3, autoactcd, bestcall, city, comment, competition, contactfreq, cosize, country, eproptype, faxphoneno, freqtype, inslsrep, lastcontdt, lastconttm, name, nextcontdt, nextconttm, phoneno, prostype, rating, siccd1, siccd2, siccd3, slsrep, sourcepros, spcdefaultty, stage, state, synccrmfl, user1, user2, user3, user4, user5, user6, user7, user8, user9, usertype1, usertype2, zipcd

# ION API Technical Documentation

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**API Call:** ***sxapicust\****

**Purpose:** used for custom API coding

Any api call that begins with "sxapicust" is a custom API call. If you try to execute it, it will run the standard code that matches the custom name. For example sxapicustoereceiveonacct will run the sxapioereceiveonacct API. Unless you have the custom api setup for your environment, it is recommended that you do not use the "sxapicust" APIs as there can be anomalies since the API has not likely been tested for standard use.

# ION API Technical Documentation

## **API Call:** *sxapiCustomCall*

**Purpose:** used for custom API coding  
To permit creation of new custom SXAPI calls without client file updates.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                        |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set) |
| type             | input          | Type (name) of call being executed                             |
| t-ingén-header   | Input          | Table t-ingén-header   |
| t-ingén-line     | Input          | Table t-ingén-line   |
| errorMessage     | output         | Error message parameter  |
| t-outgen-header  | output         | Table t-outgen-header  |
| t-outgen-line    | output         | Table t-outgen-line  |
| t-messages       | output         | Table t-messages output  |

### **Notes:**

| <b>“t-ingén-header” &amp; t-outgen-header collection</b> |           |
|--|-----------|
| Field Name   | Data Type |
| Key1   | char      |
| Key2   | char      |
| Key3   | char      |
| Custno   | Decimal   |
| Enterdt  | Date      |
| Orderno  | Int       |
| Ordersuf   | Int       |
| prod   | char      |
| shipfm   | char      |
| shipto   | char      |
| stagecd  | int       |
| totcost  | decimal   |
| totcostord   | decimal   |
| totinvamt  | decimal   |
| totinvord  | decimal   |
| totqtyord  | decimal   |
| totqtyshp  | decimal   |
| transtype  | char      |
| vendno   | decimal   |
| whse   | char      |
| char1  | char      |
| Char2  | char      |
| Char3  | char      |
| Char4  | char      |
| Char5  | char      |
| Char6  | char      |
| Char7  | char      |
| Char8  | char      |
| Char9  | char      |
| char10   | char      |
| dec1   | decimal   |
| dec2   | decimal   |
| dec3   | decimal   |
| dec4   | decimal   |
| dec5   | decimal   |

# ION API Technical Documentation

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|       |      |
|-------|------|
| Date1 | date |
| Date2 | date |
| Date3 | date |
| Date4 | date |
| Date5 | date |

## **“t-ingen-line” & t-outgen-line collection**

| Field Name | Data Type |
|------------|-----------|
| Key1       | char      |
| Key2       | char      |
| Key3       | char      |
| Custno     | Decimal   |
| Enterdt    | Date      |
| Orderno    | Int       |
| Ordersuf   | Int       |
| Lineno     | int       |
| prod       | char      |
| Qtyord     | Dec       |
| Qtyship    | dec       |
| Shipfm     | char      |
| Shipto     | char      |
| Statusype  | char      |
| vendno     | decimal   |
| char1      | char      |
| Char2      | char      |
| Char3      | char      |
| Char4      | char      |
| Char5      | char      |
| Char6      | char      |
| Char7      | char      |
| Char8      | char      |
| Char9      | char      |
| char10     | char      |
| dec1       | decimal   |
| dec2       | decimal   |
| dec3       | decimal   |
| dec4       | decimal   |
| dec5       | decimal   |
| Date1      | date      |
| Date2      | date      |
| Date3      | date      |
| Date4      | date      |
| Date5      | date      |

| <b>t-messages collection</b> |      |
|------------------------------|------|
| Setno                        | Int  |
| Segno                        | Int  |
| Fieldname                    | Char |
| messagetext                  | char |



# ION API Technical Documentation

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**API Call:** *sxapiCustomCallv2*

**Purpose:** used for custom API coding

To permit creation of new custom SXAPI call

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                        |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set) |
| type             | Input/required | Type (name) of call being executed                             |
| indata           | Input/required | This is a character large object containing custom JSON        |
| outData          | output         | This is a character large object containing custom JSON        |
| cErrorMessage    | output         | Error message parameter  |

**Notes:**

The indata and outdata are character large object fields containing data specified to the custom requirements. If you need these APIs, please contact your Infor Consulting manager for assistance. Alternatively, if you are an SX.Architect customer, you may request additional information on this API.

# ION API Technical Documentation

## **API Call:** *sxapietccpoacknowledgment*

### **Purpose:**

Submits inbound EDI 855i po acknowledgement data and processes that data through the EDEPA report.

### **Parameters:**

| REST Params         | Direction      | Description  |
|---------------------|----------------|--|
| companyNumber       | Input/required | Company #  |
| operatorInit        | Input/required | SASO operator for the company specified                        |
| operatorPassword    | Input/optional | SASO operator password (only required if business rule is set) |
| purchaseOrderNumber | Input/required | PO #   |
| purchaseOrderSuffix | Input/required | This suffix is required but may be 0                           |
| extraParameter      | Input/optional | Custom parameter   |
| t-inpoackheader     | Input/required | Array containing PO header info                                |
| t-inpoackline       | Input/optional | Array containing po line info                                  |
| cErrorMessage       | Output         | Error message  |
| Returndata          | Output         | Trans id   |

### **Notes:**

| t-inpoackheader/ t-outpoackheader |          |  |
|-----------------------------------|----------|--|
| Field                             | DataType | Comment  |
| ackty                             | char     | Accepted without change, "AC" - Accepted with change |
| duedt                             | date     | optional   |
| dunsno                            | char     | optional   |
| edipartner                        | char     | optional   |
| expshipdt                         | Date     | required   |
| orderdt                           | date     | optional   |
| porcvddt                          | date     | optional   |
| vendno                            | deci     | optional   |
| Whse                              | Char     | optional   |
| User1                             | Char     | optional   |
| User2                             | Char     | optional   |
| User3                             | Char     | optional   |
| User4                             | Char     | optional   |
| User5                             | Char     | optional   |
| User6                             | dec      | optional   |
| User7                             | dec      | optional   |
| User8                             | date     | optional   |
| User9                             | date     | optional   |

| t-inpoackline/ t-outpoackline |          |  |
|-------------------------------|----------|--|
| Field                         | DataType | Comment  |
| barcode                       | char     | Manufacturers Bar Code Number                            |
| commentdata                   | char     | optional   |
| currencyty                    | char     | optional   |
| duedt                         | date     | optional   |
| exchgrate                     | dec      | optional   |
| expshipdt                     | date     | required   |
| lineno                        | int      | required   |
| Inshipdt                      | date     | Optional Scheduled Ship Date                             |
| Instatuscd                    | char     | "IA" - Item accepted, "IC" - Item accepted, changes made |
| price                         | dec      | optional   |
| priceuom                      | char     | optional   |
| qtyord                        | dec      | required   |
| shipprod                      | Char     | Required - if not sending UPC or Vendprod                |
| subfl                         | Boolean  | optional   |
| superfl                       | Boolean  | optional   |

# ION API Technical Documentation

| unit       | char | required   |
|------------|------|--|
| upcno1     | char | Optional - if sending Vendprod or Shipprod               |
| Upcno2     | char | Optional - if sending Vendprod or Shipprod European code |
| Upcno3     | char | Optional - if sending Vendprod or Shipprod Vendor code   |
| Upcno4     | char | Optional - if sending Vendprod or Shipprod Product       |
| Upcno5     | char | Optional - if sending Vendprod or Shipprod               |
| Upcno6     | char | Optional - if sending Vendprod or Shipprod               |
| vendlineno | int  | Optional - if sending UPC or Shipprod                    |
| vendprod   | char | Optional   |
| user1      | char | optional   |
| User2      | char | optional   |
| User3      | char | optional   |
| User4      | char | optional   |
| User5      | char | optional   |
| User6      | dec  | optional   |
| User7      | dec  | optional   |
| User8      | date | optional   |
| User9      | date | optional   |

# ION API Technical Documentation

## **API Call:** *sxapiCBinLocationMnt*

### **Purpose:**

Send in data for a specific Product and Warehouse via a direct CSD product name or a cross reference product name and Retrieve or Update the ICSW Bin Loc 1 and 2 field values along with the extended bin locations (ICSWB).

### **Parameters:**

| REST Params           | Direction       | Description  |
|-----------------------|-----------------|--|
| companyNumber         | Input/required  | Company #  |
| operatorInit          | Input/required  | SASO operator for the company specified  |
| operatorPassword      | Input/optional  | SASO operator password (only required if business rule is set)   |
| customerNumber        | Input/Optional  | Customer Number (decimal). Used if needing to perform the Customer/Product cross reference on the item sent in the SXAPI to find the CSD Product.  |
| shipTo                | Input/Optional  | Ship To (character). Used if needing to perform the Customer Ship To/Product cross reference on the item sent in the SXAPI to find the CSD Product.  |
| warehouse             | Input/Required  | Warehouse (character). Needed to find the ICSW record  |
| productCode           | Input/Required  | Product (character) – Needed to find the ICSW record. Can be the Cross Reference product or CSD product.   |
| crossReferenceFlag    | Input/Required  | Use Cross reference (logical). If the product sent is not the CSD product or want to perform the Cross Reference logic on the product sent, then set to yes.   |
| retrieveFlag          | Input/ Required | Retrieve (logical). If set to 'yes', then the SXAPI call will get the bin location data from the ICSW and ICSWB records if loaded and send them back via a collection called t-outbinlocation (defined below). If the flag is set to 'no', then the SXAPI routine reads the inbound t-inbinlocation collection values to determine what to update. |
| t-inbinlocation       | Input/Optional  | (collection t-inbinlocation) Would be loaded with values if the retrieval flag is set to 'no'. Will contain the data to update the bin(s) in ICSW or ICSWB. The bin locations can be cleared on the ICSW record and the ICSWB – extended bin location records can be updated, created or deleted (see notes for setting values)                    |
| t-infieldvalue        | Input/Optional  | t-infieldvalue collection  |
| errorMessage          | Output          | Error Message (character)  |
| crossReferenceProduct | Output          | Use Product (character) Cross reference  |
| crossReferenceType    | Output          | Use Type (character) Cross Reference type  |
| t-outbinlocation      | Output          | (collection t-outbinlocation) Loaded if the retrieve option is set to yes and found the ICSW with bin locations.   |
| t-outfieldvalue       | Output/Optional | t-outfieldvalue collection   |

### **Notes:**

If the retrieveFlag parameter = yes, then this SXAPI call is being executed in “retrieval” mode. In this case the t-outbinlocation collection (defined below) would be populated.

If the retrieveFlag parameter = no, then this SXAPI call is being executed in “update” mode. In this case, the input t-inbinlocation collection should be sent from the Storeroom application. The following logic will be performed:

# ION API Technical Documentation

1. If the t-inbinlocation.icswbinloc1fl = yes, then the icsw.binloc1 would be updated.
2. If the t-inbinlocation.icswbinloc2fl = yes, then the icsw.binloc2 would be updated.
3. If both of the flags are turned off, then this record represents a change to an ICSWB record. In this case, if the t-inbinlocation.addrecordfl = yes, then a new ICSWB record will be created (first check to see if this record is not already there based on cono, prod, whse, and binloc. If the t-inbinlocation.deleterecordfl = yes, then this represents a deletion of an ICSWB record. Read the ICSWB record if it's present, delete it.

t-outbinlocation collection and t-inbinlocation collection contents:

| Field Name     | Data Type | Contents  |
|----------------|-----------|---|
| binloc         | character | If this collection record is for the icsw.binloc1 or icsw.binloc2, then it contains this data – otherwise it contains the icswb.binloc value. |
| icswbinloc1fl  | logical   | If this collection record is for the icsw.binloc1 then true, else false.  |
| icswbinloc2fl  | logical   | If this collection record is for the icsw.binloc2 then true, else false.  |
| addrecordfl    | logical   | Not used during retrieval.  |
| deleterecordfl | logical   | Not used during retrieval.  |
| charuser       | character |   |
| user1          | character |   |
| user2          | character |   |
| user3          | character |   |
| user4          | character |   |
| user5          | character |   |
| user6          | dec       |   |
| user7          | dec       |   |
| user8          | date      |   |
| user9          | date      |   |

# ION API Technical Documentation

## **API Call:** *sxapiCCustProdMnt*

### **Purpose:**

Update a specific Customer Product Cross Reference record. Can add, chg or delete the record. It will be for a Customer/Product specific record (rectype = "c") or for a Customer/ShipTo/Product specific record (rectype = "h"). Controlled by the input parameters passed in the customer and shipto.

### **Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)  |
| updateType            | Input/Required | Update Type – "D" for Delete. Any other letter is interpreted as an "U"pdate, which will update an existing record if found and otherwise create a new record.          |
| customerNumber        | Input/Required | Customer Number (decimal)   |
| shipTo                | Input/Optional | Ship To (character). Optional if doing a Customer Product specific update (rectype = 'c'). It is Required if doing a specific Customer/Shipto update (rectype = 'h').   |
| productCode           | Input/Required | Product (character) – Vendor's Product  |
| alternateProductCode  | Input/Required | Product (character) – Product (ICSP or ICSC)  |
| orderQuantity         | Input/Required | Order Quantity (Decimal)  |
| unitSell              | Input/Required | Selling Unit (character)  |
| additionalPrintInfo   | Input/Required | Additional Print Information (character)  |
| lastPrice             | Input/Required | Last Paid Price (decimal). Once the Last Paid field is updated on the ICSEC record, it cannot be changed. Updated means a value ne 0. Once loaded it cannot be changed. |
| generalLedgerAccount  | Input/Required | Customer GL Account Number (character)  |
| customParameter       | Input/Optional | Custom Parameter (character)  |
| errorMessage          | Output         | Returned Error Message (character)  |
| outputCustomParameter | Output         | Custom Parameter (character)  |

### **Notes:**

Does not have a collection in the input or output parameters since it is a one to one record update directly to the ICSEC record.

REQUIRED I/O: The detail fields on the record are required in a sense. The full set of field values in the record need to be sent in Add and Change mode. It is like a full record update and not a field by field update.

There are edits in the interface against order quantity and selling unit to validate the data sent.

# ION API Technical Documentation

## API Call: *sxapilCDeallocxrefsroprod*

**Purpose:** SRO Order line product deallocation release back to service order warehouse and transfer to truck warehouse for ISM Quick Service Order Pickup utility

### Parameters:

| REST Params        | Direction      | Description  |
|--------------------|----------------|--|
| companyNumber      | Input/required | Company #  |
| operatorInit       | Input/required | SASO operator for the company specified                        |
| operatorPassword   | Input/optional | SASO operator password (only required if business rule is set) |
| serviceOrderNumber | input          | SRO service # to oeeh.serviceorderno                           |
| serviceLineKey     | input          | Oeel service line id   |
| fromWarehouse      | input          | From whse  |
| toWarehouse        | input          | To whse  |
| productCode        | input          | Product  |
| serialLotType      | input          | S=serial, L=lot  |
| referenceNote      | input          |  |
| t-infieldvalue     | input          | Array for additional input                                     |
| t-lotdata          | input          | Array for lots   |
| t-serialdata       | input          | Array for serial numbers                                       |
| returnData         | output         | Return message   |
| cErrorMessage      | output         | Error message  |
| t-outfieldvalue    | Output         | Array for additional output                                    |

### Notes:

Arrays:

| t-iclot / t-icserial |         |                                    |
|----------------------|---------|------------------------------------|
| Field Name           | Type    | Comment                            |
| whse                 | char    | v-whse                             |
| prod                 | char    | v-prod                             |
| type                 | char    | v-type                             |
| orderno              | int     | v-ordno                            |
| ordersuf             | int     | v-ordsuf                           |
| lineno               | int     | v-lineno                           |
| seqno                | int     | v-seqno                            |
| actionty             | char    | serial only                        |
| inquiryfl            | logical |                                    |
| returnfl             | logical | v-returnfl                         |
| origqty              | decimal | v-origqty                          |
| proofqty             | decimal | v-proofqty                         |
| ordqty               | decimal | v-ordqty                           |
| cost                 | decimal | v-cost                             |
| ictype               | char    | v-ictype                           |
| outqty               | decimal | v-outqty                           |
| qtyunavail           | decimal | v-qtyunavail                       |
| iclotrcptty          | char    | v-iclotrcptty                      |
| seecostfl            | logical | v-seecostfl                        |
| icsnpofl             | logical | v-icsnpofl /                       |
| method               | char    | v-method                           |
| s-qtyunavail         | dec     | s-qtyunavail                       |
| reasunavty           | char    | s-reasunavty                       |
| retorderno           | int     | s-retorderno oe variables          |
| retordersuf          | int     | s-retordersuf oe variables         |
| retlineno            | int     | s-retlineno oe variables           |
| retseqno             | int     | s-retseqno oe variables            |
| returnty             | char    | s-returnty oe variables            |
| custno               | dec     | g-custno Other OE Global variables |

# ION API Technical Documentation

|             |         |   |
|-------------|---------|---|
| shipto      | char    | g-shipto Other OE Global variables      |
| wono        | int     | s-wono                                  |
| wosuf       | int     | s-wosuf                                 |
| cono2       | int     | g-cono2 kp variables                    |
| shipfmwhse  | char    | g-shipfmwhse kp variables               |
| shiptowhse  | char    | g-shiptowhse kp variables               |
| jrnlno      | int     |   |
| ourproc     | char    | g-ourproc                               |
| actionty    | char    |   |
| vendno      | dec     | g-vendno Other Variables                |
| csunperstk  | dec     | v-csunperstk special costing variables  |
| specconv    | integer | v-specconv special costing variables    |
| prccostper  | char    | v-prccostper special costing variables  |
| speccostty  | char    | v-speccostty special costing variables  |
| icspecrecno | int     | v-icspecrecno special costing variables |

Collection fields for both t-infieldvalue and t-outfieldvalue:

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| level             | character   |
| lineno            | integer     |
| seqno             | integer     |
| fieldname         | character   |
| fieldvalue        | character   |



# ION API Technical Documentation

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**API Call:** *sxapiCECatalogBillMaterials***Purpose:** Retrieve Bill of Materials information**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)   |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)   |
| updateRecords        | Input/Required | Update Status Type (logical): this option controls whether the "recordsync.statustype" field should be updated or not (faster than deleting the records). For testing purposes, this may be set to "no", so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as "yes".   |
| t-billmat            | Output         | The "Bill of Materials" collection (see below)   |

**Notes:**

At this time, this collection will be empty.

The definition is as follows:

| <b>"Bill of Materials" collection param # 7</b> |           |
|---|-----------|
| Field Name                                      | Data Type |
| cono  | int       |
| prod  | character |
| billmaterialtype                                | character |
| extradata                                       | character |

# ION API Technical Documentation

**API Call:** *sxapiCECatalogCustItemNumber*

**Purpose:** Retrieve a list of customer part# information

**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)   |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)   |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the "recordsync.statustype" field should be updated or not (faster than deleting the records). For testing purposes, this may be set to "no", so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as "yes".   |
| t-custitemnum        | Output         | The "Customer Item Numbers" collection (see below)   |

**Notes:**

Customer Item Numbers collection (t-custitemnum):

| Field Name      | Data Type |
|-----------------|-----------|
| company         | integer   |
| customer        | character |
| customerproduct | character |
| product         | character |

# ION API Technical Documentation

## **API Call:** *sxapiCECatalogCustItemNumberV2*

**Purpose:** Retrieve a list of customer part# information. Output collection Customer Item Numbers contains additional fields.

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)   |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)   |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the "recordsync.statustype" field should be updated or not (faster than deleting the records). For testing purposes, this may be set to "no", so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as "yes".   |
| t-custitemnumV2      | Output         | The "Customer Item Numbers" collection (see below)   |

### **Notes:**

Customer Item Numbers collection (t-custitemnumV2):

| <b>"Customer Item Numbers" collection</b> |           |
|---|-----------|
| Field Name                                | Data Type |
| company                                   | integer   |
| customer                                  | character |
| custprod                                  | character |
| product                                   | character |
| orderqty                                  | decimal   |
| unitsell                                  | character |

# ION API Technical Documentation

## **API Call:** *sxapiCECatalogItemBalance*

**Purpose:** Retrieve “Item Balance” product information

### **Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| updateDate           | Input          | Last Update Date (not used at this time)  |
| updateTime           | Input          | Last Update Time (not used at this time)  |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the recordsync.statustype field should be updated or not. For testing purposes, this may be set to “no”, so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as “yes”.  |
| t-itembalance        | Output         | The “Item Balance” collection (see below)   |

### **Notes:**

Item Balance collection (t-itembalance):

| “Item Balance” collection – param # 7 |            |  |
|---------------------------------------|------------|--|
| Field Name                            | Data Type  | Data Source  |
| cono                                  | int        |  |
| itemnumber                            | char x(24) | lcswh.prod   |
| whseid                                | char (x4)  | lcswh.whse   |
| listprice1                            | decimal    |  |
| listprice2                            | decimal    |  |
| listprice3                            | decimal    |  |
| l1listprice4                          | decimal    |  |
| l1listprice5                          | decimal    |  |
| suspendfl                             | char       | Set based on the lcswh.statustype:<br>Statustype = “o”, or “s” – then set as “n”<br>Otherwise – set as “y” |
| qtyonhand                             | decimal    |  |

# ION API Technical Documentation

**API Call:** sxapiCECatalogItemBalDelt

**Purpose:**

Retrieve Item Balance products that have been deleted

**Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)  |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)  |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the recordsync.statustype field should be updated or not. For testing purposes, this may be set to "no", so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as "yes".  |
| t-itembaldel         | Output         | The "Item Balance Delete" collection (see below)  |

**Notes:**

Item Balance Delete collection (t-itembaldel):

| Field Name | Data Type |
|------------|-----------|
| cono       | int       |
| product    | character |
| whse       | character |
| extradata  | character |

# ION API Technical Documentation

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**API Call:** *sxapiCECatalogItemComments*

**Purpose:** Retrieve Extended Item Comments information

**Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)  |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)  |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the recordsync.statustype field should be updated or not. For testing purposes, this may be set to “no”, so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as “yes”.  |
| t-extitemcom         | Output         | The “Extended Item Comments” collection (see below)   |

**Notes:**

At this time, this collection will be empty.

Extended Item Comments collection (t-extitemcom):

| Field Name  | Data Type |
|-------------|-----------|
| cono        | int       |
| prod        | character |
| seqno       | integer   |
| commenttext | character |
| extradata   | character |

# ION API Technical Documentation

**API Call:** *sxapiCECatalogItemMastDelt***Purpose:** Retrieve Item Master products that have been deleted**Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)  |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)  |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the recordsync.statustype field should be updated or not. For testing purposes, this may be set to "no", so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as "yes".  |
| t-itemmstdel         | Output         | The "Item Master Delete" collection (see below)   |

**Notes:**

Item Master Delete collection (t-itemmstdel):

| Field Name | Data Type |
|------------|-----------|
| cono       | int       |
| prod       | character |
| extradata  | character |

# ION API Technical Documentation

**API Call:** sxapiCECatalogItemMaster

**Purpose:** Retrieve “Item Master” product information

**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)   |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)   |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the “recordsync.statustype” field should be updated or not (faster than deleting the records). For testing purposes, this may be set to “no”, so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as “yes”.   |
| t-itemmaster         | Output         | The “Item Master” collection (see below)   |

**Notes:**

Since a record limit parameter exists, it’s possible for Commerce Connect to “batch” the data to be returned to Commerce Catalog. If Commerce Connect executes this SXAPI call multiple times, passing it a record limit (say 1000 records), then each execution of this call will return (and inactivate) a different set of records.

The primary source for Item Master (t-itemmaster) collection is ICSP or ICSC (If the AO option is set to extract Catalog records). However, some of the fields are stored in ICSW. The first ICSW that is read (for a given product) will be used to populate the some of the data elements in this flat file.

| “Item Master” collection – param # 7 |                         |  |
|--------------------------------------|-------------------------|--|
| Field Name                           | Data Type               | Data Source  |
| prod                                 | char x(24)              | lcsp.prod  |
| vendprod                             | char x(24)              | vendor part# (icsw.vendprod or icsc.vendprod)  |
| cono                                 | integer                 | lcsp.cono (for ICSP) / <zero> for ICSC   |
| vendno                               | decimal<br>999999999999 | icsw.arpvendno or icsc.vendno  |
| unitstock                            | char x(4)               | lcsp.unitstock or icsc.unitstock   |
| preventfl                            | char x                  | If the icsp.statustype = “I” (inactive), then set this field to “y”, else “n”.   |
| suspendfl                            | char x                  | <blank>  |
| unit1                                | char x(4)               | lcsp.unitstock or icsc.unitstock   |
| unit2                                | char x(4)               | lcsp.unitstock or blank  |
| unit3                                | char                    | <blank>  |
| unitconv2                            | decimal                 | # of stocking units from icsp.unitstock, since unit of measure 1 is the stocking unit for the product, which is always 1 unit. |
| unitconv3                            | decimal                 | <zero>   |
| unitprice                            | char                    | <blank>  |
| unitconv                             | decimal                 |  |
| listprice1                           | decimal                 | If priconty is list then icsw.listprice or icsc.listprice<br>if priconty is base then icsw.baseprice or icsc.baseprice         |
| listprice2                           | decimal                 | If priconty is list then icsw.baseprice or icsc.baseprice  |



# ION API Technical Documentation

|                |            |   |
|----------------|------------|---|
|                |            | if priconty is base then icsw.listprice or icsc.listprice   |
| listprice3     | decimal    |   |
| listprice4     | decimal    |   |
| listprice5     | decimal    |   |
| prodrestricted | char       | Y   |
| descrip1       | char x(24) | lcsp.descrip[1]   |
| descrip2       | char x(24) | lcsp.descrip[2]   |
| classcd        | char       | <blank>   |
| subclasscd     | char       | <blank>   |
| pricetype      | char       | lcswh.pricetype   |
| prodcats       | char       | lcsp.prodcats   |
| misc1          | char       | <blank>   |
| misc2          | char       | <blank>   |
| misc3          | char       | <blank>   |
| user1          | char       | <blank>   |
| user2          | char       | <blank>   |
| user3          | char       | <blank>   |
| user4          | char       | <blank>   |
| user5          | char       | <blank>   |
| user6          | char       | <blank>   |
| commentgrp     | char       | <blank>   |
| catalogfl      | logical    | If the record came from ICSC, set to "yes", otherwise "no". This may be used in the future to flag the Item Master records as non-stocks. |

# ION API Technical Documentation

**API Call:** *sxapiCECatalogItemReplacements*

**Purpose:** Retrieve Item Replacement information

**Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)  |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)  |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the recordsync.statustype field should be updated or not. For testing purposes, this may be set to "no", so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as "yes".  |
| t-itemreplace        | Output         | The "Item Replacement" collection (see below)   |

**Notes:**

Item Master Replacement collection (t-itemreplace):

| Field Name         | Data Type |
|--------------------|-----------|
| product            | character |
| replacementcode    | character |
| replacementproduct | character |
| cono               | int       |

Additional design work is needed to determine how this collection may be populated. CSD has product "Cross References" that are of different types. The Optional Products, Substitutes, and Supersede cross references are good candidates for this SXAPI call. This issue will be how to collect this data as quickly as possible.

The "replacementcode" is as follows: A – alternates (substitutions), C – compliments (optional products), and R – Replacements (super seeds).

At this point, the "recordsync" table has been designed with an index called "k-statustype". This can be used to locate the ICSP products that have already been extracted for today. For each one, the ICSEC records can be read for that part#.

# ION API Technical Documentation

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**API Call:** *sxapiICECatalogSKUChanges*

**Purpose:** Retrieve a list of part#'s that have changed

**Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| updateDate           | Input/NotUsed  | Last Update Date (not used at this time)  |
| updateTime           | Input/NotUsed  | Last Update Time (not used at this time)  |
| updateRecords        | Input/Required | Update Status Type (boolean): this option controls whether the recordsync.statustype field should be updated or not. For testing purposes, this may be set to "no", so the same set of records can be extracted multiple times. |
| recordLimit          | Input/Optional | Record Limit – An optional record limit field. If left blank (zero), then no record limit restrictions will be imposed.   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More Records Flag: If the input record limit was passed and there are more records that can be retrieved, then this output parameter will be sent back as "yes".  |
| t-skuchange          | Output         | The "SKU Change" collection (see below)   |

**Notes:**

Item Balance Delete collection (t-skuchange):

| Field Name  | Data Type |
|-------------|-----------|
| cono        | int       |
| origproduct | character |
| newproduct  | character |
| extradata   | character |

# ION API Technical Documentation

**API Call:** *sxapiCEditSerLotList*

**Purpose:** Edit a list of Serial/Lots

**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                                |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)         |
| t-list-ineditserlot  | Input          | t-list-ineditserlot  |
| t-infieldvalue       | Input          | t-infieldvalue   |
| t-list-outeditserlot | Output         | t-list-outeditserlot   |
| t-outfieldvalue      | Output         | t-outfieldvalue  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter. |

**Notes:** This is a generic call for editing. Module specific calls also exist which take in only the data needed for that module and creates the t-list-ineditserlot collection with the correct fields populated.

This will run one of the following API calls to perform the editing: OE-Lot-Edit, OE-Serial-List, PO-Lot-Edit, PO-Serial-List, WT-Lot-Edit, WT-Serial-List, IC-Lot-Edit or IC-Serial-List.

Serial/Lot List Input collection (t-list-ineditserlot)

| Field Name  | Data Type |   |
|-------------|-----------|---|
| recseqno    | integer   | required  |
| serlotty    | char      | required: S or L  |
| prod        | char      | required  |
| whse        | char      | required  |
| serlotno    | char      | required  |
| type        | char      | required: module PO,OE,WT,IC                                  |
| returnfl    | char      | required: yes or no   |
| ictype      | char      | required: For IC: PA,RE,RI,IN,UN, etc For PO,OE,WT: Transtype |
| camefrom    | char      | Used to identify 3rd party (SXAPI) Calls                      |
| orderno     | char      |   |
| ordersuf    | char      |   |
| lineno      | integer   |   |
| seqno       | integer   |   |
| retorderno  | char      | for OE  |
| retordersuf | char      | for OE  |
| retlineno   | integer   | for OE  |
| retseqno    | integer   | for OE  |
| currstatus  | char      | for IC  |
| reasunavty  | char      | for IC  |
| cono2       | char      | for WT  |
| ourproc     | char      | for WT  |
| shiptowhse  | char      | for WT  |
| lotqty      | dec       | for Lots  |
| qtyunavail  | dec       | for Lots  |
| qtyavail    | dec       | for Lots  |
| user1       | character |   |
| user2       | character |   |
| user3       | character |   |
| user4       | character |   |
| user5       | character |   |
| user6       | decimal   |   |
| user7       | decimal   |   |
| user8       | date      |   |
| user9       | date      |   |

# ION API Technical Documentation

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# ION API Technical Documentation

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Collection fields for both t-infieldvalue and t-outfieldvalue:

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| level             | character   |
| lineno            | integer     |
| seqno             | integer     |
| fieldname         | character   |
| fieldvalue        | character   |

Serial/Lot List Output collection (t-list-outeditserlot)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| serlotno          | char             |
| lineno            | integer          |
| prod              | character        |
| errmess           | character        |
| user1             | character        |
| user2             | character        |
| user3             | character        |
| user4             | character        |
| user5             | character        |
| user6             | decimal          |
| user7             | decimal          |
| user8             | Date             |
| user9             | date             |

# ION API Technical Documentation

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**API Call:** *sxapiICGetCatalogData*

**Purpose:** Retrieves various data elements for a given Catalog (ICSC) record.

**Parameters:**

| REST Params                | Direction      | Description  |
|----------------------------|----------------|--|
| companyNumber              | Input/required | Company #  |
| operatorInit               | Input/required | SASO operator for the company specified                                |
| operatorPassword           | Input/optional | SASO operator password (only required if business rule is set)         |
| catalog                    | Input/Required | The required Catalog Part#   |
| errorMessage               | Output         | Error message – Any error messages will be returned in this parameter. |
| basePrice                  | Output         | Base Price   |
| unitsPerStocking           | Output         | Units Per Stocking (csunperstk)  |
| cubes                      | Output         | Cubes  |
| description1               | Output         | Description 1  |
| description2               | Output         | Description 2  |
| height                     | Output         | Height   |
| specialCostRecordNumber    | Output         | IC Special Price Record #  |
| length                     | Output         | Length   |
| listPrice                  | Output         | List Price   |
| longDescription            | Output         | Long Description   |
| model                      | Output         | Model  |
| notesFlag                  | Output         | Notes Flag   |
| priceCostPer               | Output         | Price Cost Per (prccostper)  |
| priceType                  | Output         | Price Type   |
| priceTypeDescription       | Output         | Price Type Description   |
| productCategory            | Output         | Product Category   |
| productCategoryDescription | Output         | Product Category Description   |
| productCost                | Output         | Product Cost   |
| productLine                | Output         | Product Line   |
| specialCostType            | Output         | Special Cost Type (speccostty)   |
| standardCost               | Output         | Standard Cost  |
| unitStandard               | Output         | Unit of Measure – Standard   |
| unitStocking               | Output         | Unit of Measure – Stocking   |
| vendorNumber               | Output         | Vendor #   |
| weight                     | Output         | Weight   |
| width                      | Output         | Width  |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiICGetCatalogList*

**Purpose:** This call will return a list of Catalog Product's (ICSC records) based on several selection criteria.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| catalog          | Input/Optional | Catalog – An optional “beginning” catalog # can be entered. All catalog products that begin with these characters will be selected.   |
| productCategory  | Input/Optional | Product Category – An optional product category value can be passed. All catalog products that have this category (prodcats) will be selected.                              |
| vendorNumber     | Input/Optional | Vendor Number – An optional vendor number can be passed. All catalog products that have this vendor number (vendno) will be selected.                                       |
| productLine      | Input/Optional | Product Line – An optional product line can be passed. All catalog products that have this product line (prodline) will be selected.  |
| keyWord1         | Input/Optional | Keyword 1 – An optional keyword value   |
| keyWord2         | Input/Optional | Keyword 2 – An optional keyword value   |
| keyWord3         | Input/Optional | Keyword 3 – An optional keyword value   |
| keyWord4         | Input/Optional | Keyword 4 – An optional keyword value   |
| keyWord5         | Input/Optional | Keyword 5 – An optional keyword value   |
| recordLimit      | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of catalog products selected. If this field is zero, no record count limiting will occur. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsFlag  | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-catalog        | Output         | Product (t-catalog) Collection – see notes below for description.   |

### **Notes:**

If no selection criteria is passed (parameters 1 through 9), then no collection records will be returned in parameter 13. This is because the ICSC record is not company specific, so there would be no criteria to choose records from.

The output for this API call is a collection known as “t-catalog”. This collection will contain 1 record for each catalog product selected. The following is a list of those fields that will be populated for this API call:

| <b>Product (t-catalog) Collection</b> |   |
|---------------------------------------|---|
| Field                                 | Contents  |
| catalog                               | The catalog product # (icsc.catalog)            |
| prodcats                              | The catalog product category (icsc.prodcats)    |
| vendno                                | The catalog vendor number (icsc.vendno)         |
| prodline                              | The catalog product line (icsc.prodline)        |
| serlotype                             | The catalog serial or lot type (icsc.serlotype) |
| descrip1                              | The first description line (icsc.descrip[1])    |
| descrip2                              | The second description line (icsc.descrip[2])   |



# ION API Technical Documentation

## **API Call:** *sxapiICGetCatalogListV2*

**Purpose:** This call will return a list of Catalog Product's (ICSC records) based on several selection criteria.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| catalog          | Input/Optional | Catalog – An optional “beginning” catalog # can be entered. All catalog products that begin with these characters will be selected.   |
| productCategory  | Input/Optional | Product Category – An optional product category value can be passed. All catalog products that have this category (prodcats) will be selected.                              |
| vendorNumber     | Input/Optional | Vendor Number – An optional vendor number can be passed. All catalog products that have this vendor number (vendno) will be selected.                                       |
| productLine      | Input/Optional | Product Line – An optional product line can be passed. All catalog products that have this product line (prodline) will be selected.  |
| keyWord1         | Input/Optional | Keyword 1 – An optional keyword value   |
| keyWord2         | Input/Optional | Keyword 2 – An optional keyword value   |
| keyWord3         | Input/Optional | Keyword 3 – An optional keyword value   |
| keyWord4         | Input/Optional | Keyword 4 – An optional keyword value   |
| keyWord5         | Input/Optional | Keyword 5 – An optional keyword value   |
| recordLimit      | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of catalog products selected. If this field is zero, no record count limiting will occur. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsFlag  | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-catalogV2      | Output         | Product (t-catalogV2) Collection – see notes below for description.   |

### **Notes:**

If no selection criteria is passed (parameters 1 through 9), then no collection records will be returned in parameter 13. This is because the ICSC record is not company specific, so there would be no criteria to choose records from.

The output for this API call is a collection known as “t-catalogV2”. This collection will contain 1 record for each catalog product selected. The following is a list of those fields that will be populated for this API call:

| Product (t-catalogV2) Collection |  |
|----------------------------------|--|
| Field                            | Contents   |
| catalog                          | The catalog product # (icsc.catalog)                                       |
| prodcats                         | The catalog product category (icsc.prodcats)                               |
| vendno                           | The catalog vendor number (icsc.vendno)                                    |
| prodline                         | The catalog product line (icsc.prodline)                                   |
| serlottype                       | The catalog serial or lot type (icsc.serlottype)                           |
| descrip1                         | The first description line (icsc.descrip[1])                               |
| descrip2                         | The second description line (icsc.descrip[2])                              |
| listprice                        | The catalog list price (icsc.listprice)                                    |
| baseprice                        | The catalog base price   |
| priceonty                        | The price to use (“I” for listprice, otherwise baseprice) (icsc.priceonty) |
| glcost                           |  |
| pdcost                           | The cost based on sasc for PD cost (icsc.prodcost or icsc.stndcost)        |
| pocost                           | The cost based on sasc for PO cost (icsc.prodcost or icsc.stndcost)        |
| smcost                           | The cost based on sasc for SM cost (icsc.prodcost or icsc.stndcost)        |

# ION API Technical Documentation

## **API Call:** *sxapiCGetLotList*

**Purpose:** Retrieve Lot Records for Inquiries and Inventory Movements.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| type             | Input/Optional | Type   |
| warehouse        | Input          | Whse   |
| productCode      | Input          | Product  |
| orderNumber      | Input/Optional | Order Number   |
| orderSuffix      | Input/Optional | Order Suffix   |
| lineNumber       | Input/Optional | Line No  |
| sequenceNumber   | Input/Optional | Sequence No  |
| t-infieldvalue   | Input          | t-infieldvalue   |
| t-lotdata        | Output         | t-lotdata  |
| t-outfieldvalue  | Output         | Table t-outfieldvalue  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |

### **Notes:**

Type is the lot type, blank means all. A comma delimited list can be sent to retrieve more than one type. The types are <A>ctive, <I>nactive and <H>old.

When Order Information is included, it will look for serial/lots reserved against that order. Order information is never passed from Storeroom.

The existing API call Create-ICLot-TT does not return the data needed for this call and was not used. Instead, it reads the ICSEL records directly.

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

The "t-lotdata" collection contains the following fields:

| Field Name | Data Type |
|------------|-----------|
| lotno      | character |
| statustype | character |
| comment    | character |
| binloc1    | character |
| binloc2    | character |
| selectfl   | logical   |
| quantity   | decimal   |
| qtyunvail  | decimal   |
| opendt     | date      |
| expired    | date      |
| reasunavty | character |
| user1      | character |
| user2      | character |
| user3      | character |
| user4      | character |

# ION API Technical Documentation

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|       |           |
|-------|-----------|
| user5 | character |
| user6 | decimal   |
| user7 | decimal   |
| user8 | date      |
| User9 | date      |
|       |           |

The reasunavty is not used. There is no reason unavailable on the lot record. The unavailable quantity may be broken up between multiple reasons and that information is found in ICSOU, the unavailable detail.

# ION API Technical Documentation

**API Call:** *sxapiICGetNonStockInventoryList***Purpose:** Retrieve Non Stock Inventory (ICEAN) products**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| typeCode             | Input/Optional | The Optional Type Code. This should be "N" for Non-Stock records, "D" for Direct Records, "B" for Both (if left blank, it defaults to Both).                       |
| productCode          | Input/Optional | The optional starting Product (begins)   |
| whse                 | Input/Optional | The optional whse  |
| productCategory      | Input/Optional | The optional product category  |
| activeCode           | Input/Optional | The Active Code. This should be "A" for active only, or "B" for both active and inactive (if left blank, it defaults to active only).                              |
| recordLimit          | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of records selected. If this field is zero, no record count limiting will occur. |
| t-icnonstockinv      | Output         | The "t-icnonstockinv" collection.  |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |

**Notes:**

The "t-icnonstockinv" collection contains the following fields:

| Field Name | Data Type |
|------------|-----------|
| cono       | integer   |
| typecd     | character |
| whse       | character |
| prod       | character |
| prodcatt   | character |
| activefl   | logical   |
| descrip1   | character |
| descrip2   | character |
| quantity   | decimal   |

# ION API Technical Documentation

## **API Call:** *sxapiICGetOptionalProductList*

**Purpose:** This call returns a list of the optional products (ICSEC records) for a given part #.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| product          | Input/Required | The required Product   |
| whse             | Input/Required | The required Whse  |
| transactionType  | Input/Optional | Optional transaction type  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| t-optnprod       | Output         | The t-optnprod collection.   |

**Notes:**

Fields:

| t-optnprod collection – param #5 |           |   |
|----------------------------------|-----------|---|
| Field Name                       | Type      | Purpose                                 |
| seqno                            | integer   | A sequence # for display purposes       |
| prod                             | character | The optional product itself             |
| notesfl                          | character | The notes flag for the optional product |
| proddesc                         | character | Description 1                           |
| proddesc2                        | character | Description 2                           |
| qtyship                          | decimal   | Not used *                              |
| unit                             | character | Not used *                              |
| chrg                             | character | Not used *                              |
| qtyavail                         | decimal   | Quantity available                      |
| qtyavaild                        | decimal   | Quantity available (display purposes)   |
| conv                             | decimal   | Not used *                              |
| price                            | decimal   | Price for this optional product         |
| priceoverfl                      | logical   | Not used *                              |
| discoverfl                       | logical   | Not used *                              |
| discamt                          | decimal   | Discount amount                         |
| disctype                         | logical   | Discount Type (\$ / %)                  |
| addswoptprodfl                   | logical   | Not used                                |
| prodcat                          | character | Product Category                        |

\* - This collection was defined for the CSD GUI system to present the user with a list of optional product that they could then place an order for. They would indicate the quantity shipped that they wanted

# ION API Technical Documentation

## **API Call:** *sxapiICGetProdCrossReferenceList*

**Purpose:** Retrieve a list of product cross reference records (ICSEC) for a given product (ICSP)

### **Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| recordTypes          | Input/Optional | An optional list of comma-separated cross reference types. If left blank, it will default in the list of "b,c,i,o,p,s,u,v". The list of values should be any combination of "b,c,i,o,p,s,u,v".<br>B= Bar Code, C= Customer's product, I= Interchanges, O= Options, P= Supercedes, S= Substitutes, U= Upgrades, V= Alternate Vendor Number |
| productCode          | Input/Required | The required product. Must be defined in ICSP.  |
| warehouse            | Input/Optional | The optional whse field.  |
| customerNumber       | Input/Optional | The optional customer # field. Used to locate customer part# cross references.  |
| vendorNumber         | Input/Optional | The optional vendor # field. Used to locate vendor part#'s.   |
| recordLimit          | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of records selected. If this field is zero, no record count limiting will occur.  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-prodxreflst        | Output         | The output "t-prodxreflst" collection.  |

### **Notes:**

The output t-prodxreflst collection is defined as follows:

| Field Name    | Data Type   |
|---------------|---|
| rectype       | character   |
| rectypedesc   | character   |
| prod          | character   |
| descrip1      | character   |
| descrip2      | character   |
| xrefprod      | character   |
| xrefdescrip1  | character   |
| xrefdescrip2  | character   |
| netavail      | decimal   |
| foundinwhsefl | logical (is there an icsw record for passed whse) |
| seqno         | integer   |

# ION API Technical Documentation

## **API Call:** *sxapiICGetProdCrossReferenceListV2*

**Purpose:** Retrieve a list of product cross reference records (ICSEC) for a given product (ICSP) Version 2

### **Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| recordTypes          | Input/Optional | An optional list of comma-separated cross reference types. If left blank, it will default in the list of "b,c,l,o,p,s,u,v". The list of values should be any combination of "b,c,l,o,p,s,u,v"<br>B= Bar Code, C= Customer's product, I= Interchanges, O= Options, P= Supercedes, S= Substitutes, U= Upgrades, V= Alternate Vendor Number. |
| productCode          | Input/Required | The required product. Must be defined in ICSP.  |
| warehouse            | Input/Optional | The optional whse field.  |
| customerNumber       | Input/Optional | The optional customer # field. Used to locate customer part# cross references.  |
| vendorNumber         | Input/Optional | The optional shipto field. Used to locate customer/shipto specific part# cross references.  |
| recordLimit          | Input/Optional | The optional vendor # field. Used to locate vendor part#'s.   |
| errorMessage         | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of records selected. If this field is zero, no record count limiting will occur.  |
| moreRecordsAvailable | Output         | Error message – Any error messages will be returned in this parameter.  |
| recordTypes          | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-prodxreflst        | Output         | The output "t-prodxreflst" collection.  |

### **Notes:**

The output t-prodxreflst collection is defined as follows:

### **Field Name                      Data Type**

|               |   |
|---------------|---|
| rectype       | character   |
| rectypedesc   | character   |
| prod          | character   |
| descrip1      | character   |
| descrip2      | character   |
| xrefprod      | character   |
| xrefdescrip1  | character   |
| xrefdescrip2  | character   |
| netavail      | decimal   |
| foundinwhsefl | logical (is there an icsw record for passed whse) |
| seqno         | integer   |

# ION API Technical Documentation

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**API Call:** *sxapiICGetProdPriceTypeList*

**Purpose:** This call returns a list of Product Price Types Types (defined in the SASTA table with codeiden = "k").

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the unit of measure value, otherwise it sorts on the description. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                                 |
| t-codeLst        | Output         | The t-codeLst collection.  |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| codevalue  | character (product price type)      |
| codedesc   | character (description)             |
| extradata  | character                           |
| sortfld    | character (sort key for collection) |



# ION API Technical Documentation

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**API Call:** *sxapiICGetProductAvailableDate*

**Purpose:** This call returns a list of dates by whse when a designated product will be available

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| productCode      | Input/Required | Product   |
| warehouse        | Input/Required | Comma-delimited list of whse values to look at  |
| backorderFlag    | Input/Optional | Back Order flag – yes=select backorders only  |
| documentTypes    | Input/Required | DocType = a comma delimited list of the type of orders to look at.<br>The full list is "OE,PO,KP,VA,WT"                     |
| endingDate       | Input/Optional | EndDt – The search will ignore documents beyond this date.<br>OE=promisedt, PO=duedt, WT=duedt, VA=promisedt,<br>KP=enterdt |
| quantityOrdered  | Input/Optional | QtyOrder  |
| t-prodavaildate  | Output         | The t-prodavaildate collection.   |
| errorMessage     | Output         | Return error message  |

**Notes:**

Collection fields:

| Field Name      | Type |   |
|-----------------|------|---|
| cWhse           | char | Whse  |
| dtNextAvailDate | date | Next date when this product is available for the whse |

# ION API Technical Documentation

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**API Call:** *sxapiICGetProductCategoryList*

**Purpose:** This call returns a list of Product Categories Types (defined in the SASTA table with codeiden = "c").

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                              |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the code value, otherwise it sorts on the description. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                      |
| t-codelst        | Output         | The t-codelst collection.   |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| codevalue  | character                           |
| codedesc   | character                           |
| extradata  | character                           |
| sortfld    | character (sort key for collection) |

# ION API Technical Documentation

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**API Call:** *sxapiICGetProductCrossReference*

**Purpose:**

This call takes an input Product (part #) and determines if there is a product cross reference for it.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product (part #)  |
| whse                  | Input/Required | The required Whse  |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage          | Output         | Error message  |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | output         | Cross Reference Type   |

**Notes:**

# ION API Technical Documentation

**API Call:** *sxapiICGetProductCrossReferenceV2*

**Purpose:**

This call takes an input Product (part #) and determines if there is a product cross reference for it Version 2

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)   |
| productCode           | Input/Required | The required Product (part #)  |
| warehouse             | Input/Required | The required Whse  |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).               |
| shipTo                | Input/Optional | Ship To (optional – used for cross reference logic to locate a specific “Customer/Ship To Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                                     |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | output         | Cross Reference Type   |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiCGetProductDataGeneral*

**Purpose:** This call returns “General” product information from the ICSP record.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product   |
| useCrossReferenceFlag | Input/Required | A flag indicating if the Product Cross Reference logic should be performed or not.           |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| cubes                 | Output         | Cubes  |
| description1          | Output         | Description 1  |
| description2          | Output         | Description 2  |
| height                | Output         | Height   |
| kitType               | Output         | Kit Type   |
| length                | Output         | Length   |
| lookupName            | Output         | Lookup Name  |
| notesFlag             | Output         | Notes Flag   |
| productCategory       | Output         | Product Category   |
| productCategoryDesc   | Output         | Product Category Description   |
| statusType            | Output         | Status Type  |
| unitCount             | Output         | Unit Count   |
| unitSell              | Output         | Unit Sell  |
| unitStock             | Output         | Unit Stock   |
| weight                | Output         | Weight   |
| width                 | Output         | Width  |
| foundInCatalog        | Output         | Catalog Flag (was the product found in ICSC)   |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiICGetProductDataGeneralV2*

**Purpose:** This call returns “General” product information from the ICSP record – version2

### **Parameters:**

| REST Params               | Direction      | Description  |
|---------------------------|----------------|--|
| companyNumber             | Input/required | Company #  |
| operatorInit              | Input/required | SASO operator for the company specified  |
| operatorPassword          | Input/optional | SASO operator password (only required if business rule is set)                               |
| product                   | Input/Required | The required Product   |
| useCrossReferenceFlag     | Input/Required | A flag indicating if the Product Cross Reference logic should be performed or not.           |
| customerNumber            | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage              | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct     | Output         | Cross Reference Product  |
| crossReferenceType        | Output         | Cross Reference Type   |
| cubes                     | Output         | Cubes  |
| description1              | Output         | Description 1  |
| description2              | Output         | Description 2  |
| height                    | Output         | Height   |
| kitType                   | Output         | Kit Type   |
| length                    | Output         | Length   |
| lookupName                | Output         | Lookup Name  |
| notesFlag                 | Output         | Notes Flag   |
| productCategory           | Output         | Product Category   |
| productCategoryDesc       | Output         | Product Category Description   |
| statusType                | Output         | Status Type  |
| unitCount                 | Output         | Unit Count   |
| unitSell                  | Output         | Unit Sell  |
| unitStock                 | Output         | Unit Stock   |
| weight                    | Output         | Weight   |
| width                     | Output         | Width  |
| foundInCatalog            | Output         | Catalog Flag (was the product found in ICSC)   |
| buildOnDemandTransferType | Output         | BOD Transfer type  |
| coreCharge                | Output         | Core Charge  |
| customerCoreGraceFlag     | Output         | Customer Core Grace Flag   |
| customerCoreGracePeriod   | Output         | Customer Core Grace Period   |
| dirtyCoreProduct          | Output         | Dirty Core Product   |
| enteredDate               | Output         | Entered Date   |
| exponentsOnInvoiceFlag    | Output         | Exponents On Invoices Flag   |
| specialCostRecordNumber   | Output         | IC Spec Rec Number (icsspecrecno)  |
| unitsPerStocking          | Output         | Units Per Stocking (csunperstk)  |
| priceCostPer              | Output         | Price Cost Per (prccostper)  |
| specialConversionType     | Output         | Special Cost Type (speccostty)   |
| specialConversionFactor   | Output         | Special Conversion (speconv)   |
| impliedCoreProduct        | Output         | Implied Core Product   |
| kitNonStockRequiredFlag   | Output         | Kits Non Stock Flag  |
| kitRollType               | Output         | Kit Roll Type  |
| memoMixFlag               | Output         | Memo Mix Flag  |
| msdsChangeDate            | Output         | MSDS change Date   |
| msdsFlag                  | Output         | MSDS Flag  |
| msdsSheetNumber           | Output         | MSDS Sheet Number  |
| randomMixFlag             | Output         | Randon Mix Flag  |
| sellingMultiplier         | Output         | Selling Multiplier   |

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|                    |        |                      |
|--------------------|--------|----------------------|
| tiedComponentPrint | Output | Tied Component Print |
| warrantyLength     | Output | Warranty Length      |
| warrantyType       | Output | Warranty Type        |
| webPage            | Output | Web Page             |
| webPageExternal    | Output | Web Page External    |
| lastUpdate         | Output | Last Update          |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiCGetProductDataGeneralV3*

**Purpose:** This call returns “General” product information from the ICSP record – version3

### **Parameters:**

| REST Params               | Direction      | Description   |
|---------------------------|----------------|---|
| companyNumber             | Input/required | Company #   |
| operatorInit              | Input/required | SASO operator for the company specified   |
| operatorPassword          | Input/optional | SASO operator password (only required if business rule is set)  |
| product                   | Input/Required | The required Product  |
| useCrossReferenceFlag     | Input/Required | A flag indicating if the Product Cross Reference logic should be performed or not.                        |
| customerNumber            | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).              |
| shipTo                    | Input/Optional | Ship To (optional – used for cross reference logic to locate a specific “Customer/ShipTo Part#” product). |
| errorMessage              | Output         | Error message – Any error messages will be returned in this parameter.                                    |
| crossReferenceProduct     | Output         | Cross Reference Product   |
| crossReferenceType        | Output         | Cross Reference Type  |
| cubes                     | Output         | Cubes   |
| description1              | Output         | Description 1   |
| description2              | Output         | Description 2   |
| height                    | Output         | Height  |
| kitType                   | Output         | Kit Type  |
| length                    | Output         | Length  |
| lookupName                | Output         | Lookup Name   |
| notesFlag                 | Output         | Notes Flag  |
| productCategory           | Output         | Product Category  |
| productCategoryDesc       | Output         | Product Category Description  |
| statusType                | Output         | Status Type   |
| unitCount                 | Output         | Unit Count  |
| unitSell                  | Output         | Unit Sell   |
| unitStock                 | Output         | Unit Stock  |
| weight                    | Output         | Weight  |
| width                     | Output         | Width   |
| foundInCatalog            | Output         | Catalog Flag (was the product found in ICSC)  |
| buildOnDemandTransferType | Output         | BOD Transfer type   |
| coreCharge                | Output         | Core Charge   |
| customerCoreGraceFlag     | Output         | Customer Core Grace Flag  |
| customerCoreGracePeriod   | Output         | Customer Core Grace Period  |
| dirtyCoreProduct          | Output         | Dirty Core Product  |
| enteredDate               | Output         | Entered Date  |
| exponentsOnInvoiceFlag    | Output         | Exponents On Invoices Flag  |
| specialCostRecordNumber   | Output         | IC Spec Rec Number (icsspecrecno)   |
| unitsPerStocking          | Output         | Units Per Stocking (csunperstk)   |
| priceCostPer              | Output         | Price Cost Per (prccostper)   |
| specialConversionType     | Output         | Special Cost Type (speccostty)  |
| specialConversionFactor   | Output         | Special Conversion (specconv)   |
| impliedCoreProduct        | Output         | Implied Core Product  |
| kitNonStockRequiredFlag   | Output         | Kits Non Stock Flag   |
| kitRollType               | Output         | Kit Roll Type   |
| memoMixFlag               | Output         | Memo Mix Flag   |
| msdsChangeDate            | Output         | MSDS change Date  |
| msdsFlag                  | Output         | MSDS Flag   |
| msdsSheetNumber           | Output         | MSDS Sheet Number   |



# ION API Technical Documentation

|                    |        |                      |
|--------------------|--------|----------------------|
| randomMixFlag      | Output | Randon Mix Flag      |
| sellingMultiplier  | Output | Selling Multiplier   |
| tiedComponentPrint | Output | Tied Component Print |
| warrantyLength     | Output | Warranty Length      |
| warrantyType       | Output | Warranty Type        |
| webPage            | Output | Web Page             |
| webPageExternal    | Output | Web Page External    |
| lastUpdate         | Output | Last Update          |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiICGetProductFutureAvailabilityList*

**Purpose:** This call returns a list of future availability of a product based on open OE orders, Pos, WTs, Vas, and KPs.

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| productCode          | Input/Required | Product  |
| warehouse            | Input/Required | Whse   |
| backorderFlag        | Input/Required | Back Order boolean – yes=select backorders only  |
| documentTypes        | Input/Required | DocType = a comma delimited list of the type of orders to look at. The full list is "OE,PO,KP,VA,WT"                     |
| endingDate           | Input/Optional | EndDt – The search will ignore documents beyond this date. OE=promisedt, PO=duedt, WT=duedt, VA=promisedt, KP=enterdt    |
| recordLimit          | Input/Optional | Record count limit   |
| errorMessage         | Output         | Error messages   |
| t-prodfutureavail    | Output         | The collection. List of orders that affect future availability   |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit. |

### **Notes:**

Collection fields:

| Field Name     | Type      |  |
|----------------|-----------|--|
| cModule        | character | OE,PO,KP,VA,WT   |
| cName          | character | name of customer(OE),vendor(PO), whse(WT)                  |
| cTransType     | character | transtype of the document                                  |
| dQtyBal        | decimal   |  |
| dQtyOrd        | decimal   |  |
| dtDue          | date      | OE=promisedt, PO=duedt, WT=duedt, VA=promisedt, KP=enterdt |
| iOrderNo       | integer   | orderno based on the module                                |
| iOrderSuf      | integer   | ordersuf based on the module                               |
| iSortOrder     | integer   | 1=WT/IN,2=PO,3=WT/OT,4=OE,5=PO,6=VA                        |
| lAssign        | logical   | True indicates a tied order                                |
| User1-User9    |           | Custom user specific fields 1 through 9                    |
| cOrderNotes    | character |  |
| cCustVendNotes | character |  |
| dVendNo        | decimal   |  |
| dCustNo        | decimal   |  |

# ION API Technical Documentation

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**API Call:** *sxapiICGetProductLineList*

**Purpose:** This call returns a list of Product Line (ICSL) records.

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| vendorNumber     | Input/Optional | Vendor # (optional selection field)   |
| whse             | Input/Optional | Whse (optional selection field)   |
| productLine      | Input/Optional | Product Line (optional selection field)   |
| buyer            | Input/Optional | Buyer (optional selection field)  |
| recordLimit      | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of catalog products selected. If this field is zero, no record count limiting will occur. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsFlag  | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-prodline       | Output         | The t-prodline collection. There will be 1 record for each Product Line (ICSL) record selected.   |

**Notes:**

Collection fields:

| Field Name | Type                           |
|------------|--------------------------------|
| vendno     | decimal                        |
| whse       | character                      |
| prodline   | character                      |
| buyer      | character                      |
| descrip    | character                      |
| lookupnm   | character (vendor lookup name) |

# ION API Technical Documentation

## **API Call:** *sxapiCGetProductList*

**Purpose:** This call will return a list of Product's (ICSP records) based on several selection criteria.

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| productCode             | Input/Optional | Product – An optional "beginning" product # can be entered. All products that begin with these characters will be selected.  |
| productCategory         | Input/Optional | Product Category – An optional product category value can be passed. All products that have this category (prodcats) will be selected.   |
| kitType                 | Input/Optional | Kit Type – Selection field that controls how Kit products are selected:<br><blank> - All products regardless of kit type<br>"e" – Exclude all kit type products<br>"p" – Only prebuilt kits<br>"b" – Only Build on Demand kits<br>"m" – Tally products |
| keyWord1                | Input/Optional | Keyword 1 – An optional keyword value  |
| keyWord2                | Input/Optional | Keyword 2 – An optional keyword value  |
| keyWord3                | Input/Optional | Keyword 3 – An optional keyword value  |
| keyWord4                | Input/Optional | Keyword 4 – An optional keyword value  |
| keyWord5                | Input/Optional | Keyword 5 – An optional keyword value  |
| includeInactiveProducts | Input/Optional | Inactive Flag – A logical field that controls whether inactive products should be selected or not.   |
| recordLimit             | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur.  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable    | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| t-prod                  | Output         | Product (t-prod) Collection – see notes below for description.   |

### **Notes:**

The output for this API call is a collection known as "t-prod". This collection will contain 1 record for each product selected. The following is a list of those fields that will be populated for this API call:

| Field    | Contents                                      |
|----------|---|
| prod     | the product # (icsp.prod)                     |
| descrip1 | the first description line (icsp.descrip[1])  |
| descrip2 | the second description line (icsp.descrip[2]) |
| prodcats | the product category                          |

# ION API Technical Documentation

## **API Call:** *sxapiICGetProductListV2*

### **Purpose:**

This call will return a list of Product's (ICSP records) based on several selection criteria – Version 2.

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| productCode             | Input/Optional | Product – An optional “beginning” product # can be entered. All products that begin with these characters will be selected.  |
| productCategory         | Input/Optional | Product Category – An optional product category value can be passed. All products that have this category (prodcats) will be selected.   |
| kitType                 | Input/Optional | Kit Type – Selection field that controls how Kit products are selected:<br><blank> - All products regardless of kit type<br>“e” – Exclude all kit type products<br>“p” – Only prebuilt kits<br>“b” – Only Build on Demand kits<br>“m” – Tally products |
| keyWord1                | Input/Optional | Keyword 1 – An optional keyword value  |
| keyWord2                | Input/Optional | Keyword 2 – An optional keyword value  |
| keyWord3                | Input/Optional | Keyword 3 – An optional keyword value  |
| keyWord4                | Input/Optional | Keyword 4 – An optional keyword value  |
| keyWord5                | Input/Optional | Keyword 5 – An optional keyword value  |
| includeInactiveProducts | Input/Optional | Inactive Flag – A logical field that controls whether inactive products should be selected or not.   |
| recordLimit             | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur.  |
| statusType              | Input          | Status type – the status of the products   |
| regrindOnlyFlag         | Input          | Regrind Only Flag – Is this for regrinds only?   |
| regrindWarehouse        | Input          | Regrind Whse – What warehouse to use for regrinds  |
| customParam             | Input          | Custom Param – Custom parameter  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable    | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| t-prodv2                | Output         | Product (t-prodv2) Collection – see notes below for description.   |

### **Notes:**

The output for this API call is a collection known as “t-prod”. This collection will contain 1 record for each product selected. The following is a list of those fields that will be populated for this API call:

| Field       | Contents                                      |
|-------------|---|
| Prod        | The product # (icsp.prod)                     |
| Descrip1    | The first description line (icsp.descrip[1])  |
| Descrip2    | The second description line (icsp.descrip[2]) |
| Prodcats    | The product category                          |
| StatusType  | The product status type                       |
| UnitStock   | The product stocking UOM                      |
| User1-User9 | Custom user fields (does not come from ICSP)  |

# ION API Technical Documentation

## **API Call:** *sxapiICGetProductNotesList*

**Purpose:** This call returns a list of notes records for a given product

### **Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)  |
| prod                  | Input/Required | The required Product  |
| crossReferenceFlag    | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.   |
| whse                  | Input/Optional | The optional Whse used during the cross reference logic.  |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).  |
| requiredNotesOnly     | Input/Optional | “Required Notes only” flag.   |
| lineFeedFlag          | Input/Optional | Line Feed flag – If this flag is turned on, then the notes text array will be strung together with a carriage return / line feed character between each array extent. |
| recordLimit           | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur.   |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.  |
| crossReferenceProduct | Output         | Cross Reference Product   |
| crossReferenceType    | Output         | Cross Reference Type  |
| moreRecordsFlag       | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-notes               | Output         | The t-notes collection.   |

### **Notes:**

Collection fields:

| Field Name   | Type                           |
|--------------|--------------------------------|
| notestype    | character                      |
| primarykey   | character                      |
| secondarykey | character                      |
| pageno       | integer                        |
| printf1      | logical                        |
| printf12     | logical                        |
| printf13     | logical                        |
| printf14     | logical                        |
| printf15     | logical                        |
| requirefl    | logical                        |
| securefl     | logical                        |
| notetext     | character                      |
| transdt      | date                           |
| transtm      | character                      |
| type         | character (text, file, or url) |
| firstline    | character                      |

# ION API Technical Documentation

## **API Call:** *sxapiICGetProductNotesListV2*

**Purpose:** This call returns a list of notes records for a given product – Version 2

### **Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)  |
| prod                  | Input/Required | The required Product  |
| crossReferenceFlag    | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.   |
| whse                  | Input/Optional | The optional Whse used during the cross reference logic.  |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).  |
| shipTo                | Input/Optional | ShipTo (optional – used for cross reference logic to locate a specific “Customer/ShipTo Part#” product).  |
| requiredNotesOnly     | Input/Optional | “Required Notes only” flag.   |
| lineFeedFlag          | Input/Optional | Line Feed flag – If this flag is turned on, then the notes text array will be strung together with a carriage return / line feed character between each array extent. |
| recordLimit           | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur.   |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.  |
| crossReferenceProduct | Output         | Cross Reference Product   |
| crossReferenceType    | Output         | Cross Reference Type  |
| moreRecordsFlag       | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-notes               | Output         | The t-notes collection.   |

### **Notes:**

Collection fields:

| Field Name   | Type                           |
|--------------|--------------------------------|
| notestype    | character                      |
| primarykey   | character                      |
| secondarykey | character                      |
| pageno       | integer                        |
| printf1      | logical                        |
| printf12     | logical                        |
| printf13     | logical                        |
| printf14     | logical                        |
| printf15     | logical                        |
| requirefl    | logical                        |
| securefl     | logical                        |
| notetext     | character                      |
| transdt      | date                           |
| transtm      | character                      |
| type         | character (text, file, or url) |
| firstline    | character                      |

# ION API Technical Documentation

**API Call:** *sxapiICGetProductUnitOfMeasureList*

**Purpose:** Retrieve unit of measure records for a given product

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| productCode      | Input/Required | The required product   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| t-prod-uom       | Output         | The output t-prod-uom collection                                       |

**Notes:**

Collection **t-prod-uom** fields:

| Field Name         | Type                          |
|--------------------|-------------------------------|
| prod               | character                     |
| uom                | character                     |
| unitconv           | decimal (icseu.unitconv)      |
| unitediuom         | character (icseu.unitediuom)  |
| units              | character (icseu.units)       |
| wholevaluedesc     | character                     |
| wholevalueconvtype | logical (multiple / fraction) |
| wholevalueunits    | decimal                       |



# ION API Technical Documentation

## **API Call:** *sxapiCGetReservedProdList*

**Purpose:** Retrieves a set of transaction line items which effect quantity reserved for a given product.

### **Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| whse                 | Input/Required | The required warehouse  |
| productCode          | Input/Required | The required product  |
| startDate            | Input/Optional | The beginning date for selection purposes   |
| endDate              | Input/Optional | The ending date   |
| unitOfMeasure        | Input/Optional | Unit of measure   |
| module               | Input/Required | The module of the line item being operated upon. The logic to select transaction line items will ignore this line item. Must be "oe" or "wt".                       |
| sort                 | Input/Required | Sort Type. Must be "d" (Date) or "m" (Module)   |
| orderNumber          | Input/Optional | The order # of the line item being operated upon. This line item will be ignored.   |
| orderSuffix          | Input/Optional | The order suffix of the line item being operated upon. This line item will be ignored.  |
| lineNumber           | Input/Optional | The line # of the line item being operated upon. This line item will be ignored.  |
| recordLimit          | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur. |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-icreserved         | Output         | The t-icreserved collection   |

### **Notes:**

The t-icreserved collection contains 1 record for each transaction line item selected.

The following fields are contained in this collection:

| Field Name | Data Type |
|------------|-----------|
| resdate    | date      |
| orderty    | character |
| transty    | character |
| orderno    | integer   |
| ordersuf   | integer   |
| stagecd    | integer   |
| stage      | character |
| lineno     | integer   |
| seqno      | integer   |
| qtyord     | decimal   |
| stkqtyord  | decimal   |
| unit       | character |
| unitconv   | decimal   |
| qtyship    | decimal   |
| stkqtyship | decimal   |
| custno     | decimal   |
| name       | character |

# ION API Technical Documentation

## **API Call:** *sxapiICGetSerialList*

**Purpose:** Retrieve Serial Records for Inquiries and Inventory Movements.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| type             | Input/Optional | Type   |
| warehouse        | Input          | Whse   |
| productCode      | Input          | Product  |
| orderNumber      | Input/Optional | Order Number   |
| orderSuffix      | Input/Optional | Order Suffix   |
| lineNumber       | Input/Optional | Line No  |
| sequenceNumber   | Input/Optional | Sequence No  |
| t-infieldvalue   | Input          | t-infieldvalue   |
| t-serialdata     | Output         | t-serialdata   |
| t-outfieldvalue  | Output         | Table t-outfieldvalue  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |

### **Notes:**

Type is the serial type, blank means all. A comma delimited list can be sent to retrieve more than one type. The types are <A>ctive, <U>navailable, <S>old and <R>etired.

When Order Information is included, it will look for serials reserved against that order. Order information is never passed from Storeroom.

The API call Create-ICSerial-TT is called to retrieve the serial data.

The “t-serialdata” collection contains the following fields:

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Serialno          | character        |
| receiptdt         | date             |
| comment           | character        |
| binloc            | character        |
| selectfl          | logical          |
| statustype        | character        |
| reasunavty        | character        |
| user1-user9       |                  |

Collection fields for both t-infieldvalue and t-outfieldvalue:

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| Level             | character   |
| Lineno            | integer     |
| Seqno             | integer     |
| Fieldname         | character   |
| Fieldvalue        | character   |

# ION API Technical Documentation

## **API Call:** *sxapiICGetWarehouseDataGeneral*

**Purpose:** This call returns general data from the ICSD record of a Warehouse.

### **Parameters:**

| REST Params                | Direction      | Description   |
|----------------------------|----------------|---|
| companyNumber              | Input/required | Company #   |
| operatorInit               | Input/required | SASO operator for the company specified   |
| operatorPassword           | Input/optional | SASO operator password (only required if business rule is set)  |
| warehouse                  | Input/Required | Warehouse – Pass in the warehouse for which data should be returned                                       |
| errorMessage               | Output         | Error message – Any error messages will be returned in this parameter.                                    |
| name                       | Output         | Name – Returns the name of the warehouse  |
| address1                   | Output         | Address 1 – Returns the first address line  |
| address2                   | Output         | Address 2 – Returns the second address line   |
| address3                   | Output         | Address 3 – Returns the third address line  |
| city                       | Output         | City – Returns the city where the warehouse is located  |
| state                      | Output         | State – Returns the abbreviation for the state where the warehouse is located                             |
| postalCode                 | Output         | Zip Code – Returns the zip code for the warehouse   |
| managedFlag                | Output         | Managed – Returns 'true' if the warehouse is a storeroom managed warehouse                                |
| customerNumber             | Output         | Customer Number – Returns the customer number associated with the warehouse                               |
| shipTo                     | Output         | Ship To – Returns the ship to associated with the warehouse   |
| printerName                | Output         | Storeroom Printer – Returns the storeroom printer set up in ICSD  |
| cycleCountShowExpectedFlag | Output         | Cycle Count Show Expected – Returns 'true' if the expected quantity should be shown during count entry    |
| physInvShowExpectedFlag    | Output         | Physical Count Show Expected – Returns 'true' if the expected quantity should be shown during count entry |
| autoReceiveWTFlag          | Output         | Auto Receive WT's – Returns 'true' if the ICSD settings is yes  |

### **Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiICGetWarehouseDataGeneralV2*

**Purpose:** This call returns general data from the ICSD record of a Warehouse – Version 2.

### **Parameters:**

| REST Params                | Direction      | Description   |
|----------------------------|----------------|---|
| companyNumber              | Input/required | Company #   |
| operatorInit               | Input/required | SASO operator for the company specified   |
| operatorPassword           | Input/optional | SASO operator password (only required if business rule is set)  |
| warehouse                  | Input/Required | Warehouse – Pass in the warehouse for which data should be returned                                       |
| errorMessage               | Output         | Error message – Any error messages will be returned in this parameter.                                    |
| name                       | Output         | Name – Returns the name of the warehouse  |
| address1                   | Output         | Address 1 – Returns the first address line  |
| address2                   | Output         | Address 2 – Returns the second address line   |
| address3                   | Output         | Address 3 – Returns the third address line  |
| city                       | Output         | City – Returns the city where the warehouse is located  |
| state                      | Output         | State – Returns the abbreviation for the state where the warehouse is located                             |
| postalCode                 | Output         | Zip Code – Returns the zip code for the warehouse   |
| managedFlag                | Output         | Managed – Returns 'true' if the warehouse is a storeroom managed warehouse                                |
| customerNumber             | Output         | Customer Number – Returns the customer number associated with the warehouse                               |
| shipTo                     | Output         | Ship To – Returns the ship to associated with the warehouse   |
| printerName                | Output         | Storeroom Printer – Returns the storeroom printer set up in ICSD  |
| cycleCountShowExpectedFlag | Output         | Cycle Count Show Expected – Returns 'true' if the expected quantity should be shown during count entry    |
| physInvShowExpectedFlag    | Output         | Physical Count Show Expected – Returns 'true' if the expected quantity should be shown during count entry |
| autoReceiveWTFlag          | Output         | Auto Receive WT's – Returns 'true' if the ICSD settings is yes  |
| storeroomWTARPWlse         | Output         | Storeroom ARP Warehouse – ICSD value for Storeroom  |
| t-outfieldvalue            | Output         | The "Out Field" collection – for user defined output – t-outfieldvalue                                    |

### **Notes:**

Collection fields for t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

# ION API Technical Documentation

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**API Call:** *sxapiICGetWarehouseList*

**Purpose:** This call returns a list of Warehouses (ICSD records).

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                            |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the whse value, otherwise it sorts on the whse name. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                    |
| t-codelst        | Output         | The t-codelst collection.   |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| codevalue  | character (whse)                    |
| codedesc   | character (name)                    |
| extradata  | character                           |
| sortfld    | character (sort key for collection) |

# ION API Technical Documentation

## **API Call:** *sxapiICGetWhseProductDataCosts*

**Purpose:** This call returns “cost” information for a given Whse Product (ICSW) record.

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.          |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| averageCost           | Output         | Average cost   |
| lastCost              | Output         | Last Cost  |
| replacementCost       | Output         | Replacement Cost   |
| replacementCostDate   | Output         | Replacement Cost Date  |
| standardCost          | Output         | Standard Cost  |
| standardCostDate      | Output         | Standard Cost Date   |
| rebateCost            | Output         | Rebate Cost  |
| addonCost             | Output         | Addon Cost   |
| datcCost              | Output         | DATC Cost  |
| baseYearCost          | Output         | Base Year Cost   |
| lastCostForeign       | Output         | Last Cost Foreign  |
| generalLedgerCost     | Output         | General Ledger Cost (ICAOC)  |
| salesManagerCost      | Output         | Sales Manager Cost (ICAOC)   |
| priceDiscountingCost  | Output         | Price Discounting Cost (ICAOC)   |
| purchasingCost        | Output         | Purchasing Cost (POAO)   |

### **Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiICGetWhseProductDataCostsV2*

**Purpose:** This call returns “cost” information for a given Whse Product (ICSW) record Version 2

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)   |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.                      |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).             |
| shipTo                | Input/Optional | ShipTo (optional – used for cross reference logic to locate a specific “Customer/ShipTo Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                                   |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| averageCost           | Output         | Average cost   |
| lastCost              | Output         | Last Cost  |
| replacementCost       | Output         | Replacement Cost   |
| replacementCostDate   | Output         | Replacement Cost Date  |
| standardCost          | Output         | Standard Cost  |
| standardCostDate      | Output         | Standard Cost Date   |
| rebateCost            | Output         | Rebate Cost  |
| addonCost             | Output         | Addon Cost   |
| datcCost              | Output         | DATC Cost  |
| baseYearCost          | Output         | Base Year Cost   |
| lastCostForeign       | Output         | Last Cost Foreign  |
| generalLedgerCost     | Output         | General Ledger Cost (ICAOC)  |
| salesManagerCost      | Output         | Sales Manager Cost (ICAOC)   |
| priceDiscountingCost  | Output         | Price Discounting Cost (ICAOC)   |
| purchasingCost        | Output         | Purchasing Cost (POAO)   |

### **Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiCGetWhseProductDataGeneral*

**Purpose:** This call returns “general” information for a given Whse Product (ICSW) record.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.          |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| statusType            | Output         | Status Type  |
| serialLotType         | Output         | Serial / Lot Type  |
| reserveType           | Output         | Reserve Type   |
| reserveDays           | Output         | Reserve Days   |
| priceType             | Output         | Price Type   |
| priceTypeDesc         | Output         | Price Type Description   |
| productLine           | Output         | Product Line   |
| basePrice             | Output         | Base Price   |
| listPrice             | Output         | List Price   |
| arpType               | Output         | ARP Type   |
| vendorNumber          | Output         | ARP Vendor #   |
| arpWhse               | Output         | ARP Whse   |
| binLocation1          | Output         | Bin Location 1   |
| binLocation2          | Output         | Bin Location 2   |
| leadTime              | Output         | Average Lead Time  |

**Notes:**



# ION API Technical Documentation

## **API Call:** *sxapiICGetWhseProductDataGeneralV2*

**Purpose:** This call returns “general” information for a given Whse Product (ICSW) record – Version 2

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.          |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| statusType            | Output         | Status Type  |
| serialLotType         | Output         | Serial / Lot Type  |
| reserveType           | Output         | Reserve Type   |
| reserveDays           | Output         | Reserve Days   |
| priceType             | Output         | Price Type   |
| priceTypeDesc         | Output         | Price Type Description   |
| productLine           | Output         | Product Line   |
| basePrice             | Output         | Base Price   |
| listPrice             | Output         | List Price   |
| arpType               | Output         | ARP Type   |
| vendorNumber          | Output         | ARP Vendor #   |
| arpWhse               | Output         | ARP Whse   |
| binLocation1          | Output         | Bin Location 1   |
| binLocation2          | Output         | Bin Location 2   |
| leadTime              | Output         | Average Lead Time  |
| arpPushFlag           | Output         | ARP Push Flag  |
| binType               | Output         | Bin Type   |
| backorderShortFlag    | Output         | Backorder Short Flag   |
| enteredDate           | Output         | Entered Date   |
| familyGroupType       | Output         | Family Group Type  |
| freightExtra1         | Output         | Freight Extra Amount 1   |
| freightExtra2         | Output         | Freight Extra Amount 2   |
| freightFreeFlag       | Output         | Freight Free Flag  |
| lastPOWTDate          | Output         | Last PO WT Date  |
| vendorProduct         | Output         | Vendor Product   |
| lastUpdate            | Output         | Last Update  |

### **Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiICGetWhseProductDataGeneralV3*

**Purpose:** This call returns “general” information for a given Whse Product (ICSW) record – Version 3

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)   |
| productCode           | Input/Required | The required Product   |
| warehouse             | Input/Required | The required Whse  |
| crossReferenceFlag    | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.                      |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).             |
| shipTo                | Input/Optional | ShipTo (optional – used for cross reference logic to locate a specific “Customer/ShipTo Part#” product). |
| t-infieldvalue        | Input Table    | The “In Field” collection – user defined – t-infieldvalue  |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                                   |
| t-icprodwhsedata      | Output Table   | t-icprodwhsedata   |
| t-outfieldvalue       | Output Table   | The “Out Field” collection – for user defined output – t-outfieldvalue                                   |

### **Notes:**

Collection t-icprodwhsedata – fields – created to allow for future output of ICSW values.

### **Output Collection:** t-icprodwhsedata

| Field Name    | Data Type             | Data Source (ICSW)  |
|---------------|-----------------------|---|
| prod          | X(24)                 | Product   |
| whse          | X(4)                  | Warehouse   |
| statustype    | X(1)                  | Status Type - (D)irect Ship, (O)rder as Needed, (S)tock or (X)-Do not Reorder |
| nonstockty    | X(1)                  | Order As Needed Non Stock – (N)on stock                                       |
| serlottype    | X(1)                  | Serial/Lot Type - (S)erial, (L)ot or Blank                                    |
| reservety     | X(1)                  | Reserve Type - (D)elay, (R)eceipts, (A)lways or Blank                         |
| reservedays   | Integer z9            | Reserve Days  |
| pricetype     | X(4)                  | Price Type  |
| pricetypedesc | Char                  | Price Type Description – SASTT (off Price Type)                               |
| prodline      | X(6)                  | Product Line  |
| baseprice     | zzzzzz9.99999         | Base Price  |
| listprice     | zzzzzz9.99999         | List Price  |
| arptype       | X(1)                  | ARP Type - (V)endor,(W)hse,(C)entral Whses,(K)it,V(M)I or (F)ab VA            |
| arpvendno     | Decimal<br>>>>>>>>>>9 | ARP Vendor #  |
| arpwhse       | X(4)                  | ARP Whse  |
| binloc1       | Char                  | Bin Location 1  |
| binloc2       | Char                  | Bin Location 2  |
| leadtmavg     | >>>9                  | Average Lead Time   |
| arppushfl     | Logical               | ARP Push Flag   |
| binotype      | X(6)                  | Bin Type  |
| boshortfl     | Logical               | Backorder Shrt Flag   |

# ION API Technical Documentation

|            |                  |  |
|------------|------------------|--|
| enterdt    | 99/99/99         | Enter Date   |
| acquiredt  | 99/99/99         | Acquired Date  |
| famgrptype | X(2)             | Family Group Type  |
| frtextra1  | zzzzzz9.99999-   | Freight Extra Amount 1   |
| frtextra2  | zzzzzz9.99999-   | Freight Extra Amount 2   |
| frtfreefl  | Logical          | Freight Free Flag  |
| lastpowdt  | 99/99/99         | Last PO WT Date  |
| vendprod   | X(24)            | Vendor Product   |
| lastupdate | Char             | Last Udate – icsw.transdt, icsw.transtm,<br>icsw.transproc, icsw.transdt |
| user1      | X(78)            | User field 1   |
| user2      | X(78)            | User field 2   |
| user3      | X(78)            | User field 3   |
| user4      | X(78)            | User field 4   |
| user5      | X(78)            | User field 5   |
| user6      | zzzzzzzz9.99999- | User field 6   |
| user7      | zzzzzzzz9.99999- | User field 7   |
| user8      | 99/99/99         | User field 8   |
| user9      | 99/99/99         | User field 9   |

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

# ION API Technical Documentation

## **API Call:** *sxapiICGetWhseProductDataOrdering*

**Purpose:** This call returns “general” information for a given Whse Product (ICSW) record.

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.          |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| availableStockDate    | Output         | Available Stock Out Date   |
| averageLeadTimeDate   | Output         | Average Lead Time Date   |
| classType             | Output         | Class  |
| classFrozenFlag       | Output         | Class Frozen Flag  |
| frozenByType          | Output         | Frozen By Type   |
| frozenLeadTimeType    | Output         | Frozen Lead Time Type  |
| frozenMonths          | Output         | Frozen Months  |
| frozenType            | Output         | Frozen Type  |
| frozenTypeDesc        | Output         | Frozen Type Description  |
| lastLeadTimeDate      | Output         | Last Lead Time Date  |
| lastStockOutDate      | Output         | Last Stock Out Date  |
| leadTimeLast          | Output         | Lead Time Last   |
| leadTimePrior         | Output         | Lead Time Prior  |
| linePoint             | Output         | Line Point   |
| numberOfDaysSeason    | Output         | Number of Days Season  |
| numberOfDaysStockOut  | Output         | Number of Days Stock Out   |
| numberOfTimesStockOut | Output         | Number Times Stock Out   |
| orderCalculationType  | Output         | Order Calculation Type   |
| orderPoint            | Output         | Order Point  |
| quantityOrderedIn     | Output         | Order Quantity In  |
| quantityOrderedOut    | Output         | Order Quantity Out   |
| overrideReasonIn      | Output         | Override Reason In   |
| overrideReasonInDesc  | Output         | Override Reason In Description   |
| overrideReasonOut     | Output         | Override Reason Out  |
| overrideReasonOutDesc | Output         | Override Reason Out Description  |
| priorLeadTimeDate     | Output         | Prior Lead Time Date   |
| safetyAllowanceAmount | Output         | Safety Allowance Amount  |
| safetyAllowanceDays   | Output         | Safety Allowance Days  |
| safetyAllowanceType   | Output         | Safety Allowance Type  |
| safetyFrozenFlag      | Output         | Safety Type Frozen Flag  |
| seasonBegin           | Output         | Season Begin   |
| seasonEnd             | Output         | Season End   |
| stockOut15Flag        | Output         | Stock Out 15 Flag  |
| usageControl          | Output         | Usage Control  |
| usageRate             | Output         | Usage Rate   |
| usageMonths           | Output         | Usage Months   |

### **Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiCGetWhseProductDataOrderingV2*

**Purpose:** This call returns “general” information for a given Whse Product (ICSW) record Version 2

### **Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)  |
| product               | Input/Required | The required Product  |
| whse                  | Input/Required | The required Whse   |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.                       |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).              |
| shipTo                | Input/Optional | Ship To (optional – used for cross reference logic to locate a specific “Customer/ShipTo Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                                    |
| crossReferenceProduct | Output         | Cross Reference Product   |
| crossReferenceType    | Output         | Cross Reference Type  |
| availableStockDate    | Output         | Available Stock Out Date  |
| averageLeadTimeDate   | Output         | Average Lead Time Date  |
| classType             | Output         | Class   |
| classFrozenFlag       | Output         | Class Frozen Flag   |
| frozenByType          | Output         | Frozen By Type  |
| frozenLeadTimeType    | Output         | Frozen Lead Time Type   |
| frozenMonths          | Output         | Frozen Months   |
| frozenType            | Output         | Frozen Type   |
| frozenTypeDesc        | Output         | Frozen Type Description   |
| lastLeadTimeDate      | Output         | Last Lead Time Date   |
| lastStockOutDate      | Output         | Last Stock Out Date   |
| leadTimeLast          | Output         | Lead Time Last  |
| leadTimePrior         | Output         | Lead Time Prior   |
| linePoint             | Output         | Line Point  |
| numberOfDaysSeason    | Output         | Number of Days Season   |
| numberOfDaysStockOut  | Output         | Number of Days Stock Out  |
| numberOfTimesStockOut | Output         | Number Times Stock Out  |
| orderCalculationType  | Output         | Order Calculation Type  |
| orderPoint            | Output         | Order Point   |
| quantityOrderedIn     | Output         | Order Quantity In   |
| quantityOrderedOut    | Output         | Order Quantity Out  |
| overrideReasonIn      | Output         | Override Reason In  |
| overrideReasonInDesc  | Output         | Override Reason In Description  |
| overrideReasonOut     | Output         | Override Reason Out   |
| overrideReasonOutDesc | Output         | Override Reason Out Description   |
| priorLeadTimeDate     | Output         | Prior Lead Time Date  |
| safetyAllowanceAmount | Output         | Safety Allowance Amount   |
| safetyAllowanceDays   | Output         | Safety Allowance Days   |
| safetyAllowanceType   | Output         | Safety Allowance Type   |
| safetyFrozenFlag      | Output         | Safety Type Frozen Flag   |
| seasonBegin           | Output         | Season Begin  |
| seasonEnd             | Output         | Season End  |
| stockOut15Flag        | Output         | Stock Out 15 Flag   |
| usageControl          | Output         | Usage Control   |
| usageRate             | Output         | Usage Rate  |
| usageMonths           | Output         | Usage Months  |

# ION API Technical Documentation

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**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiICGetWhseProductDataQuantity*

**Purpose:** This call returns “quantity” information for a given Whse Product (ICSW) record.

**Parameters:**

| REST Params               | Direction      | Description  |
|---------------------------|----------------|--|
| companyNumber             | Input/required | Company #  |
| operatorInit              | Input/required | SASO operator for the company specified  |
| operatorPassword          | Input/optional | SASO operator password (only required if business rule is set)                               |
| product                   | Input/Required | The required Product   |
| whse                      | Input/Required | The required Whse  |
| useCrossReferenceFlag     | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.          |
| customerNumber            | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage              | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct     | Output         | Cross Reference Product  |
| crossReferenceType        | Output         | Cross Reference Type   |
| quantityOnHand            | Output         | Qty On Hand  |
| quantityReserved          | Output         | Qty Reserved   |
| quantityCommitted         | Output         | Qty Committed  |
| netAvailable              | Output         | Net Available  |
| quantityBackorder         | Output         | Qty Backorder  |
| quantityOnOrder           | Output         | Qty On Order   |
| quantityReceived          | Output         | Qty Received   |
| quantityUnAvailable       | Output         | Qty Unavailable  |
| quantityInTransit         | Output         | Qty In Transit   |
| quantityRequestedReceived | Output         | Qty Requested Received   |
| quantityRequestedShipped  | Output         | Qty Requested Shipped  |
| quantityDemand            | Output         | Qty Demand   |
| surplus                   | Output         | Qty Surplus  |
| purchasingNetAvailable    | Output         | Purchasing Net Available   |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiCGetWhseProductDataQuantityV2*

**Purpose:** This call returns “quantity” information for a given Whse Product (ICSW) record Version 2

### **Parameters:**

| REST Params               | Direction      | Description   |
|---------------------------|----------------|---|
| companyNumber             | Input/required | Company #   |
| operatorInit              | Input/required | SASO operator for the company specified   |
| operatorPassword          | Input/optional | SASO operator password (only required if business rule is set)  |
| product                   | Input/Required | The required Product  |
| whse                      | Input/Required | The required Whse   |
| useCrossReferenceFlag     | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.                       |
| customerNumber            | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).              |
| shipTo                    | Input/Optional | Ship To (optional – used for cross reference logic to locate a specific “Customer/ShipTo Part#” product). |
| errorMessage              | Output         | Error message – Any error messages will be returned in this parameter.                                    |
| crossReferenceProduct     | Output         | Cross Reference Product   |
| crossReferenceType        | Output         | Cross Reference Type  |
| quantityOnHand            | Output         | Qty On Hand   |
| quantityReserved          | Output         | Qty Reserved  |
| quantityCommitted         | Output         | Qty Committed   |
| netAvailable              | Output         | Net Available   |
| quantityBackorder         | Output         | Qty Backorder   |
| quantityOnOrder           | Output         | Qty On Order  |
| quantityReceived          | Output         | Qty Received  |
| quantityUnAvailable       | Output         | Qty Unavailable   |
| quantityInTransit         | Output         | Qty In Transit  |
| quantityRequestedReceived | Output         | Qty Requested Received  |
| quantityRequestedShipped  | Output         | Qty Requested Shipped   |
| quantityDemand            | Output         | Qty Demand  |
| surplus                   | Output         | Qty Surplus   |
| purchasingNetAvailable    | Output         | Purchasing Net Available  |

### **Notes:**



# ION API Technical Documentation

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**API Call:** *sxapiICGetWhseProductDataTaxing*

**Purpose:** This call returns “taxing” information for a given Whse Product (ICSW) record.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.          |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| gstStatus             | Output         | GST Status   |
| nonTaxType            | Output         | Non Tax Type   |
| nonTaxTypeDesc        | Output         | Non Tax Type Description   |
| tariffCode            | Output         | Tariff Code  |
| taxableType           | Output         | Taxable Type   |
| taxGroup              | Output         | Tax Group  |
| taxType               | Output         | Tax Type   |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiICGetWhseProductDataTaxingV2*

**Purpose:** This call returns “taxing” information for a given Whse Product (ICSW) record Version 2

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)   |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.                        |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).               |
| shipTo                | Input/Optional | Ship To (optional – used for cross reference logic to locate a specific “Customer/Ship To Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                                     |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| gstStatus             | Output         | GST Status   |
| nonTaxType            | Output         | Non Tax Type   |
| nonTaxTypeDesc        | Output         | Non Tax Type Description   |
| tariffCode            | Output         | Tariff Code  |
| taxableType           | Output         | Taxable Type   |
| taxGroup              | Output         | Tax Group  |
| taxType               | Output         | Tax Type   |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiICGetWhseProductDataUnits*

**Purpose:** This call returns “unit” information for a given Whse Product (ICSW) record.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.          |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| unitBuy               | Output         | Unit Buy   |
| unitStandard          | Output         | Unit Standard  |
| unitWarehouseTransfer | Output         | Unit WT  |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiICGetWhseProductDataUnitsV2*

**Purpose:** This call returns “unit” information for a given Whse Product (ICSW) record Version 2

**Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)  |
| product               | Input/Required | The required Product  |
| whse                  | Input/Required | The required Whse   |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.                       |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).              |
| shipTo                | Input/Optional | Ship To (optional – used for cross reference logic to locate a specific “Customer/ShipTo Part#” product). |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                                    |
| crossReferenceProduct | Output         | Cross Reference Product   |
| crossReferenceType    | Output         | Cross Reference Type  |
| unitBuy               | Output         | Unit Buy  |
| unitStandard          | Output         | Unit Standard   |
| unitWarehouseTransfer | Output         | Unit WT   |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiICGetWhseProductDataUsage*

**Purpose:** This call returns “unit” information for a given Whse Product (ICSW) record.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                               |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.          |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product). |
| sort                  | Input/NotUsed  | Sort (currently not used)  |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                       |
| crossReferenceProduct | Output         | Cross Reference Product  |
| crossReferenceType    | Output         | Cross Reference Type   |
| t-icswusage           | Output         | Usage collection   |

**Notes:**

Fields in usage collection:

| Field       | Type      |
|-------------|-----------|
| monthseq    | integer   |
| monthwords  | character |
| year        | integer   |
| normusage   | decimal   |
| overreasty  | character |
| overrsdesc  | character |
| nodaysso    | integer   |
| notimesso   | integer   |
| avginvval   | decimal   |
| overusage   | decimal   |
| transpct    | decimal   |
| linehits    | integer   |
| linehitslb  | integer   |
| linehitstot | integer   |

# ION API Technical Documentation

## **API Call:** *sxapiICGetWhseProductDataUsageV2*

**Purpose:** This call returns “unit” information for a given Whse Product (ICSW) record Verison 2

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)   |
| product               | Input/Required | The required Product   |
| whse                  | Input/Required | The required Whse  |
| useCrossReferenceFlag | Input/Required | Boolean indicating if the Product Cross Reference logic should be performed or not.                        |
| customerNumber        | Input/Optional | Customer # (optional – used for cross reference logic to locate a “Customer Part#” product).               |
| shipTo                | Input/Optional | Ship To (optional – used for cross reference logic to locate a specific “Customer/Ship To Part#” product). |
| errorMessage          | Input/NotUsed  | Sort (currently not used)  |
| crossReferenceProduct | Output         | Error message – Any error messages will be returned in this parameter.                                     |
| crossReferenceType    | Output         | Cross Reference Product  |
| t-icswusage           | Output         | Cross Reference Type   |
| errorMessage          | Output         | Usage collection   |

### **Notes:**

Fields in usage collection:

| Field       | Type      |
|-------------|-----------|
| monthseq    | integer   |
| monthwords  | character |
| year        | integer   |
| normusage   | decimal   |
| overreasty  | character |
| overrsdesc  | character |
| nodayssso   | integer   |
| notimesso   | integer   |
| avginvval   | decimal   |
| overusage   | decimal   |
| transpct    | decimal   |
| linehits    | integer   |
| linehitslb  | integer   |
| linehitstot | integer   |

# ION API Technical Documentation

## **API Call:** *sxapiICGetWhseProductList*

**Purpose:** This call will return a list of Warehouse Product's (ICSW records) based on several selection criteria.

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| prod                    | Input/Optional | Product – An optional “beginning” product # may be entered. All products that begin with these characters will be selected.  |
| whse                    | Input/Optional | Warehouse – An optional warehouse may be entered. All products that are part of the specified warehouse will be selected.  |
| vendorNumber            | Input/Optional | Vendor # - An optional vendor number can be entered. All products with an ARP vendor that is equal to the vendor number specified will be selected.  |
| productLine             | Input/Optional | Product Line – An optional product line value can be passed. All products that have this line (procline) will be selected.   |
| lookupName              | Input/Optional | Lookup Name – An optional lookup name can be entered. All products who's lookup name begins with these characters will be selected.  |
| statusStockFlag         | Input/Required | Status Stock Flag – Used to select products that have a status of stocked when this parameter is true.   |
| statusDirectFlag        | Input/Required | Status Direct Flag – Used to select products that have a status of direct when this parameter is true.   |
| statusOrderAsNeededFlag | Input/Required | Status OAN Flag – Used to select products that have a status of order as needed when this parameter is true.   |
| statusDoNotReorderFlag  | Input/Required | Status DNR Flag – Used to select products that have a status of do not re-order when this parameter is true.   |
| productCategory         | Input/Optional | Product Category – An optional product category value can be passed. All products that have this category (prodcats) will be selected.   |
| kitType                 | Input/Optional | Kit Type – Selection field that controls how Kit products are selected:<br><blank> - All products regardless of kit type<br>“e” – Exclude all kit type products<br>“p” – Only prebuilt kits<br>“b” – Only Build on Demand kits<br>“m” – Tally products |
| keyWord1                | Input/Optional | Keyword 1 – An optional keyword value  |
| keyWord2                | Input/Optional | Keyword 2 – An optional keyword value  |
| keyWord3                | Input/Optional | Keyword 3 – An optional keyword value  |
| keyWord4                | Input/Optional | Keyword 4 – An optional keyword value  |
| keyWord5                | Input/Optional | Keyword 5 – An optional keyword value  |
| inactiveFlag            | Input/Required | Inactive Flag – A logical field that controls whether inactive products should be selected or not.   |
| recordLimit             | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur.  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsFlag         | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| t-whseprod              | Output         | Product (t-whseprod) Collection – see notes below for description.   |

# ION API Technical Documentation

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## Notes:

Since this API call has separate parameter flags to control which ICSW records are located based on it's status (Stock, Direct Order, Order As Needed, and Do Not Reorder), it's critical that one or more of these flags (at a minimum the Stock Flag) be turned on – otherwise this API call will not return any rows in the collection.

The output for this API call is a collection known as “t-whseprod”. This collection will contain 1 row for each warehouse product selected. The following is a list of those fields that will be populated for this API call:

| Product (t-whseprod) Collection |  |
|---------------------------------|--|
| Field                           | Contents   |
| prod                            | The product # (icsw.prod)                                      |
| whse                            | The warehouse (icsw.whse)                                      |
| arpvendno                       | The ARP vendor number (icsw.arpvendno)                         |
| prodline                        | The product line (icsw.prodline)                               |
| lookupnm                        | The lookup name for the product (icsp.lookupnm)                |
| statustype                      | The product status (s = stocked, d = direct, o = OAN, x = DNR) |
| serlotype                       | The serial or lot type (s = serial, l = lot) (icsw.serlotype)  |
| netavail                        | The quantity net available based on the product quantities     |
| leadtmavg                       | The average lead time for the product (icsw.leadtmavg)         |
| descrip1                        | The first description line (icsp.descrip[1])                   |
| descrip2                        | The second description line (icsp.descrip[2])                  |
| prodcats                        | The product category   |



# ION API Technical Documentation

## **API Call:** *sxapiCGetWhseProductListV2*

**Purpose:** This call will return a list of Warehouse Product's (ICSW records) based on several selection criteria.

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| prod                    | Input/Optional | Product – An optional “beginning” product # can be entered. All products that begin with these characters will be selected.  |
| whse                    | Input/Optional | Warehouse – An optional warehouse can be entered. All products that are part of the specified warehouse will be selected.  |
| vendorNumber            | Input/Optional | Vendor # - An optional vendor number can be entered. All products with an ARP vendor that is equal to the vendor number specified will be selected.  |
| productLine             | Input/Optional | Product Line – An optional product line value can be passed. All products that have this line (propline) will be selected.   |
| lookupName              | Input/Optional | Lookup Name – An optional lookup name can be entered. All products who's lookup name begins with these characters will be selected.  |
| statusStockFlag         | Input/Required | Status Stock Flag – Used to select products that have a status of stocked when this parameter is true.   |
| statusDirectFlag        | Input/Required | Status Direct Flag – Used to select products that have a status of direct when this parameter is true.   |
| statusOrderAsNeededFlag | Input/Required | Status OAN Flag – Used to select products that have a status of order as needed when this parameter is true.   |
| statusDoNotReorderFlag  | Input/Required | Status DNR Flag – Used to select products that have a status of do not re-order when this parameter is true.   |
| productCategory         | Input/Optional | Product Category – An optional product category value can be passed. All products that have this category (prodcats) will be selected.   |
| kitType                 | Input/Optional | Kit Type – Selection field that controls how Kit products are selected:<br><blank> - All products regardless of kit type<br>“e” – Exclude all kit type products<br>“p” – Only prebuilt kits<br>“b” – Only Build on Demand kits<br>“m” – Tally products |
| keyWord1                | Input/Optional | Keyword 1 – An optional keyword value  |
| keyWord2                | Input/Optional | Keyword 2 – An optional keyword value  |
| keyWord3                | Input/Optional | Keyword 3 – An optional keyword value  |
| keyWord4                | Input/Optional | Keyword 4 – An optional keyword value  |
| keyWord5                | Input/Optional | Keyword 5 – An optional keyword value  |
| inactiveFlag            | Input/Required | Inactive Flag – A logical field that controls whether inactive products should be selected or not.   |
| recordLimit             | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur.  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsFlag         | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| t-whseprodV2            | Output         | Product (t-whseprodV2) Collection – see notes below for description.   |

### **Notes:**

# ION API Technical Documentation

Since this API call has separate parameter flags to control which ICSW records are located based on it's status (Stock, Direct Order, Order As Needed, and Do Not Reorder), it's critical that one or more of these flags (at a minimum the Stock Flag) be turned on – otherwise this API call will not return any rows in the collection.

The output for this API call is a collection known as “t-whseprodV2”. This collection will contain 1 record for each warehouse product selected. The following is a list of those fields that will be populated for this API call:

| Product (t-whseprodV2) Collection |  |
|-----------------------------------|--|
| Field                             | Contents   |
| prod                              | The product # (icsw.prod)  |
| whse                              | The warehouse (icsw.whse)  |
| arpvendno                         | The ARP vendor number (icsw.arpvendno)   |
| prodline                          | The product line (icsw.prodline)   |
| lookupnm                          | The lookup name for the product (icsp.lookupnm)                                      |
| statustype                        | The ICSW status (s = stocked, d = direct, o = OAN, x = DNR)                          |
| serlotype                         | The serial or lot type (s = serial, l = lot) (icsw.serlotype)                        |
| netavail                          | The quantity net available based on the product quantities                           |
| leadtmavg                         | The average lead time for the product (icsw.leadtmavg)                               |
| descrip1                          | The first description line (icsp.descrip[1])   |
| descrip2                          | The second description line (icsp.descrip[2])  |
| prodcats                          | The product category   |
| listprice                         | The list price of the product (icsw.listprice)                                       |
| baseprice                         | The base price of the product (icsw.baseprice)                                       |
| priceonty                         | The price selector (“l” = listprice, otherwise baseprice) (icsp.priceonty)           |
| glcost                            | The cost based on sasc for GL  |
| pdcost                            | The cost based on sasc for PD  |
| pocost                            | The cost based on sasc for PO  |
| smcost                            | The cost based on sasc for SM  |
| icspstatustype                    | The statustype field from ICSP (A = active, I = inactive, L = labor, S = superseded) |
| pricetype                         | The price type from ICSW   |
| qtyonorder                        | The icsw.qtyonorder  |
| lastpowtdt                        | The last PO / WT date (icsw.lastpowtdt)  |

# ION API Technical Documentation

## **API Call:** *sxapiCGetWhseProductListV3*

**Purpose:** This call will return a list of Warehouse Product's (ICSW records) based on several selection criteria.

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| prod                    | Input/Optional | Product – An optional “beginning” product # can be entered. All products that begin with these characters will be selected.  |
| whse                    | Input/Optional | Warehouse – An optional warehouse can be entered. All products that are part of the specified warehouse will be selected.  |
| vendorNumber            | Input/Optional | Vendor # - An optional vendor number can be entered. All products with an ARP vendor that is equal to the vendor number specified will be selected.  |
| productLine             | Input/Optional | Product Line – An optional product line value can be passed. All products that have this line (prodline) will be selected.   |
| lookupName              | Input/Optional | Lookup Name – An optional lookup name can be entered. All products who's lookup name begins with these characters will be selected.  |
| statusStockFlag         | Input/Required | Status Stock Flag – Used to select products that have a status of stocked when this parameter is true.   |
| statusDirectFlag        | Input/Required | Status Direct Flag – Used to select products that have a status of direct when this parameter is true.   |
| statusOrderAsNeededFlag | Input/Required | Status OAN Flag – Used to select products that have a status of order as needed when this parameter is true.   |
| statusDoNotReorderFlag  | Input/Required | Status DNR Flag – Used to select products that have a status of do not re-order when this parameter is true.   |
| productCategory         | Input/Optional | Product Category – An optional product category value can be passed. All products that have this category (prodcats) will be selected.   |
| kitType                 | Input/Optional | Kit Type – Selection field that controls how Kit products are selected:<br><blank> - All products regardless of kit type<br>“e” – Exclude all kit type products<br>“p” – Only prebuilt kits<br>“b” – Only Build on Demand kits<br>“m” – Tally products |
| keyWord1                | Input/Optional | Keyword 1 – An optional keyword value  |
| keyWord2                | Input/Optional | Keyword 2 – An optional keyword value  |
| keyWord3                | Input/Optional | Keyword 3 – An optional keyword value  |
| keyWord4                | Input/Optional | Keyword 4 – An optional keyword value  |
| keyWord5                | Input/Optional | Keyword 5 – An optional keyword value  |
| inactiveFlag            | Input/Required | Inactive Flag – A logical field that controls whether inactive products should be selected or not.   |
| recordLimit             | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur.  |
| regrindOnlyFlag         | Input/Optional | Regrind Only Flag – Logical Field (StoreRoom specific)   |
| t-infieldvalue          | Input Table    | Collection t-infieldvalue - Extra edits/fields   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsFlag         | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |

# ION API Technical Documentation

|                 |        |  |
|-----------------|--------|--|
| t-whseprodV3    | Output | Product (t-whseprodV3) Collection – see notes below for description. |
| t-outfieldvalue | Output | Collection – t-outfieldvalue – Extra fields                          |

## Notes:

Since this API call has separate parameter flags to control which ICSW records are located based on it's status (Stock, Direct Order, Order As Needed, and Do Not Reorder), it's critical that one or more of these flags (at a minimum the Stock Flag) be turned on – otherwise this API call will not return any records in the collection.

One of the output for this API call is a collection known as “t-whseprodV3”. This collection will contain 1 record for each warehouse product selected. The following is a list of those fields that will be populated for this API call:

| Product (t-whseprodV3) Collection |   |
|-----------------------------------|---|
| Field                             | Contents  |
| prod                              | The product # (icsw.prod)   |
| whse                              | The warehouse (icsw.whse)   |
| arpvendno                         | The ARP vendor number (icsw.arpvendno)  |
| prodline                          | The product line (icsw.prodline)  |
| lookupnm                          | The lookup name for the product (icsp.lookupnm)   |
| statustype                        | The ICSW status (s = stocked, d = direct, o = OAN, x = DNR)                                 |
| serlotype                         | The serial or lot type (s = serial, l = lot) (icsw.serlotype)                               |
| netavail                          | The quantity net available based on the product quantities                                  |
| leadtmavg                         | The average lead time for the product (icsw.leadtmavg)                                      |
| descrip1                          | The first description line (icsp.descrip[1])  |
| descrip2                          | The second description line (icsp.descrip[2])   |
| prodcats                          | The product category  |
| listprice                         | The list price of the product (icsw.listprice)  |
| baseprice                         | The base price of the product (icsw.baseprice)  |
| priceonty                         | The price selector (“l” = listprice, otherwise baseprice) (icsp.priceonty)                  |
| glcost                            | The cost based on AO <b>Post to GL by</b> : (a=avgcost, r=replcost, s=stndcost, l=lastcost) |
| pdcost                            | The cost based on AO <b>Mark up from</b> : (a=avgcost, r=replcost, s=stndcost, l=lastcost)  |
| pocost                            | The cost based on sasc.pocostfl for PO (true=lastcost, false=replcost)                      |
| smcost                            | The cost based on AO <b>Post to SM by</b> : (a=avgcost, r=replcost, s=stndcost, l=lastcost) |
| icspstatustype                    | The statustype field from ICSP (A = active, I = inactive, L = labor, S = superseded)        |
| pricetype                         | The price type from ICSW  |
| qtyonorder                        | The icsw.qtyonorder   |
| lastpowtdt                        | The last PO / WT date (icsw.lastpowtdt)   |
| unitstock                         | The Stocking Unit of the Product (icsp.unitstock)   |
| user1                             | Custom interface field – char x(8)  |
| user2                             | Custom interface field – char x(8)  |
| user3                             | Custom interface field – char x(78)   |
| user4                             | Custom interface field – char x(78)   |
| user5                             | Custom interface field – char x(78)   |
| user6                             | Custom interface field – decimal zzzzzzzz9.99999-   |
| user7                             | Custom interface field – decimal zzzzzzzz9.99999-   |
| user8                             | Custom interface field – date 99/99/99  |
| user9                             | Custom interface field – date 99/99/99  |

The other tamp-tables t-infieldvalue and t-outfieldvalue are used to interface specific data back and forth between the calling program and the called program without changing signatures within the calls.

| Collection – t-outfieldvalue |   |
|------------------------------|---|
| Field                        | Contents  |
| Level                        | Product – value of the product from icsp.prod. Matches to t-whseprodV3.prod |
| FieldName                    | Hard Coded value of 'icsp.descrip3'   |
| FieldValue                   | Product Description 3 – carries the value from icsp.descrip3                |

# ION API Technical Documentation

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|        |                           |
|--------|---------------------------|
| LineNo | Integer Value – will be 0 |
| SeqNo  | Integer Value – will be 0 |

\*\* To find the product's description 3 value, look for an existing t-outfieldvalue record where:  
t-outfieldvalue.level = t-whseprodV3.prod  
t-outfieldvalue.fieldname = "icsp.descrip3"  
t-outfieldvalue.fieldvalue is the Product Description 3 value.

# ION API Technical Documentation

## **API Call:** *sxapilCProductActivityByWhse*

**Purpose:** This call returns Product stock quantities as specified in the EDI-852/846 (outbound) document. You can request data for one or more products for one or more warehouses. Optionally, you can request for serialized data (serialized Products only)

### **Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified  |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)                               |
| prodActHeader     | Input          | prodActHeader Collection   |
| prodActWhse       | Input          | prodActWhse Collection   |
| prodActItemIn     | Input          | prodActItemIn Collection   |
| prodActItemOut    | Output         | prodActItemOut Collection  |
| prodActItemDetail | Output         | prodActItemDetail Collection   |
| prodActItemSerial | Output         | prodActItemSerial Collection   |
| prodActWhseOut    | Output         | prodActWhseOut Collection  |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter. Blank means no error. |

### **Notes: Input/Output Collections detail**

/\* 1. Header table (input) one record required must set serialFlag, returnZeroFlag and detaillevel \*/

/\* prodActHeadercollection: \*/

|               |                  |   |
|---------------|------------------|---|
| /* 10*/ field | documentid       | AS character  |
| /* 20*/ field | partnerid        | AS character  |
| /* 30*/ field | beginDate        | AS character  |
| /* 40*/ field | endDate          | AS character  |
| /* 50*/ field | beginPono        | AS character  |
| /* 60*/ field | beginPosuf       | AS character  |
| /* 70*/ field | endPono          | AS character  |
| /* 80*/ field | endPosuf         | AS character  |
| /* 90*/ field | vendNo           | AS character  |
| /*100*/ field | custNo           | AS character  |
| /*110*/ field | dunsNo           | AS character  |
| /*120*/ field | serialFlag       | AS character ("Y"=Report Serialized data<br>"N", or Blank = do not report<br>Data for serialized products)                    |
| /*130*/ field | returnZeroFlag   | AS character (Y = to show records with zero qty)  |
| /*140*/ field | detailLevel      | AS character ("B", or blank = returns basic data<br>"E"=returns basic and extended data<br>(as of 1/21/03 only "B" available) |
| /*150*/ field | corrrelationData | AS character  |

/\* 2. Warehouses table (input) add one rec for each whse to review\*/

prodActWhse collection:

|               |                  |  |
|---------------|------------------|--|
| /* 10*/ field | coNo             | as character                             |
| /* 20*/ field | companyName      | as character                             |
| /* 30*/ field | whse             | as character /* Whse code is required */ |
| /* 40*/ field | address1         | as character                             |
| /* 50*/ field | address2         | as character                             |
| /* 60*/ field | city             | as character                             |
| /* 70*/ field | state            | as character                             |
| /* 80*/ field | zipcd            | as character                             |
| /* 90*/ field | phone            | as character                             |
| /*100*/ field | fax              | as character                             |
| /*110*/ field | shipvia          | as character                             |
| /*120*/ field | shipInstructions | as character                             |

# ION API Technical Documentation

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```
/*130*/ field    backOrderFlag    as character
/*140*/ field    substituteFlag    as character
/*150*/ field    distDunsNo        as character
/*160*/ field    whseDunsNo        as character
        index kprodActWhse is primary
                coNo                ascending
                whse                ascending
                whsedunsNo          ascending .
```

/\* 3. Item table (input) one record for each product to review \*/  
prodActItemIn collection:

```
/* 10*/ field    vendCatalogNo    AS    character
/* 20*/ field    upcSection1       AS    character
/* 30*/ field    upcSection2       AS    character
/* 40*/ field    upcSection3       AS    character
/* 50*/ field    upcSection4       AS    character
/* 60*/ field    upcSection5       AS    character
/* 70*/ field    upcSection6       AS    character
/* 80*/ field    upc                as    character
/* 90*/ field    buyerProd         AS    CHARACTER
/*100*/ field    sellerProd        AS    CHARACTER /* icsp product here */
/*110*/ field    lineNo            as    character
        index kprodActItemIn is primary
                lineNo              ascending
                buyerProd          ascending
                sellerProd          ascending .
```

/\* 4. Product Activity Items table (output) \*/  
prodActItemOut collection:

```
/* 10*/ field    vendCatalogNo    AS    character
/* 20*/ field    upcSection1       AS    character
/* 30*/ field    upcSection2       AS    character
/* 40*/ field    upcSection3       AS    character
/* 50*/ field    upcSection4       AS    character
/* 60*/ field    upcSection5       AS    character
/* 70*/ field    upcSection6       AS    character
/* 80*/ field    upc                as    character
/* 90*/ field    buyerProd         AS    CHARACTER
/*100*/ field    sellerProd        AS    CHARACTER
/*110*/ field    lineNo            as    character
/*120*/ field    binLocation1      as    character
/*130*/ field    binLocation2      as    character
/*140*/ field    last852Date       as    character
/*150*/ field    coNo              as    character
/*160*/ field    whse              as    character
```

```
        index kprodActItemOut IS UNIQUE primary
                cono                ascending
                whse                ascending
                lineNo              ASCENDING.
```

/\* 5. Product Activity Items-Detail table (output) \*/  
DEFINE TEMP-TABLE prodActItemDetail no-undo

```
/* 10*/ field    lineNo            as    character
/* 20*/ field    activityCode      as    character
/* 30*/ field    quantity          as    character
/* 40*/ field    UOM               as    character
```

# ION API Technical Documentation

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```
/* 50*/ field    recordCount    as    character
/* 60*/ field    orderPoint     as    character
/* 70*/ field    orderQty       as    character
/* 80*/ field    dispCode       as    character
/*360*/ field    coNo           as    character
/*370*/ field    whse           as    character
```

```
index prodActItemDetail is UNIQUE primary
    cono          ascending
    whse          ASCENDING
    lineNo        ASCENDING
    activityCode  ascending .
```

```
/* 6. Product Activity Item Serial Numbers table (output) */
DEFINE TEMP-TABLE prodActItemSerial no-undo
```

```
/* 10*/ field    lineNo          as    character
/* 20*/ field    activityCode     as    character
/* 30*/ field    SeqNo           as    character
/* 40*/ field    serialNumber     as    character
/* 50*/ field    serialStatus     as    character
/* 60*/ field    serialDescription as    character
/* 70*/ field    coNo            as    character
/* 80*/ field    whse            as    character
```

```
index kprodActItemSerial is UNIQUE primary
    cono          ascending
    whse          ASCENDING
    lineNo        ASCENDING
    activityCode  ascending
    SeqNo         ascending
    serialNumber  ascending .
```

```
/* 7. ShipFrom (Warehouses) table (output) */
```

```
DEFINE TEMP-TABLE prodActWhseOut no-undo
```

```
/* 10*/ field    coNo            as    character
/* 20*/ field    companyName     as    character
/* 30*/ field    whse            as    character
/* 40*/ field    address1        as    character
/* 50*/ field    address2        as    character
/* 60*/ field    city            as    character
/* 70*/ field    state           as    character
/* 80*/ field    zipcd           as    character
/* 90*/ field    phone           as    character
/*100*/ field    fax             as    character
/*110*/ field    shipvia         as    character
/*120*/ field    shipInstructions as    character
/*130*/ field    backOrderFlag   as    character
/*140*/ field    substituteFlag  as    character
/*150*/ field    distDunsNo      as    character
/*160*/ field    whseDunsNo      as    character
```

```
index kprodActWhseOut is primary
    coNo          ascending
    whse          ascending
    whsedunsNo    ascending .
```

```
/* End of Tables for 852 (sxapiICGetProductActivity) */
```



# ION API Technical Documentation

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**API Call:** *sxapiICProductAvailByWhse*

**Purpose:** This call will return the quantity net available for each Whse Product (ICSW) record for a given part #.

**Parameters:**

| REST Params         | Direction      | Description  |
|---------------------|----------------|--|
| companyNumber       | Input/required | Company #  |
| operatorInit        | Input/required | SASO operator for the company specified  |
| operatorPassword    | Input/optional | SASO operator password (only required if business rule is set)   |
| productCode         | Input/Required | The required Product   |
| region              | Input/Optional | Region – This is an optional parameter that can be used to limit the set of Warehouses to read based on the Region of the warehouses.  |
| ignoreZeroAvailable | Input/Required | Ignore Zero Flag – This parameter controls where any ICSW record that has a zero (or negative) net available should be ignored or not. |
| errorMessage        | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-prod_avl          | Output         | t-prodavl Collection (see below)   |

**Notes:**

The output from this call is a collection. It contains 1 record for each ICSW record selected. This collection contains the product, 2 description lines, the whse, and the quantity net available.

Fields:

| Field Name | Type      |
|------------|-----------|
| Prod       | character |
| Descrip1   | character |
| Descrip2   | character |
| Whse       | character |
| Netavail   | decimal   |

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## **API Call:** *sxapiCProductMnt*

**Purpose:** This call will maintain (add, change) Product (ICSP) and Warehouse Product (ICSW) records. Also it supports add and delete for ICSEC

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-mnt-tt         | Input/Required | This first parameter is a collection that defines the operation to perform (see notes section)                          |
| extraData        | Input/NotUsed  | Extra parameter – currently not used  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – This parameter will contain a pipe ( ) delimited list of information as to the success of the operator. |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|            |                   |
|------------|-------------------|
| setno      | numeric / integer |
| seqno      | numeric / integer |
| key1       | character         |
| key2       | character         |
| updatemode | character         |
| fieldname  | character         |
| fieldvalue | character         |

All of the records, within the collection, are grouped together by a Set #. Each Set # represents a single operation that will be performed against the CSD system.

The seq # is just a sequential number that forces the collection records to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “add” or “chg”..

The “fieldname” field is the field that will be updated, within the CSD database table (ICSP or ICSW). See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the Product during an “add”, “chg”, or “del” operation.

The “key2” field is used for a Warehouse Product (ICSW) operation. That is, when adding, changing, or deleting an ICSW record, the Warehouse must be specified in “key2”.

Example of a new Product (ICSP) being added:

| set# | seq# | updatemode | key1   | key2 | fieldname | fieldvalue        |
|------|------|------------|--------|------|-----------|-------------------|
| 1    | 1    | add        | abc123 |      | descrip1  | New product desc1 |
| 1    | 2    | add        | abc123 |      | prodcatt  | fuse              |
| 1    | 3    | add        | abc123 |      | weight    | 122.00            |
| 1    | 4    | add        | abc123 |      | cubes     | 1.25              |

The following is a list of valid “fieldname” values for **ICSP (as found in: sxapi-prod-mnt-case.i)**:

autoupcd, bodtransferty, bolclass, brandcode, certifiedtype, cfgkitfl, cfruleset, cnmanpackfl, cnpckinstruct, cnpkggrouplist, cnpkgrestrictty, cnpkgshelfshpfl, cnpkgtype, cnsizemeasitm, corecharge, csunperstk, cubes, custcoregrcfl, custgraceper, descrip1, descrip2, descrip3, dirtycoreprod, edicd, enterdt, exbozerofl, exponinvfl, exporepricefl, height, impliedcoreprod, implyqty, kitsreqfl, kitrollty, kittype, length, lifocat, lookupnm, memomixfl, mfgprod, msdschgd, msdsfl, msdssheetno, nospecrecno, oespecrecno, pbseqno, priceonty, prodcatt, prodtype, randommixfl, reqbundleidfl, sellmult, seqno, serlotype, slchgd, slgroup, speccostty, statustype, tariffcd, termsdiscfl, termsspct, tiedcomprrt, transunit, unitcnt, unitconvfl, unitsell, unitstock, user1, user2, user3, user4,

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user5, user6, user7, user8, user9, user10, user11, user12, user13, user14, user15, user16, user17, user18, user19, user20, user21, user22, user23, user24, vendcoregrcfl, vendgraceper, warlength, warrtype, webpage, webpageext, weight, width

The following is a list of valid “fieldname” values for **ICSW (as found in: sxapi-prod-mnt-case.i)**:

abcclassdt, abccustclass, abcfinalclass, abcgmrclass, abccqtyclass, abcsalesclass, addoncost, arppushfl, arptype, arpusage, arpvendno, arpwhse, asqdiff, asqdiffll, asqfl, autofillfl, autoupcd, availsodt, avgcost, avgltdt, baseprice, baseycost, binloc1, binloc2, bintype, boshortfl, class, classfrzfl, companyrank, countfl, datccost, , exlssfalfl, exout30fl, famgrptype, frozenbyty, frozenlty, frozenmmyy, frozenmos, frozentype, gststatus, hi5diff, hi5diffll, hi5fl, implyqty, issueuntyd, last852avail, last852onord, lastcntdt, lastcost, lastcostfor, lastinvdt, lastltdt, lastpowtdt, lastrcptdt, lastslupddt, lastsodt, leadtmavg, leadtmlast, leadtmprio, lifocat, linept, listprice, minhits, minthreshepdt, minthreshold, msdschgd, nodaysseas, nodaysso, nontaxtype, notimesso, olinept, oorderpt, ordcalcty, orderpt, ordptadjty, ordqtyin, ordqtyout, overreasin, overreasout, pbseqno, prccostper, pricetype, priceupddt, priorltdt, prodline, qtybo, qtycommit, qtydemand, qtyintrans, qtyonhand, qtyonorder, qtyrcvd, qtyreqrcv, qtyreqshp, qtyreservd, qtyunavail, rankfreezefl, rcptuntyd, rebatecost, rebatety, rebsubty, replcost, replcostdt, reservedays, reservety, retinuntyd, retouuntyd, rpt852dt, safeallamt, safealldays, safeallpct, safeallty, safetyfrzfl, seasbegmm, seasendmm, seasonfrzfl, seastrend, seastrendexpdt, seastrendlyu, seastrendmax, seastrendmin, seastrendtyu, smanalfl, so15fl, speccostty, icswstatustype, stndcost, stndcostdt, tariffcd, taxability, taxexbuyfl, taxgroup, taxprice, taxtype, threshrefer, unitbuy, unitcnt, unitconvfl, unitstnd, unitwt, updtsrc, usagectrl, usagerate, user1, user2, user3, user4, user5, user6, user7, user8, user9, usgmths, usmthsfrzfl, vendprod, warlength, warrtype, whserank, wmallocty, wmlfl, wmpriority, wmrestrict

## For ICSEC records:

Set key1 to a valid product code, key2 is blank, updatemode is “chg” and set fieldname and fieldvalue as follows where the first 3 chars of the FieldName are “add” or “del” to add or delete the ICSEC record

| FieldName                                    | FieldValue                                      |
|--|---|
| addxrefbarcode or delxrefbarcode             | <barcode value>                                 |
| addxrefcustomerprod or delxrefcustomerprod   | <custno>,<customer xref prod> (comma separated) |
| addxrefinterchange or delxrefinterchange     | <interchange code>                              |
| addxrefoption or delxrefoption               | <options code>                                  |
| addxrefsub or delxrefsub                     | <substitute>                                    |
| addxrefupgrade or delxrefupgrade             | <upgrade code>                                  |
| addxrefaltvendorprod or delxrefaltvendorprod | <vendno>,<vendor product> (comma separated)     |

As the collection rows are read, the following validation will be performed if the data for that field has been included in the input collection:

| Field Name  | Validation   |
|-------------|--|
| arptype     | Must be “v”, “w”, “c”, “k”, “m”, or “f”                      |
| arpvendno   | Must be defined in the APSV table                            |
| arpwhse     | Must be defined in the ICSD table                            |
| bintype     | If it’s not blank, then it must be defined in the WMST table |
| class       | Must be >= 1 and <= 13                                       |
| famgrptype  | Must be defined in the SASTA table (codeiden = “I”)          |
| frozenmmyy  | Must be a valid month / year                                 |
| frozetype   | Must be defined in the SASTA table (codeiden = “f”)          |
| kitrollty   | Must be blank, “c”, “p”, or “b”                              |
| kitype      | Must be blank, “p”, or “b”, or “m”                           |
| lifocat     | Must be defined in the SASTA table (codeiden = “q”)          |
| nontaxtype  | Must be defined in the SASTA table (codeiden = “n”)          |
| ordcalcty   | Must be “e”, “c”, “m”, “q”, “b”, or “h”                      |
| overreasin  | Must be defined in the SASTA table (codeiden = “o”)          |
| overreasout | Must be defined in the SASTA table (codeiden = “o”)          |
| pbseqno     | Must be “b”, “l”, or “c”                                     |
| pricetype   | Must be defined in the SASTA table (codeiden = “k”)          |
| prodcad     | Must be defined in the SASTA table (codeiden = “c”)          |

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|                |   |
|----------------|---|
| propline       | Must be defined in the ICSL table                   |
| rebatety       | Must be defined in the PDST table (codeiden = "pt") |
| rebsubty       | Must be defined in the PDST table (codeiden = "st") |
| reservety      | Must be blank, "d", "r", or "a"                     |
| seasbegmm      | Must be >= 00 and <= 12                             |
| seasendmm      | Must be >= 00 and <= 12                             |
| serlottype     | Must be blank, "s", or "l"                          |
| slgroup        | Must be defined in the SLST table (codeiden = "sg") |
| speccostty     | Must be a "Y", "T", or "H"                          |
| statustype     | Must be "A", "I", "L", or "S"                       |
| icswstatustype | Must be "D", "O", "S" or "X"                        |
| tariffcd       | Must be defined in the SASGT table                  |
| taxablety      | Must be "y", "n", or "v"                            |
| taxgroup       | Must be >= 0 and <= 5                               |
| unitstock      | Must be non-blank                                   |
| usagectrl      | Must be blank, f,b,t,1,2,3,4,5,6,7,8,9              |
| usgmths        | Must be >= 00 and <= 12                             |
| warrtype       | Must be "m", "d", or "y"                            |
| wmallocty      | Must be blank, "c", or "s"                          |
| wmpriority     | Must be blank, "f", or "p"                          |

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## **API Call:** *sxapiCProdWhseTransfer*

**Purpose:** transfer inventory from one whse to another without a WT transfer. This does a GL and qty adjustment only. This is similar to the ICEW functionality

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| fromWarehouse    | Input/Required | Valid ICSW rec to copy from  |
| toWarehouse      | Input/Required | Non-existent whse to copy to   |
| productCode      | Input/Required | Valid ICSP product   |
| serialLotType    | Input/Optional | Designate S=serial, L=lot, or blank=neither                            |
| quantityShipped  | Input/Optional | Qty to move to whse  |
| unit             | Input/Optional | UOM of transfer  |
| referenceNote    | Input/Optional | Journal note   |
| t-infieldvalue   | Input/optional | Additional data  |
| t-lotdata        | Input/optional | Optional lot data  |
| t-serialdata     | Input/optional | Optional serial data   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| returnData       | Output         | Return Data  |

### **Notes:**

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

| t-lotdata  |         |
|------------|---------|
| Field      | Type    |
| lotno      | string  |
| statustype | string  |
| comment    | string  |
| binloc1    | string  |
| binloc2    | string  |
| selectfl   | boolean |
| quantity   | dec     |
| qtyunavail | dec     |
| opendt     | date    |
| expired    | date    |
| reasunavty | string  |
| user1      | string  |
| user2      | string  |
| user3      | string  |
| user4      | string  |
| user5      | string  |
| user6      | dec     |
| user7      | dec     |
| user8      | date    |
| user9      | date    |

| t-serialdata |         |
|--------------|---------|
| Field        | Type    |
| serialno     | string, |
| receiptdt    | date    |
| comment      | string, |
| binloc       | string, |
| selectfl     | boolean |
| statustype   | string, |
| reasunavty   | string, |
| user1        | string, |
| user2        | string, |
| user3        | string, |
| user4        | string, |
| user5        | string, |
| user6        | 0,      |
| user7        | 0,      |
| user8        | date,   |
| user9        | date    |

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**API Call:** *sxapiCReAllocateProduct*

**Purpose:** Deallocate inventory for a given product

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                    |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)             |
| whse             | Input/Required | The required warehouse   |
| productCode      | Input/Required | The required product   |
| orderNumber      | Input/Optional | The Order# of the line item being operated upon.                           |
| orderSuffix      | Input/Optional | The Order Suffix of the line item being operated upon.                     |
| lineNumber       | Input/Optional | The Line # of the line item being operated upon.                           |
| orderType        | Input/Optional | The Order Type of the line item being operated upon. Must be "OE" or "WT". |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.     |
| returnData       | Output         | Return Data  |

**Notes:**

This API call will work for normal OE and WT line items. Kit components can not be deallocated.

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## **API Call:** *sxapiICWarehouseMnt*

**Purpose:** Maintain ICSD warehouse values – Add and Delete are not supported

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| t-mnt-tt         | Input          | t-mnt-tt Collection  |
| extraParameter   | Input/Optional | Parameter for custom use   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| returnData       | Output         | Return data – shows the results of the update                          |

### **Notes:**

This API call is used for Storeroom ICSD value updates. Add and Del are not supported – only Chg.

The following fields are contained in the t-mnt-tt collection:

| Field Name | Data Type |
|------------|-----------|
| setNo      | Integer   |
| seqNo      | Integer   |
| key1       | Character |
| key2       | Character |
| updateMode | Character |
| fieldName  | Character |
| fieldValue | Character |

All of the records, within the collection, are grouped together by a Set #. Each Set # represents a single operation that will be performed against the CSD system.

The seq # is just a sequential number that forces the collection rows to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “chg”..

The “fieldname” field is the field that will be updated, within the CSD database table (ICSD See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the whse during a “chg” operation.

The “key2” field is blank

Example of a new Product (ICSP) being added:

| set# | seq# | updatemode | key1 | key2 | fieldname | fieldvalue |
|------|------|------------|------|------|-----------|------------|
| 1    | 1    | chg        | main |      | srdept    | xxxxxx     |
| 1    | 2    | chg        | main |      | srproject | zzzzzzz    |

The following is a list of valid “fieldname” values:

srchargeno, srdept, sremmployee, sremployeenam, sremployeenam, srmachine, srproject, srworkorder

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## **API Call:** *sxapiKPeditSerLotList*

**Purpose:** Edits a list of Serial/Lots for Work Order Update (Kit Level)

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                                |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)         |
| t-kpeditlist         | Input          | t-kpeditlist   |
| t-infieldvalue       | Input          | t-infieldvalue   |
| t-list-outeditserlot | Output         | t-list-outeditserlot   |
| t-outfieldvalue      | Output         | t-outfieldvalue  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter. |
| successFlag          | Output         | SuccessFI – Yes if no Errors found                                     |

**Notes:** This is for receiving the serial/lot at the Kit Level only. Serial/Lots at the Component Level are not handled. Deallocate flag is currently always “no” because Storeroom does not allow receiving of a negative kit.

Serial/Lot List Input collection (t-kpeditlist)

| Field Name   | Data Type |                   |
|--------------|-----------|-------------------|
| Serlotty     | char      | required: S or L  |
| Prod         | char      | required          |
| Whse         | char      | required          |
| Serlotno     | char      | required          |
| Seqno        | integer   |                   |
| Deallocatefl | logical   |                   |
| Quantity     | decimal   | required for lots |

Serial/Lot List Output collection (t-list-outeditserlot)

| Field Name | Data Type     |
|------------|---------------|
| Serlotno   | char          |
| Lineno     | integer       |
| Prod       | Product       |
| Errmess    | Error Message |

KP – Positive Quantity – Build (RE transaction)

| Serial at Sale | Serial at Receiving  | Lots   |
|----------------|--|--|
| Not allowed    | Serial# Already Exists (5858)<br>Serial # Allocated to a Different Order(5770) | Cannot Receive into Existing Lot (5909) *based on AO Setting |

KP – Negative Quantity – Deallocate (IN Transaction)

| Serial at Sale | Serial at Receiving   | Lots  |
|----------------|---|---|
| Not allowed    | Serial# Does Not Exist (5776)<br>Serial Number Not Available for Sale (5856)<br>Serial # Allocated to a Different Order(5770) | Lot # Not Set Up – ICSEL (5623)<br>Lot is Not Active (4626)<br>Quantity Cannot Exceed Amount In This Lot (5864) |

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |



# ION API Technical Documentation

## **API Call:** *sxapiKPGetListOfOrders*

**Purpose:** Returns a list of KP work orders based on the criteria entered.

### **Parameters:**

| <i><b>REST Params</b></i> | <i><b>Direction</b></i> | <i><b>Description</b></i>  |
|---------------------------|-------------------------|--|
| companyNumber             | Input/required          | Company #  |
| operatorInit              | Input/required          | SASO operator for the company specified                                |
| operatorPassword          | Input/optional          | SASO operator password (only required if business rule is set)         |
| kitProductCode            | Input                   | Kit Product  |
| componentProductCode      | Input                   | Component Product  |
| warehouse                 | Input                   | Warehouse  |
| beginningStageCode        | Input                   | Begin Stage  |
| endingStageCode           | Input                   | End Stage  |
| beginningEnteredDate      | Input                   | Begin Entered Date   |
| endingEnteredDate         | Input                   | End Entered Date   |
| createdBy                 | Input                   | Created By   |
| statusType                | Input                   | Status Type (Active/Inactive/Blank for All)                            |
| backorderOnlyFlag         | Input                   | BO Only FL (Yes = kept.borefl is yes; No for all)                      |
| sort1                     | Input                   | Sort 1   |
| sort2                     | Input                   | Sort 2   |
| recordLimit               | Input                   | Record Limit (optional 0 = all records)                                |
| t-infieldvalue            | Input                   | t-infieldvalue collection  |
| errorMessage              | Output                  | Error Message  |
| moreRecordsAvailableFlag  | Output                  | More Records Exist   |
| t-kplist                  | Output                  | t-kplist output table  |
| t-outfieldvalue           | Output                  | The "Out Field" collection – for user defined output – t-outfieldvalue |

**Notes:** Runs sxapiKPGetListOfOrders. All security and error checking is handled within these calls. The call will check to see if the user has a minimum security of 2 for KPIW. Cancelled KP Work Orders are not returned.

The Sort 1 and Sort 2 parameters control the sorting of the work orders:

"a" – Kit Product  
 "b" – Warehouse  
 "c" – Enter Date  
 "d" – Stage Code  
 "e" – Status Type  
 Blank – WO/WO Suffix

### **Output Collection:** t-kplist

| <i><b>Field Name</b></i> | <i><b>Data Type</b></i> | <i><b>Data Source</b></i>                   |
|--------------------------|-------------------------|---|
| wono                     | zzzzzz9                 | KP Work Order Number                        |
| wosuf                    | Integer 99              | KP work order                               |
| bofl                     | Logical                 | BO Flkag                                    |
| bono                     | 99                      | Back Order Number                           |
| enterdt                  | 99/99/99                | Date entered                                |
| jrnlno                   | >>>>>>9                 | Journal Number                              |
| linealtno                | >>9                     | Line Alt Number                             |
| notesfl                  | X(1)                    | Indicates if notes exist for the work order |
| orderaltno               | zzzzzzz9                | Alt Order Number                            |
| orderaltsuf              | 99                      | Alt Order Suffix                            |
| ordertype                | x(1)                    | Order Type = P, T, M, O, or W               |

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|             |                  |  |
|-------------|------------------|--|
| prodcats    | x(4)             | Product Category   |
| prodcost    | zzzzzzzz9.99999  | Product Cost   |
| qtyord      | zzzzzzzz9.99999- | Quantity Ordered   |
| qtyhship    | zzzzzzzz9.99999- | Quantity Shipped   |
| refer       | x(24)            | Reference  |
| reqoptfl    | yes/no           | Required Option Flag   |
| requestprod | x(24)            | Requested Product  |
| rrarinit    | x(4)             | RRAR Initials  |
| seqaltno    | xx9              | Alt Sequence Number  |
| serlottype  | x(1)             | Serial Lot Indicator   |
| setno       | >>9              | Set Number   |
| shipprod    | x(24)            | Shipped product (Kit Product)                                      |
| sortfield   | x(8)             | Value of sort field 1 in 1 – 20; value of sort field 2 in 21 – 40. |
| stagecd     | 9                | Stage Code = 1,2,3,4,9   |
| statuscd    | x(1)             | Status Code  |
| statustype  | active/inactive  | Status Type (Active/Inactive)                                      |
| stkqtyord   | zzzzzzzz9.99999- | Stock Quantity Ordered   |
| stkqtyship  | zzzzzzzz9.99999- | Stock Quantity Shipped   |
| unit        | x(4)             | Unit   |
| whse        | x(4)             | Warehouse  |
| user1       | x(78)            | for future expansion   |
| user2       | x(78)            | for future expansion   |
| user3       | x(78)            | for future expansion   |
| user4       | x(78)            | for future expansion   |
| user5       | x(78)            | for future expansion   |
| user6       | zzzzzzzz9.99999- | for future expansion   |
| user7       | zzzzzzzz9.99999- | for future expansion   |
| user8       | 99/99/99         | for future expansion   |
| user9       | 99/99/99         | for future expansion   |
| userfield   | x(8)             | For future expansion   |

| Collection – t-outfieldvalue |           |
|------------------------------|-----------|
| Field                        | Contents  |
| Level                        | Character |
| FieldName                    | Character |
| FieldValue                   | Character |
| LineNo                       | Integer   |
| SeqNo                        | Integer   |

# ION API Technical Documentation

## **API Call:** *sxapiKPGetSingleWorkOrder*

**Purpose:** Returns a single KP work order and its components based on the criteria entered.

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                                   |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)            |
| workOrderNumber    | Input            | WO No   |
| workOrderSuffix    | Input            | WO Suffix   |
| componentSort      | Input            | Component Sort  |
| includeHeader      | Input            | Header Data?  |
| includeComponents  | Input            | Component Data?   |
| t-infieldvalue     | Input            | t-infieldvalue collection   |
| errorMessage       | Output           | Error Message   |
| t-fieldlist        |                  | The t-fieldlist collection – containing header data                       |
| t-kpcompitem       | Output           | t-kpcompitem output table   |
| t-outfieldvalue    | Output           | The “Out Field” collection – for user defined output –<br>t-outfieldvalue |

**Notes:** Runs sxapiKPGetSingleKP. All security and error checking is handled within these calls. The call will check to see if the user has a minimum security of 2 for KPIW. Components defined as “R”eference types are not returned.

The Sort 1 and Sort 2 parameters control the sorting of the components:

“a” – Sort by Sequence No

“b” – Sort by Component Product

“c” – Sort by Description

Blank – Sequence Number Order

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be returned. The following is a list of the possible values (based on the input parameter flags above that control what section of data should be returned):

| <b>Level</b> | <b>Field Name</b> | <b>Field Value</b> |
|--------------|-------------------|--------------------|
| Header       | wono              | kpet.wono          |
| Header       | wosuf             | kpet.wosuf         |
| Header       | bofl              | kpet.bofl          |
| Header       | bono              | kpet.bono          |
| Header       | enterdt           | kpet.enterdt       |
| Header       | jrnlno            | kpet.jrnlno        |
| Header       | linealtno         | kpet.linealtno     |
| Header       | notesfl           | kpet.notesfl       |
| Header       | orderaltno        | kpet.orderaltno    |
| Header       | orderaltsuf       | kpet.orderaltsuf   |
| Header       | ordertype         | kpet.ordertype     |
| Header       | prodcat           | kpet.prodcat       |
| Header       | prodcost          | kpet.prodcost      |
| Header       | qtyord            | kpet.qtyord        |
| Header       | qtyship           | kpet.qtyship       |
| Header       | refer             | kpet.refer         |
| Header       | reqoptfl          | kpet.reqoptfl      |
| Header       | requestprod       | kpet.requestprod   |
| Header       | rrarinit          | kpet.rrarinit      |
| Header       | seqaltno          | kpet.seqaltno      |
| Header       | serlotype         | kpet.serlotype     |

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|        |            |                 |
|--------|------------|-----------------|
| Header | setno      | kpet.setno      |
| Header | shipprod   | kpet.shipprod   |
| Header | stagecd    | kpet.stagecd    |
| Header | statuscd   | kpet.statuscd   |
| Header | statustype | kpet.statustype |
| Header | stkqtyord  | kpet.stkqtyord  |
| Header | stkqtyship | kpet.stkqtyship |
| Header | unit       | kpet.unit       |
| Header | whse       | kpet.whse       |
| Header | user1      | kpet.user1      |
| Header | user2      | kpet.user2      |
| Header | user3      | kpet.user3      |
| Header | user4      | kpet.user4      |
| Header | user5      | kpet.user5      |
| Header | user6      | kpet.user6      |
| Header | user7      | kpet.user7      |
| Header | user8      | kpet.user8      |
| Header | user9      | kpet.user9      |

**Output Collection:** t-kpcompitem

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Source</b>            |
|-------------------|------------------|-------------------------------|
| altwhse           | x(4)             | Alternate Warehouse           |
| arpprodlne        | x(6)             | ARP Product Line              |
| arpvendno         | >>>>>>>>>>9      | ARP Vendor Number             |
| arpwhse           | x(4)             | ARP Warehouse                 |
| commcost          | zzzzzzzz9.99999  | Commission Cost               |
| compboty          | x(1)             | Component BO Type             |
| comptype          | x(1)             | Component Type c,o,g,k, or r  |
| custno            | zzzzzzzzzz9      | Customer Number               |
| glcost            | zzzzzzzz9.99999- | GL Cost                       |
| groupoptname      | x(24)            | Group Component loaded from   |
| instructions      | x(55)            | Instructions                  |
| lineno            | >>>9             | Line Number                   |
| linealtno         | >>9              | Line Alt Number               |
| orderno           | zzzzzzzz9        | WO Order Number               |
| ordersuf          | 99               | WO Order Suffix               |
| ordertype         | x(1)             | Order Type = O,B,T or W       |
| orderaltno        | zzzzzzzz9        | Alternate Order Number        |
| orderalttype      | x(1)             | Order Alternate Type = T or P |
| price             | zzzzzzzz9.99     | Price                         |
| pricetype         | x(4)             | Price Type                    |
| processtatfl      | yes/no           | Processed through KPEA        |
| prodcats          | x(4)             | Product Category              |
| prodcost          | zzzzzzzz9.99999  | Product Cost                  |
| proddesc          | x(24)            | Product Description Field 1   |
| prodsc2           | x(24)            | Product Description Field 2   |
| qtfmrcvs          | zzzzzzzz9.99     | Quantity From Receivers       |
| qtnneeded         | zzzzzzzz9.99-    | Quantity Needed               |
| qtyord            | zzzzzzzz9.99-    | Quantity Ordered              |
| qtyreservd        | zzzzzzzz9.99     | Quantity Reserverd            |
| qtyship           | zzzzzzzz9.99-    | Quantity Shipped              |
| refer             | x(24)            | Reference                     |
| reqfl             | yes/no           | Required Flag                 |
| reqprod           | x(24)            | Requested Product             |

# ION API Technical Documentation

|            |                  |  |
|------------|------------------|--|
| seqno      | zz9              | Sequence Number                                |
| serlottype | x(1)             | Serial/Lot Indicator                           |
| shipprod   | x(24)            | Shipped Product                                |
| shipto     | x(8)             | Ship To  |
| sortfield  | x(8)             | Value of the sort field                        |
| specnstype | x(1)             | Special/NS Indicator                           |
| statustype | x(1)             | Status Type a-active;c-cancelled;i-invoice     |
| stkqtyord  | zzzzzzzz9.99-    | Stock Quantity Ordered                         |
| stkqtyship | zzzzzzzz9.99-    | Stock Quantity Shipped                         |
| subfl      | yes/no           | Sub Allowed Flag                               |
| unit       | x(4)             | Unit   |
| variablefl | yes/no           | Variable Flag – quantity needed can be changed |
| whse       | x(4)             | Warehouse                                      |
| user1      | x(78)            | for future expansion                           |
| user2      | x(78)            | for future expansion                           |
| user3      | x(78)            | for future expansion                           |
| user4      | x(78)            | for future expansion                           |
| user5      | x(78)            | for future expansion                           |
| user6      | zzzzzzzz9.99999- | for future expansion                           |
| user7      | zzzzzzzz9.99999- | for future expansion                           |
| user8      | 99/99/99         | for future expansion                           |
| user9      | 99/99/99         | for future expansion                           |
| userfield  | x(8)             | For future expansion                           |

| Collection – t-outfieldvalue |           |
|------------------------------|-----------|
| Field                        | Contents  |
| Level                        | Character |
| FieldName                    | Character |
| FieldValue                   | Character |
| LineNo                       | Integer   |
| SeqNo                        | Integer   |

# ION API Technical Documentation

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**API Call:** *sxapiOEBatchHeaderCreate*

**Purpose:** Create a new OE Batch Header record.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified                                  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)           |
| batchName             | Input/Required | The required OE Batch Name   |
| customerNumber        | Input/Required | The required Customer #  |
| shipTo                | Input/Optional | Ship To (optional)   |
| whse                  | Input/Required | The required Warehouse   |
| customerPurchaseOrder | Input/Optional | Customer PO # (optional, unless it's required by the customer)           |
| transactionType       | Input/Required | Transaction Type. Must be SO,QU,FO,CR,or RM                              |
| errorMessage          | output         | Error message – Any error messages will be returned in this parameter.   |
| sequenceNumber        | Output         | The Sequence # that was created as part of the OE Batch Header creation. |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiOEBatchHeaderUpdate*

**Purpose:** Update an existing OE Batch Header record.

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                                   |
| batchName             | Input/Required | The required OE Batch Name   |
| sequenceNumber        | Input/Required | The required Sequence #  |
| customerNumber        | Input/Required | The required Customer # - to be used for updating the OE Batch Header record.                    |
| shipTo                | Input/Optional | Ship To – to be used for updating the OE Batch Header record (optional).                         |
| whse                  | Input/Required | The required Warehouse – to be used for updating the OE Batch Header record.                     |
| customerPurchaseOrder | Input/Optional | Customer PO # - to be used for updating the OE Batch Header record.                              |
| transactionType       | Input/Required | Transaction Type – to be used for updating the OE Batch Header record. Must be SO,QU,FO,CR,or RM |
| errorMessage          | output         | Error message – Any error messages will be returned in this parameter.                           |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiOEBatchLineProcess*

**Purpose:** Create / Update an OE Batch Line Item record.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| batchName        | Input/Required | The required OE Batch Name   |
| sequenceNumber   | Input/Required | The required Sequence #  |
| lineNumber       | Input/Required | The required Line #  |
| updateMode       | Input/Required | Update Mode – “add”, “chg”, or “del”                                   |
| errorMessage     | output         | Error message – Any error messages will be returned in this parameter. |

**Notes:**



# ION API Technical Documentation

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**API Call:** *sxapiOEBillWTOrder*

**Purpose:** Auto Bill a Warehouse Transfer Order for Alternate Warehouse

**Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified                                |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)         |
| warehouseTransferNumber | Input          | Warehouse Transfer Number  |
| warehouseTransferSuffix | Input          | Warehouse Transfer Suffix  |
| orderNumber             | Output         | Billing Order Number   |
| orderSuffix             | Output         | Billing Order Suffix   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter. |

# ION API Technical Documentation

**API Call:** *sxapiOECashDrawer*

**Purpose:** Cash Drawer

**Parameters:**

| REST Params        | Direction      | Description  |
|--------------------|----------------|--|
| companyNumber      | Input/required | Company #  |
| operatorInit       | Input/required | SASO operator for the company specified                                |
| operatorPassword   | Input/optional | SASO operator password (only required if business rule is set)         |
| drawerId           | Input/required | Drawer id  |
| warehouse          | Input/required | warehouse  |
| transactionType    | Input/required | Must be valid SASTT "petty cash trans" code                            |
| amount             | Input/required | amount   |
| postdt             | input          | Posting date   |
| toOperatorInitials | input          |  |
| comment            | input          |  |
| t-infieldvalue     | input          | Array for additional input values                                      |
| errorMessage       | Output         | Error message – Any error messages will be returned in this parameter. |
| t-messages         | output         | Message array  |
| t-outfieldvalue    | output         | Array for additional output value                                      |

**Notes:**

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

# ION API Technical Documentation

**API Call:** *sxapiOECalcFreightRate***Purpose:** Calculate a freight rate shopping amount**Parameters:**

| REST Params         | Direction      | Description  |
|---------------------|----------------|--|
| companyNumber       | Input/required | Company #  |
| operatorInit        | Input/required | SASO operator for the company specified                                |
| operatorPassword    | Input/optional | SASO operator password (only required if business rule is set)         |
| includeRateShopping | Input          | Rate Shopping Flag   |
| whse                | Input          | Optional Whse  |
| shipVia             | Input          | Optional Ship Via  |
| postalCode          | Input          | Zip Code   |
| orderWeight         | Input          | Order Weight   |
| shipWeight          | Input          | Shipping Weight  |
| orderFreightExtra1  | Input          | Order Freight Extra 1  |
| orderFreightExtra2  | Input          | Order Freight Extra 2  |
| shipFreightExtra1   | Input          | Shipping Freight Extra 1   |
| shipFreightExtra2   | Input          | Shipping Freight Extra 2   |
| t-frtrateshop       | Output         | The output collection "t-frtrateshop"                                  |
| errorMessage        | Output         | Error message – Any error messages will be returned in this parameter. |

The output collection "t-frtrateshop" contains the following fields:

| Field Name    | Data Type |
|---------------|-----------|
| cono          | integer   |
| whse          | character |
| shipvia       | character |
| shipviadesc   | character |
| zone          | character |
| overmaxrate   | decimal   |
| orderwghtlim  | decimal   |
| shipwghtlim   | decimal   |
| orderwght     | decimal   |
| shipwght      | decimal   |
| orderfrt      | decimal   |
| shipfrt       | decimal   |
| ordfrtextra1  | decimal   |
| ordfrtextra2  | decimal   |
| shipfrtextra1 | decimal   |
| shipfrtextra2 | decimal   |
| xxc1          | character |

# ION API Technical Documentation

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**API Call:** *sxapiOECalcFreightWeight*

**Purpose:** Calculate the freight rate shopping amount for a given OE order

**Parameters:**

| REST Params        | Direction      | Description  |
|--------------------|----------------|--|
| companyNumber      | Input/required | Company #  |
| operatorInit       | Input/required | SASO operator for the company specified                                |
| operatorPassword   | Input/optional | SASO operator password (only required if business rule is set)         |
| orderNumber        | Input/Required | The required Order #   |
| orderSuffix        | Input/Required | The required Order Suffix  |
| whse               | Output         | The optional whse  |
| shipVia            | Output         | The optional ship via  |
| postalCode         | Output         | The optional zip code  |
| orderWeight        | Output         | The Order Weight   |
| shipWeight         | Output         | The Shipping Weight  |
| orderFreightExtra1 | Output         | The Order Freight Extra 1  |
| orderFreightExtra2 | Output         | The Order Freight Extra 2  |
| shipFreightExtra1  | Output         | The Shipping Freight Extra 1   |
| shipFreightExtra2  | Output         | The Shipping Freight Extra 2   |
| errorMessage       | Output         | Error message – Any error messages will be returned in this parameter. |

**Notes:**

# ION API Technical Documentation

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**API Call:** ***sxapiOEConvertBatchOrder***

**Purpose:** Convert an existing OE Batch order to a live order.

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                  |
| batchName        | Input/Required | The required OE Batch Name  |
| sequenceNumber   | Input/Required | The required Sequence #   |
| deleteFlag       | Input/Required | Delete Flag – Should the OE Batch Order be deleted after the conversion process |
| errorMessage     | output         | Error message – Any error messages will be returned in this parameter.          |
| orderNumber      | Output         | The New OE order #  |
| orderSuffix      | Output         | The New OE order suffix   |
| sxt_func_ack     | Output         | The sxt_func_ack collection   |
| sxapi_oehdr      | Output         | The sxapi_oehdr collection  |
| sxapi_oeitm      | Output         | The sxapi_oeitm collection  |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiOECreateBatchName*

**Purpose:** Create a new batch name for OE Batch Orders.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                         |
| batchName        | Input/Required | The required OE Batch Name to be created. This cannot already be on file (SABS record) |
| Description      | Input/required | Description  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                 |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiOECreditApproval*

**Purpose:** This API call is used to approve the hold or place on hold when using normal hold functionality a given OE order. Operation Hold Code functionality only allows for approve with security.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| orderNumber      | Input/Required | Order # - The required OE order # to operate upon.   |
| orderSuffix      | Input/Required | Order Suffix – The required OE order suffix.   |
| approvalType     | Input/Required | <p>The approval code to be used. If approving the order, pass “y”. If placing the order on hold, pass any other character (typically “h”).</p> <p>Operation Hold Code Usage: Pass a comma delimited list including a “Y”. SASO operator must have Operational Hold Code Security for each hold type.</p> <p>Due to the complexity of Operational Hold Codes, a separate child table OEEHCH, and SASO security with multiple holds allowed this SXAPI will only allow approval of Hold Codes and not maintenance - Add/Change/Delete.</p> <p>Example: “c,h,y”</p> |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |

**Notes:**

# ION API Technical Documentation

**API Call:** *sxapiOEEEditSerLotList*

**Purpose:** Edits a list of Serial/Lots for Order Entry

**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                                |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)         |
| t-oeditlist          | Input          | t-oeditlist  |
| t-infieldvalue       | Input          | t-infieldvalue   |
| t-list-outeditserlot | Output         | t-list-outeditserlot   |
| t-outfieldvalue      | Output         | t-outfieldvalue  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter. |
| successFlag          | Output         | SuccessFI – Yes if no Errors found                                     |

**Notes:**

Serial at Sale Products – Serials are initially created on the order so the serial must not exist with any status.

Serial at Receiving Products – Serials are created at receiving so it must exist and be available in order to be used.

Lot Products – Lots are created at receiving so an active lot must exist and have enough quantity available.

Returns – If the original order is passed, it will verify that the serial/lot was sold on that order. Otherwise, it the serial/lot must be sold.

Serial/Lot List Input collection (t-oeditlist)

| Field Name  | Data Type |                               |
|-------------|-----------|-------------------------------|
| Serlotty    | char      | required: S or L              |
| Prod        | char      | required                      |
| Whse        | char      | required                      |
| Serlotno    | char      | required                      |
| Lineno      | integer   | required                      |
| Returnfl    | logical   | yes or no                     |
| Quantity    | decimal   | required for lots             |
| RetOrderNo  | integer   | optional for returns, if tied |
| RetOrderSuf | integer   | optional for returns, if tied |
| RetLineNo   | integer   | optional for returns, if tied |
| RetSeqNo    | integer   | optional for returns, if tied |

Serial/Lot List Output collection (t-list-outeditserlot)

| Field Name | Data Type     |
|------------|---------------|
| Serlotno   | char          |
| Lineno     | integer       |
| Prod       | Product       |
| Errmess    | Error Message |

OE - Sales Order

| Serial at Sale                              | Serial at Receiving   | Lots  |
|---|---|---|
| Serial Number Not Available for Sale (5856) | Serial # Not Set Up – ICSES (4622)<br>Serial Number Not Available for Sale (5856) | Lot # Not Set Up – ICSEL (5623)<br>Lot is Not Active (4626)<br>Quantity Cannot Exceed Amount In This Lot (5864) |

OE - Return Order

| Serial at Sale                     | Serial at Receiving                | Lots                            |
|------------------------------------|------------------------------------|---------------------------------|
| Serial # Not Set Up – ICSES (4622) | Serial # Not Set Up – ICSES (4622) | Lot # Not Set Up – ICSEL (5623) |



# ION API Technical Documentation

|  |  |  |
|--|--|--|
| Serial # Not Assigned to an Invoice, Cannot Return (5775)<br>Serial# Does Not Belong to the Invoice# Returned Against (6061) | Serial # Not Assigned to an Invoice, Cannot Return (5775)<br>Serial# Does Not Belong to the Invoice# Returned Against (6061) | Lot# Does Not Belong to the Invoice# Being Returned Against (6069)<br>Cannot Return More Than the Quantity on the Original Invoiced Lot (6062) |
|--|--|--|

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

# ION API Technical Documentation

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**API Call:** *sxapiOEFullOrderMnt*

**Purpose:** Create an OE order.

**Notes:** DO NOT use this version, please use latest version of the “sxapiOEFullOrderMntV6” call series instead

**API Call:** *sxapiOEFullOrderMntV2*

**Purpose:** Create an OE order.

**Notes:** DO NOT use this version, please use latest version of the “sxapiOEFullOrderMntV6” call series instead

**API Call:** *sxapiOEFullOrderMntV3*

**Purpose:** Create an OE order.

**Notes:** DO NOT use this version, please use latest version of the “sxapiOEFullOrderMntV6” call series instead

**API Call:** *sxapiOEFullOrderMntV4*

**Purpose:** Create an OE order.

**Notes:** DO NOT use this version, please use latest version of the “sxapiOEFullOrderMntV6” call series instead

**API Call:** *sxapiOEFullOrderMntV5*

**Purpose:** Create an OE order.

**Notes:** DO NOT use this version, please use latest version of the “sxapiOEFullOrderMntV6” call series instead

# ION API Technical Documentation

## **API Call:** *sxapiOEFullOrderMntV6*

**Purpose:** Create an OE order.

### **Parameters:**

| REST Params        | Direction      | Description   |
|--------------------|----------------|---|
| companyNumber      | Input/required | Company #   |
| operatorInit       | Input/required | SASO operator for the company specified   |
| operatorPassword   | Input/optional | SASO operator password (only required if business rule is set)                                      |
| sxt_orderV4        | Input/Required | The "sxt_orderV4" array. This contains a single record that is required.                            |
| sxt_customer       | Input/Optional | The "Incustomer" array. This contains a single record that is required.                             |
| sxt_itemV4         | Input/Required | The "sxt_itemV4" array. This contains multiple records (one for each OE line item to be processed). |
| sxt_shipfm         | Input/Optional | The "InshipFrom" array. This contains a single record that is optional.                             |
| sxt_shipto         | Input/Optional | The "InshipTo" array. This contains a single record that is optional.                               |
| sxt_billto         | Input/Optional | The "Inbillto" array. This table is not used (see below).   |
| sxt_terms          | Input/Optional | The "Interms" array. This contains a single record that is optional.                                |
| sxt_schedule       | Input/Optional | The "Inschedule" array. This table is not used.   |
| sxt_total          | Input/Optional | The "Intotal" array. This contains a single record that is optional.                                |
| sxt_header_extra   | Input/Optional | The "sxt_header_extra" array.   |
| sxt_line_extra     | Input/Optional | The "sxt_line_extra" array  |
| sxt_line_component | Input/Optional | The "Inlinecomponent" array   |
| sxt_func_ack       | Output         | The "Outacknowledgement" array. This contains any warnings or errors.                               |
| sxapi_oehdr        | Output         | The "Outheader" array. This contains the output EDI header level acknowledgement information.       |
| sxapi_oeitm        | Output         | The "Outitem" array. This contains the output EDI line item level acknowledgement information.      |

### **Notes:**

The input data to this API call is a series of arrays. These arrays simulate the EDI flat file structure for the 850 inbound purchase order. Many of the detail records in the EDI flat file layout directly correspond to one of the input arrays.

In some cases, an entire array is not actually used since there is no business logic in this SXAPI call that accesses the fields within the array and uses this data to create the OE order.

The following is a list of the arrays, fields and their purposes:

| Table       | Field Name       | Purpose  |
|-------------|------------------|--|
| sxt_orderV4 | actionType       | A new OE order will be created.. Must be the following values: "original" or "confirm" (see note below). |
| sxt_orderV4 | Attention        | <No reference>   |
| sxt_orderV4 | batchNm          | Used to create EDIH, EDILI records for EDI processing  |
| sxt_orderV4 | boFI             | "y" or "n" to allow back orders or not   |
| sxt_orderV4 | Buyer            | Used to assign the OE header "placedby" field  |
| sxt_orderV4 | cancelDt         | Used to assign the OE header "canceledt" field and EDIH record   |
| sxt_orderV4 | confirmFI        | <No reference>   |
| sxt_orderV4 | coNo             | DO NOT USE   |
| sxt_orderV4 | contractNr       | Use sxt_header_extra instead   |
| sxt_orderV4 | correlation_data | Sent back in the Outacknowledgement record   |
| sxt_orderV4 | currencyCd       | <No reference>   |
| sxt_orderV4 | direction        | <No reference>   |
| sxt_orderV4 | expShipDt        | <No reference>   |
| sxt_orderV4 | fobDesc          | <No reference>   |
| sxt_orderV4 | fobFI            | <No reference>   |

# ION API Technical Documentation

|             |           |  |
|-------------|-----------|--|
| sxt_orderV4 | Notes     | Used for internal notes. See notes instructions below  |
| sxt_orderV4 | operInit  | DO NOT USE   |
| sxt_orderV4 | orderdisp | Used to assign the OE header “orderdisp” field   |
| sxt_orderV4 | orderNo   | The TT record is updated with g-orderno, but since it’s input – it doesn’t go anywhere   |
| sxt_orderV4 | orderSuf  | The TT record is updated with g-ordersuf, but since it’s input – it doesn’t go anywhere  |
| sxt_orderV4 | partnerId | Used to locate an ARSS or ARSC record using arss.edipartner or arsc.edipartner   |
| sxt_orderV4 | poIssueDt | Assigns oeeh.poissdt   |
| sxt_orderV4 | poNo      | Used to assign the OE header “custpo” field and other references   |
| sxt_orderV4 | poSuf     | <No reference>   |
| sxt_orderV4 | promiseDt | Used to assign the OE header “promisedt” field   |
| sxt_orderV4 | refer     | Used to assign the OE header “refer” field and EDIH record   |
| sxt_orderV4 | releaseNr | <No reference>   |
| sxt_orderV4 | reqShipDt | Used to assign the OE header “reqshipdt” field and EDIH record   |
| sxt_orderV4 | rushFl    | <No reference>   |
| sxt_orderV4 | shipInstr | Used to assign the OE header “shipinstr” field   |
| sxt_orderV4 | shipVia   | Used to assign the OE header “shipvia” – either based on sasta.codeval or sasta.descrip  |
| sxt_orderV4 | subFl     | <No reference>   |
| sxt_orderV4 | transType | Used to assign the OE header “transtype” field and EDIH record. Must be DO, SO, QU, FO – or the order will go on eHold (see below) |
| sxt_orderV4 | user1     | User defined field   |
| sxt_orderV4 | user2     | User defined field . Also used for DocFrom and EDIH record   |
| sxt_orderV4 | user3     | User defined field   |
| sxt_orderV4 | user4     | User defined field   |
| sxt_orderV4 | whse      | Used in the logic to establish the whse  |
| sxt_orderV4 | user5     | User defined field   |
| sxt_orderV4 | user6     | User defined field   |
| sxt_orderV4 | user7     | User defined field   |
| sxt_orderV4 | user8     | User defined field   |
| sxt_orderV4 | user9     | User defined field (user10-24 are assigned using sxt_header_extra)   |
| sxt_orderV4 | taxfl     | Used to assign the OE header “taxablefl” if it’s a “y” or “n” and used for EDIH record   |
| sxt_orderV4 | fpcustno  | Used to assign the OE header “fpcustno” field  |
| sxt_orderV4 | approvty  | Not used – use the “default approval type” in SASBR to set a default   |
| sxt_orderV4 | lostbusty | Currently not used   |
| sxt_orderV4 | slsrepin  | Used to assign the OE header “slsrepin” field  |
| sxt_orderV4 | slsrepout | Used to assign the OE header “slsrepout” field   |
| sxt_orderV4 | takenby   | Used to assign the OE header “takenby” field   |
| sxt_orderV4 | addnamt1  | Used to assign the OE header “Addon” #1 fields.  |
| sxt_orderV4 | addnamt2  | Used to assign the OE header “Addon” #2 fields.  |
| sxt_orderV4 | addnamt3  | Used to assign the OE header “Addon” #3 fields.  |
| sxt_orderV4 | addnamt4  | Used to assign the OE header “Addon” #4 fields.  |
| sxt_orderV4 | addonno1  | Use valid SASTO number for OE header “Addon” #1 fields.  |
| sxt_orderV4 | addonno2  | Use valid SASTO number for OE header “Addon” #2 fields.  |
| sxt_orderV4 | addonno3  | Use valid SASTO number for OE header “Addon” #3 fields.  |
| sxt_orderV4 | addonno4  | Use valid SASTO number for OE header “Addon” #4 fields.  |

# ION API Technical Documentation

|             |                |   |
|-------------|----------------|---|
| sxt_orderV4 | addontype1     | Use "\$" or "%" for OE header "Addon" #1 fields.      |
| sxt_orderV4 | addontype2     | Use "\$" or "%" for OE header "Addon" #2 fields.      |
| sxt_orderV4 | addontype3     | Use "\$" or "%" for OE header "Addon" #3 fields.      |
| sxt_orderV4 | addontype4     | Use "\$" or "%" for OE header "Addon" #4 fields.      |
| sxt_orderV4 | addontaxgroup1 | Currently not used                                    |
| sxt_orderV4 | addontaxgroup2 | Currently not used                                    |
| sxt_orderV4 | addontaxgroup3 | Currently not used                                    |
| sxt_orderV4 | addontaxgroup4 | Currently not used                                    |
| sxt_orderV4 | billdt         | Currently not used                                    |
| sxt_orderV4 | contactid      | Use sxt_header_extra instead                          |
| sxt_orderV4 | crreasonty     | Update oeeh.crreasonty when transtype = cr or rm      |
| sxt_orderV4 | currencyty     | Currently not used                                    |
| sxt_orderV4 | divno          | Currently not used – assigned by logic                |
| sxt_orderV4 | drdeldt        | Currently not used                                    |
| sxt_orderV4 | drdeltm        | Currently not used                                    |
| sxt_orderV4 | drholdfl       | Currently not used                                    |
| sxt_orderV4 | dwnpmtamt      | Currently not used                                    |
| sxt_orderV4 | geocd          | Use sxt_header_extra instead                          |
| sxt_orderV4 | inbndfrtfl     | Currently not used                                    |
| sxt_orderV4 | jobno          | Currently not used                                    |
| sxt_orderV4 | langcd         | Currently not used                                    |
| sxt_orderV4 | lockfl         | Used to set the OE header for FO only                 |
| sxt_orderV4 | longltdays     | Currently not used                                    |
| sxt_orderV4 | lumpbillamt    | Use sxt_header_extra instead                          |
| sxt_orderV4 | lumpbillfl     | Use sxt_header_extra instead                          |
| sxt_orderV4 | lumppricefl    | Use sxt_header_extra instead                          |
| sxt_orderV4 | nontaxtype     | Currently not used – derived from ARSC/ARSS           |
| sxt_orderV4 | outbndfrtfl    | Currently not used - derived from ARSC/ARSS           |
| sxt_orderV4 | payamt1        | Currently not used                                    |
| sxt_orderV4 | payamt2        | Currently not used                                    |
| sxt_orderV4 | payamt3        | Currently not used                                    |
| sxt_orderV4 | pickprtl       | Use sxt_header_extra instead                          |
| sxt_orderV4 | pricecd        | Currently not used                                    |
| sxt_orderV4 | printpckfl     | Currently not used                                    |
| sxt_orderV4 | printpricefl   | Currently not used                                    |
| sxt_orderV4 | pstlicenseno   | Sets oeeh.pstlicenseno                                |
| sxt_orderV4 | psttaxamt      | Currently not used                                    |
| sxt_orderV4 | route          | Used to set oeeh.route                                |
| sxt_orderV4 | sourcepros     | Not Used. Determined by program logic.                |
| sxt_orderV4 | specdiscamt    | Currently not used                                    |
| sxt_orderV4 | stagearea      | Currently not used                                    |
| sxt_orderV4 | statecd        | Currently not used – assigned by logic                |
| sxt_orderV4 | storddays      | Currently not used                                    |
| sxt_orderV4 | stordty        | Currently not used                                    |
| sxt_orderV4 | taxauth        | Can be used to override taxing though not recommended |
| sxt_orderV4 | taxdefltty     | Currently not used                                    |
| sxt_orderV4 | tendamt        | Use sxt_header_extra instead. See notes below.        |
| sxt_orderV4 | termsdiscamt   | Currently not used                                    |
| sxt_orderV4 | termslinefl    | Currently not used                                    |

# ION API Technical Documentation

|              |              |  |
|--------------|--------------|--|
| sxt_orderV4  | termspct     | Currently not used   |
| sxt_orderV4  | updtype      | Currently not used   |
| sxt_orderV4  | wodeftype    | Currently not used   |
| sxt_orderV4  | wodiscamt    | Used to set the OE header whole order discount. If the amount is to be a dollar amount, pass that amount in this field and "\$" in the wodisctype field. |
| sxt_orderV4  | wodiscpct    | Used to set the OE header whole order discount. If the amount is to be a percent, pass that percent in this field and "%" in the wodisctype field.       |
| sxt_orderV4  | wodisctype   | Used to set the OE header whole order discount.type "%" or "\$"  |
| sxt_orderV4  | writeoffamt  | Currently not used   |
| sxt_orderV4  | zone         | Currently not used   |
|              |              |  |
| sxt_customer | address1     | <No reference>   |
| sxt_customer | address2     | <No reference>   |
| sxt_customer | city         | <No reference>   |
| sxt_customer | contact      | <No reference>   |
| sxt_customer | countryCd    | <No reference>   |
| sxt_customer | custNo       | Used to set customer number  |
| sxt_customer | dunsNr       | <No reference>   |
| sxt_customer | name         | <No reference>   |
| sxt_customer | phone        | <No reference>   |
| sxt_customer | postalCd     | <No reference>   |
| sxt_customer | state        | <No reference>   |
| sxt_customer | user1        | <No reference>   |
| sxt_customer | user2        | <No reference>   |
|              |              |  |
| sxt_itemV4   | buyerProd    | Updated using the ICSEC customer product. The API will find the sxe product  |
| sxt_itemV4   | descrip      | Used for non-stock description and comment data and EDIL record  |
| sxt_itemV4   | dueDt        | <No reference>   |
| sxt_itemV4   | expShipDt    | <No reference>   |
| sxt_itemV4   | lineComments | Used to create a line comment and EDIL record  |
| sxt_itemV4   | lineIden     | Sequences the array records as they're processed and EDIL record   |
| sxt_itemV4   | promisedt    | Detail level promise date  |
| sxt_itemV4   | qtyOrd       | Detail level qtyord  |
| sxt_itemV4   | qtyUom       | Detail level unit  |
| sxt_itemV4   | reqShipDt    | Detail level req ship date   |
| sxt_itemV4   | sellerProd   | Used to update the sxe product code  |
| sxt_itemV4   | specPriceUom | <No reference>   |
| sxt_itemV4   | sxLineNo     | Logic updates this to be the actual SX line#, but since it's passed as input doesn't go anywhere.  |
| sxt_itemV4   | unitCost     | Used to override oeel.price. Must also set override permissions  |
| sxt_itemV4   | upc          | Used to enter the upc code or the interchange product value  |
| sxt_itemV4   | user1        | Sets oeeh.user1  |
| sxt_itemV4   | user10       | Not used   |
| sxt_itemV4   | user2        | Sets oeeh.user2  |
| sxt_itemV4   | user3        | Sets oeeh.user3  |
| sxt_itemV4   | user4        | Sets oeeh.user4  |
| sxt_itemV4   | user5        | Sets oeeh.user5  |
| sxt_itemV4   | user6        | Sets oeeh.user6  |

# ION API Technical Documentation

|            |                 |   |
|------------|-----------------|---|
| sxt_itemV4 | user7           | Sets oeeh.user7   |
| sxt_itemV4 | user8           | Sets oeeh.user8   |
| sxt_itemV4 | user9           | Sets oeeh.user9   |
| sxt_itemV4 | taxfl           | Detail level taxable type   |
| sxt_itemV4 | botype          | Currently not used  |
| sxt_itemV4 | Ordertype       | "p" to create a PO tie, "t" to create a WT tie  |
| sxt_itemV4 | orderaltno      | Currently not used  |
| sxt_itemV4 | printpricefl    | Currently not used  |
| sxt_itemV4 | Prodcat         | Valid product category which is required for a non-stock line   |
| sxt_itemV4 | Prodline        | Valid product line used with a non-stock line   |
| sxt_itemV4 | Prodcost        | Used to establish the line item cost (non-stock only)   |
| sxt_itemV4 | specnstype      | Used to establish the line item "Special Non-Stock" field (currently only allows blank or "N" for a non-stock |
| sxt_itemV4 | Subtotalfl      | Currently not used  |
| sxt_itemV4 | Usagefl         | Currently not used  |
| sxt_itemV4 | Vendno          | Vendor number used with non-stock   |
| sxt_itemV4 | Discamt         | Used to establish the line item Discount Amount   |
| sxt_itemV4 | Disctype        | True indicates that Discamt contains a dollar amt discount  |
| sxt_itemV4 | advertisingcode | Currently not used  |
| sxt_itemV4 | Altwhse         | Used for WT Ties  |
| sxt_itemV4 | arpprodline     | Used to tied orders   |
| sxt_itemV4 | arpvendno       | Used for PO tie   |
| sxt_itemV4 | binloc          | Currently not used  |
| sxt_itemV4 | commtype        | Currently not used  |
| sxt_itemV4 | corecharge      | Currently not used  |
| sxt_itemV4 | Corechgty       | Currently not used  |
| sxt_itemV4 | Corertnty       | Currently not used  |
| sxt_itemV4 | crreasonty      | Currently not used  |
| sxt_itemV4 | disccd          | Currently not used  |
| sxt_itemV4 | jobno           | Currently not used  |
| sxt_itemV4 | leadtm          | Currently not used  |
| sxt_itemV4 | linealtno       | Used for line item tie  |
| sxt_itemV4 | Lostbustty      | Detail level Lost Business Type   |
| sxt_itemV4 | nontaxtype      | Used to indicate a non tax type   |
| sxt_itemV4 | pdrecno         | Currently not used  |
| sxt_itemV4 | pricecd         | Currently not used  |
| sxt_itemV4 | priceclty       | Currently not used  |
| sxt_itemV4 | pricecostty     | Currently not used  |
| sxt_itemV4 | pricetype       | Currently not used  |
| sxt_itemV4 | printpckfl      | Currently not used  |
| sxt_itemV4 | qtyunavail      | Currently not used  |
| sxt_itemV4 | reasunavty      | Currently not used  |
| sxt_itemV4 | reqprod         | Currently not used  |
| sxt_itemV4 | restockfl       | Currently not used  |
| sxt_itemV4 | returnfl        | Currently not used  |
| sxt_itemV4 | returnty        | Currently not used  |
| sxt_itemV4 | rushfl          | Currently not used  |
| sxt_itemV4 | salesterr       | Currently not used  |
| sxt_itemV4 | slsrepin        | Currently not used  |

# ION API Technical Documentation

|            |              |   |
|------------|--------------|---|
| sxt_itemV4 | slsrepout    | Currently not used  |
| sxt_itemV4 | subtotaldesc | Currently not used  |
| sxt_itemV4 | tariffcd     | Currently not used  |
| sxt_itemV4 | termsspct    | Currently not used  |
| sxt_itemV4 | wodiscamt1   | Currently not used  |
| sxt_itemV4 | wodiscamt2   | Currently not used  |
| sxt_itemV4 | xrefprodty   | Currently not used  |
|            |              |   |
| sxt_shipfm | address1     | <No reference>  |
| sxt_shipfm | address2     | <No reference>  |
| sxt_shipfm | city         | Used to locate an ICSD record matching icsd.state and icsd.city |
| sxt_shipfm | contact      | <No reference>  |
| sxt_shipfm | countryCd    | <No reference>  |
| sxt_shipfm | dunsNr       | <No reference>  |
| sxt_shipfm | name         | Used to locate an ICSD record matching icsd.name                |
| sxt_shipfm | phone        | Used to locate an ICSD record matching icsd.phoneno             |
| sxt_shipfm | postalCd     | Used to locate an ICSD record matching icsd.zipcd               |
| sxt_shipfm | shipFmNo     | <No reference>  |
| sxt_shipfm | state        | Used to locate an ICSD record matching icsd.state and icsd.city |
| sxt_shipfm | user1        | <No reference>  |
| sxt_shipfm | user2        | <No reference>  |
|            |              |   |
| sxt_shipto | address1     | Used to assign the OE header “shiptoaddr[1]” field              |
| sxt_shipto | address2     | Used to assign the OE header “shiptoaddr[2]” field              |
| sxt_shipto | city         | Used to assign the OE header “shiptocity” field                 |
| sxt_shipto | contact      | Use sxt_header_extra instead                                    |
| sxt_shipto | countryCd    | Used to assign the OE header “countrycd” field                  |
| sxt_shipto | dunsNr       | <No reference>  |
| sxt_shipto | name         | Used to assign the OE header “shiptonm” field                   |
| sxt_shipto | phone        | <No reference>  |
| sxt_shipto | postalCd     | Used to assign the OE header “shiptozipcd” field                |
| sxt_shipto | shipToNo     | Used to establish ARSS Ship To record instead of address info   |
| sxt_shipto | state        | Used to assign the OE header “shiptost” field                   |
| sxt_shipto | user1        | <No reference>  |
| sxt_shipto | user2        | <No reference>  |
|            |              |   |
| sxt_billto | address1     | <No reference – entire table>                                   |
| sxt_billto | address2     | <No reference – entire table>                                   |
| sxt_billto | billToNo     | <No reference – entire table>                                   |
| sxt_billto | city         | <No reference – entire table>                                   |
| sxt_billto | contact      | <No reference – entire table>                                   |
| sxt_billto | countryCd    | <No reference – entire table>                                   |
| sxt_billto | dunsNr       | <No reference – entire table>                                   |
| sxt_billto | name         | <No reference – entire table>                                   |
| sxt_billto | phone        | <No reference – entire table>                                   |
| sxt_billto | postalCd     | <No reference – entire table>                                   |
| sxt_billto | state        | <No reference – entire table>                                   |



# ION API Technical Documentation

|              |                 |   |
|--------------|-----------------|---|
| sxt_billto   | user1           | <No reference – entire table>   |
| sxt_billto   | user2           | <No reference – entire table>   |
|              |                 |   |
| sxt_terms    | basisDtCd       | <No reference>  |
| sxt_terms    | cardAcctNo      | <No reference>  |
| sxt_terms    | cardExpDt       | <No reference>  |
| sxt_terms    | cardPreAuthDt   | <No reference>  |
| sxt_terms    | cardPreAuthNo   | <No reference>  |
| sxt_terms    | cardType        | <No reference>  |
| sxt_terms    | description     | <No reference>  |
| sxt_terms    | discDays        | <No reference>  |
| sxt_terms    | discDt          | <No reference>  |
| sxt_terms    | discPct         | <No reference>  |
| sxt_terms    | discProxDay     | <No reference>  |
| sxt_terms    | dueDays         | <No reference>  |
| sxt_terms    | dueDt           | <No reference>  |
| sxt_terms    | sxTermsCd       | <No reference>  |
| sxt_terms    | typeCd          | Used to assign the OE header “termstype” – Used to locate SASTA record. Must have permissions set |
|              |                 |   |
| sxt_schedule | lineIden        | DO NOT USE  |
| sxt_schedule | schedDt         | DO NOT USE  |
| sxt_schedule | scheduleCd      | DO NOT USE  |
| sxt_schedule | seqNo           | DO NOT USE  |
| sxt_schedule | shipToAddr1     | DO NOT USE  |
| sxt_schedule | shipToAddr2     | DO NOT USE  |
| sxt_schedule | shipToCity      | DO NOT USE  |
| sxt_schedule | shipToContact   | DO NOT USE  |
| sxt_schedule | shipToCountryCd | DO NOT USE  |
| sxt_schedule | shipToDunsNr    | DO NOT USE  |
| sxt_schedule | shipToNm        | DO NOT USE  |
| sxt_schedule | shipToPhone     | DO NOT USE  |
| sxt_schedule | shipToPostalCd  | DO NOT USE  |
| sxt_schedule | shipToState     | DO NOT USE  |
| sxt_schedule | shipVia         | DO NOT USE  |
| sxt_schedule | sxLineNo        | DO NOT USE  |
| sxt_schedule | unit            | DO NOT USE  |
|              |                 |   |
| sxt_total    | totInvAmt       | DO NOT USE  |
| sxt_total    | totLn           | DO NOT USE  |
| sxt_total    | totQtyOrd       | DO NOT USE  |

## InShipTo Table Notes:

If the interface is processing a Shlp To Address override make sure to send the complete set of data for correct Tax processing – including Country Code.

**For Taxware Enterprise**, an address change, must include the Geo Code and Out Of City settings. To pass this additional data for correct taxation, you must use the sxt\_header\_extra array:

# ION API Technical Documentation

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Geo Code: (load with the actual GeoCode integer value to validate tax with)

**sxt\_header\_extra.fieldname = "ShipToGeoCd"**

**sxt\_header\_extra.seqno = 1**

**sxt\_header\_extra.fieldvalue = "8873"**

Out Of City Flag: (load with yes or no – blank will default to no)

**sxt\_header\_extra.fieldname = "ShipToOutOfCity"**

**sxt\_header\_extra.seqno = 1**

**sxt\_header\_extra.fieldvalue = "yes"**

# ION API Technical Documentation

---

**For OE Order Notes**, to pass this additional data for printed notes you must use the sxt\_header\_extra array:

**Invoice Notes:**

```
sxt_header_extra.fieldname = "notes inv"
sxt_header_extra.seqno     = 1 **
sxt_header_extra.fieldvalue = "Your invoice note here"
```

**Acknowledgment Notes:**

```
sxt_header_extra.fieldname = "notes ack"
sxt_header_extra.seqno     = 1 **
sxt_header_extra.fieldvalue = "Your ack note here"
```

**Advance Shipping Notes:**

```
sxt_header_extra.fieldname = "notes adv"
sxt_header_extra.seqno     = 1 **
sxt_header_extra.fieldvalue = "Your adv note here"
```

**Picking Notes:**

```
sxt_header_extra.fieldname = "notes pck"
sxt_header_extra.seqno     = 1 **
sxt_header_extra.fieldvalue = "Your picking note here"
```

**All Notes:**

```
sxt_header_extra.fieldname = "notes all"
sxt_header_extra.seqno     = 1 **
sxt_header_extra.fieldvalue = "Your note here"
```

**Line Notes::**

See the **Line item Comments/Notes** section below

\*\* if you want your notes in a specific order under field name, use the seqno for that. The notes are sorted by field name, then seqno

**For email address**, to pass this additional data for notes you must use the sxt\_header\_extra file:

```
sxt_header_extra.fieldname = "email"
sxt_header_extra.seqno     = 1
sxt_header_extra.fieldvalue = myemail@hotmail.com
```

To set and load the **Sales Warehouse** on the header, you must use the sxt\_header\_extra file:

```
sxt_header_extra.fieldname = "saleswhse"
sxt_header_extra.seqno     = 1
sxt_header_extra.fieldvalue = "valid warehouse"
```

## Business Rules:

This SXAPI call takes advantage of the concept of a "Business Rule". A Business Rule is logic that checks for the present of a record in SASBR. If the record exists, then it will contain a data element (sxxmlrule.rulevalue) that controls certain processing. If the record does not exist, then some default processing will occur. The Business Rule record contains a character field (sxxmlrule.rulevalue) that could be a different value type depending on the type of rule. In one case, it may be a "yes" / "no" value. In another case, it may be a numeric field. These Business Rule records are setup in the SASBR screen from the CSD system.

## Exception Records:

Some of the business logic for this SXAPI call was developed for the EDI system. The EDI system allows inbound customer purchase orders (sales orders) to be processed by this SXAPI call instead of the traditional EDI flat file processing. In some cases, as the OE order is processed, exceptions may be encountered. These exceptions are stored in an error handling table (EDIE records) and can be viewed in the ETCC inquiry screen from the CSD system.

## Header level processing:

The input array "sxt\_orderV4" contains a field called "actiontype". Currently, the only allowed values are "original" and "confirm".

# ION API Technical Documentation

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The Customer # and Warehouse fields must be set prior to creating the new OE order. The following is the hierarchy that is done to set these fields:

1. If the `sxt_orderV4.partnerid` field is not blank:
  - It's used to locate an ARSS record matching on the `arss.edipartner` field. If only one ARSS record is located, then that ARSS record is used to load the customer #, ship to, and warehouse settings. The warehouse is loaded from either the `arss.ecommwhse` (if it's not blank), or the `arss.whse` field.
  - If an ARSS record was not located, then the partner ID may be an CSD customer # value. An attempt is made to read an ARSC record using the partner ID as the customer # to be located. If it finds an ARSC, then a duplicate trading partner has been found, so it will clear out the customer #, ship to, and warehouse settings to continue the hierarchy.
  - If there was not a duplicate trading partner, then an attempt is made to read an ARSC record matching on `arsc.edipartner`. If only one ARSC record is located, then that ARSC record is used to load the customer # setting.
2. If the `sxt_orderV4.partnerid` field was not blank, then the customer # setting would have been loaded from the `InCustomer.custno` field (assuming it was numeric). In this case, the ARSC record would be read using this field. If the ARSC record is located, then that customer # will be used.
3. If at this point, a customer # has not been established, then a check is made to see if a Business Rule exists for the trading partner (`TradingPartner = InCustomer.custno`, `DocHandler = blank`, `Direction = blank`, `NodeName = blank`, `AttrName = blank`, and `RuleType = "custno"`). If it's found, then that customer # (`RuleValue`) is used. If it's not found, then a check for a second Business Rule (`TradingPartner = blank`, `DocHandler = "sxapi"`, `Direction = blank`, `NodeName = blank`, `AttrName = blank`, and `RuleType = "defaultcustno"`) is done. If that Business Rule exists, then that customer # will be used.
4. If a customer # still cannot be established, then the program will read the first ARSCL record. This is a table that stores a list of "Misc" customers that are available in the CSD system. If a ARSCL record does not exist, then a severe error is generated and the OE order will not be created, since the program cannot validate the customer #.
5. At this point, the program will determine if a Ship To location should be used for the new OE order (assuming an ARSS record was not already read above). If the `arsc.shipreqfl` flag = yes (Ship To is required), then the program will read through the ARSS records for the customer looking for active records (`arss.statustype = true`) and the `arsc.jobclosedt = ?` or `arsc.jobclosedt > today` (open jobs). As it reads each ARSS record, it checks the shipping address of that record against the `InShipTo` record (comparing name, address1, address2, city, status, zip). If one is found, it will be used for the new OE order.
6. If a Ship To is required (`arsc.shipreqfl = yes`) and an ARSS record could not be located, then the order will go on eHold.
7. If a Ship To was not located, but Ship To information was provided (`InShipTo.shiptono` is not blank), then the program will create an ARSS record with the Ship To = "default".
8. Next, the program will establish the warehouse:
  - If the `sxt_orderV4.whse` was not blank, it will be used.
  - If the `InshipFrom` record was provided, it will first use the `InshipFrom.phone` field to locate an ICSD record (matching on `icsd.phoneno`). If it finds only one ICSD record, with that phone#, then the whse from that ICSD record will be used.
  - If the `InshipFrom` record was provided and the `InshipFrom.postalcd` is not blank, then it will be used to locate an ICSD record (matching on `icsd.zipcd`). If it finds only one ICSD record with that zip code, then the whse from that ICSD record will be used.
  - If the `InshipFrom` record was provided and the `InshipFrom.state` is not blank and the `InshipFrom.city` is not blank, then it will be used to locate an ICSD record (matching on `icsd.state` and `icsd.city`). If it finds only one ICSD record with that state and city, then the whse from that ICSD record will be used.
  - Finally, if the `InshipFrom` record was provided and the `InshipFrom.name` is not blank, then it will be used to locate an ICSD record (matching on `icsd.name`). If it finds only one ICSD record with that name, then it will be used the whse from that ICSD record will be used.
  - If the warehouse setting is still blank, the program will check the ARSS record. If the `arss.ecommwhse` is not blank, it will be used – otherwise the `arss.whse` will be used.
  - If the warehouse setting is still blank, then program will check the ARSC record. If the `arsc.ecommwhse` is not blank, it will be used – otherwise the `arsc.whse` will be used.

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- If the warehouse setting is still blank (or invalid), the program will check for a Business Rule (TradingPartner = blank, DocHandler = "sxapi", Direction = "I" (inbound), NodeName = blank, AttrName = blank, RuleType = "whse"). If the Business Rule record is found, the whse from that record (RuleValue) will be used.
- At this point, if the Warehouse setting is blank or invalid, then a severe error condition will be raised and the OE order will not be created.

As the OE header record is created, additional logic is performed to assign certain fields:

- The ship via field is validated. If the ship via record (sasta) can be found using either the sxt\_orderV4.shipvia field as the ship via code (sasta.codeiden) or trying to locate a ship via record using the sxt\_orderV4.shipvia as the ship via description (sasta.descrip).
- The default OE header approval type (oeeh.approvy) will be assigned based on the presence of a Business Rule (TradingPartner = cono=<cono>|custno=<customer#>, DocHandler = "sxapi", Direction = blank, NodeName = blank, AttrName = blank, RuleType = "defaultapprovy"). If this "Trading Partner" specific record was not found, then the program looks for a system wide record (TradingPartner = blank, DocHandler = "sxapi", Direction = blank, NodeName = blank, AttrName = blank, RuleType = "defaultapprovy").
- The OE header Source Process (oeeh.sourceproc) will be loaded with the word "sxapi" or "CC" (Commerce Connect) if the sxt\_orderV4.batchnm = "EDI". This makes it easy to locate OE orders that have been created through SXAPI.
- If the OE order is a "qu" (quote), then the oeeh.canceldt is assigned. The program will first check to see if the sxt\_orderV4.canceldt is a valid date. If so, it will use it. Then, the program checks to see if there is a Business Rule that is used to calculate the cancel date (TradingPartner = cono=<cono>|custno=<customer#>, DocHandler = "sxapi", Direction = blank, NodeName = blank, AttrName = blank, RuleType = "canceldays"). If this "Trading Partner" specific record was not found, then the program looks for a system wide record (TradingPartner = blank, DocHandler = "sxapi", Direction = blank, NodeName = blank, AttrName = blank, RuleType = "canceldays"). This Business Rule record will contain the # of days (ex: 30) to add to the system date to establish the cancel date.
- The program will check to see if the Terms can be overridden from the input date. The terms can be overridden if one of the following 3 conditions exist:
  1. The Customer / Ship To record has a new "Terms Override" flag turned on (arss.editermsfl or arss.editermsfl).
  2. There is a "Trading Partner" specific Business Rule record present (TradingPartner = cono=<cono>|custno=<customer #>, DocHandler = "sxapi", Direction = blank, NodeName = blank, AttrName = blank, RuleType = "overrideterms").
  3. There is a system wide Business Rule record present (TradingPartner = blank, DocHandler = "sxapi", Direction = blank, NodeName = blank, AttrName = blank, RuleType = "overrideterms").If one of these conditions is present, then the interms record will be used. This record has a field called interms.typecd that is used to read a Terms record (sasta). If it's found, then those Terms will be used for the new OE order. If the Terms record is not found, then the order will be placed on eHold.
- If the Customer or Ship To records are setup to require a customer PO# and one was not provided (sxt\_orderV4.pono), then additional logic is performed to assign one.

## Tendering Amount:

sxt\_header\_extra.fieldname is set to "Tender\_payment" and sxt\_header\_extra.fieldvalue is set to :

```
"acct=*****3334" + sep + //credit card #
"expdate=1130" + sep + // Expiration MMY
"authcode=xxxxxx" + sep + // authorization code is optional
"amt=20.00" + sep +
"paytype=3" //SASTT Payment Type #
```

where "sep" is a tab character used as a delimiter. In JSON, you should use "\t" as the tab separator with no spaces before or after. In XML, you would use "#09;" as the tab separator.

## Line Item Processing:

As each line item is read from the sxt\_itemV4 array, the various part #'s are accessed from the array record. These part #'s will be used to determine the appropriate product for the new OE line item that is to be created. This represents the part #'s from the Buyer Product field (sxt\_itemV4.buyerprod), UPC field (sxt\_itemV4.upc) and

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Seller Product field (sxt\_itemV4.sellerprod). The standard cross referencing logic will be performed to try and locate a stock product. If one cannot be located, then the OE line item will be treated as a Non-Stock product. The only exception to this is if the ARSC/ARSS record was not setup to allow Non-Stock products to be created (arsc.edinsprodfl = no or arss.edinsprodfl = no). If this is the case, then that OE line item will not be created, and an OE header level note page will be added capturing the appropriate data elements.

If the product that was identified is a Build on Demand or Tally Kit, then the OE line item will not be created, and an OE order note will be added.

If the input line item array contained a price (sxt\_itemV4.unitcost), and the OE line item to be created is not a Non-Stock product and the Batch Name (sxt\_orderV4.batchnm) = "EDI", then additional checks and logic is performed to obtain the standard CSD price for this line item to be compare with what was sent in. The price from the array will be used and exception will be generated.

The OE line item will be created using the Appserver call "OE-Line-Validate". If any errors occur after this call, the line will be treated as a Non-Stock product (to preserve as much of the input data as possible) and a second OE-Line-Validate call will be performed.

After the OE line item is created, for a given line item, a series of checks is performed to determine if the order should go on eHold. This would occur if the product had a status of Do Not Reorder, Direct Order Only, or the product was inactive or had been superseded.

## Line item Comments/Notes

If a comment is provided in the array (sxt\_itemV4.linecomment), then an internal comment record will be created. However, if you go to **ARSC – Ecomm** tab and check the **Print Notes/com** option, it will cause this linecomment value to be set as a printable note. If a shipto code is use, you will need to check the **Print Notes/com** option on the **ARSS – EDI** tab.

Alternatively, if a line comment is required without setting the ARSC or ARSS values, a new **sxt\_itemV4** row should be created with the specnstype set to "pck", "inv", "all", or "none" (internal comment) and item.description should contain the comment. The lineidentifier must be the same number as the line item you have created with the letter "b" appended to ensure that the line item gets created first before the comment is created.

```
"sxt_itemV4": {
  "sxt_itemV4": [
    {
      "lineIden": "1",
      "qtyOrd": "1",
      "sellerProd": "51484"
    },
    {
      "descrip": "This is line item level",
      "lineIden": "1b",
      "specnstype": "all"
    }
  ]
}
```

## Editing / Error Logic:

As each OE order is created, the SXAPI call will attempt to retain all of the original data as much as possible. In some cases, the original data may be invalid and the OE order will be placed on hold. The Approval Type will be set to "e", which is known as "eHold". The following conditions will cause an order to go on eHold:

1. If the sxt\_orderV4.transtype is not "so", "qu", or "fo". In this case, the order will be created as a "so" (stock order) and go on eHold.
2. If the sxt\_orderV4.actiontype is not "original" and "confirm", then the order will go on eHold and be created as a "qu" (quote).
3. As the customer # is established (logic detail above), if a Business Rule was used, then the order will go on eHold.

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4. If the customer requires ship to's (arsc.shipreqfl = yes) and an ARSS record could not be located, then the order will go on eHold.
5. If the Ship To was not located and a "default" ARSS record was created, then the order will go on eHold.
6. If the Terms were passed in the interms array record and they are not valid (no SASTA Terms record was found), then the order will go on eHold.
7. When the program creates the OE header record, it will use the standard CSD appserver calls (OE-Header-Create and OE-Header-Change). If any error messages are returned from this calls, then the order will go on eHold.
8. As the line items are processed, if any line item has a quantity ordered less than or equal to zero (sxt\_itemV4.qtyord), then the order will go on eHold.
9. As each line item is processed, depending on the type of product used, the order could go on eHold for these conditions.

## Serial/Lot Processing:

Serial/Lot Processing has been added for Storeroom only. It is for line items only and not kit components as Storeroom does not allow BOD kits. Storeroom orders automatically ship after they are created so if Serial/Lots are not allocated correctly the order will not be able to autoship. FullOrderMaint does not allow for this type of error handling so all serial/lot edits are done in sxapiSRCreatEOEOrder and it is assumed that the serial/lot data has been edited and is correct when FullOrderMaint is run.

Serial/Lot data will be passed in the sxt\_line\_extra array.

lineiden – Line # from Storeroom which corresponds to the sxt\_itemV4 lineiden  
seqno – Next sequence number for the t-infieldvalue table. All "fields" for one Serial/Lot MUST have the same sequence number

### Serial Fields

| fieldname | Fieldvalue   |
|-----------|--|
| Serial    | Serial #, character x(20), Required                                      |
| BinLoc    | Bin Location, character x(10), Optional, no slashes as CSD will add them |
| Comment   | Comment, character x(24), Optional                                       |

### Lot Fields

| Fieldname | Fieldvalue  |
|-----------|---|
| Lot       | Lot #, character x(20), Required                            |
| Qty       | Lot Quantity, Required                                      |
| QtyUnav   | Lot Quantity Unavailable, Required if Return to Unavailable |

Returns – Return Reasons and Unavailable Reasons are pulled from Business Rules.

If a return reason has an unavailable reason, that reason will be used for all Serials and Lots. So, a return is all available or all unavailable and if unavailable, it will all be for the same reason. If a return reason is partial unavailable, the product will be returned to available. In CSD partial unavailable is available unless a unavailable reason is supplied at the serial/lot level and that can't be done from within Storeroom.

Serials and lots are updated to be reserved against the order. The final update occurs when the order is Invoiced.

## Equate Pricing added in 11.19.11

you have the ability to submit coupons and a number of other parameters in the following tables:

**sxt\_header\_extra** for **OEFullOrderMntV6**

| Fieldname     | Fieldvalue                           | Description    |
|---------------|--------------------------------------|----------------|
| Coupon        | Valid coupon codes (comma-delimited) | Stored in cart |
| Associateflag | yes or true                          | Stored in cart |

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|                |  |   |
|----------------|--|---|
| BusinessUnitID | Business unit code or whse code                        | Stored in cart(warehouse)                                 |
| unitttype      | user defined type code (ie OL-online, RS-retail store) | Stored in cart  |
| unitID         | Deprecated (integer value)                             | Currently using icsd.divno                                |
| currenttotal   | Net sales (total of line sales)                        | Stored in cart (oeeh.totlineord)                          |
| timestamp      | MM/DD/YYYY HH:MM:SS.SSS-HH:MM<br>Date time - time zone | Stored in cart (optional – uses<br>current date time)     |
| cartID         | Valid cart id  | Retrieves existing cart and sets<br>pricing based on cart |

The above values (except cartID) are used to create a new cartID and will set the order to the price designated by the Equate price system.

If a cartID was previously created and has been submitted, the API will find the cart and set the line items to the price which was set as part of the cart.



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**API Call:** *sxapiOEGetAddonList*

**Purpose:** This call returns a list of order entry addons (defined in the SASTN table with codeiden = "a").

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the addon number value, otherwise it sorts on the description of the addon. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-codelst        | Output         | The t-codelst collection.  |

**Notes:**

Collection fields:

| Field Name | Type                                     |
|------------|--|
| Codevalue  | character (string value of addon number) |
| Codedesc   | character (description)                  |
| Extradata  | character                                |
| Sortfld    | character (sort key for collection)      |

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## **API Call:** *sxapiOEGetCreditHoldOrders*

**Purpose:** This call will return a list (collection) of OE orders that are on hold (not approved), based on a variety of selection criteria.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber   | Input/Optional | Customer # - An optional field to select only those orders for a given customer #.   |
| warehouse        | Input/Optional | Whse – An optional field to select only those orders for a given whse.   |
| creditManager    | Input/Optional | Credit Manager – An optional field to select only those orders for a given credit manager.   |
| approvalType     | Input/Optional | Approval Code – An optional field to select only those orders for this approval code (approv).   |
| stageCode        | Input/Optional | Stage – An optional field that controls which OE orders should be selected:<br>“0” – Orders in Entered (0) stage<br>“1” – Orders in Ordered (1) stage<br>“2” – Orders in Printed (2) stage<br>“3” – Orders in Shipped (3) stage<br>“9” – Orders in Entered through Shipped stage |
| transactionTypes | Input/Optional | Transaction Types – An optional field to select orders based on a comma-separated list of transaction types.   |
| shipVia          | Input/Optional | Ship Via – An optional field to select only those orders for a given ship via.   |
| startDate        | Input/Optional | Begin Date – An optional field to select only those orders where the promised date >= this date.   |
| endDate          | Input/Optional | End Date – An optional field to select only those orders where the promised date <= this date.   |
| shipped          | Input/Required | Ship Flag (boolean) – If “true”, only those orders that are ready to ship (have a total qty shipped) will be selected. If “false”, the total qty shipped will not be checked.  |
| allowBackorder   | Input/Required | BO Flag (boolean) – If “true”, only those orders that are a backorder will be selected. If “false”, this will not be checked.  |
| sort1            | Input          | Sort 1:<br>“a” – Promise date<br>“b” – Create Date<br>“c” – Customer #<br>“d” – Amount (descending)<br>“e” – Order #<br>“f” – Whse   |
| sort2            | input          | Sort 1:<br>“a” – Promise date<br>“b” – Create Date<br>“c” – Customer #<br>“d” – Amount (descending)<br>“e” – Order #<br>“f” – Whse   |
| recordLimit      | Input          | Record Limit – This is an optional parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |

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|                      |        |  |
|----------------------|--------|--|
| moreRecordsAvailable | Output | More records flag – are there additional records in the database that qualify but are not shown due to the record limit. |
| t-oeord_credit       | Output | The “t-oeord_credit” collection. This contains one record for each OE order selected.                                    |

## Notes:

Collection fields:

| Field Name | Type                                      |
|------------|---|
| Orderno    | integer                                   |
| Ordersuf   | integer                                   |
| Ordernox   | character (orderno and ordersuf together) |
| Ordernotes | character                                 |
| Stagecd    | integer                                   |
| Statecdx   | character (stage wording)                 |
| Transtype  | character                                 |
| Promisedt  | date                                      |
| Createdt   | date                                      |
| Custno     | decimal                                   |
| Custnox    | character                                 |
| Custnotes  | character                                 |
| Name       | character                                 |
| Whse       | character                                 |
| Approvty   | character                                 |
| Takenby    | character                                 |
| Creditmgr  | character                                 |
| Priority   | integer                                   |
| Shipviaty  | character                                 |
| Sortdt1    | date (sort key for collection)            |
| Sortdt2    | date (sort key for collection)            |
| Sortfld    | character (sort key for collection)       |
| Amounti    | integer                                   |
| Seqno      | integer                                   |

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**API Call:** *sxapiOEGetEdiValidationMessages*

**Purpose:** Retrieve a list of EDI validation errors

**Parameters:**

| REST Params       | Direction       | Description   |
|-------------------|-----------------|---|
| companyNumber     | Input/required  | Company #   |
| operatorInit      | Input/required  | SASO operator for the company specified   |
| operatorPassword  | Input/optional  | SASO operator password (only required if business rule is set)                            |
| batchName         | Input/Required  | The required batch name. This would be the Order #.                                       |
| sequenceNumber    | Input /Required | The required Sequence #. This would be the Order Suffix.                                  |
| level             | Input           | The Level. If left blank, levels of "H" (Header) and "L" (line) will be used.             |
| lineNumber        | Input           | An optional Line #. If specified, the EDIE records will be selected based on this line #. |
| documentType      | Input           | An optional Doc Type. If specified, the EDIE records will be selected based on this.      |
| t-edivaldatemsgtt | Output          | The t-edivaldatemsgtt collection.   |
| errorMessage      | Output          | Error message – Any error messages will be returned in this parameter.                    |

**Notes:**

The t-edivaldatemsgtt is defined as follows:

| Field Name   | Data Type |
|--------------|-----------|
| Batchnm      | character |
| Cono         | integer   |
| Custno       | decimal   |
| Docty        | character |
| Errseqno     | integer   |
| Errty        | character |
| Fieldty      | character |
| Fieldvalue   | character |
| Level        | character |
| Lineno       | integer   |
| Operinit     | character |
| Seqno        | decimal   |
| Shipto       | character |
| Statusty     | character |
| Transdt      | date      |
| Transproc    | character |
| Transtm      | character |
| Whse         | character |
| Errormessage | character |

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**API Call:** *sxapiOEGetListofBatchOrders*

**Purpose:** Retrieve a list of OE Batch Orders based on passed selection criteria

**Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| batchName            | Input          | Batch Name (optional)  |
| whse                 | Input          | Warehouse (optional)   |
| customerNumber       | Input          | Customer # (optional)  |
| sort1                | Input          | Sort 1 (currently not used)  |
| sort2                | Input          | Sort 2 (currently not used)  |
| recordLimit          | Input          | Record Limit (optional)  |
| errorMessage         | output         | Error message – Any error messages will be returned in this parameter.   |
| t-oebatchhdr         | Output         | The t-oebatchhdr collection (see below)  |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit. |

**Notes:**

The t-oebatchhdr collection has the following fields:

| Field      | Data Type                          |
|------------|------------------------------------|
| Batchnm    | character                          |
| Seqno      | numeric                            |
| Enterdt    | date                               |
| Descrip    | character (batch name description) |
| Custno     | numeric                            |
| Name       | character                          |
| Notesfl    | character                          |
| Shipto     | character                          |
| Whse       | character                          |
| Transtype  | character                          |
| Oeehbrecid | recid                              |
| Sortfld    | character                          |

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## **API Call:** *sxapiOEGetListofOrders*

**Purpose:** This call is used to obtain a list of OE order #'s for a given Customer / Ship To. Several selection fields are available to filter down on the list of OE orders that will be returned.

### **Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)  |
| customerNumber        | Input/Optional | Customer # - This is an optional selection field. If specified, only those OE orders for this Customer # will be selected.  |
| shipTo                | Input/Optional | Ship To – This is an optional selection field. If specified, only those OE orders for this Ship To will be selected. If left blank, the selection logic will not be based on the Ship To.                           |
| warehouse             | Input/Optional | Warehouse – This is an optional selection field. If specified, only those OE orders for this whse will be selected. If left blank, the selection logic will not be based on whse.                                   |
| transactionType       | Input/Optional | Transaction Type – This is an optional selection field. If specified, only those OE orders for this transtype (SO, DO, FO, ..) will be selected. If left blank, the selection logic will not be based on transtype. |
| takenBy               | Input/Optional | Taken By – This is an optional selection field. If specified, only those OE orders for this Taken By will be selected. If left blank, the selection logic will not be based on Taken By.                            |
| customerPurchaseOrder | Input/Optional | Customer PO # - This is an optional selection field. If specified, only those OE orders for this custpo (begins with) will be selected. If left blank, the selection logic will not be based on custpo.             |
| startStage            | Input/Optional | Beginning Stage Range – This is an optional selection field. If non-zero, all OE orders between (inclusive) this range will be selected. The selection logic will not retrieve any cancelled (stage 9) orders.      |
| endStage              | Input/Optional | Ending Stage Range – This is an optional selection field. If non-zero, all OE orders between (inclusive) this range will be selected. The selection logic will not retrieve any cancelled (stage 9) orders.         |
| startEnterDate        | Input/Optional | Beginning Enter Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.   |
| endEnterDate          | Input/Optional | Ending Enter Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |
| sort1                 | Input/Optional | Sort # 1 – Controls the sorting of the records to be retrieved (see note below).  |
| sort2                 | Input/Optional | Sort # 2 – Controls the sorting of the records to be retrieved.   |
| recordLimit           | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur.  |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable  | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-oeord               | Output         | OE Order list Collection (see below).   |

### **Notes:**

The output for this API call is a collection known as "t-oeordlist". It contains 1 record for each OE order selected and contains matching fields that exists in the OE Header Record (OEEH).

Fields:

| Field Name | Type    |
|------------|---------|
| Orderno    | integer |
| Ordersuf   | integer |

# ION API Technical Documentation

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|              |                                     |
|--------------|-------------------------------------|
| Whse         | character                           |
| Custno       | decimal                             |
| Shipto       | character                           |
| Stagecd      | integer                             |
| Stagecdwords | character (stage in words)          |
| Enterdt      | date                                |
| Totinvamt    | decimal                             |
| Transtype    | character                           |
| Custpo       | character                           |
| Reqshipdt    | date                                |
| Promisedt    | date                                |
| Pickeddt     | date                                |
| Shipdt       | date                                |
| Invoicedt    | date                                |
| Sortfld      | character (sort key for collection) |

There are 2 sort options. The first is the primary sort, the second will sort the records within the primary sort as a secondary sort. All records will be sorted by Order # , Order Suffix, within these 2 sorts. All sorts are done in ascending order.

Sort options:

A – Customer #

B – Whse

C – Stage

blank – Order No / Order Suffix

E – Transaction Type

F – Entered Date

G – Customer PO#

# ION API Technical Documentation

## **API Call:** *sxapiOEGetListofOrdersV2*

**Purpose:** This call is used to obtain a list of OE order #'s for a given Customer / Ship To. Several selection fields are available to filter down on the list of OE orders that will be returned.

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber        | Input/Optional | Customer # - This is an optional selection field. If specified, only those OE orders for this Customer # will be selected.   |
| shipTo                | Input/Optional | Ship To – This is an optional selection field. If specified, only those OE orders for this Ship To will be selected. If left blank, the selection logic will not be based on the Ship To.  |
| warehouse             | Input/Optional | Warehouse – This is an optional selection field. If specified, only those OE orders for this whse will be selected. If left blank, the selection logic will not be based on whse.  |
| transactionType       | Input/Optional | Transaction Types– This is an optional selection field. If specified, only those OE orders for the list of transtypes (SO, DO, FO, ..) will be selected (comma separated list). If left blank, the selection logic will not be based on transtype. |
| takenBy               | Input/Optional | Taken By – This is an optional selection field. If specified, only those OE orders for this Taken By will be selected. If left blank, the selection logic will not be based on Taken By.   |
| customerPurchaseOrder | Input/Optional | Customer PO # - This is an optional selection field. If specified, only those OE orders for this custpo (begins with) will be selected. If left blank, the selection logic will not be based on custpo.  |
| startStage            | Input/Optional | Beginning Stage Range – This is an optional selection field. If non-zero, all OE orders between (inclusive) this range will be selected. The selection logic will not retrieve any cancelled (stage 9) orders.                                     |
| endStage              | Input/Optional | Ending Stage Range – This is an optional selection field. If non-zero, all OE orders between (inclusive) this range will be selected. The selection logic will not retrieve any cancelled (stage 9) orders.  |
| startEnterDate        | Input/Optional | Beginning Enter Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |
| endEnterDate          | Input/Optional | Ending Enter Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.   |
| sort1                 | Input/Optional | Sort # 1 – Controls the sorting of the records to be retrieved (see note below).   |
| sort2                 | Input/Optional | Sort # 2 – Controls the sorting of the records to be retrieved.  |
| productCode           | Input/Optional | Product – This is an optional selection field. If specified, all OE orders that contain a line item with the product will be selected.   |
| orderNumber           | Input/Optional | Order # - This is an optional selection field. If specified, all OE orders for this Order # (ignoring all other selection criteria except the record count) will be located.   |
| holdOnlyFlag          | Input/Required | Hold Orders Only – This selection field can be used to retrieve only the orders that are on hold (oeeh.approvty ne "y").   |
| lateOnlyFlag          | Input/Required | Late Orders Only – This selection field can be used to retrieve only those orders that are late (oeeh.promisedt < today).  |
| backorderOnlyFlag     | Input/Required | Backordered Orders Only – This selection field can be used to retrieve only those orders that are backorders (oeeh.borelfl = yes).   |



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|                      |                |  |
|----------------------|----------------|--|
| rushOnlyFlag         | Input/Required | Rush Orders Only – This selection field can be used to retrieve only those orders that have Rush line items (oeeh.norushln ne 0).                                    |
| nonstockOnlyFlag     | Input/Required | Non Stock Orders Only – This selection field can be used to retrieve only those orders that have a non-stock or special order line item.                             |
| enteredStageOnly     | Input/Required | Entered Stage Only – This selection field can be used to retrieve those orders that are in “Entered” (zero) stage only.  |
| recordLimit          | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur. |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| t-oeordV2            | Output         | OE Order list Collection (see below).  |

## Notes:

The output for this API call is a collection known as “t-oeordlist”. It contains 1 record for each OE order selected and contains matching fields that exists in the OE Header Record (OEEH).

Fields:

| Field Name   | Type                                |
|--------------|-------------------------------------|
| Orderno      | integer                             |
| Ordersuf     | integer                             |
| Whse         | character                           |
| Custno       | decimal                             |
| Shipto       | character                           |
| Stagecd      | integer                             |
| Stagecdwords | character (stage in words)          |
| Enterdt      | date                                |
| Totinvamt    | decimal                             |
| Transtype    | character                           |
| Custpo       | character                           |
| Reqshipdt    | date                                |
| Promisedt    | date                                |
| Pickeddt     | date                                |
| Shipdt       | date                                |
| Invoicedt    | date                                |
| Sortfld      | character (sort key for collection) |

There are 2 sort options. The first is the primary sort, the second will sort the records within the primary sort. All records will be sorted by Order # , Order Suffix, within these 2 sorts.

Sort options:

- A – Customer #
- B – Whse
- C – Stage
- D – Order No / Order Suffix
- E – Transaction Type
- F – Entered Date
- G – Customer PO#

# ION API Technical Documentation

## **API Call:** *sxapiOEGetListofOrdersV3*

**Purpose:** This call is used to obtain a list of OE order #'s for a given Customer / Ship To. Several selection fields are available to filter down on the list of OE orders that will be returned.

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber        | Input/Optional | Customer # - This is an optional selection field. If specified, only those OE orders for this Customer # will be selected.   |
| shipTo                | Input/Optional | Ship To – This is an optional selection field. If specified, only those OE orders for this Ship To will be selected. If left blank, the selection logic will not be based on the Ship To.  |
| warehouse             | Input/Optional | Warehouse – This is an optional selection field. If specified, only those OE orders for this whse will be selected. If left blank, the selection logic will not be based on whse.  |
| transactionType       | Input/Optional | Transaction Types– This is an optional selection field. If specified, only those OE orders for the list of transtypes (SO, DO, FO, ..) will be selected (comma separated list). If left blank, the selection logic will not be based on transtype. |
| takenBy               | Input/Optional | Taken By – This is an optional selection field. If specified, only those OE orders for this Taken By will be selected. If left blank, the selection logic will not be based on Taken By.   |
| customerPurchaseOrder | Input/Optional | Customer PO # - This is an optional selection field. If specified, only those OE orders for this custpo (begins with) will be selected. If left blank, the selection logic will not be based on custpo.  |
| startStage            | Input/Optional | Beginning Stage Range – This is an optional selection field. If non-zero, all OE orders between (inclusive) this range will be selected. The selection logic will not retrieve any cancelled (stage 9) orders.                                     |
| endStage              | Input/Optional | Ending Stage Range – This is an optional selection field. If non-zero, all OE orders between (inclusive) this range will be selected. The selection logic will not retrieve any cancelled (stage 9) orders.  |
| startEnterDate        | Input/Optional | Beginning Enter Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |
| endEnterDate          | Input/Optional | Ending Enter Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.   |
| startShipDate         | Input/Optional | Beginning Req Ship Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.   |
| endShipDate           | Input/Optional | Ending Req Ship Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |
| startPromiseDate      | Input/Optional | Beginning Promise Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |
| endPromiseDate        | Input/Optional | Ending Promise Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.   |
| startPickedDate       | Input/Optional | Beginning Picked Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |

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|                      |                |  |
|----------------------|----------------|--|
| endPickedDate        | Input/Optional | Ending Picked Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                            |
| startShipDate        | Input/Optional | Beginning Ship Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                           |
| endShipDate          | Input/Optional | Ending Ship Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                              |
| startInvoiceDate     | Input/Optional | Beginning Invoice Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                        |
| endInvoiceDate       | Input/Optional | Ending Invoice Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                           |
| sort1                | Input/Optional | Sort # 1 – Controls the sorting of the records to be retrieved (see note below).   |
| sort2                | Input/Optional | Sort # 2 – Controls the sorting of the records to be retrieved.  |
| productCode          | Input/Optional | Product – This is an optional selection field. If specified, all OE orders that contain a line item with the product will be selected.                                       |
| orderNumber          | Input/Optional | Order # - This is an optional selection field. If specified, all OE orders for this Order # (ignoring all other selection criteria except the record count) will be located. |
| holdOnlyFlag         | Input/Required | Hold Orders Only – This selection field can be used to retrieve only the orders that are on hold (oeeh.approvy ne “y”).  |
| lateOnlyFlag         | Input/Required | Late Orders Only – This selection field can be used to retrieve only those orders that are late (oeeh.promisedt < today).  |
| backorderOnlyFlag    | Input/Required | Backordered Orders Only – This selection field can be used to retrieve only those orders that are backorders (oeeh.boresfl = yes).   |
| rushOnlyFlag         | Input/Required | Rush Orders Only – This selection field can be used to retrieve only those orders that have Rush line items (oeeh.norushln ne 0).  |
| nonstockOnlyFlag     | Input/Required | Non Stock Orders Only – This selection field can be used to retrieve only those orders that have a non-stock or special order line item.                                     |
| enteredStageOnly     | Input/Required | Entered Stage Only – This selection field can be used to retrieve those orders that are in “Entered” (zero) stage only.  |
| recordLimit          | Input/Required | Record Limit – This is a parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur.                   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| totalInvoiceAmount   | Output         | Total Invoice Amount of the orders collected   |
| totalInvoiceOrdered  | Output         | Total Invoice Ordered of the orders collected  |
| totalLineAmount      | Output         | Total Line Amount of the orders collected  |
| totalLineOrdered     | Output         | Total Line Ordered of the orders collected   |
| t-oeordV3            | Output         | OE Order list Collection (see below).  |

## Notes:

The output for this API call is a collection known as “t-oeordlist”. It contains 1 record for each OE order selected and contains matching fields that exists in the OE Header Record (OEEH).

Fields:

| Field Name | Type      |
|------------|-----------|
| Orderno    | integer   |
| Ordersuf   | integer   |
| Whse       | character |
| Custno     | decimal   |

# ION API Technical Documentation

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|              |                                     |
|--------------|-------------------------------------|
| Shipto       | character                           |
| Stagecd      | integer                             |
| Stagecdwords | character (stage in words)          |
| Enterdt      | date                                |
| Totinvamt    | decimal                             |
| Transtype    | character                           |
| Custpo       | character                           |
| Reqshipdt    | date                                |
| Promisedt    | date                                |
| Pickeddt     | date                                |
| Shipdt       | date                                |
| Invoicedt    | date                                |
| Sortfld      | character (sort key for collection) |
| Approvty     | character                           |
| Pickedtm     | character                           |
| Pickinit     | character                           |

There are 2 sort options. The first is the primary sort, the second will sort the records within the primary sort. All records will be sorted by Order # , Order Suffix, within these 2 sorts.

Sort options:

- A – Customer #
- B – Whse
- C – Stage
- D – Order No / Order Suffix
- E – Transaction Type
- F – Entered Date
- G – Customer PO#

# ION API Technical Documentation

## **API Call:** *sxapiOEGetListofOrdersV4*

**Purpose:** This call is used to obtain a list of OE order #'s for a given Customer / Ship To. Several selection fields are available to filter down on the list of OE orders that will be returned.

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber        | Input/Optional | Customer # - This is an optional selection field. If specified, only those OE orders for this Customer # will be selected.   |
| shipTo                | Input/Optional | Ship To – This is an optional selection field. If specified, only those OE orders for this Ship To will be selected. If left blank, the selection logic will not be based on the Ship To.  |
| warehouse             | Input/Optional | Warehouse – This is an optional selection field. If specified, only those OE orders for this whse will be selected. If left blank, the selection logic will not be based on whse.  |
| transactionType       | Input/Optional | Transaction Types– This is an optional selection field. If specified, only those OE orders for the list of transtypes (SO, DO, FO, ..) will be selected (comma separated list). If left blank, the selection logic will not be based on transtype. |
| takenBy               | Input/Optional | Taken By – This is an optional selection field. If specified, only those OE orders for this Taken By will be selected. If left blank, the selection logic will not be based on Taken By.   |
| customerPurchaseOrder | Input/Optional | Customer PO # - This is an optional selection field. If specified, only those OE orders for this custpo (begins with) will be selected. If left blank, the selection logic will not be based on custpo.  |
| startStage            | Input/Optional | Beginning Stage Range – This is an optional selection field. If non-zero, all OE orders between (inclusive) this range will be selected. The selection logic will not retrieve any cancelled (stage 9) orders.                                     |
| endStage              | Input/Optional | Ending Stage Range – This is an optional selection field. If non-zero, all OE orders between (inclusive) this range will be selected. The selection logic will not retrieve any cancelled (stage 9) orders.  |
| startEnterDate        | Input/Optional | Beginning Enter Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |
| endEnterDate          | Input/Optional | Ending Enter Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.   |
| startShipDate         | Input/Optional | Beginning Req Ship Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.   |
| endShipDate           | Input/Optional | Ending Req Ship Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |
| startPromiseDate      | Input/Optional | Beginning Promise Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |
| endPromiseDate        | Input/Optional | Ending Promise Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.   |
| startPickedDate       | Input/Optional | Beginning Picked Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.  |

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|                      |                |  |
|----------------------|----------------|--|
| endPickedDate        | Input/Optional | Ending Picked Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                            |
| startShipDate        | Input/Optional | Beginning Ship Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                           |
| endShipDate          | Input/Optional | Ending Ship Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                              |
| startInvoiceDate     | Input/Optional | Beginning Invoice Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                        |
| endInvoiceDate       | Input/Optional | Ending Invoice Date Range – This is an optional selection field. If it's not blank, all OE orders between (inclusive) this range will be selected.                           |
| sort1                | Input/Optional | Sort # 1 – Controls the sorting of the records to be retrieved (see note below).   |
| sort2                | Input/Optional | Sort # 2 – Controls the sorting of the records to be retrieved.  |
| productCode          | Input/Optional | Product – This is an optional selection field. If specified, all OE orders that contain a line item with the product will be selected.                                       |
| orderNumber          | Input/Optional | Order # - This is an optional selection field. If specified, all OE orders for this Order # (ignoring all other selection criteria except the record count) will be located. |
| holdOnlyFlag         | Input/Required | Hold Orders Only – This selection field can be used to retrieve only the orders that are on hold (oeeh.approvy ne “y”).  |
| lateOnlyFlag         | Input/Required | Late Orders Only – This selection field can be used to retrieve only those orders that are late (oeeh.promisedt < today).  |
| backorderOnlyFlag    | Input/Required | Backordered Orders Only – This selection field can be used to retrieve only those orders that are backorders (oeeh.boresfl = yes).   |
| rushOnlyFlag         | Input/Required | Rush Orders Only – This selection field can be used to retrieve only those orders that have Rush line items (oeeh.norushln ne 0).  |
| nonstockOnlyFlag     | Input/Required | Non Stock Orders Only – This selection field can be used to retrieve only those orders that have a non-stock or special order line item.                                     |
| enteredStageOnly     | Input/Required | Entered Stage Only – This selection field can be used to retrieve those orders that are in “Entered” (zero) stage only.  |
| recordLimit          | Input/Required | Record Limit – This is a parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur.                   |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| totalInvoiceAmount   | Output         | Total Invoice Amount of the orders collected   |
| totalInvoiceOrdered  | Output         | Total Invoice Ordered of the orders collected  |
| totalLineAmount      | Output         | Total Line Amount of the orders collected  |
| totalLineOrdered     | Output         | Total Line Ordered of the orders collected   |
| t-oeordV4            | Output         | OE Order list Collection (see below).  |

## Notes:

The output for this API call is a collection known as “t-oeordlist”. It contains 1 record for each OE order selected and contains matching fields that exists in the OE Header Record (OEEH).

Fields:

| Field Name | Type      |
|------------|-----------|
| Orderno    | integer   |
| Ordersuf   | integer   |
| Whse       | character |
| Custno     | decimal   |

# ION API Technical Documentation

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|            |                                     |
|------------|-------------------------------------|
| Shipto     | character                           |
| Stagecd    | character (stage in words)          |
| Enterdt    | date                                |
| Totinvamt  | decimal                             |
| Transtype  | character                           |
| Custpo     | character                           |
| Reqshipdt  | date                                |
| Promisedt  | date                                |
| Pickeddt   | date                                |
| Shipdt     | date                                |
| Invoicedt  | date                                |
| Sortfld    | character (sort key for collection) |
| Approvty   | character                           |
| Pickedtm   | character                           |
| Pickinit   | character                           |
| Takenby    | character                           |
| Totlineord | decimal                             |
| Totlineamt | decimal                             |

There are 2 sort options. The first is the primary sort, the second will sort the records within the primary sort. All records will be sorted by Order # , Order Suffix, within these 2 sorts.

Sort options:

- A – Customer #
- B – Whse
- C – Stage
- D – Order No / Order Suffix
- E – Transaction Type
- F – Entered Date
- G – Customer PO#

# ION API Technical Documentation

**API Call:** *sxapiOEGetLotList***Purpose:** Retrieve Lot Records for Order Entry**Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified                                |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)         |
| warehouse         | Input          | Whse   |
| productCode       | Input          | Product  |
| returnFlag        | Input          | Returnfl   |
| orderNumber       | Input/Optional | Order Number   |
| orderSuffix       | Input/Optional | Order Suffux   |
| lineNumber        | Input/Optional | Line No  |
| sequenceNumber    | Input/Optional | Sequence No  |
| returnOrderNumber | Input/Optional | Return Order #   |
| returnOrderSuffix | Input/Optional | Return Order Suffix  |
| returnLineNumber  | Input/Optional | Return Line #  |
| t-infieldvalue    | Input          | t-infieldvalue   |
| t-lotdata         | Output         | t-lotdata  |
| t-outfieldvalue   | Output         | Table t-outfieldvalue  |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter. |

**Notes:**

When Order Information is included, it will look for lots reserved against that order. Order information is never passed from Storeroom.

Return Order Information is included when a tied return is being created. This will be the original order and all lots shipped on the original order that are available to return will display.

If no Return Order Information is included for a return, all sold lots will be returned.

This runs the API call Create-Lot-Entry-TT.

The “t-lotdata” collection contains the following fields:

| Field Name | Data Type |
|------------|-----------|
| Lotno      | character |
| statustype | character |
| comment    | character |
| binloc1    | character |
| binloc2    | character |
| selectfl   | logical   |
| quantity   | decimal   |
| qtyunvail  | decimal   |
| opendt     | date      |
| expired    | date      |
| reasunavty | character |

Reason Unavailable will not be returned.



# ION API Technical Documentation

**API Call:** *sxapiOEGetOrdersByServiceKey*

**Purpose:** Retrieve ISM orders by SRO keys

**Parameters:**

| REST Params        | Direction      | Description  |
|--------------------|----------------|--|
| companyNumber      | Input/required | Company #  |
| operatorInit       | Input/required | SASO operator for the company specified                        |
| operatorPassword   | Input/optional | SASO operator password (only required if business rule is set) |
| t-oeservicekeylist | Input          | t-oeservicekeylist collection                                  |
| t-infieldvalue     | Input          | t-infieldvalue collection                                      |
| errorMessage       | Output         | Error message.   |
| t-oeservicekeydata | Output         | t-oeservicekeydata collection                                  |
| t-outfieldvalue    | Output         | Table t-outfieldvalue  |

**Notes:**

The “t-oeservicekeylist” collection contains the following fields:

| Field Name      | Data Type |
|-----------------|-----------|
| servicekey      | character |
| relateddocument | character |

The “t-oeservicekeydata” collection contains the following fields:

| Field Name      | Data Type |
|-----------------|-----------|
| orderno         | int       |
| ordersuf        | int       |
| custno          | dec       |
| custname        | char      |
| shipto          | char      |
| whse            | char      |
| transtype       | char      |
| stagecd         | int       |
| stagecd Desc    | char      |
| approvty        | char      |
| ordersource     | char      |
| servicekey      | char      |
| sroassemblyfl   | log       |
| relateddocument | char      |
| enterdt         | date      |
| shipdt          | date      |
| invoicedt       | date      |
| totordamt       | dec       |
| totlineamt      | dec       |
| totinvamt       | dec       |
| taxamt1         | dec       |
| taxamt2         | dec       |
| taxamt3         | dec       |
| taxamt4         | dec       |
| warrantyinvamt  | dec       |
| warrantyvendno  | dec       |

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

# ION API Technical Documentation

## **API Call:** *sxapiOEGetSerialList*

**Purpose:** Retrieve Serial Records for Order Entry

### **Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified                                |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)         |
| warehouse         | Input          | Whse   |
| productCode       | Input          | Product  |
| returnFlag        | Input          | Returnfl   |
| orderNumber       | Input/Optional | Order Number   |
| orderSuffix       | Input/Optional | Order Suffux   |
| lineNumber        | Input/Optional | Line No  |
| sequenceNumber    | Input/Optional | Sequence No  |
| returnOrderNumber | Input/Optional | Return Order #   |
| returnOrderSuffix | Input/Optional | Return Order Suffix  |
| returnLineNumber  | Input/Optional | Return Line #  |
| t-infieldvalue    | Input          | t-infieldvalue collection  |
| t-serialdata      | Output         | t-serialdata collection  |
| t-outfieldvalue   | Output         | t-outfieldvalue collection   |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter. |

### **Notes:**

When Order Information is included, it will look for lots reserved against that order. Order information is never passed from Storeroom.

Return Order Information is included when a tied return is being created. This will be the original order and all lots shipped on the original order that are available to return will display. If no Return Order Information is included for a return, all sold lots will be returned.

This runs the API call Create-OE-Serial-Entry-TT.

The “t-serialdata” collection contains the following fields:

| Field Name | Data Type | Source Data   |
|------------|-----------|---|
| Serialno   | character | icses.serialno  |
| receiptdt  | date      | lcses.receiptdt   |
| comment    | character | lcses.comment   |
| binloc     | character | lcses.binloc  |
| selectfl   | logical   | True when input OrderNumber, Ordersuf, and lineno match icses.orderno,ordersuf,lineno |
| statustype | logical   | lcses.currstatus  |
| reasunavty | character | lcses.reasunavty  |
| user1      | character | N/A   |
| user2      | character | N/A   |
| user3      | character | N/A   |
| user4      | character | N/A   |
| user5      | character | N/A   |
| user6      | decimal   | N/A   |
| user7      | decimal   | N/A   |
| user8      | date      | N/A   |
| user9      | date      | N/A   |

# ION API Technical Documentation

## **API Call:** *sxapiOEGetShopListPastSales*

**Purpose:** Retrieve a list of products that have been purchased before for a given customer.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| startMonth       | Input/Required | The required From Month  |
| startYear        | Input/Required | The required From Year (as YY, do not use YYYY)  |
| endMonth         | Input/Required | The required To Month  |
| endYear          | Input/Required | The required To Year (as YY, do not use YYYY)  |
| customerNumber   | Input/Required | The required customer #  |
| warehouse        | Input/Required | The required warehouse   |
| shipTo           | Input/Optional | The optional Ship To – if this value is blank, it only retrieves orders that have no shipto values.  |
| recordLimit      | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordFlag   | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| tt-shop_list     | Output         | The “tt-shop_list” collection  |

### **Notes:**

The tt-shop\_list collection contains one record for each product purchased by the customer in the From/To month / year time frame. The following fields exist in the collection:

| Field | Data Type |
|-------|-----------|
|-------|-----------|

|               |      |
|---------------|------|
| addswoptprodf | log  |
| arpprodline   | char |
| arpvendno     | dec  |
| chrg          | char |
| cono          | int  |
| csunperstk    | dec  |
| cubes         | dec  |
| stagecd       | char |
| descrip2      | char |
| discamt       | dec  |
| discoverfl    | log  |
| dsplprod      | char |
| extra-1       | char |
| extra-2       | char |
| icspecrecno   | int  |
| keyindex      | char |
| lastprice     | dec  |
| lookupnm      | char |
| marginamt     | dec  |
| netord        | dec  |
| netrecommend  | dec  |
| notesfl       | char |
| oper2         | char |
| operinit      | char |
| optionalwords | char |
| pdsrecno      | int  |
| pdsvfl        | log  |
| prccostper    | char |
| price         | dec  |

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|                 |      |
|-----------------|------|
| priceoverfl     | log  |
| prod            | char |
| prodcatt        | char |
| prodcost        | dec  |
| qtyavail        | dec  |
| qtybreakty      | char |
| qtyord          | dec  |
| qtyrecommend    | dec  |
| seasontype      | char |
| seqno           | int  |
| specconv        | dec  |
| speccostty      | char |
| specsntype      | char |
| statmessage     | char |
| stkqtyord       | dec  |
| stkqtyrecommend | dec  |
| totalstkqty     | dec  |
| transdt         | date |
| transrroc       | char |
| transtm         | char |
| unit            | char |
| unitconv        | dec  |
| weight          | dec  |
| whse            | char |

# ION API Technical Documentation

**API Call:** *sxapiOEGetSerialList***Purpose:** Retrieve Serial Records for Order Entry**Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified                                |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)         |
| warehouse         | Input          | Whse   |
| productCode       | Input          | Product  |
| returnFlag        | Input          | Returnfl   |
| orderNumber       | Input/Optional | Order Number   |
| orderSuffix       | Input/Optional | Order Suffix   |
| lineNumber        | Input/Optional | Line No  |
| sequenceNumber    | Input/Optional | Sequence No  |
| returnOrderNumber | Input/Optional | Return Order #   |
| returnOrderSuffix | Input/Optional | Return Order Suffix  |
| returnLineNumber  | Input/Optional | Return Line #  |
| t-infieldvalue    | Input          | t-infieldvalue   |
| t-serialdata      | Output         | t-serialdata   |
| t-outfieldvalue   | Output         | Table t-outfieldvalue  |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter. |

**Notes:**

When Order Information is included, it will look for serials reserved against that order. Order information is never passed from Storeroom.

Return Order Information is included when a tied return is being created from Storeroom. This will be the original order and all serials shipped on the original order that are available to return will display. If no Return Order Information is included for a return, all sold serials will be returned.

This runs the API call Create-OE-Serial-Entry-TT.

The “t-serialdata” collection contains the following fields:

| Field Name | Data Type |
|------------|-----------|
| Serialno   | character |
| statustype | character |
| receiptdt  | date      |
| comment    | character |
| binloc     | character |
| selectfl   | logical   |
| reasunavty | character |

# ION API Technical Documentation

## **API Call:** *sxapiOEGetSingleBatchOrder*

**Purpose:** Retrieve the data for a single OE Batch Order.

### **Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified  |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)   |
| batchName         | Input          | The required OE Batch Name   |
| sequenceNumber    | Input          | The required Sequence #  |
| lineSort          | Input          | Line Item Sort (currently not used)  |
| includeHeaderData | Input          | Retrieve Header Data Flag  |
| includeTotalData  | Input          | Retrieve Total Data Flag   |
| includeTaxData    | Input          | Retrieve Taxing Data Flag  |
| includeLineData   | Input          | Retrieve Line Item data flag   |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter.                                       |
| t-fieldlist       | Output         | The t-fieldlist collection – containing header / total / taxes data (see below)                              |
| t-oebtchIn        | Output         | The t-oebtchIn collection – containing line item data if the line item data retrieval flag was set to “yes”. |

### **Notes:**

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be return. The following is a list of possible values:

| Field Name | Field Value |
|------------|-------------|
| Fieldname  | char        |
| Fieldvalue | char        |

The **t-oebtchIn** collection is defined as follows:

| Field Name  | Data Type |
|-------------|-----------|
| batchnm     | character |
| seqno       | numeric   |
| lineno      | numeric   |
| specnstype  | character |
| shipprod    | character |
| proddesc    | character |
| prodnotesfl | character |
| commentfl   | character |
| qtyord      | numeric   |
| stkqtyord   | numeric   |
| unit        | character |
| oeelbrecid  | recid     |
| csunperstk  | numeric   |
| speconv     | numeric   |
| prccostper  | character |
| speccostty  | character |
| icspecrecno | numeric   |
| price       | numeric   |
| prodcost    | numeric   |
| discamt     | numeric   |
| netamt      | numeric   |
| dsplprice   | character |
| dspldiscamt | character |
| dsplnetamt  | character |
| sortfld     | character |

# ION API Technical Documentation

## **API Call:** *sxapiOEGetSingleOrder*

**Purpose:** This call is used to retrieve the data for a single OE order. There are several passed parameters that control the set of data elements to be retrieved.

### **Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified  |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)   |
| orderNumber       | Input          | Order # - This is the required OE order #  |
| orderSuffix       | Input          | Order Suffix – This is the required OE order suffix  |
| lineSort          | Input          | Line item sort – see notes below   |
| includeHeaderData | Input          | Header data retrieval flag (yes/no)  |
| includeTotalData  | Input          | Total data retrieval flag  |
| includeTaxData    | Input          | Tax data retrieval flag  |
| includeLineData   | Input          | Line item data retrieval flag  |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter.                                     |
| t-fieldlist       | Output         | t-fieldlist collection - containing header / total /taxes data (see note below)                            |
| t-oelineitem      | Output         | t-oelineitem collection – containing line item data if the Line item data retrieval flag was set to “yes”. |

### **Notes:**

The Line Item Sort parameter controls the sorting of the OE line items as follows:

- “a” – Sort by Line #
- “b” – Sort by Product
- “c” – Sort by Description

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be returned. The following is a list of the possible values (based on the input parameter flags above that control what section of data should be returned):

| Field Name          | Field Value                            |
|---------------------|--|
| <b>Header data:</b> |  |
| orderno             | oeeh.orderno                           |
| ordersuf            | oeeh.ordersuf                          |
| custno              | oeeh.custno                            |
| shipto              | oeeh.shipto                            |
| transtype           | oeeh.transtype                         |
| stage               | oeeh.stagecd (words in the integer)    |
| approvty            | oeeh.approvty                          |
| takenby             | oeeh.takenby                           |
| whse                | oeeh.whse                              |
| orderdisp           | oeeh.orderdisp (spelled out)           |
| bo                  | The letters “BO” if oeoh.borelfl = yes |
| name                | arsc.name                              |
| drholdfl            | oeeh.drholdfl (Direct Route)           |
| drdeldt             | oeeh.drdeldt (Direct Route)            |
| drdeltm             | oeeh.drdelmt (Direct Route)            |
| drexpl              | oeeh.expfl (Direct Route)              |
| phoneno             | arss/arsc.phoneno                      |
| pophoneno           | arss/arsc.pophoneno                    |
| shipviaty           | oeeh.shipviaty                         |
| shipviatydesc       | oeeh.shipviaty description (SASTA)     |
| subfl               | oeeh.subfl                             |
| bofl                | oeeh.bofl                              |
| shiptonm            | oeeh.shiptonm                          |
| shiptoaddr1         | oeeh.shiptoaddr[1]                     |

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|             |  |
|-------------|--|
| shiptoaddr2 | oeeh.shiptoaddr[2]                         |
| shiptocity  | oeeh.shiptocity                            |
| shiptost    | oeeh.shiptost                              |
| shiptozip   | oeeh.shiptozip                             |
| jobno       | oeeh.jobno                                 |
| custpo      | oeeh.custpo                                |
| refer       | oeeh.refer                                 |
| shipinstr   | oeeh.shipinstr                             |
| route       | oeeh.route                                 |
| slsrepin    | oeeh.slsrepin                              |
| slsrepout   | oeeh.slsrepout                             |
| contactid   | oeeh.contactid                             |
| contactnm   | oeeh.contactid (contacts.firstnm / lastnm) |
| fpcustno    | oeeh.fpcustno (Financed Thru: ### xxxx)    |
| soldtonm    | arss/arsc.name                             |
| soldtoaddr1 | arss/arsc.addr[1]                          |
| soldtoaddr2 | arss/arsc.addr[2]                          |
| soldtocity  | arss/arsc.city                             |
| soldtost    | arss/arsc.state                            |
| soldtozipcd | arss/arsc.zipcd                            |

## Total Data:

|               |                                  |
|---------------|----------------------------------|
| actfreight    | oeeh.actfreight                  |
| billdt        | oeeh.billdt                      |
| canceldt      | oeeh.canceldt                    |
| addcodamt     | oeeh.codcollamt                  |
| enterdt       | oeeh.enterdt                     |
| inbndfrtfl    | oeeh.inbndfrtfl                  |
| invoicedt     | oeeh.invoicedt                   |
| jrnlno2       | oeeh.jrnlno2 (Invoice Journal #) |
| nopackages    | oeeh.nopackages                  |
| outbndfrtfl   | oeeh.outbndfrtfl                 |
| paiddt        | oeeh.paiddt                      |
| pickeddt      | oeeh.pickeddt                    |
| pickinit      | oeeh.pickinit                    |
| pkgid         | oeeh.pkgid                       |
| placedby      | oeeh.placedby                    |
| promisedt     | oeeh.promisedt                   |
| reqshipdt     | oeeh.reqshipdt                   |
| shipdt        | oeeh.shipdt                      |
| specdiscamt   | oeeh.specdiscamt                 |
| taxamt        | oeeh.taxamt[1-4]                 |
| tendamt       | oeeh.tendamt                     |
| termsdiscamt  | oeeh.termsdiscamt                |
| termspct      | oeeh.termspct                    |
| termstype     | oeeh.termstype                   |
| termstypedesc | sasta.descrip for oeeh.termstype |
| totcost       | oeeh.totcost                     |
| totcostord    | oeeh.totcostord                  |
| totinvamt     | oeeh.totinvamt                   |
| totlineamt    | oeeh.totlineamt                  |
| totlineord    | oeeh.totlineord                  |
| wodiscamt     | oeeh.wodiscamt                   |
| rebatecost    | oeeh.vendrebord / vendrebamtg    |
| addonno       | oeeh.addonno[1-4] or addon table |
| addondesc     | sastn.descrip from oeeh.addonno  |
| addonnet      | oeeh.addonnet                    |



# ION API Technical Documentation

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## Tax Data:

|                 |  |
|-----------------|--|
| taxnontaxtype   | oeeh/arss/arsc nontaxtype                  |
| taxoverride     | sasta.descrip from oeeh.taxovercd          |
| taxdefault      | Text for tax default                       |
| taxpstlicenseno | Canadian – oeeh.pstlicenseno               |
| taxstatecd      | Canadian – sasgs.descrip from oeeh.statecd |
| taxauth         | Canadian – sasgl.descrip from oeeh.taxauth |
| taxpstamount    | Canadian – oeeh.taxamt[1]                  |
| Taxes           | taxgstamount Canadian – oeeh.taxamt[4]     |

The t-oelineitem collection is defined as follows:

| <b>Field Name</b> | <b>Type</b>                             |
|-------------------|---|
| Lineno            | integer                                 |
| Specnstype        | character                               |
| Prod              | character                               |
| Desc1             | character                               |
| Desc2             | character                               |
| Unit              | character                               |
| Qtyord            | decimal                                 |
| Qtyship           | decimal                                 |
| Price             | decimal                                 |
| Discamt           | decimal                                 |
| Disctype          | character                               |
| Netord            | decimal                                 |
| Netamt            | decimal (extended amt based on qtyship) |
| Sortfld           | character (sort key for collection)     |

# ION API Technical Documentation

## **API Call:** *sxapiOEGetSingleOrderV2*

**Purpose:** This call is used to retrieve the data for a single OE order. There are several passed parameters that control the set of data elements to be retrieved.

### **Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified  |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)   |
| orderNumber       | Input/Required | Order # - This is the required OE order #  |
| orderSuffix       | Input/Required | Order Suffix – This is the required OE order suffix  |
| lineSort          | Input/Optional | Line item sort – see notes below   |
| includeHeaderData | Input/Required | Header data retrieval flag (boolean)   |
| includeTotalData  | Input/Required | Total data retrieval flag  |
| includeTaxData    | Input/Required | Tax data retrieval flag  |
| includeLineData   | Input/Required | Line item data retrieval flag  |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter.                                     |
| t-fieldlist       | Output         | t-fieldlist collection - containing header / total /taxes data (see note below)                            |
| t-oelineitem      | Output         | t-oelineitem collection – containing line item data if the Line item data retrieval flag was set to “yes”. |
| t-oetaxsa         | Output         | t-oetaxsa collection – containing taxing information   |
| t-oetaxar         | Output         | t-oetaxar collection – containing taxing information   |

### **Notes:**

The Line Item Sort parameter controls the sorting of the OE line items as follows:

“a” – Sort by Line #

“b” – Sort by Product

“c” – Sort by Description

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be returned. The following is a list of the possible values (based on the input parameter flags above that control what section of data should be returned):

| Level  | Field Name              | Field Value                            |
|--------|-------------------------|--|
| Header | orderno                 | oeeh.orderno                           |
| Header | ordersuf                | oeeh.ordersuf                          |
| Header | custno                  | oeeh.custno                            |
| Header | shipto                  | oeeh.shipto                            |
| Header | transtype               | oeeh.transtype                         |
| Header | stage                   | oeeh.stagecd (words in the integer)    |
| Header | approvty                | oeeh.approvty                          |
| Header | takenby                 | oeeh.takenby                           |
| Header | whse                    | oeeh.whse                              |
| Header | orderdisp               | oeeh.orderdisp (spelled out)           |
| Header | bo                      | The letters “BO” if oeeh.borelfl = yes |
| Header | name                    | arsc.name                              |
| Header | drholdfl                | oeeh.drholdfl (Direct Route)           |
| Header | drdeldt                 | oeeh.drdeldt (Direct Route)            |
| Header | drdeltm                 | oeeh.drdelmt (Direct Route)            |
| Header | drexpl                  | oeeh.expfl (Direct Route)              |
| Header | DatePaidInvoiceReversal | oeeh.arrevdtmz                         |
| Header | phoneno                 | arss/arsc.phoneno                      |
| Header | pophoneno               | arss/arsc.pophoneno                    |
| Header | shipviaty               | oeeh.shipviaty                         |
| Header | shipviatydesc           | oeeh.shipviaty description (SASTA)     |
| Header | subfl                   | oeeh.subfl                             |
| Header | bofl                    | oeeh.bofl                              |

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|        |               |  |
|--------|---------------|--|
| Header | shiptonm      | oeeh.shiptonm                              |
| Header | shiptoaddr1   | oeeh.shiptoaddr[1]                         |
| Header | shiptoaddr2   | oeeh.shiptoaddr[2]                         |
| Header | shiptocity    | oeeh.shiptocity                            |
| Header | shiptost      | oeeh.shiptost                              |
| Header | shiptozip     | oeeh.shiptozip                             |
| Header | jobno         | oeeh.jobno                                 |
| Header | custpo        | oeeh.custpo                                |
| Header | refer         | oeeh.refer                                 |
| Header | shipinstr     | oeeh.shipinstr                             |
| Header | route         | oeeh.route                                 |
| Header | slsrepin      | oeeh.slsrepin                              |
| Header | slsrepout     | oeeh.slsrepout                             |
| Header | contactid     | oeeh.contactid                             |
| Header | contactnm     | oeeh.contactid (contacts.firstnm / lastnm) |
| Header | fpcustno      | oeeh.fpcustno (Financed Thru: ### xxxx)    |
| Header | soldtonm      | arss/arsc.name                             |
| Header | soldtoaddr1   | arss/arsc.addr[1]                          |
| Header | soldtoaddr2   | arss/arsc.addr[2]                          |
| Header | soldtocity    | arss/arsc.city                             |
| Header | soldtost      | arss/arsc.state                            |
| Header | soldtozipcd   | arss/arsc.zipcd                            |
|        |               |  |
| Total  | actfreight    | oeeh.actfreight                            |
| Total  | billdt        | oeeh.billdt                                |
| Total  | canceldt      | oeeh.canceldt                              |
| Total  | addcodamt     | oeeh.codcollamt                            |
| Total  | enterdt       | oeeh.enterdt                               |
| Total  | inbndfrtfl    | oeeh.inbndfrtfl                            |
| Total  | invoicedt     | oeeh.invoicedt                             |
| Total  | jrnlno2       | oeeh.jrnlno2                               |
| Total  | nopackages    | oeeh.nopackages                            |
| Total  | outbndfrtfl   | oeeh.outbndfrtfl                           |
| Total  | paiddt        | oeeh.paiddt                                |
| Total  | pickeddt      | oeeh.pickeddt                              |
| Total  | pickinit      | oeeh.pickinit                              |
| Total  | pkgid         | oeeh.pkgid                                 |
| Total  | placedby      | oeeh.placedby                              |
| Total  | promisedt     | oeeh.promisedt                             |
| Total  | reqshipdt     | oeeh.reqshipdt                             |
| Total  | shipdt        | oeeh.shipdt                                |
| Total  | specdiscamt   | oeeh.specdiscamt                           |
| Total  | taxamt        | oeeh.taxamt[1-4]                           |
| Total  | tendamt       | oeeh.tendamt                               |
| Total  | termsdiscamt  | oeeh.termsdiscamt                          |
| Total  | termspct      | oeeh.termspct                              |
| Total  | termstype     | oeeh.termstype                             |
| Total  | termstypedesc | sasta.descrip for oeeh.termstype           |
| Total  | totcost       | oeeh.totcost                               |
| Total  | totcostord    | oeeh.totcostord                            |
| Total  | totinvamt     | oeeh.totinvamt                             |
| Total  | totlineamt    | oeeh.totlineamt                            |
| Total  | totlineord    | oeeh.totlineord                            |
| Total  | wodiscamt     | oeeh.wodiscamt                             |
| Total  | rebatecost    | oeeh.vendrebord / vendrebamtg              |
| Total  | addonno       | oeeh.addonno[1-4] or addon table           |
| Total  | addondesc     | sastn.descrip from oeeh.addonno            |
| Total  | addonnet      | oeeh.addonnet                              |

# ION API Technical Documentation

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|       |                 |  |
|-------|-----------------|--|
| Taxes | taxnontaxtype   | oeeh/arss/arsc nontaxtype                  |
| Taxes | taxoverride     | sasta.descrip from oeeh.taxovercd          |
| Taxes | taxdefault      | Text for tax default                       |
| Taxes | taxpstlicenseno | Canadian – oeeh.pstlicenseno               |
| Taxes | taxstatecd      | Canadian – sasgs.descrip from oeeh.statecd |
| Taxes | taxauth         | Canadian – sasgl.descrip from oeeh.taxauth |
| Taxes | taxpstamount    | Canadian – oeeh.taxamt[1]                  |
| Taxes | taxgstamount    | Canadian – oeeh.taxamt[4]                  |

The t-oelineitem collection is defined as follows:

| <b>Field Name</b> | <b>Type</b>                             |
|-------------------|---|
| Lineno            | integer                                 |
| Specnstype        | character                               |
| Prod              | character                               |
| Desc1             | character                               |
| Desc2             | character                               |
| Unit              | character                               |
| Qtyord            | decimal                                 |
| Qtyship           | decimal                                 |
| Price             | decimal                                 |
| Discamt           | decimal                                 |
| Disctype          | character                               |
| Netord            | decimal                                 |
| Netamt            | decimal (extended amt based on qtyship) |
| Sortfld           | character (sort key for collection)     |

The t-oetaxsa collection

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| Seqno             | int         |
| locallabels       | string      |
| taxcode           | string      |
| localdescrip      | string      |
| taxgroupnm        | string      |
| taxamt            | string      |
| taxsaleamt        | string      |

The t-oetaxar collection

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| recty             | int         |
| localcode         | string      |
| taxsalebase       | string      |
| taxsaleamt        | string      |
| taxsalesrt        | int         |
| taxuseamt         | string      |
| taxusert          | int         |
| taxtransamt       | string      |
| taxtransrt        | int         |
| taxexcamt         | string      |
| taxexcrt          | int         |

# ION API Technical Documentation

## **API Call:** *sxapiOEGetSingleOrderV3*

**Purpose:** This call is used to retrieve the data for a single OE order. There are several passed parameters that control the set of data elements to be retrieved.

### **Parameters:**

| REST Params       | Direction      | Description  |
|-------------------|----------------|--|
| companyNumber     | Input/required | Company #  |
| operatorInit      | Input/required | SASO operator for the company specified  |
| operatorPassword  | Input/optional | SASO operator password (only required if business rule is set)   |
| orderNumber       | Input/Required | Order # - This is the required OE order #  |
| orderSuffix       | Input/Required | Order Suffix – This is the required OE order suffix  |
| lineSort          | Input/Optional | Line item sort – see notes below   |
| includeHeaderData | Input/Required | Header data retrieval flag (boolean)   |
| includeTotalData  | Input/Required | Total data retrieval flag  |
| includeTaxData    | Input/Required | Tax data retrieval flag  |
| includeLineData   | Input/Required | Line item data retrieval flag  |
| singleLineNumber  | Input/Required | Returns only the line item # specified. A zero will return all lines   |
| errorMessage      | Output         | Error message – Any error messages will be returned in this parameter.                                       |
| t-fieldlist       | Output         | t-fieldlist collection - containing header / total /taxes data (see note below)                              |
| t-oelineitem      | Output         | t-oelineitemV3 collection – containing line item data if the Line item data retrieval flag was set to “yes”. |
| t-oetaxsa         | Output         | t-oetaxsa collection – containing taxing information   |
| t-oetaxar         | Output         | t-oetaxar collection – containing taxing information   |

### **Notes:**

The Line Item Sort parameter controls the sorting of the OE line items as follows:

“a” – Sort by Line #

“b” – Sort by Product

“c” – Sort by Description

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be returned. The following is a list of the possible values (based on the input parameter flags above that control what section of data should be returned):

| Level  | Field Name    | Field Value                            |
|--------|---------------|--|
| Header | orderno       | oeeh.orderno                           |
| Header | ordersuf      | oeeh.ordersuf                          |
| Header | custno        | oeeh.custno                            |
| Header | shipto        | oeeh.shipto                            |
| Header | transtype     | oeeh.transtype                         |
| Header | stage         | oeeh.stagedcd (words in the integer)   |
| Header | approvty      | oeeh.approvty                          |
| Header | takenby       | oeeh.takenby                           |
| Header | whse          | oeeh.whse                              |
| Header | orderdisp     | oeeh.orderdisp (spelled out)           |
| Header | bo            | The letters “BO” if oeeh.borelfl = yes |
| Header | name          | arsc.name                              |
| Header | drholdfl      | oeeh.drholdfl (Direct Route)           |
| Header | drdeldt       | oeeh.drdeldt (Direct Route)            |
| Header | drdeltm       | oeeh.drdelmtm (Direct Route)           |
| Header | drexpl        | oeeh.expfl (Direct Route)              |
| Header | phoneno       | arss/arsc.phoneno                      |
| Header | pophoneno     | arss/arsc.pophoneno                    |
| Header | shipviaty     | oeeh.shipviaty                         |
| Header | shipviatydesc | oeeh.shipviaty description (SASTA)     |
| Header | subfl         | oeeh.subfl                             |

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|        |             |  |
|--------|-------------|--|
| Header | bofl        | oeeh.bofl                                  |
| Header | shiptonm    | oeeh.shiptonm                              |
| Header | shiptoaddr1 | oeeh.shiptoaddr[1]                         |
| Header | shiptoaddr2 | oeeh.shiptoaddr[2]                         |
| Header | shiptocity  | oeeh.shiptocity                            |
| Header | shiptost    | oeeh.shiptost                              |
| Header | shiptozip   | oeeh.shiptozip                             |
| Header | jobno       | oeeh.jobno                                 |
| Header | custpo      | oeeh.custpo                                |
| Header | refer       | oeeh.refer                                 |
| Header | shipinstr   | oeeh.shipinstr                             |
| Header | route       | oeeh.route                                 |
| Header | slsrepin    | oeeh.slsrepin                              |
| Header | slsrepout   | oeeh.slsrepout                             |
| Header | contactid   | oeeh.contactid                             |
| Header | contactnm   | oeeh.contactid (contacts.firstnm / lastnm) |
| Header | fpcustno    | oeeh.fpcustno (Financed Thru: ### xxxx)    |
| Header | soldtonm    | arss/arsc.name                             |
| Header | soldtoaddr1 | arss/arsc.addr[1]                          |
| Header | soldtoaddr2 | arss/arsc.addr[2]                          |
| Header | soldtocity  | arss/arsc.city                             |
| Header | soldtost    | arss/arsc.state                            |
| Header | soldtozipcd | arss/arsc.zipcd                            |

|       |               |                                  |
|-------|---------------|----------------------------------|
| Total | actfreight    | oeeh.actfreight                  |
| Total | billdt        | oeeh.billdt                      |
| Total | canceldt      | oeeh.canceldt                    |
| Total | addcodamt     | oeeh.codcollamt                  |
| Total | enterdt       | oeeh.enterdt                     |
| Total | inbndfrtfl    | oeeh.inbndfrtfl                  |
| Total | invoicedt     | oeeh.invoicedt                   |
| Total | jrnlno2       | oeeh.jrnlno2                     |
| Total | nopackages    | oeeh.nopackages                  |
| Total | outbndfrtfl   | oeeh.outbndfrtfl                 |
| Total | paidt         | oeeh.paidt                       |
| Total | pickeddt      | oeeh.pickeddt                    |
| Total | pickinit      | oeeh.pickinit                    |
| Total | pkgid         | oeeh.pkgid                       |
| Total | placedby      | oeeh.placedby                    |
| Total | promisedt     | oeeh.promisedt                   |
| Total | reqshipdt     | oeeh.reqshipdt                   |
| Total | shipdt        | oeeh.shipdt                      |
| Total | specdiscamt   | oeeh.specdiscamt                 |
| Total | taxamt        | oeeh.taxamt[1-4]                 |
| Total | tendamt       | oeeh.tendamt                     |
| Total | termsdiscamt  | oeeh.termsdiscamt                |
| Total | termspct      | oeeh.termspct                    |
| Total | termstype     | oeeh.termstype                   |
| Total | termstypedesc | sasta.descrip for oeeh.termstype |
| Total | totcost       | oeeh.totcost                     |
| Total | totcostord    | oeeh.totcostord                  |
| Total | totinvamt     | oeeh.totinvamt                   |
| Total | totlineamt    | oeeh.totlineamt                  |
| Total | totlineord    | oeeh.totlineord                  |
| Total | wodiscamt     | oeeh.wodiscamt                   |
| Total | rebatecost    | oeeh.vendrebord / vendrebamtg    |
| Total | addonno       | oeeh.addonno[1-4] or addon table |
| Total | addondesc     | sastn.descrip from oeeh.addonno  |

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|       |                 |  |
|-------|-----------------|--|
| Total | addonnet        | oeeh.addonnet                              |
| Taxes | taxnontaxtype   | oeeh/arss/arsc nontaxtype                  |
| Taxes | taxoverride     | sasta.descrip from oeeh.taxovercd          |
| Taxes | taxdefault      | Text for tax default                       |
| Taxes | taxpstlicenseno | Canadian – oeeh.pstlicenseno               |
| Taxes | taxstatecd      | Canadian – sasgs.descrip from oeeh.statecd |
| Taxes | taxauth         | Canadian – sasgl.descrip from oeeh.taxauth |
| Taxes | taxpstamount    | Canadian – oeeh.taxamt[1]                  |
| Taxes | taxgstamount    | Canadian – oeeh.taxamt[4]                  |

The t-oelineitemV3 collection is defined as follows:

| <b>Field Name</b> | <b>Type</b>                             |
|-------------------|---|
| Lineno            | integer                                 |
| Specnstype        | character                               |
| Prod              | character                               |
| Desc1             | character                               |
| Desc2             | character                               |
| Unit              | character                               |
| Qtyord            | decimal                                 |
| Qtyship           | decimal                                 |
| Price             | decimal                                 |
| Discamt           | decimal                                 |
| Disctype          | character                               |
| Netord            | decimal                                 |
| Netamt            | decimal (extended amt based on qtyship) |
| Sortfld           | character (sort key for collection)     |
| Rushfl            | logical                                 |
| Botype            | character                               |
| Promisedt         | date                                    |
| Reqshipdt         | date                                    |
| Ordertype         | character                               |
| Orderaltno        | integer                                 |
| Tiedorder         | character                               |
| Bono              | integer                                 |
| Stkqtyord         | decimal                                 |
| Stkqtyship        | decimal                                 |

The t-oetaxsa collection

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| Seqno             | int         |
| locallabels       | string      |
| taxcode           | string      |
| localdescrip      | string      |
| taxgroupnm        | string      |
| taxamt            | string      |
| taxsaleamt        | string      |

The t-oetaxar collection

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| recty             | int         |
| localcode         | string      |
| taxsalebase       | string      |
| taxsaleamt        | string      |
| taxsalesrt        | int         |
| taxuseamt         | string      |
| taxusert          | int         |
| taxtransamt       | string      |

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|            |        |
|------------|--------|
| taxtransrt | int    |
| taxexcamt  | string |
| taxexcrt   | int    |



# ION API Technical Documentation

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**API Call:** *sxapiOEHeaderUpdate*

**Purpose:** Updates select fields for an open OE order

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                        |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set) |
| Orderno          | Input/required | Order #  |
| Ordersuf         | Input          | Order suffix   |
| Oehdrupdate      | Input          | Array containing values to change                              |
| Infieldvalue     | Input          | Array containg custom data                                     |
| Outfieldvalue    | Output         | Array containing custom data                                   |
| Errormessage     | Output         | Field containg error messages                                  |

**Notes:**

The oehdrupdate array is defined as follows:

| Field Name | Type |
|------------|------|
| Seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

When a fieldname is ordersource,pickinit, printpickfl, pmfl, relateddocument, route, shipviaty,and user1 thru user24, then the fieldvalue should contain the data to update in the corresponding data field for the order specified

The Infieldvalue array is defined as follows: This array is currently not used.

| Field Name | Type |
|------------|------|
| level      | char |
| lineno     | int  |
| seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

The outfieldvalue array is defined as follows: This array is currently not used.

| Field Name | Type |
|------------|------|
| level      | char |
| lineno     | int  |
| seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

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**API Call:** *sxapiOEHoldAllOrders*

**Purpose:** This API call is used to hold all OE orders for a given Customer / Ship To.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber   | Input/Required | Customer # - The required customer # to operate upon.  |
| shipTo           | Input/Optional | Ship To – This parameter is optional. If left blank, all OE orders for the customer, regardless of Ship To will be operated upon. If passed, only those OE orders for this Ship To will be selected. |
| approvalType     | Input/Required | Approval Code – This should be any character other than “y”. If left blank, the system will use “h”.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| recordCount      | Output         | A record count of the OE orders that were updated.   |

**Notes:**

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## **API Call:** *sxapiOEOrderCalc*

**Purpose:** This API call is used to calculate taxes on product pricing.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| ttinHeader       | Input/Required | Array for a customer # and shipto info                                 |
| ttinLine         | Input/Optional | Array containing items for taxing purposes.                            |
| retnterrormess   | Output         | Error message – Any error messages will be returned in this parameter. |
| ttordloadhdrdata | Output         | Array containing output totals   |

### **Notes:**

This new API will allow a user to submit an order to calculate the line item totals. It will determine the addons and taxes for the line items of this potential order in an efficient manner. The performance goal of this API call is to process 100 line items in less than 1 sec. The output of the API will include the order total along with taxes and addons. It will also show the total time and the time for 3<sup>rd</sup> party taxing API. The difference between the total time and the tax API time should be less than 1 second. There will be no updates to the database as part of this API call.

| <b>ttinHeader array</b> |  |
|-------------------------|--|
| Column Name             | Source   |
| custno                  | Custno must be a valid customer #  |
| orderdisp               | Orderdisp is an optional order disposition code in case of a will call which changes the taxing jurisdiction to that of the whse |
| shiptonumber            | Shiptonumber is an optional ARSS shipto code   |
| shiptoname              | Shiptoname is part of an optional address w/o a shipto code  |
| shiptoaddr1             | Shiptoaddr1 is part of an optional address w/o a shipto code   |
| shiptoaddr2             | Shiptoaddr2 is part of an optional address w/o a shipto code   |
| shiptocity              | Shiptocity is part of an optional address w/o a shipto code  |
| shiptostate             | Shiptostate is part of an optional address w/o a shipto code   |
| shiptozip               | Shiptozip is part of an optional address w/o a shipto code   |
| shipvia                 | Shipvia is an optional shipviate type code   |
| whse                    | Whse is a required warehouse code  |

| <b>ttinline array - containing the line detail info</b> |   |
|---|---|
| Column Name   | Source  |
| lineno  | Lineno is required specifying the line # on the order   |
| itemnumber  | Itemnumber is a required product code   |
| orderqty  | Orderqty is a required qty > 0  |
| unitofmeasure   | Unitofmeasure is an optional UOM. It will default to stocking unit if it is omitted           |
| itemdesc1   | Itemdesc1 is provided for a non-stock product   |
| itemdesc2   | Itemdesc2 may be provided for a non-stock product   |
| extnetamt   | Extnetamt is required and retrieved from the extamt value of the sxapiOEpricingmultipleV5 API |
| nonstockflag  | Nonstockflag is "Y" for a non-stock product   |

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## **API Call:** *sxapiOEOrderChange*

**Purpose:** Change an Order Entry Order

### **Parameters:**

| REST Params         | Direction      | Description   |
|---------------------|----------------|---|
| companyNumber       | Input/required | Company #   |
| operatorInit        | Input/required | SASO operator for the company specified   |
| operatorPassword    | Input/optional | SASO operator password (only required if business rule is set)  |
| orderNumber         | Input/Required | The required Order #  |
| orderSuffix         | Input/Required | The required Order Suffix   |
| includeLines        | Input/Required | A flag indicating if existing OE line items (for that order) should be sent within an output collection |
| t-inoeordheader     | Input          | The input InLnHeader array (t-inoeordheader collection)   |
| t-inoeordline       | Input          | The input t-inoeordline collection  |
| t-inoeordlinecomp   | Input          | The input t-oeordlinecomp collection  |
| t-inoeordnotes      | Input          | The input t-inoeordnotes collection   |
| t-inoeordhdrextra   | Input          | The input t-inoeordhdrextra collection  |
| t-inoeordlineextra  | Input          | The input t-inoeordlineextra collection   |
| errorMessage        | Output         | Error message – Any error messages will be returned in this parameter.                                  |
| t-outoeordheader    | Output         | The output OutOutHeader(t-outoeordheader collection)  |
| t-outoeordline      | Output         | The output t-outoeordline collection  |
| t-oeordlinecomp     | Output         | The output t-oeordlinecomp collection   |
| t-outoeordnotes     | Output         | The output t-outoeordnotes collection   |
| t-outoeordhdrextra  | Output         | The output t-outoeordhdrextra collection  |
| t-outoeordlineextra | Output         | The output t-outoeordlineextra collection   |
| t-messages          | Output         | The output t-messages collection  |

### **Notes:**

This SXAPI call is intended to be executed twice. The first time the call is run, the 6 input collections should be empty. This indicates to the program that a “retrieval” operation is being requested. In this case, the 6 output collections will contain the latest data for the sales order being requested.

Then, changes are made to the collections and a second call is executed. For this second call, the original collections that were output parameters would be passed in as the input collections. Therefore, the same definition is used for the input and output collections.

The second execution of the call, assumes the input data was properly retrieved during the first execution – so it’s safe to perform updates against the Order Entry header, line items and notes records.

### **Order Header record changes:**

The first execution (retrieval) of the call returned the latest Order Header data (OEEH record). Therefore, any needed changes to any of these header level fields can be done using this collection. This collection is then passed in as the input REST Params 4 (t-inoeordheader). The SXAPI call will simply compare, field by field, what has changed and issue the appropriate Order Header update.

| <b>t-inoeordheader (for update) &amp; t-outoeordheader (for display) Arrays</b> |             |  |
|---|-------------|--|
| Column Name   | Update-able | Source                                 |
| actualfreight   |             | oeeh.actfreight                        |
| addonamount1  | Y           | addon.addonamt where addon.addonno = 1 |
| addonamount2  | Y           | addon.addonamt where addon.addonno = 2 |
| addonamount3  | Y           | addon.addonamt where addon.addonno = 3 |
| addonamount4  | Y           | addon.addonamt where addon.addonno = 4 |
| addonamount5  | Y           | addon.addonamt where addon.addonno = 5 |

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|              |   |   |
|--------------|---|---|
| addonamount6 | Y | addon.addonamt where addon.addonno = 6              |
| addonamount7 | Y | addon.addonamt where addon.addonno = 7              |
| addonamount8 | Y | addon.addonamt where addon.addonno = 8              |
| addondesc1   |   | sastn.descrip where sastn.codeid = "a"              |
| addondesc2   |   | sastn.descrip where sastn.codeid = "a"              |
| addondesc3   |   | sastn.descrip where sastn.codeid = "a"              |
| addondesc4   |   | sastn.descrip where sastn.codeid = "a"              |
| addondesc5   |   | sastn.descrip where sastn.codeid = "a"              |
| addondesc6   |   | sastn.descrip where sastn.codeid = "a"              |
| addondesc7   |   | sastn.descrip where sastn.codeid = "a"              |
| addondesc8   |   | sastn.descrip where sastn.codeid = "a"              |
| addonnet1    |   | addon.addonnet where addon.addonno = 1              |
| addonnet2    |   | addon.addonnet where addon.addonno = 2              |
| addonnet3    |   | addon.addonnet where addon.addonno = 3              |
| addonnet4    |   | addon.addonnet where addon.addonno = 4              |
| addonnet5    |   | addon.addonnet where addon.addonno = 5              |
| addonnet6    |   | addon.addonnet where addon.addonno = 6              |
| addonnet7    |   | addon.addonnet where addon.addonno = 7              |
| addonnet8    |   | addon.addonnet where addon.addonno = 8              |
| addonno1     | Y | addon.addonno[1] AddonNumber1                       |
| addonno2     | Y | addon.addonno[2] AddonNumber2                       |
| addonno3     | Y | addon.addonno[3] AddonNumber3                       |
| addonno4     | Y | addon.addonno[4] AddonNumber4                       |
| addonno5     | Y | addon.addonno[5] AddonNumber5                       |
| addonno6     | Y | addon.addonno[6] AddonNumber6                       |
| addonno7     | Y | addon.addonno[7] AddonNumber7                       |
| addonno8     | Y | addon.addonno[8] AddonNumber8                       |
| addontype1   | Y | addon.addontype where addon.addonno = 1             |
| addontype2   | Y | addon.addontype where addon.addonno = 2             |
| addontype3   | Y | addon.addontype where addon.addonno = 3             |
| addontype4   | Y | addon.addontype where addon.addonno = 4             |
| addontype5   | Y | addon.addontype where addon.addonno = 5             |
| addontype6   | Y | addon.addontype where addon.addonno = 6             |
| addontype7   | Y | addon.addontype where addon.addonno = 7             |
| addontype8   | Y | addon.addontype where addon.addonno = 8             |
| approvty     | Y | oeeh.approvty ApprovalType                          |
| apprinit     | Y | oeeh.apprinit ApproveInitials                       |
| boexistsfl   |   | oeeh.boexistsfl BackorderExistsFlag                 |
| bofl         | Y | oeeh.bofl Backorder allowed Flag                    |
| borefl       |   | oeeh.borefl BackorderReleaseFlag                    |
| bostage      |   | oeeh.bostage BackorderStage                         |
| billdt       | Y | oeeh.billdt BillDate                                |
| canceldt     | Y | oeeh.canceldt CancelDate                            |
| codcollamt   | Y | oeeh.codcollamt CodCollectedAmount                  |
| codfl        |   | oeeh.codfl CodFlag                                  |
| contactid    | Y | oeeh.contactid                                      |
| contactname  |   | contacts.firstnm + contacts.lastnm (not updateable) |
| countrycode  | Y | oeeh.countrycd                                      |
| crreasonty   | Y | oeeh.crreasonty CreditMemoReasonType                |
| custno       |   | oeeh.custno CustomerNumber                          |
| phoneno      |   | arsc.phoneno CustomerPhoneNumber                    |
| custpo       | Y | oeeh.custpo CustomerPurchaseOrder                   |
| datcoverfl   |   | oeeh.datcoverfl DatcOverrideFlag                    |
| drdeldt      |   | oeeh.drdeldt DirectRouteDeliveryDate                |
| drdeltm      |   | oeeh.drdeltm DirectRouteDeliveryTime                |

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|                |   |   |
|----------------|---|---|
| drexpl         | Y | oeeh.drexpl DirectRouteExportFlag               |
| drholdfl       |   | oeeh.drholdfl DirectRouteHoldFlag               |
| dwnpmtamt      |   | oeeh.dwnpmtamt DownPaymentAmount                |
| enterdt        |   | oeeh.enterdt EnterDate                          |
| filler1        |   | not used  |
| filler2        |   | not used  |
| filler3        |   | not used  |
| fpcustno       | Y | oeeh.fpcustno FloorPlanCustomerNumber           |
| inbndfrtfl     | Y | oeeh.inbndfrtfl InBoundFreightFlag              |
| invoicedt      |   | oeeh.invoicedt InvoiceDate                      |
| invno          | Y | oeeh.invno InvoiceNumber for a return           |
| invsuf         | Y | oeeh.invsuf InvoiceSuffix for a return          |
| jobno          | Y | oeeh.jobno JobNumber                            |
| jrnlno2        |   | oeeh.jrnlno2 Invoicing jrnln #                  |
| langcd         | Y | oeeh.langcd LanguageCode                        |
| linefl         |   | oeeh.linefl LineFlag                            |
| lockfl         | Y | oeeh.lockfl - Locks prices for ST and FO orders |
| lostbusty      | Y | oeeh.lostbusty LostBusinessType                 |
| lumpbillamt    | Y | oeeh.lumpbillamt LumpBillingAmount              |
| lumpbillfl     |   | oeeh.lumpbillfl LumpBillingFlag                 |
| lumppricefl    |   | oeeh.lumppricefl LumpPriceFlag                  |
| nextlineno     |   | oeeh.nextlineno                                 |
| nontaxtype     | Y | oeeh.nontaxtype                                 |
| nodolines      |   | oeeh.nodolines NumberDirectOrderLines           |
| nolineitem     |   | oeeh.nolineitem NumberLineItems                 |
| nopackages     |   | oeeh.nopackages Number of Packages              |
| orderdisp      | Y | oeeh.orderdisp OrderDisposition                 |
| orderdispword  |   | disposition description                         |
| outbndfrtfl    | Y | oeeh.outbndfrtfl OutBoundFreightFlag            |
| pkgid          |   | oeeh.pkgid PackageID                            |
| paiddt         |   | oeeh.paiddt                                     |
| pickcnt        |   | oeeh.pickcnt                                    |
| pickprtl       | Y | oeeh.pickprtl PickPrintFlag                     |
| pickeddt       |   | oeeh.pickeddt PickedDate                        |
| pickinit       |   | oeeh.pickinit Picked by Initials                |
| placedby       | Y | oeeh.placedby                                   |
| pmfl           | Y | oeeh.pmfl                                       |
| pricecd        | Y | oeeh.pricecd PriceCode                          |
| promisedt      | Y | oeeh.promisedt PromiseDate                      |
| proposalnumber | Y | oeeh.proposalno                                 |
| prosno         | Y | oeeh.prosno ProspectNumber                      |
| pstlicenseno   | Y | oeeh.pstlicenseno PstLicenseNumber              |
| pocontctnm     |   | arsc.pocontctnm PurchasingAgentName             |
| pophoneno      |   | arsc.pophoneno PurchasingAgentPhoneNumber       |
| refer          | Y | oeeh.refer Reference                            |
| regshipdt      | Y | oeeh.regshipdt RequestedShipDate                |
| route          | Y | oeeh.route                                      |
| slsrepin       | Y | oeeh.slsrepin SalesRepInside                    |
| slsrepout      | Y | oeeh.slsrepout SalesRepOutside                  |
| shipdate       |   | oeeh.shipdt                                     |
| shipto         |   | oeeh.shipto ShipTo code                         |
| shiptoaddr1    | Y | oeeh.shiptoaddr[1]                              |
| shiptoaddr2    | Y | oeeh.shiptoaddr[2]                              |
| shiptoaddr3    | Y | oeeh.shiptoaddr3                                |
| shiptocity     | Y | oeeh.shiptocity                                 |

# ION API Technical Documentation

|               |   |  |
|---------------|---|--|
| shiptonm      | Y | oeeh.shiptonm ShipToName   |
| shiptost      | Y | oeeh.shiptost ShipToState  |
| shiptozip     | Y | oeeh.shiptozip ShipToZip   |
| shipviaty     | Y | oeeh.shipviaty ShipViaType                                       |
| shipviatydesc |   | ShipViaTypeDescription   |
| shipinstr     | Y | oeeh.shipinstr ShippingInstructions                              |
| soldtoaddr1   |   | arsc or arss.addr[1]   |
| soldtoaddr2   |   | arsc or arss.addr[2]   |
| soldtoaddr3   |   | arsc or arss.addr3   |
| soldtocity    |   | arsc or arss.city  |
| soldtonm      |   | arsc or arss.name  |
| soldtost      |   | arsc or arss.state   |
| soldtozipcd   |   | arsc or arss.zipcd   |
| specdiscamt   | Y | oeeh.specdiscamt SpecialDiscountAmount                           |
| stagecd       |   | oeeh.stagecd StageCode   |
| stagecdword   |   | stage cd desc StageCodeWord                                      |
| stagingarea   | Y | oeeh.stagearea   |
| storddays     | Y | oeeh.storddays StandingOrderDays                                 |
| stordty       | Y | oeeh.stordty StandingOrderType                                   |
| statecd       | Y | oeeh.statecd StateCode   |
| subfl         | Y | oeeh.subfl SubstituteFlag  |
| takenby       | Y | oeeh.takenby   |
| taxamt1       |   | oeeh.taxamt[1]   |
| taxamt2       |   | oeeh.taxamt[2]   |
| taxamt3       |   | oeeh.taxamt[3]   |
| taxamt4       |   | oeeh.taxamt[4]   |
| taxauth       | Y | oeeh.taxauth TaxAuthority  |
| taxdeflty     | Y | oeeh.taxdeflty TaxDefaultType                                    |
| taxovercd     | Y | oeeh.taxovercd TaxOverrideCode                                   |
| taxoverfl     | Y | oeeh.taxoverfl TaxOverrideFlag                                   |
| taxablefl     | Y | oeeh.taxablefl TaxableFlag                                       |
| tendamt       | Y | oeeh.tendamt TenderAmount  |
| termdiscamt   | Y | oeeh.termdiscamt TermsDiscountAmount                             |
| termspct      | Y | oeeh.termspct TermsPercent                                       |
| termstype     | Y | oeeh.termstype TermsType   |
| termstypedesc |   | sasta.descrip where sasta.codieden = "t"<br>TermsTypeDescription |
| totcostord    |   | oeeh.totcostord TotalCostOrdered                                 |
| totcost       |   | oeeh.totcost TotalCostShipped                                    |
| totcubes      |   | oeeh.totcubes TotalCubes   |
| totinvord     |   | oeeh.totinvord TotalInvoiceAmountOrdered                         |
| totinvamt     |   | oeeh.totinvamt TotalInvoiceAmountShipped                         |
| totlineord    |   | oeeh.totlineord TotalLineAmountOrdered                           |
| totlineamt    |   | oeeh.totlineamt TotalLineAmountShipped                           |
| totqtyord     |   | oeeh.totqtyord TotalQuantityOrdered                              |
| totqtyshp     |   | oeeh. TotalQuantityShipped                                       |
| totweight     |   | oeeh.totweight TotalWeight                                       |
| transtype     |   | oeeh.transtype TransactionType                                   |
| usestepfl     | Y | oeeh.usestepfl UseTaxwareStepDataFlag                            |
| user1         | Y | oeeh.user1   |
| user2         | Y | oeeh.user2   |
| user3         | Y | oeeh.user3   |
| user4         | Y | oeeh.user4   |
| user5         | Y | oeeh.user5   |
| user6         | Y | oeeh.user6   |

# ION API Technical Documentation

|              |   |  |
|--------------|---|--|
| user7        | Y | oeeh.user7                               |
| user8        | Y | oeeh.user8                               |
| user9        | Y | oeeh.user9                               |
| vendrebamt   |   | oeeh.vendrebamt VendorRebateAmount       |
| whse         |   | oeeh.whse Warehouse                      |
| wodiscamt    | Y | oeeh.wodiscamt WholeOrderDiscountAmount  |
| wodiscoverfl |   | oeeh. WholeOrderDiscountOverrideFlag     |
| wodiscpct    | Y | oeeh.wodiscpct WholeOrderDiscountPercent |
| wodisctype   | Y | oeeh.wodisctype WholeOrderDiscountType   |

## Line Item record changes:

If existing line items are to be changed, then during the “retrieval” call, you should set the flag to indicate the data for the existing OE line items should be returned. Similar to the Order Header record changes, the line item collection is passed in as input parameter (t-inoeordline). The SXAPI call will read through this collection and process the line items as follows:

1. If an existing line item was to be changed, then the t-inoeordline.changerecordfl must be set to yes (true) and any other field can be altered. The changerecordfl field indicates to the program that some change was desired for this line item. Without setting this flag, that collection record will simply be ignored.
2. New line items can be added to the OE order by creating new line items within the collection. In this case, the t-inoeordline.newrecordfl must be set to yes (true). The next available line # from the Order Header will be used and this line item will be added to the order (after all editing).
3. Existing line items can be deleted. In this case, the t-inoeordline.deleterecordfl should be set to yes.

| t-inoeordline (for update) & t-outoeordline (for display) Arrays |             |   |
|--|-------------|---|
| Column Name  | Update-able | Source  |
| advertisingcode  | Y           | oeel.advertisingcode                                      |
| altwhse  |             | oeel.altwhse  |
| arpwhse  |             |   |
| bono   |             | oeel.bono BackorderNumber                                 |
| bonoptl  | Y           | oeel.bonoptl (BackorderNumberPartial)                     |
| botype   | Y           | oeel.botype BackorderType                                 |
| binloc   |             | oeel.binloc BinLocation                                   |
| bodfabwhse   | Y           | bodfabwhse  |
| cataddfl   | Y           | oeel.cataddfl   |
| changerecordfl   |             | True when changing line                                   |
| commentexternal  |             | com.noteln where com.printfl = yes                        |
| commentfl  |             | oeel.commentfl CommentFlag                                |
| commentinternal  |             | com.noteln where com.printfl = no                         |
| commtype   | Y           | oeel.commtype CommissionType                              |
| corecharge   | Y           | oeel.corecharge   |
| corechgfl  | Y           | if oeel.corechgty = "r" then true                         |
| corertnty  | Y           | oeel.corertnty CoreReturnTypes                            |
| creasonty  |             | oeel.creasonty CorrectionReasonType                       |
| countfl  |             | Not used  |
| crprod   |             | ICSEC product for rectype = "C" CrossReferenceProductCode |
| xrefprodty   |             | oeel.xrefprodty CrossReferenceProductType                 |
| custprod   | Y           | edil.custprod CustomerProductCode                         |
| datccost   | Y           | oeel.datccost   |
| delayresrvfl   | Y           | oeel.delayresrvfl DelayReserveFlag                        |
| deleterecordfl   |             | True when cancelling line                                 |
| proddesc   |             | oeel.proddesc Non-stk Description                         |
| proddesc2  |             | oeel.proddesc2 Non-stk Description2                       |
| doauth   | Y           | For PO tie DirectOrderAuthorization                       |



# ION API Technical Documentation

|              |   |  |
|--------------|---|--|
| docono       | Y | For WT tie DirectOrderCompanyNumber              |
| doconfirmfl  | Y | For PO tie DirectOrderConfirmingPOFlag           |
| doduedt      | Y | For PO tie DirectOrderDueDate                    |
| dofobfl      | Y | For PO tie DirectOrderFobFlag                    |
| doshipfmno   | Y | For PO tie DirectOrderShipFromNumber             |
| doshipviaty  | Y | for a PO/WT tie DirectOrderShipViaType           |
| dotype       | Y | for a PO/WT tie DirectOrderType                  |
| dovendno     | Y | Vendor # for a PO/WT tie DirectOrderVendorNumber |
| dowhse       | Y | Whse code for a PO/WT tie DirectOrderWarehouse   |
| discamt      | Y | oeel.discamt DiscountAmount                      |
| disccd       | Y | oeel.disccd DiscountCode                         |
| discpct      |   | oeel.discpct DiscountPercent                     |
| disctype     |   | oeel.disctype DiscountType                       |
| edilineneno  | Y | edil.edilineneno EdiLineNumber                   |
| enterdt      |   | oeel.enterdt EnterDate                           |
| frzrebtty    | Y | pder.frzrebtty FrozenRebateType                  |
| jobno        | Y | oeel.jobno JobNumber                             |
| kitfl        | Y | oeel.kitfl KitFlag                               |
| kitrollty    | Y | oeel.kitrollty KitRollType                       |
| kitsplitamt  | Y | oeel.kitsplitamt KitSplitAmount                  |
| LastUpdate   |   | oeel.transdt + oeel.transtm                      |
| leadtm       | Y | oeel.leadtm LeadTime                             |
| lineno       |   | oeel.lineneno                                    |
| linetype     |   |  |
| lostbustyl   | Y | oeel.lostbustyl LostBusinessType                 |
| manprice     |   | oeel.manprice ManualPriceFlag                    |
| mvname       | Y | for a PO tie ManualVendorName                    |
| netord       |   | oeel.netord NetAmountOrdered                     |
| netamt       |   | oeel.netamt NetAmountShipped                     |
| newrecordfl  |   | True for adding new line                         |
| nontaxtype   | Y | oeel.nontaxtype NonTaxType                       |
| orderaltno   |   | oeel.orderaltno OrderAlternateNumber             |
| ordertype    | Y | oeel.ordertype OrderType used for ties           |
| OrigCore     |   | oeel.origcore                                    |
| origprod     |   |  |
| ptlkitbofl   |   | PartialKitBackorderFlag                          |
| powtintfl    |   | PowtInterfaceFlag                                |
| Price        | Y | oeel.price                                       |
| priceclty    | Y | oeel.priceclty PriceCalculateType                |
| pdrecno      |   | oeel.pdrecno PriceDiscountingRecordNumber        |
| pricelevel   |   | oeel.pricecd PriceLevel                          |
| priceorigcd  | Y | oeel.priceorigcd PriceOriginCode                 |
| pricetype    |   | oeel.pricetype PriceType                         |
| printpricefl | Y | oeel.printpricefl PrintPriceFlag                 |
| prodcatt     | Y | oeel.prodcatt ProductCategory                    |
| shipprod     | Y | oeel.shipprod ProductCode                        |
| prodcost     | Y | oeel.prodcost (updateable for non-stocks)        |
| prodline     | Y | oeel.prodline (updateable for non-stocks)        |
| prodpricecd  |   | oeel.pricecd ProductPriceCode                    |
| pricetype    | Y | icsw.pricetype ProductType                       |
| promisedt    | Y | oeel.promisedt PromiseDate                       |
| promofl      |   | oeel.promofl PromotionalFlag                     |
| qtyord       | Y | oeel.qtyord                                      |

# ION API Technical Documentation

|              |   |   |
|--------------|---|---|
| qtyreturn    |   | oeel.qtyreturn QuantityReturn           |
| qtyship      | Y | oeel.qtyship QuantityShipped            |
| qtyunavail   | Y | oeel.qtyunavail                         |
| reasunavty   | Y | oeel.reasunavty ReasonUnAvailableType   |
| reqprod      | Y | oeel.reqprod RequestProductCode         |
| reqshipdt    | Y | oeel.reqshipdt RequestedShipDate        |
| restockamt   | Y | oeel.restockamt RestockAmount           |
| restockfl    | Y | oeel.restockfl RestockFlag              |
| restktaxgrp  | Y | oeel.restktaxgrp RestockTaxGroup        |
| returnfl     | Y | oeel.returnfl ReturnFlag                |
| retlineno    |   | oeel.retlineno ReturnLineNumber         |
| retorderno   |   | oeel.retorderno ReturnOrderNumber       |
| retordersuf  |   | oeel.retordersuf ReturnOrderSuffix      |
| returnty     |   | oeel.returnty Return Type               |
| rushfl       | Y | oeel.rushfl RushFlag                    |
| slsrepin     | Y | oeel.slsrepin SalesRepInside            |
| slsrepout    | Y | oeel.slsrepout SalesRepOutside          |
| seqno        |   |   |
| serlottype   |   | SerialLotType                           |
| specnstype   | Y | oeel.specnstype SpecialNonStockType     |
| stkqtyord    |   | oeel.stkqtyord StockingQuantityOrdered  |
| stkqtyship   |   | oeel.stkqtyship StockingQuantityShipped |
| subtotaldesc | Y | oeel.subtotaldesc SubtotalDescription   |
| subtotalfl   | Y | oeel.subtotalfl SubtotalFlag            |
| tallyfl      | Y | oeel.tallyfl TallyFlag                  |
| taxgroup     | Y | oeel.taxgroup TaxGroup                  |
| taxablefl    | Y | oeel.taxablefl TaxableFlag              |
| termspct     | Y | oeel.termspct TermsPercent              |
| unit         | Y | oeel.unit UnitOfMeasure                 |
| unitconv     |   | oeel.unitconv UnitOfMeasureConversion   |
| usagefl      | Y | oeel.usagefl UsageFlag                  |
| User1        | Y | oeel.user1                              |
| User2        | Y | oeel.user2                              |
| User3        | Y | oeel.user3                              |
| User4        | Y | oeel.user4                              |
| User5        | Y | oeel.user5                              |
| User6        | Y | oeel.user6                              |
| User7        | Y | oeel.user7                              |
| User8        | Y | oeel.user8                              |
| User9        | Y | oeel.user9                              |
| vawhse       | Y | ValueAddWarehouse                       |
| vname        |   | VendorName                              |
| vendno       | Y | oeel.vendno                             |
| vaddr1       | Y | for a PO tie VendorTieAddress1          |
| vaddr2       | Y | for a PO tie VendorTieAddress2          |
| vaddr3       | Y | for a PO tie VendorTieAddress3          |
| vcity        | Y | for a PO tie VendorTieCity              |
| vconfirmfl   | Y | for a PO tie VendorTieConfirmingPOFlag  |
| vduedt       | Y | for a PO tie VendorTieDueDate           |
| vfobfl       | Y | for a PO tie VendorTieFobFlag           |
| vshipfmno    | Y | for a PO tie VendorTieShipFromNumber    |
| vshipviaty   | Y | for a PO tie VendorTieShipViaType       |
| vstate       | Y | for a PO tie VendorTieState             |

# ION API Technical Documentation

|             |   |                                      |
|-------------|---|--------------------------------------|
| vvendno     | Y | for a PO tie VendorTieVendorNumber   |
| vzipcd      | Y | for a PO tie VendorTieZipCode        |
| wduedt      | Y | for a WT tie WarehouseTieDueDate     |
| wshipviaty  | Y | for a WT tie WarehouseTieShipViaType |
| wwhse       | Y | for a WT tie WarehouseTieWarehouse   |
| warrantycd  |   |                                      |
| warrexchgfl |   |                                      |
| warrstagecd |   |                                      |
| warrtag     | Y | oeel.warrtag WarrantyTag             |

## Note record changes:

Note record processing occurs in a similar way as line items. The first “retrieval” call will return all note records for the order. Each note record (NOTES table) will be represented in a separate collection row within t-outoeordnotes. This collection would be passed in the input parameter. Changes to existing notes records are done if the t-inoeordnotes.changerecordfl is set to yes. New notes records can be added if the t-inoeordnotes.newrecordfl is set to yes. Existing notes records can be deleted if the t-inoeordnotes.deleterecordfl is set to yes.

# ION API Technical Documentation

## **API Call:** *sxapiOEOrderCopyConvert*

**Purpose:** Delete or cancel an OE order

### **Parameters:**

| Param #                       | Direction      | Description   |
|-------------------------------|----------------|---|
| companyNumber                 | Input/required | Company #   |
| operatorInit                  | Input/required | SASO operator for the company specified                               |
| operatorPassword              | Input/optional |   |
| orderNumber                   | Input          | SASO operator password (only required if business rule is set)        |
| orderSuffix                   | Input          | Order Suffix  |
| transactionType               | Input          | Convert To Order Type   |
| reasonUnavailableType         | Input          |   |
| customerNumber                | Input          | New Customer Number   |
| shipTo                        | Input          | New Ship To   |
| warehouse                     | Input          | New Warehouse   |
| floorPlanCustomerNumber       | Input          | Invoice To Customer Number  |
| customerPurchaseOrderNumber   | Input          | Customer Purchase Order Number  |
| salesRepOutside               | Input          | Sales Rep Out   |
| salesRepInside                | Input          | Sales Rep In  |
| orderDisposition              | Input          | New Disposition   |
| saveOriginalOrder             | Input          | Save Original Quote Flag  |
| repriceOrder                  | Input          | Reprice Flag  |
| freezePrices                  | Input          | Freeze Prices Flag  |
| recalculateCost               | Input          | Recalculate Sales Manager Cost Flag                                   |
| resetAddons                   | Input          | Reset Addons Flag   |
| copyComments                  | Input          | Copy Comments Flag  |
| copyNotes                     | Input          | Copy Notes Flag   |
| copyEDIData                   | Input          | Copy EDI Flag   |
| copyInternalExternalSubtotals | Input          | Copy Internal/External Comments and Subtotals                         |
| successType                   | Output         | Quote Convert Success Flag<br>Y – released<br>N – error               |
| errorMessage                  | Output         | Error Message – Any error messages will be returned in this parameter |
| newOrderNumber                | Output         | New Order Number  |
| newOrderSuffix                | Output         | New Order Suffix  |

### **Notes:**

This API call is designed to mimic the OEET Copy / Convert logic. The fields that you see on the copy/convert screen are input parameters to this API call. The same rules that apply in CSD apply here. The same validation checks will occur.

# ION API Technical Documentation

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**API Call:** *sxapiOEOrderDeleteOrCancel*

**Purpose:** Delete or cancel an OE order

**Parameters:**

| REST Params        | Direction      | Description   |
|--------------------|----------------|---|
| companyNumber      | Input/required | Company #   |
| operatorInit       | Input/required | SASO operator for the company specified   |
| operatorPassword   | Input/optional | SASO operator password (only required if business rule is set)  |
| orderNumber        | Input/Required | The required Order # of the OE order to be deleted or cancelled.  |
| orderSuffix        | Input/Required | The required Order Suffix.  |
| deleteOrderFlag    | Input/Required | The delete flag. If this parameter = true, then the order will be deleted – otherwise it will be cancelled. |
| lostBusinessReason | Input/Optional | The optional lost business reason.  |
| errorMessage       | Output         | Error message – Any error messages will be returned in this parameter.                                      |

**Notes:**

# ION API Technical Documentation

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**API Call:** *sxapiOEOrderShipUnship*

**Purpose:** Ship or Unship an OE order

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                               |
| orderNumber      | Input/Required | The Order# of the OE order to be shipped/unshipped   |
| orderSuffix      | Input/Required | Order Suffix   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter (Blank means success). |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiOEPreauthCreditCard*

**Purpose:** Preauthorize credit card data via VeriSign

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| t-oeccpauth      | Input/Required | The required "t-oeccpauth" collection  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| recordNumber     | Output         | Record # of the "ccpreauth" record that was created for this Credit Card authorization request                     |
| commCode         | Output         | Credit Card Authorization "Communication Code<br>1=see cc response, 2=denied, 3=timeout, Other=connection problem" |
| response         | Output         | Credit Card Authorization Response Code  |
| authorization    | Output         | Credit Card Authorization Character Media Authorization (charmediaauth)  |

### **Notes:**

The t-oeccpauth collection

| Field               | Data Type  |
|---------------------|--|
| custno              | decimal (required)                                 |
| shipto              | character  |
| whse                | character (required)                               |
| creditcardnbr       | character  |
| paymenttype         | character (required:amex,visa,mastercard,discover) |
| creditcardexp       | character (mmyy)                                   |
| cardholder          | character  |
| cvv2                | character  |
| addr1               | character  |
| addr2               | character  |
| addr3               | character  |
| addr4               | character  |
| city                | character  |
| state               | character  |
| zip                 | character  |
| country             | character  |
| ponumber            | character  |
| shiptozip           | character  |
| taxamount           | decimal  |
| authorizationamount | decimal  |

# ION API Technical Documentation

## **API Call:** *sxapiOE Pricing*

**Purpose:** This call is used to return the price for a given product for a given customer. The price, discount and quantity available will be returned.

### **Parameters:**

| REST Params      | Direction       | Description   |
|------------------|-----------------|---|
| companyNumber    | Input/required  | Company #   |
| operatorInit     | Input/required  | SASO operator for the company specified   |
| operatorPassword | Input/optional  | SASO operator password (only required if business rule is set)  |
| customerNumber   | Input//Required | This is the numeric Customer #.   |
| shipTo           | Input/Optional  | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.   |
| warehouse        | Input/Optional  | The warehouse, as defined in ICSD. It is not absolutely required. If it's left blank, there will be additional logic to establish this value from the ARSC or ARSS records (or a default whse Business rule). If the program cannot locate a valid whse, it will error out. |
| quantity         | Input/Optional  | The quantity ordered. If passed as zero, it will default to 1.  |
| productCode      | Input/Required  | The product part #.   |
| unitOfMeasure    | Input/Optional  | Unit of measure – if left blank, the ICSP stocking unit of measure will be used.  |
| extraData        | input           | Extra parameter – currently not used.   |
| errorMessage     | Output          | Error message – Any error messages will be returned in this parameter.  |
| price            | Output          | The numeric price that was calculated.  |
| discountAmount   | Output          | The calculated discount amount (not extended)   |
| discountType     | Output          | A discount amount type indicator. This will be “%” or “\$” based on whether the discount amount is a percent or dollar.   |
| netAvailable     | Output          | The net available quantity for the product.   |

### **Notes:**



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## **API Call:** *sxapiOEPricingExternal*

**Purpose:** This call is used to return the price for a given product for a given customer. The price, discount quantity available, and other data elements will be returned.

Same as sxapiOEPricingV5 with highlighted changes

### **Parameters:**

| REST Params             | Direction      | Description   |
|-------------------------|----------------|---|
| companyNumber           | Input/required | Company #   |
| operatorInit            | Input/required | SASO operator for the company specified   |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)  |
| sasoApiKey              | Input/Required | The IFS User code found on the Status Information tab in SASO. This makes sure external users should have access to the SASO operator.  |
| customerNumber          | Input/Required | This is the numeric Customer #  |
| arscApiKey              | Input/Required | The new API Access ID in ARSC found on the Ecommerce tab would make sure that external users have access only to their customer   |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.   |
| warehouse               | Input/Optional | The warehouse, as defined in ICSD. It is not absolutely required. If it's left blank, there will be additional logic to establish this value from the ARSC or ARSS records (or a default whse Business rule). If the program cannot locate a valid whse, it will error out. |
| quantity                | Input/Optional | The quantity ordered. If passed as zero, it will default to 1.  |
| productCode             | Input/Required | The product part #.   |
| unitOfMeasure           | Input/Optional | Unit of measure – if left blank, the ICSP stocking unit of measure will be used.  |
| offerID                 | Input/Optional | Offer ID – Used as the customer price type for finding offer pricing from offer management  |
| extraData               | Input          | Extra parameter – currently not used.   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.  |
| price                   | Output         | The numeric price that was calculated.  |
| discountAmount          | Output         | The calculated discount amount (not extended)   |
| discountType            | Output         | A discount amount type indicator. This will be “%” or “\$” based on whether the discount amount is a percent or dollar.   |
| netAvailable            | Output         | The net available quantity for the product.   |
| specialCostType         | Output         | Special Cost Type (speccostty)  |
| priceCostPer            | Output         | Price Cost Per (prccostper)   |
| unitsPerStocking        | Output         | Units Per Stocking (csunperstk)   |
| specialConversion       | Output         | Special Conversion (speconv)  |
| specialCostRecordNumber | Output         | IC Special Cost Record # (icspecrecno)  |
| stockingQuantityOrdered | Output         | Stocking Qty Ordered (stkqtyord)  |
| unitConversion          | Output         | Unit Conversion (unitconv)  |
| pricingRecordNumber     | Output         | PD Record # (pdrecno)   |
| promotionalFlag         | Output         | Promotional Flag  |
| priceOriginCode         | Output         | Price Origin Code (priceorigcd)   |
| unitsPerStockingText    | Output         | Special Price Cost Text (cstpertext)  |
| extendedAmount          | Output         | Extended Amount   |
| extendedDiscountAmount  | Output         | Extended Discount Amount  |
| basePrice               | Output         |   |
| listPrice               | Output         |   |
| priceOnType             | Output         |   |

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|                          |        |  |
|--------------------------|--------|--|
| replacementCost          | Output | ICSW replacement cost. Will be zero if the operinit does not have saso security to view costs. |
| customerRebateAmount     | Output | Customer Rebate Amount, retrieved via oeip logic   |
| vendorRebateAmount       | Output | Vendor Rebate Amount, retrieved via oeip logic   |
| vendorRebateRecordNumber | Output | PDSR record#, retrieved via oeip logic   |

## Notes:

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## **API Call:** *sxapiOEPricingMultiple*

**Purpose:** This call is used to return the price for a given product for a given customer for multiple products (specified in an input collection). The price, discount quantity available, and other data elements will be returned in an output collection.

### **Parameters:**

| REST Params             | Direction       | Description   |
|-------------------------|-----------------|---|
| companyNumber           | Input/required  | Company #   |
| operatorInit            | Input/required  | SASO operator for the company specified   |
| operatorPassword        | Input/optional  | SASO operator password (only required if business rule is set)  |
| customerNumber          | Input//Required | This is the numeric Customer #  |
| shipTo                  | Input/Optional  | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.   |
| keyCode                 | Input           | Key Code (currently not used)   |
| getPriceBreaks          | Input/Required  | Price Break Flag – This parameter is used to specify if quantity break information should be returned for each product. This data will be returned in a separate output array.  |
| useDefaultWhse          | Input/Required  | Use Default Whse Flag – If this value is true, the input whse value will be used for pricing. If it is false, the API will search all warehouses containing this product  |
| sendFullQtyOnOrder      | Input/Required  | Full Qty On Order Flag – This parameter controls how the Quantity On Order and Due Date fields are set for the output collection (see notes below)  |
| checkOtherWhseInventory | Input/Required  | Check Other Warehouse Inventory Flag – This parameter controls how the “otherwhseinvfl” field is set for the output collection. If this flag = true and there is another ICSW record (for the same product and a different warehouse) on file that has a Net Available quantity, then the “otherwhseinvfl” will be set to “true”. |
| pricingMethod           | Input           | Pricing Method – This parameter should be “base” if you want to retrieve just base price (and you do not want to run the standard pricing logic), “list” for list price (no pricing logic). If it’s any other value (ex: “full”), then the standard pricing logic will be performed.  |
| extraData               | Input           | Extra Parameter – currently not used.   |
| t-oemultprcin           | Input           | The input “t-oemultprcin” collection. This collection specifies which products/warehouse should be priced (see notes below)   |
| errorMessage            | Output          | Error message – Any error messages will be returned in this parameter.  |
| t-oemultprcout          | Output          | The output “t-oemultprcout” collection. This contains the output data for each product passed in the “t-oemultprcin” collection. In some cases, there may be multiple records created in the “t-oemultprcout” collection for a given “t-oemultprcin” record (see notes below).  |
| t-oemultprcoutbrk       | Output          | The output “t-oemultprcoutbrk” collection. This contains the quantity break information for each product (if there was quantity break information available). This collection will only be created if the input parameter “Price Break Flag” (above) was passed as “yes”.   |

### **Notes:**

See notes for *sxapiOEPricingMultipleV4*

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# ION API Technical Documentation

## **API Call:** *sxapiOEPricingMultipleExternal*

**Purpose:** This call is used to return the price for a given product for a given customer for multiple products (specified in an input collection). The price, discount quantity available, and other data elements will be returned in an output collection. **Different from sxapiOEPricingMultipleV5 as highlighted.**

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| sasoApiKey              | Input/Required | The IFS User code found on the Status Information tab in SASO. This makes sure external users should have access to the SASO operator.   |
| customerNumber          | Input/Required | This is the numeric Customer #   |
| arscApiKey              | Input/Required | The new API Access ID in ARSC found on the Ecommerce tab would make sure that external users have access only to their customer  |
| ediPartnerCode          | Input/Optional | This is the optional Partner ID  |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.  |
| keyCode                 | Input          | Key Code (currently not used)  |
| getPriceBreaks          | Input/Required | Price Break Flag – This parameter is used to specify if quantity break information should be returned for each product. This data will be returned in a separate output array.   |
| useDefaultWhse          | Input/Required | Use Default Whse Flag – If this value is true, the input whse value will be used for pricing. If it is false, the API will search all warehouses containing this product   |
| sendFullQtyOnOrder      | Input/Required | Full Qty On Order Flag – This parameter controls how the Quantity On Order and Due Date fields are set for the output collection (see notes below)   |
| checkOtherWhseInventory | Input/Required | Check Other Warehouse Inventory Flag – This parameter controls how the “otherwhseinvfl” field is set for the output rows. If this flag = true and there is another ICSW record (for the same product and a different warehouse) on file that has a Net Available quantity, then the “otherwhseinvfl” will be set to “yes”. |
| pricingMethod           | Input          | Pricing Method – This parameter should be “base” if you want to retrieve just base price (and you do not want to run the standard pricing logic), “list” for list price (no pricing logic). If it’s any other value (ex: “full”), then the standard pricing logic will be performed.                                       |
| extraData               | Input          | Extra Parameter – currently not used.  |
| t-oemultprcinV2         | Input/Required | The input “t-oemultprcin” collection. This collection specifies which products/warehouse should be priced (see notes below)  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-oemultprcoutV4        | Output         | The output “t-oemultprcoutV4” collection. This contains the output data for each product passed in the “t-oemultprcin” collection. In some cases, there may be multiple records created in the “t-oemultprcoutV4” collection for a given “t-oemultprcin” record (see notes below).   |
| t-oemultprcoutbrk       | Output         | The output “t-oemultprcoutbrk” collection. This contains the quantity break information for each product (if there was quantity break information available). This collection will only be created if the input parameter “Price Break Flag” (above) was passed as “yes”.  |

### **Notes:**

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## Use Default Whse Flag:

If the warehouse field of the input collection is blank and this flag = yes, then the default warehouse for the customer (ARSC) will be used. If the default warehouse for the customer is blank and there is a Ship To (ARSS) involved, then that default warehouse will be used. If both of these are blank, then the pricing logic (for that product) will use the warehouse from the first ICSD record on file. If that product is not defined in that warehouse, then the pricing logic will error out.

## Full Qty On Order Flag:

Each output collection record contains a “qtyonorder” and “duedt” field. If the Full Qty On Order flag = yes, then the ICSW.QTYONORDER field will be used to set the collection “qtyonorder” field – and the duedt will be blank (no good way to determine a duedt if the full qtyonorder is returned). If this flag = no, then additional logic will be performed to find the best PO line item (POEL record) to be used to return that line item’s quantity and its due date. Please note that executing this logic can create significant overhead to the API call.

In this case, the PO line items (for that product / warehouse, for only open Purchase Orders – that is, prior to Received Stage) will be read and based on what is found, the following hierarchy will be used to determine which PO line item should be selected to return its quantity and due date:

1. Earliest due date that is in the future for a PO line item in Printed or beyond Stage (Since the PO has been at least printed, chances are a firm commitment to the vendor has been made).
2. Earliest due date that is in the future for a PO line item in Ordered Stage (although the PO has not been printed/sent to the vendor, at least it’s on order in CSD).
3. Oldest due date that is past due for a PO line item in Printed or beyond Stage (since no PO lines are in the future, might as well show the oldest one that is late)
4. Oldest due date that is past due for a PO line item in Ordered Stage.

## The t-oemultprcin Collection/Array:

This input collection contains one record for each product to be priced. The warehouse field within a given record can contain the following values:

1. A specific warehouse – In this case, that Product/Whse combination will be used to execute the pricing logic and a single “t-oemultprcout” collection record will be returned.
2. A comma-separated list of warehouses – In this case, each Product/Whse combination will be identified (based on the comma-separated list) and a single “t-oemultprcout” collection record will be created for each combination. That is, if 4 warehouses were passed in the “t-oemultprcin” record, then 4 records will be created in the “t-oemultprcout” collection.
3. The warehouse can be blank. If the Use Default Whse Flag = yes, then the ARSC/ARSS default warehouse (or the first ICSD warehouse) will be used and if valid, a single “t-oemultprcout” record will be created for that warehouse. If the Use Default Whse Flag = no, then the ICSW table will be read (for that product) to locate what warehouses contain that product. For each ICSD record found, a “t-oemultprcout” record will be created for that warehouse (icsw.whse).

The following is a list of fields defined in the “t-oemultprcin” collection:

| Field       | Data Type                         |
|-------------|-----------------------------------|
| Seqno       | integer                           |
| Whse        | character (recommended)           |
| Prod        | character (required)              |
| Operchannel | character (not used)              |
| Qtyord      | decimal                           |
| Unit        | character                         |
| Extradata   | character (used for custom logic) |
| User1       | character                         |
| User2       | character                         |
| User3       | character                         |
| User4       | character                         |
| User5       | character                         |

## The t-oemultprcoutV2 Collection/Array:

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This collection contains one record for each product/whse combination that was priced and contains the following fields:

| Field | Data Type |
|-------|-----------|
|-------|-----------|

## The t-oemultprcoutV4 Collection/Array:

This collection contains one record for each product/whse combination that was priced and contains the following fields:

| Field           | Data Type   |
|-----------------|---|
| Seqno           | integer (the same seqno passed in t-oemultprcin)                                      |
| Whse            | character (always a single valid whse)  |
| Prod            | character   |
| Qtyord          | decimal   |
| Stkqtyord       | decimal   |
| Unit            | character   |
| Unitconv        | decimal   |
| baseprice       | decimal   |
| listprice       | decimal   |
| priceonty       | decimal   |
| replcost        | decimal (ICSW replacement cost, 0 if no cost security)                                |
| custrebamt      | decimal (Rebate Amount, retrieved via oeip logic)                                     |
| vendrebamt      | decimal (Vendor Rebate Amount, retrieved via oeip logic)                              |
| vrbrecono       | decimal (PDSR record#, retrieved via oeip logic)                                      |
| User1           | character (if stock product, returns icsw.user1. Otherwise icsc.user1)                |
| User2           | character (if stock product, returns icsw.user2. Otherwise icsc.user2)                |
| User3           | character (if stock product, returns icsw.user3. Otherwise icsc.user3)                |
| User4           | character (if stock product, returns icsw.user4. Otherwise icsc.user4)                |
| User5           | character (if stock product, returns icsw.user5. Otherwise icsc.user5)                |
| Errormess       | character   |
| Price           | decimal (OEIP price)  |
| Discamt         | decimal   |
| Disctype        | character   |
| Extamt          | decimal (extended amount)   |
| Extdiscount     | decimal (extended discount)   |
| Netavail        | decimal   |
| Speccostty      | character (icss.speccostty)   |
| Prccostper      | character (icss.prccostper)   |
| Csunperstk      | decimal (icss.csunperstk)   |
| Specconv        | integer   |
| icspecrecno     | integer (icss.icspecrecno)  |
| Pdrecno         | integer   |
| Promofl         | logical   |
| Priceorigcd     | character   |
| Cstpertext      | character   |
| Qtyonorder      | decimal (icsw.qtyonord)   |
| Duedt           | date (most recent PO due date)  |
| Freightamount   | decimal (not used)  |
| Freightdiscfl   | logical   |
| Qtybreakexistfl | logical   |
| Spiffamount     | decimal (not used)  |
| Otherwhseinvfl  | logical (true if inventory exists in other whses and checkOtherWhseInventory is true) |
| Commission      | decimal (not used)  |
| replcost        | decimal   |
| custrebamt      | decimal   |
| vendrebamt      | decimal   |
| vrbrecono       | integer   |

## The t-oemultprcoutbrk Collection/Array:

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This collection contains one record for each product/whse combination that was priced and if there are quantity breaks (and the Price Break Flag parameter = yes). If a record is created in this collection, then the t-oemultprcrbk.qtybreakexistfl field will be set to "yes".

This collection contains the following fields:

| <b>Field</b>     | <b>Data Type</b>                                 |
|------------------|--|
| Seqno            | integer (the same seqno passed in t-oemultprcin) |
| Whse             | character (always a single valid whse)           |
| Prod             | character  |
| User1            | character  |
| User2            | character  |
| User3            | character  |
| User4            | character  |
| User5            | character  |
| Pricebreak1      | decimal  |
| Pricebreak2      | decimal  |
| Pricebreak3      | decimal  |
| Pricebreak4      | decimal  |
| Pricebreak5      | decimal  |
| Pricebreak6      | decimal  |
| Pricebreak7      | decimal  |
| Pricebreak8      | decimal  |
| Pricebreak9      | decimal  |
| Discountpercent1 | decimal  |
| Discountpercent2 | decimal  |
| Discountpercent3 | decimal  |
| Discountpercent4 | decimal  |
| Discountpercent5 | decimal  |
| Discountpercent6 | decimal  |
| Discountpercent7 | decimal  |
| Discountpercent8 | decimal  |
| Discountpercent9 | decimal  |
| Quantitybreak1   | decimal  |
| Quantitybreak2   | decimal  |
| Quantitybreak3   | decimal  |
| Quantitybreak4   | decimal  |
| Quantitybreak5   | decimal  |
| Quantitybreak6   | decimal  |
| Quantitybreak7   | decimal  |
| Quantitybreak8   | decimal  |



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**API Call:** ***sxapiOEPricingMultipleV2***

**Purpose:** This call is used to return the price for a given product for a given customer for multiple products (specified in an input collection). The price, discount quantity available, and other data elements will be returned in an output collection.

See notes for sxapiOEPricingMultipleV4

**API Call:** ***sxapiOEPricingMultipleV3***

**Purpose:** This call is used to return the price for a given product for a given customer for multiple products (specified in an input collection). The price, discount quantity available, and other data elements will be returned in an output collection.

See notes for sxapiOEPricingMultipleV4

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## **API Call:** *sxapiOEPricingMultipleV4*

**Purpose:** This call is used to return the price for a given product for a given customer for multiple products (specified in an input collection). The price, discount quantity available, and other data elements will be returned in an output collection.

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber          | Input/Required | This is the numeric Customer #   |
| ediPartnerCode          | Input/Optional | This is the optional Partner ID  |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.  |
| keyCode                 | Input          | Key Code (currently not used)  |
| getPriceBreaks          | Input/Required | Price Break Flag – This parameter is used to specify if quantity break information should be returned for each product. This data will be returned in a separate output array.   |
| useDefaultWhse          | Input/Required | Use Default Whse Flag – If this value is true, the input whse value will be used for pricing. If it is false, the API will search all warehouses containing this product   |
| sendFullQtyOnOrder      | Input/Required | Full Qty On Order Flag – This parameter controls how the Quantity On Order and Due Date fields are set for the output collection (see notes below)   |
| checkOtherWhseInventory | Input/Required | Check Other Warehouse Inventory Flag – This parameter controls how the “otherwhseinvfl” field is set for the output rows. If this flag = true and there is another ICSW record (for the same product and a different warehouse) on file that has a Net Available quantity, then the “otherwhseinvfl” will be set to “yes”. |
| pricingMethod           | Input          | Pricing Method – This parameter should be “base” if you want to retrieve just base price (and you do not want to run the standard pricing logic), “list” for list price (no pricing logic). If it's any other value (ex: “full”), then the standard pricing logic will be performed.                                       |
| extraData               | Input          | Extra Parameter – currently not used.  |
| t-oemultprcinV2         | Input/Required | The input “t-oemultprcin” collection. This collection specifies which products/warehouse should be priced (see notes below)  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-oemultprcoutV2        | Output         | The output “t-oemultprcoutV2” collection. This contains the output data for each product passed in the “t-oemultprcin” collection. In some cases, there may be multiple records created in the “t-oemultprcoutV2” collection for a given “t-oemultprcin” record (see notes below).   |
| t-oemultprcoutbrk       | Output         | The output “t-oemultprcoutbrk” collection. This contains the quantity break information for each product (if there was quantity break information available). This collection will only be created if the input parameter “Price Break Flag” (above) was passed as “yes”.  |

### **Notes:**

#### **Use Default Whse Flag:**

If the warehouse field of the input collection is blank and this flag = yes, then the default warehouse for the customer (ARSC) will be used. If the default warehouse for the customer is blank and there is a Ship To (ARSS) involved, then that default warehouse will be used. If both of these are blank, then the pricing logic (for that

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product) will use the warehouse from the first ICSD record on file. If that product is not defined in that warehouse, then the pricing logic will error out.

## Full Qty On Order Flag:

Each output collection record contains a “qtyonorder” and “duedt” field. If the Full Qty On Order flag = yes, then the ICSW.QTYONORDER field will be used to set the collection “qtyonorder” field – and the duedt will be blank (no good way to determine a duedt if the full qtyonorder is returned). If this flag = no, then additional logic will be performed to find the best PO line item (POEL record) to be used to return that line item’s quantity and its due date. Please note that executing this logic can create significant overhead to the API call.

In this case, the PO line items (for that product / warehouse, for only open Purchase Orders – that is, prior to Received Stage) will be read and based on what is found, the following hierarchy will be used to determine which PO line item should be selected to return its quantity and due date:

5. Earliest due date that is in the future for a PO line item in Printed or beyond Stage (Since the PO has been at least printed, chances are a firm commitment to the vendor has been made).
6. Earliest due date that is in the future for a PO line item in Ordered Stage (although the PO has not been printed/sent to the vendor, at least it’s on order in CSD).
7. Oldest due date that is past due for a PO line item in Printed or beyond Stage (since no PO lines are in the future, might as well show the oldest one that is late)
8. Oldest due date that is past due for a PO line item in Ordered Stage.

## The t-oemultprcin Collection/Array:

This input collection contains one record for each product to be priced. The warehouse field within a given record can contain the following values:

4. A specific warehouse – In this case, that Product/Whse combination will be used to execute the pricing logic and a single “t-oemultprcout” collection record will be returned.
5. A comma-separated list of warehouses – In this case, each Product/Whse combination will be identified (based on the comma-separated list) and a single “t-oemultprcout” collection record will be created for each combination. That is, if 4 warehouses were passed in the “t-oemultprcin” record, then 4 records will be created in the “t-oemultprcout” collection.
6. The warehouse can be blank. If the Use Default Whse Flag = yes, then the ARSC/ARSS default warehouse (or the first ICSD warehouse) will be used and if valid, a single “t-oemultprcout” record will be created for that warehouse. If the Use Default Whse Flag = no, then the ICSW table will be read (for that product) to locate what warehouses contain that product. For each ICSD record found, a “t-oemultprcout” record will be created for that warehouse (icsw.whse).

The following is a list of fields defined in the “t-oemultprcin” collection:

| <b>Field</b> | <b>Data Type</b>                  |
|--------------|-----------------------------------|
| Seqno        | integer                           |
| Whse         | character (recommended)           |
| Prod         | character (required)              |
| Operchannel  | character (not used)              |
| Qtyord       | decimal                           |
| Unit         | character                         |
| Extradata    | character (used for custom logic) |
| User1        | character                         |
| User2        | character                         |
| User3        | character                         |
| User4        | character                         |
| User5        | character                         |

## The t-oemultprcoutV2 Collection/Array:

This collection contains one record for each product/whse combination that was priced and contains the following fields:

| <b>Field</b> | <b>Data Type</b>                                 |
|--------------|--|
| Seqno        | integer (the same seqno passed in t-oemultprcin) |
| Whse         | character (always a single valid whse)           |

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|                 |   |
|-----------------|---|
| Prod            | character   |
| Qtyord          | decimal   |
| Stkqtyord       | decimal   |
| Unit            | character   |
| Unitconv        | decimal   |
| User1           | character (if stock product, returns icsw.user1. Otherwise icsc.user1)                |
| User2           | character (if stock product, returns icsw.user2. Otherwise icsc.user2)                |
| User3           | character (if stock product, returns icsw.user3. Otherwise icsc.user3)                |
| User4           | character (if stock product, returns icsw.user4. Otherwise icsc.user4)                |
| User5           | character (if stock product, returns icsw.user5. Otherwise icsc.user5)                |
| Errormess       | character   |
| Price           | decimal (OEIP price)  |
| Discamt         | decimal   |
| Disctype        | character   |
| Extamt          | decimal (extended amount)   |
| Extdiscount     | decimal (extended discount)   |
| Netavail        | decimal   |
| Speccostty      | character (icss.speccostty)   |
| Prccostper      | character (icss.prccostper)   |
| Csunperstk      | decimal (icss.csunperstk)   |
| Specconv        | integer   |
| icspecrecno     | integer (icss.icspecrecno)  |
| Pdrecno         | integer   |
| Promofl         | logical   |
| Priceorigcd     | character   |
| Cstpertext      | character   |
| Qtyonorder      | decimal (icsw.qtyonord)   |
| Duedt           | date (most recent PO due date)  |
| Freightamount   | decimal (not used)  |
| Freightdiscfl   | logical   |
| Qtybreakexistfl | logical   |
| Spiffamount     | decimal (not used)  |
| Otherwhseinvfl  | logical (true if inventory exists in other whses and checkOtherWhseInventory is true) |
| Commission      | decimal (not used)  |

## The t-oemultprcbrk Collection/Array:

This collection contains one record for each product/whse combination that was priced and if there are quantity breaks (and the Price Break Flag parameter = yes). If a record is created in this collection, then the t-oemultprcbrk.qtybreakexistfl field will be set to "yes".

This collection contains the following fields:

| Field       | Data Type  |
|-------------|--|
| Seqno       | integer (the same seqno passed in t-oemultprcin) |
| Whse        | character (always a single valid whse)           |
| Prod        | character  |
| User1       | character  |
| User2       | character  |
| User3       | character  |
| User4       | character  |
| User5       | character  |
| Pricebreak1 | decimal  |
| Pricebreak2 | decimal  |
| Pricebreak3 | decimal  |
| Pricebreak4 | decimal  |
| Pricebreak5 | decimal  |
| Pricebreak6 | decimal  |
| Pricebreak7 | decimal  |

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|                  |         |
|------------------|---------|
| Pricebreak8      | decimal |
| Pricebreak9      | decimal |
| Discountpercent1 | decimal |
| Discountpercent2 | decimal |
| Discountpercent3 | decimal |
| Discountpercent4 | decimal |
| Discountpercent5 | decimal |
| Discountpercent6 | decimal |
| Discountpercent7 | decimal |
| Discountpercent8 | decimal |
| Discountpercent9 | decimal |
| Quantitybreak1   | decimal |
| Quantitybreak2   | decimal |
| Quantitybreak3   | decimal |
| Quantitybreak4   | decimal |
| Quantitybreak5   | decimal |
| Quantitybreak6   | decimal |
| Quantitybreak7   | decimal |
| Quantitybreak8   | decimal |

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## **API Call:** *sxapiOEPricingMultipleV5*

**Purpose:** This call is used to return the price for a given product for a given customer for multiple products (specified in an input collection). The price, discount quantity available, and other data elements will be returned in an output collection.

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber          | Input/Required | This is the numeric Customer #   |
| ediPartnerCode          | Input/Optional | This is the optional Partner ID  |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.  |
| keyCode                 | Input          | Key Code (currently not used)  |
| getPriceBreaks          | Input/Required | Price Break Flag – This parameter is used to specify if quantity break information should be returned for each product. This data will be returned in a separate output array.   |
| useDefaultWhse          | Input/Required | Use Default Whse Flag – If this value is true, the input whse value will be used for pricing. If it is false, the API will search all warehouses containing this product   |
| sendFullQtyOnOrder      | Input/Required | Full Qty On Order Flag – This parameter controls how the Quantity On Order and Due Date fields are set for the output collection (see notes below)   |
| checkOtherWhseInventory | Input/Required | Check Other Warehouse Inventory Flag – This parameter controls how the “otherwhseinvfl” field is set for the output rows. If this flag = true and there is another ICSW record (for the same product and a different warehouse) on file that has a Net Available quantity, then the “otherwhseinvfl” will be set to “yes”. |
| pricingMethod           | Input          | Pricing Method – This parameter should be “base” if you want to retrieve just base price (and you do not want to run the standard pricing logic), “list” for list price (no pricing logic). If it’s any other value (ex: “full”), then the standard pricing logic will be performed.                                       |
| extraData               | Input          | Extra Parameter – currently not used.  |
| t-oemultprcinV2         | Input/Required | The input “t-oemultprcin” collection. This collection specifies which products/warehouse should be priced (see notes below)  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-oemultprcoutV3        | Output         | The output “t-oemultprcoutV3” collection. This contains the output data for each product passed in the “t-oemultprcin” collection. In some cases, there may be multiple records created in the “t-oemultprcoutV3” collection for a given “t-oemultprcin” record (see notes below).   |
| t-oemultprcoutbrk       | Output         | The output “t-oemultprcoutbrk” collection. This contains the quantity break information for each product (if there was quantity break information available). This collection will only be created if the input parameter “Price Break Flag” (above) was passed as “yes”.  |

### **Notes:**

#### **Use Default Whse Flag:**

If the warehouse field of the input collection is blank and this flag = yes, then the default warehouse for the customer (ARSC) will be used. If the default warehouse for the customer is blank and there is a Ship To (ARSS) involved, then that default warehouse will be used. If both of these are blank, then the pricing logic (for that

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product) will use the warehouse from the first ICSD record on file. If that product is not defined in that warehouse, then the pricing logic will error out.

## Full Qty On Order Flag:

Each output collection record contains a “qtyonorder” and “duedt” field. If the Full Qty On Order flag = yes, then the ICSW.QTYONORDER field will be used to set the collection “qtyonorder” field – and the duedt will be blank (no good way to determine a duedt if the full qtyonorder is returned). If this flag = no, then additional logic will be performed to find the best PO line item (POEL record) to be used to return that line item’s quantity and its due date. Please note that executing this logic can create significant overhead to the API call.

In this case, the PO line items (for that product / warehouse, for only open Purchase Orders – that is, prior to Received Stage) will be read and based on what is found, the following hierarchy will be used to determine which PO line item should be selected to return its quantity and due date:

9. Earliest due date that is in the future for a PO line item in Printed or beyond Stage (Since the PO has been at least printed, chances are a firm commitment to the vendor has been made).
10. Earliest due date that is in the future for a PO line item in Ordered Stage (although the PO has not been printed/sent to the vendor, at least it’s on order in CSD).
11. Oldest due date that is past due for a PO line item in Printed or beyond Stage (since no PO lines are in the future, might as well show the oldest one that is late)
12. Oldest due date that is past due for a PO line item in Ordered Stage.

## The t-oemultprcin Collection/Array:

This input collection contains one record for each product to be priced. The warehouse field within a given record can contain the following values:

7. A specific warehouse – In this case, that Product/Whse combination will be used to execute the pricing logic and a single “t-oemultprcout” collection record will be returned.
8. A comma-separated list of warehouses – In this case, each Product/Whse combination will be identified (based on the comma-separated list) and a single “t-oemultprcout” collection record will be created for each combination. That is, if 4 warehouses were passed in the “t-oemultprcin” record, then 4 records will be created in the “t-oemultprcout” collection.
9. The warehouse can be blank. If the Use Default Whse Flag = yes, then the ARSC/ARSS default warehouse (or the first ICSD warehouse) will be used and if valid, a single “t-oemultprcout” record will be created for that warehouse. If the Use Default Whse Flag = no, then the ICSW table will be read (for that product) to locate what warehouses contain that product. For each ICSD record found, a “t-oemultprcout” record will be created for that warehouse (icsw.whse).

The following is a list of fields defined in the “t-oemultprcin” collection:

| Field       | Data Type                         |
|-------------|-----------------------------------|
| Seqno       | integer                           |
| Whse        | character (recommended)           |
| Prod        | character (required)              |
| Operchannel | character (not used)              |
| Qtyord      | decimal                           |
| Unit        | character                         |
| Extradata   | character (used for custom logic) |
| User1       | character                         |
| User2       | character                         |
| User3       | character                         |
| User4       | character                         |
| User5       | character                         |

## The t-oemultprcoutV3 Collection/Array:

This collection contains one record for each product/whse combination that was priced and contains the following fields:

| Field | Data Type  |
|-------|--|
| Seqno | integer (the same seqno passed in t-oemultprcin) |
| Whse  | character (always a single valid whse)           |

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|                 |   |
|-----------------|---|
| Prod            | character   |
| Qtyord          | decimal   |
| Stkqtyord       | decimal   |
| Unit            | character   |
| Unitconv        | decimal   |
| baseprice       | decimal   |
| listprice       | decimal   |
| priceonty       | decimal   |
| User1           | character (if stock product, returns icsw.user1. Otherwise icsc.user1)                |
| User2           | character (if stock product, returns icsw.user2. Otherwise icsc.user2)                |
| User3           | character (if stock product, returns icsw.user3. Otherwise icsc.user3)                |
| User4           | character (if stock product, returns icsw.user4. Otherwise icsc.user4)                |
| User5           | character (if stock product, returns icsw.user5. Otherwise icsc.user5)                |
| Errormess       | character   |
| Price           | decimal (OEIP price)  |
| Discamt         | decimal   |
| Disctype        | character   |
| Extamt          | decimal (extended amount)   |
| Extdiscount     | decimal (extended discount)   |
| Netavail        | decimal   |
| Speccostty      | character (icss.speccostty)   |
| Prccostper      | character (icss.prccostper)   |
| Csunperstk      | decimal (icss.csunperstk)   |
| Specconv        | integer   |
| icspecrecno     | integer (icss.icspecrecno)  |
| Pdrecno         | integer   |
| Promofl         | logical   |
| Priceorigcd     | character   |
| Cstpertext      | character   |
| Qtyonorder      | decimal (icsw.qtyonord)   |
| Duedt           | date (most recent PO due date)  |
| Freightamount   | decimal (not used)  |
| Freightdiscfl   | logical   |
| Qtybreakexistfl | logical   |
| Spiffamount     | decimal (not used)  |
| Otherwhseinvfl  | logical (true if inventory exists in other whses and checkOtherWhseInventory is true) |
| Commission      | decimal (not used)  |

## The t-oemultprcbrk Collection/Array:

This collection contains one record for each product/whse combination that was priced and if there are quantity breaks (and the Price Break Flag parameter = yes). If a record is created in this collection, then the t-oemultprcbrk.qtybreakexistfl field will be set to "yes".

This collection contains the following fields:

| <b>Field</b> | <b>Data Type</b>                                 |
|--------------|--|
| Seqno        | integer (the same seqno passed in t-oemultprcin) |
| Whse         | character (always a single valid whse)           |
| Prod         | character  |
| User1        | character  |
| User2        | character  |
| User3        | character  |
| User4        | character  |
| User5        | character  |
| Pricebreak1  | decimal  |
| Pricebreak2  | decimal  |
| Pricebreak3  | decimal  |
| Pricebreak4  | decimal  |



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|                  |         |
|------------------|---------|
| Pricebreak5      | decimal |
| Pricebreak6      | decimal |
| Pricebreak7      | decimal |
| Pricebreak8      | decimal |
| Pricebreak9      | decimal |
| Discountpercent1 | decimal |
| Discountpercent2 | decimal |
| Discountpercent3 | decimal |
| Discountpercent4 | decimal |
| Discountpercent5 | decimal |
| Discountpercent6 | decimal |
| Discountpercent7 | decimal |
| Discountpercent8 | decimal |
| Discountpercent9 | decimal |
| Quantitybreak1   | decimal |
| Quantitybreak2   | decimal |
| Quantitybreak3   | decimal |
| Quantitybreak4   | decimal |
| Quantitybreak5   | decimal |
| Quantitybreak6   | decimal |
| Quantitybreak7   | decimal |
| Quantitybreak8   | decimal |

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## **API Call:** *sxapiOEPricingV2*

**Purpose:** This call is used to return the price for a given product for a given customer. The price, discount quantity available, and other data elements will be returned.

### **Parameters:**

| REST Params             | Direction      | Description   |
|-------------------------|----------------|---|
| companyNumber           | Input/required | Company #   |
| operatorInit            | Input/required | SASO operator for the company specified   |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)  |
| customerNumber          | Input/required | This is the optional numeric Customer #   |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.   |
| warehouse               | Input/Optional | The warehouse, as defined in ICSD. It is not absolutely required. If it's left blank, there will be additional logic to establish this value from the ARSC or ARSS records (or a default whse Business rule). If the program cannot locate a valid whse, it will error out. |
| quantity                | Input/Optional | The quantity ordered. If passed as zero, it will default to 1.  |
| productCode             | Input/Required | The product part #.   |
| unitOfMeasure           | Input/Optional | Unit of measure – if left blank, the ICSP stocking unit of measure will be used.  |
| extraData               | Input          | Extra parameter – currently not used.   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.  |
| price                   | Output         | The numeric price that was calculated.  |
| discountAmount          | Output         | The calculated discount amount (not extended)   |
| discountType            | Output         | A discount amount type indicator. This will be “%” or “\$” based on whether the discount amount is a percent or dollar.   |
| netAvailable            | Output         | The net available quantity for the product.   |
| specialCostType         | Output         | Special Cost Type (speccostty)  |
| priceCostPer            | Output         | Price Cost Per (prccostper)   |
| unitsPerStocking        | Output         | Units Per Stocking (csunperstk)   |
| specialConversion       | Output         | Special Conversion (speconv)  |
| specialCostRecordNumber | Output         | IC Special Cost Record # (icspecrecno)  |
| stockingQuantityOrdered | Output         | Stocking Qty Ordered (stkqtyord)  |
| unitConversion          | Output         | Unit Conversion (unitconv)  |
| pricingRecordNumber     | Output         | PD Record # (pdrecno)   |
| promotionalFlag         | Output         | Promotional Flag  |
| priceOriginCode         | Output         | Price Origin Code (priceorigcd)   |
| unitsPerStockingText    | Output         | Special Price Cost Text (cstptext)  |
| extendedAmount          | Output         | Extended Amount   |

### **Notes:**

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## **API Call:** *sxapiOEPricingV3*

### **Purpose:**

This call is used to return the price for a given product for a given customer. The price, discount quantity available, and other data elements will be returned.

### **Parameters:**

| REST Params             | Direction      | Description   |
|-------------------------|----------------|---|
| customerNumber          | Input/Required | This is the numeric Customer #  |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.   |
| warehouse               | Input/Optional | The warehouse, as defined in ICSD. It is not absolutely required. If it's left blank, there will be additional logic to establish this value from the ARSC or ARSS records (or a default whse Business rule). If the program cannot locate a valid whse, it will error out. |
| quantity                | Input/Optional | The quantity ordered. If passed as zero, it will default to 1.  |
| productCode             | Input/Required | The product part #.   |
| unitOfMeasure           | Input/Optional | Unit of measure – if left blank, the ICSP stocking unit of measure will be used.  |
| extraData               | Input          | Extra parameter – currently not used.   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.  |
| price                   | Output         | The numeric price that was calculated.  |
| discountAmount          | Output         | The calculated discount amount (not extended)   |
| discountType            | Output         | A discount amount type indicator. This will be “%” or “\$” based on whether the discount amount is a percent or dollar.   |
| netAvailable            | Output         | The net available quantity for the product.   |
| specialCostType         | Output         | Special Cost Type (speccostty)  |
| priceCostPer            | Output         | Price Cost Per (prccostper)   |
| unitsPerStocking        | Output         | Units Per Stocking (csunperstk)   |
| specialConversion       | Output         | Special Conversion (speconv)  |
| specialCostRecordNumber | Output         | IC Special Cost Record # (icspecrecno)  |
| stockingQuantityOrdered | Output         | Stocking Qty Ordered (stkqtyord)  |
| unitConversion          | Output         | Unit Conversion (unitconv)  |
| pricingRecordNumber     | Output         | PD Record # (pdrecno)   |
| promotionalFlag         | Output         | Promotional Flag  |
| priceOriginCode         | Output         | Price Origin Code (priceorigcd)   |
| unitsPerStockingText    | Output         | Special Price Cost Text (cstpertext)  |
| extendedAmount          | Output         | Extended Amount   |
| extendedDiscountAmount  | Output         | Extended Discount Amount  |

### **Notes:**

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## **API Call:** *sxapiOEPricingV4*

**Purpose:** This call is used to return the price for a given product for a given customer. The price, discount quantity available, and other data elements will be returned.

### **Parameters:**

| REST Params             | Direction      | Description   |
|-------------------------|----------------|---|
| companyNumber           | Input/required | Company #   |
| operatorInit            | Input/required | SASO operator for the company specified   |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)  |
| customerNumber          | Input/Required | This is the numeric Customer #  |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.   |
| warehouse               | Input/Optional | The warehouse, as defined in ICSD. It is not absolutely required. If it's left blank, there will be additional logic to establish this value from the ARSC or ARSS records (or a default whse Business rule). If the program cannot locate a valid whse, it will error out. |
| quantity                | Input/Optional | The quantity ordered. If passed as zero, it will default to 1.  |
| productCode             | Input/Required | The product part #.   |
| unitOfMeasure           | Input/Optional | Unit of measure – if left blank, the ICSP stocking unit of measure will be used.  |
| offerID                 | Input/Optional | Offer ID – Used as the customer price type for finding offer pricing from offer management  |
| extraData               | Input          | Extra parameter – currently not used.   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.  |
| price                   | Output         | The numeric price that was calculated.  |
| discountAmount          | Output         | The calculated discount amount (not extended)   |
| discountType            | Output         | A discount amount type indicator. This will be “%” or “\$” based on whether the discount amount is a percent or dollar.   |
| netAvailable            | Output         | The net available quantity for the product.   |
| specialCostType         | Output         | Special Cost Type (speccostty)  |
| priceCostPer            | Output         | Price Cost Per (prccostper)   |
| unitsPerStocking        | Output         | Units Per Stocking (csunperstk)   |
| specialConversion       | Output         | Special Conversion (speconv)  |
| specialCostRecordNumber | Output         | IC Special Cost Record # (icspecrecno)  |
| stockingQuantityOrdered | Output         | Stocking Qty Ordered (stkqtyord)  |
| unitConversion          | Output         | Unit Conversion (unitconv)  |
| pricingRecordNumber     | Output         | PD Record # (pdrecno)   |
| promotionalFlag         | Output         | Promotional Flag  |
| priceOriginCode         | Output         | Price Origin Code (priceorigcd)   |
| unitsPerStockingText    | Output         | Special Price Cost Text (cstpertext)  |
| extendedAmount          | Output         | Extended Amount   |
| extendedDiscountAmount  | Output         | Extended Discount Amount  |

### **Notes:**

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## **API Call:** *sxapiOEPricingV5*

**Purpose:** This call is used to return the price for a given product for a given customer. The price, discount quantity available, and other data elements will be returned.

### **Parameters:**

| REST Params             | Direction      | Description   |
|-------------------------|----------------|---|
| companyNumber           | Input/required | Company #   |
| operatorInit            | Input/required | SASO operator for the company specified   |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)  |
| customerNumber          | Input/Required | This is the numeric Customer #  |
| shipTo                  | Input/Optional | This is the optional alphanumeric Ship To identifier. If specified, the OE pricing logic will be performed using this Ship To. If left blank, the pricing logic will be performed for the customer.   |
| warehouse               | Input/Optional | The warehouse, as defined in ICSD. It is not absolutely required. If it's left blank, there will be additional logic to establish this value from the ARSC or ARSS records (or a default whse Business rule). If the program cannot locate a valid whse, it will error out. |
| quantity                | Input/Optional | The quantity ordered. If passed as zero, it will default to 1.  |
| productCode             | Input/Required | The product part #.   |
| unitOfMeasure           | Input/Optional | Unit of measure – if left blank, the ICSP stocking unit of measure will be used.  |
| offerID                 | Input/Optional | Offer ID – Used as the customer price type for finding offer pricing from offer management  |
| extraData               | Input          | Extra parameter – currently not used.   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.  |
| price                   | Output         | The numeric price that was calculated.  |
| discountAmount          | Output         | The calculated discount amount (not extended)   |
| discountType            | Output         | A discount amount type indicator. This will be “%” or “\$” based on whether the discount amount is a percent or dollar.   |
| netAvailable            | Output         | The net available quantity for the product.   |
| specialCostType         | Output         | Special Cost Type (speccostty)  |
| priceCostPer            | Output         | Price Cost Per (prccostper)   |
| unitsPerStocking        | Output         | Units Per Stocking (csunperstk)   |
| specialConversion       | Output         | Special Conversion (speconv)  |
| specialCostRecordNumber | Output         | IC Special Cost Record # (icspecrecno)  |
| stockingQuantityOrdered | Output         | Stocking Qty Ordered (stkqtyord)  |
| unitConversion          | Output         | Unit Conversion (unitconv)  |
| pricingRecordNumber     | Output         | PD Record # (pdrecno)   |
| promotionalFlag         | Output         | Promotional Flag  |
| priceOriginCode         | Output         | Price Origin Code (priceorigcd)   |
| unitsPerStockingText    | Output         | Special Price Cost Text (cstpertext)  |
| extendedAmount          | Output         | Extended Amount   |
| extendedDiscountAmount  | Output         | Extended Discount Amount  |
| basePrice               | Output         |   |
| listPrice               | Output         |   |
| priceOnType             | Output         |   |

### **Notes:**

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**API Call:** *sxapiOEReassignCustnoShipto*

**Purpose:** This call is used to change the customer # and/or shipto code for a specific order

**Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified                        |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set) |
| orderNumber           | Input/Required | Order #  |
| orderSuffix           | Input/Required | Order suffix – though 0 is permitted                           |
| customerNumber        | Input/Required | New customer # to change the order to                          |
| shipTo                | Input/optional | New shipto code to change the order to                         |
| customerPurchaseOrder | Input/optional | Customer po #  |
| repriceLinesFlag      | Input/optional | Set to true if repricing the lines                             |
| t-infieldvalue        | Input/optional | Additional input data  |
| Response              | Output         | Return info  |
| t-messages            | Output         | Error messages   |
| t-outfieldvalue       | Output         | Additional output data   |

**Notes:**

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| level      | character |
| lineno     | integer   |
| seqno      | integer   |
| fieldname  | character |
| fieldvalue | character |

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## **API Call:** *sxapiOEReceiveonAccount*

**Purpose:** This API call is used to post an unapplied cash payment to a customer's account.

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                                     |
| customerNumber   | Input/required | Customer # - The required customer # to operate upon. The ARSC record must have a valid bank value |
| shipTo           | Input/optional | Ship To – This parameter is optional. If used, the shipto master must have a valid bank            |
| warehouse        | Input/required | Valid ICSD whse code   |
| takenby          | Input/optional |  |
| amount           | Input/required | The amt to post on account   |
| postdate         | Input/required | Post date  |
| paymenttype      | Input/required | Must be a valid SASTT paymt type   |
| paymentnumber    | Input/optional | Reference value on payment   |
| authorizenumber  | Input/optional | used if paymt type is credit card  |
| checknumber      | Input/optional | Used for check payment   |
| tInfieldvalue    | Input/optional | t-infieldvalue array   |
| topeninvdata     | Input/optional | t-openinvdata array  |
| Ordernumber      | Output         | Order # created for RA   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                             |
| t-messages       | Output         | t-messages array   |
| t-outfieldvalue  | Output         | t-outfieldvalue array  |

### **Notes:**

This will post a received on account dollar amount for the specified customer. It will be posted as a misc credit to the customer's account.

### **Input Collection:** t-infieldvalue

| Field Name | Data Type | Data Information    |
|------------|-----------|---------------------|
| Level      | character |                     |
| Lineno     | Integer   |                     |
| Seqno      | Integer   |                     |
| fieldname  | Character | Used for "drawerid" |
| Fieldvalue | Character |                     |

### **Input Collection:** t- openinvdata (not used at this time)

# ION API Technical Documentation

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**API Call:** *sxapiOEReleaseAllOrders*

**Purpose:** This API call is used to release (approve) all OE orders for a given Customer / Ship To.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| customerNumber   | Input          | Customer # - The required customer # to operate upon.  |
| shipTo           | Input          | Ship To – This parameter is optional. If left blank, all OE orders for the customer, regardless of Ship To will be operated upon. If passed, only those OE orders for this Ship To will be selected. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| recordCount      | Output         | A record count of the OE orders that were updated.   |

**Notes:**



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## **API Call:** *sxapiPDEquatePricing*

**Purpose:** This call will build and maintain the Equate shopping in CSD.

### **Parameters:**

| REST Params               | Direction      | Description  |
|---------------------------|----------------|--|
| companyNumber             | Input/required | Company #  |
| operatorInit              | Input/required | SASO operator for the company specified                        |
| operatorPassword          | Input/optional | SASO operator password (only required if business rule is set) |
| t-ineqpricingaction       | Input/Required | Array – only one line with an action is required               |
| t-ineqcoupondata          | Input/optional | array  |
| t-ineqheaderdata          | Input/optional | array  |
| t-ineqlinedata            | Input/optional | array  |
| t-ineqtenderdata          | Input/optional | array  |
| t-infieldvalue            | Input/optional | array  |
| t-outeqheaderdata         | output         | array  |
| t-outeqlinedata           | output         | array  |
| t-outfieldvalue           | output         | array  |
| t-outeqrejectedpromotion  | output         | array  |
| t-outeqcartlineitem       | output         | array  |
| t-outeqassigneddiscounts  | output         | array  |
| t-outeqfinancialdiscounts | output         | array  |
| t-outeqcoupons            | output         | array  |
| t-eqpricingmessages       | output         | array  |
| ErrorMessage              | output         | Error message  |

NOTE: must first go to **AO – Integrations – Promote/Equate Options** and activate Equate.

Once a cart id has been created using one of the Equate actions below, a CSD order may be created using SFOEOrderTotLaodV4 or OEFullOrderMntV5 or V6. The cart id should be submitted in the HeaderExtra array with a **FieldName** set to “cartid” and **FieldValue** set to the Equate cart id value

### **Action:**

|                |  |
|----------------|--|
| healthCheck    | Performs an Equate Health Check (similar to a ping). Also verifies that CSD is setup to process Equate   |
| retrieveCart   | Retrieve a cart from the equate cart using the Cartid  |
| buildPriceCart | Builds and prices an Equate cart. Returns a cart id for future reference.  |
| priceOrder     | Retrieves a CSD Sales Order and prices it using the current active promotions in Equate (does not update the Sales Order document) Returns a cartid for future reference. Returns a cart id for future reference |
| priceOrderLine | Retrieves a CSD Sales Order Line and prices it using the current active promotions in Equate (does not update the Sales Order document)  |

| Table               | Field Name    | Purpose   |
|---------------------|---------------|---|
| t-ineqpricingaction | action        | healthCheck,retrieveCart,buildPriceCart,priceOrder,priceOrderLine |
| t-ineqpricingaction | contextid     | Description info  |
| t-ineqpricingaction | cartid        | Used for “retrieveCart” action                                    |
| t-ineqpricingaction | orderno       | Order # used in “priceorder” and “priceorderline”                 |
| t-ineqpricingaction | ordersuf      | Order suf used in “priceorder” and “priceorderline”               |
| t-ineqpricingaction | lineno        | Line # used in “priceorderline”                                   |
| t-ineqpricingaction | unitid        | Div# associated with whse, used for “buildpricecart”              |
| t-ineqpricingaction | unittype      | Used for “buildpricecart”   |
| t-ineqpricingaction | warehouseid   | Used for “buildpricecart”   |
| t-ineqpricingaction | associateflag | True if associate discount applies                                |
| t-ineqpricingaction | associateid   | Associate id used for associate discounts                         |

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|                     |                  |  |
|---------------------|------------------|--|
| t-ineqpricingaction | currenttotal     | Used for “buildpricecart”  |
| t-ineqpricingaction | timestamp        | Used for priceorder and buildpricecart. If blank, it will be set to current date and time                            |
| t-ineqpricingaction | userfield        | Used for extensions for on-premise customers   |
|                     |                  |  |
| t-ineqcoupondata    | coupon           | Coupon(s) used for discounts used of priceorder, priceorderline, buildpricecart. Submitted as a comma-delimited list |
| t-ineqcoupondata    | userfield        | Used for extensions for on-premise customers   |
|                     |                  |  |
| t-ineqheaderdata    | warehouseid      | Warehouse code used for buildpricecart   |
| t-ineqheaderdata    | customerid       | Customer # used for buildpricecart   |
| t-ineqheaderdata    | shiptonumber     | Shipto code used for buildpricecart  |
| t-ineqheaderdata    | unittype         |  |
| t-ineqheaderdata    | currenttotal     | (CSD data used for buildpricecart to store in cart)  |
| ineqheaderdata      | userfield        | Used for extensions for on-premise customers   |
|                     |                  |  |
| t-ineqlinedata      | warehouseid      | Warehouse code   |
| t-ineqlinedata      | orderno          | Order # (CSD data used for buildpricecart to store in cart)  |
| t-ineqlinedata      | ordersuf         | Order suffix (CSD data used for buildpricecart to store in cart)   |
| t-ineqlinedata      | lineno           | Line #   |
| t-ineqlinedata      | seqno            | Used for more than one discount on this line 3   |
| t-ineqlinedata      | itemnumber       | Required   |
| t-ineqlinedata      | itemdesc1        | Description (CSD data used for buildpricecart to store in cart)  |
| t-ineqlinedata      | itemdesc2        | Description (CSD data used for buildpricecart to store in cart)  |
| t-ineqlinedata      | orderqty         | Required   |
| t-ineqlinedata      | unitofmeasure    | UOM (CSD data used for buildpricecart to store in cart)  |
| t-ineqlinedata      | vendor           | Vendor # (CSD data used for buildpricecart to store in cart)   |
| t-ineqlinedata      | productline      | Product line (CSD data used for buildpricecart to store in cart)   |
| t-ineqlinedata      | productcategory  | Product category (CSD data used for buildpricecart to store in cart)   |
| t-ineqlinedata      | manualpriceflag  | Manual price override (CSD data used for buildpricecart to store in cart)  |
| t-ineqlinedata      | manualprice      | Override price (CSD data used for buildpricecart to store in cart)   |
| t-ineqlinedata      | regularprice     | CSD price (CSD data used for buildpricecart to store in cart)  |
| t-ineqlinedata      | baseprice        | CSD list price (CSD data used for buildpricecart to store in cart)   |
| t-ineqlinedata      | listprice        | CSD base price (CSD data used for buildpricecart to store in cart)   |
| t-ineqlinedata      | minimumprice     | Minimum acceptable price   |
| t-ineqlinedata      | lookupprice      | PDSP price   |
| t-ineqlinedata      | lookuppricetype  | Product price type   |
| t-ineqlinedata      | sellingprice     | Equate price   |
| t-ineqlinedata      | sellingpricetype |  |
| t-ineqlinedata      | pricematchflag   |  |
| t-ineqlinedata      | returnflag       | Return flag (CSD data used for buildpricecart to store in cart)  |
| t-ineqlinedata      | nonstockflag     | Nonstock flag (CSD data used for buildpricecart to store in cart)  |
| t-ineqlinedata      | origin           |  |
| t-ineqlinedata      | accountnumber    |  |
| t-ineqlinedata      | taxrate          |  |
| t-ineqlinedata      | shippingamount   |  |
| t-ineqlinedata      | associatediscpct | Associate discount as percent  |

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|                  |                         |  |
|------------------|-------------------------|--|
| t-ineqlinedata   | associatediscamt        | Associate discount as amount                 |
| t-ineqlinedata   | associatediscinelegible | Ineligible flag                              |
| t-ineqlinedata   | nopromofl               |  |
| t-ineqlinedata   | eligiblefordiscounts    |  |
| t-ineqlinedata   | userfield               | Used for extensions for on-premise customers |
|                  |                         |  |
| t-ineqtenderdata | tendertype              | Payment type                                 |
| t-ineqtenderdata | amount                  | Tendering amount                             |
| t-ineqtenderdata | seqno                   |  |
| t-ineqtenderdata | userfield               | Used for extensions for on-premise customers |
|                  |                         |  |
| t-infieldvalue   | level                   | Used for extensions for on-premise customers |
| t-infieldvalue   | lineno                  | Used for extensions for on-premise customers |
| t-infieldvalue   | seqno                   | Used for extensions for on-premise customers |
| t-infieldvalue   | fieldname               | Used for extensions for on-premise customers |
| t-infieldvalue   | fieldvalue              | Used for extensions for on-premise customers |

# ION API Technical Documentation

## **API Call:** *sxapiPDEquatePricingTotals*

**Purpose:** This call will execute a CSD pricing routine using SFOEOrderTotLoadV4 (in **TSF** mode) and then submits the output of the SFOEOrderTotLoadV4 call to Equate as a “priceorder”. The totals of the order including taxes and addons will be returned. It will create a cart id for future reference.

### **Parameters:**

| REST Params               | Direction      | Description  |
|---------------------------|----------------|--|
| companyNumber             | Input/required | Company #  |
| operatorInit              | Input/required | SASO operator for the company specified                        |
| operatorPassword          | Input/optional | SASO operator password (only required if business rule is set) |
| t-ineqpricingaction       | Input          | Array – one line is required                                   |
| t-ineqcoupondata          | Input          | array  |
| t-ineqheaderdata          | Input          | array  |
| t-ineqlinedata            | Input          | array  |
| t-ineqtenderdata          | Input          | array  |
| t-infieldvalue            | Input          | array  |
| t-outeqheaderdata         | output         | array  |
| t-outeqlinedata           | output         | array  |
| t-outfieldvalue           | output         | array  |
| t-outeqrejectedpromotion  | output         | array  |
| t-outeqcartlineitem       | output         | array  |
| t-outeqassigneddiscounts  | output         | array  |
| t-outeqfinancialdiscounts | output         | array  |
| t-outeqcoupons            | output         | array  |
| t-eqpricingmessages       | output         | array  |
| ErrorMessage              | output         | Error message  |
|                           |                |  |

**NOTE:** must first go to **AO – Integrations – Promote/Equate Options** and activate Equate.

Once a cart id has been created, an order may be generated using SFOEOrderTotLoadV4 or OEFULLOrderMntV5 or V6. The cart id should be submitted in the HeaderExtra array with a **FieldName** set to “cartid” and **FieldValue** set to the Equate cart id value

| Table               | Field Name    | Purpose  |
|---------------------|---------------|--|
| t-ineqpricingaction | action        | totalsonly   |
| t-ineqpricingaction | contextid     | Description info                                       |
| t-ineqpricingaction | cartid        | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | orderno       | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | ordersuf      | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | lineno        | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | unitid        | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | unittype      | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | warehouseid   | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | associateflag | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | associateid   | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | currenttotal  | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | timestamp     | Set by API from SFOEOrderTotLoadV4                     |
| t-ineqpricingaction | userfield     | Used for extensions for on-premise customers           |
|                     |               |  |
| t-ineqcoupondata    | coupon        | Coupon(s) used for discounts as a comma-delimited list |
| t-ineqcoupondata    | userfield     | Used for extensions for on-premise customers           |
|                     |               |  |

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|                  |                         |  |
|------------------|-------------------------|--|
| t-ineqheaderdata | warehouseid             | Set by API from SFOEOrderTotLoadV4           |
| t-ineqheaderdata | customerid              | Set by API from SFOEOrderTotLoadV4           |
| t-ineqheaderdata | shiptonumber            | Set by API from SFOEOrderTotLoadV4           |
| t-ineqheaderdata | unittype                | Set by API from SFOEOrderTotLoadV4           |
| t-ineqheaderdata | currenttotal            | Set by API from SFOEOrderTotLoadV4           |
| t-ineqheaderdata | userfield               | Used for extensions for on-premise customers |
|                  |                         |  |
| t-ineqlinedata   | warehouseid             | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | orderno                 | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | ordersuf                | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | lineno                  | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | seqno                   | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | itemnumber              | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | itemdesc1               | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | itemdesc2               | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | orderqty                | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | unitofmeasure           | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | vendor                  | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | productline             | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | productcategory         | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | manualpriceflag         | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | manualprice             | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | regularprice            | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | baseprice               | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | listprice               | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | minimumprice            | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | lookupprice             | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | lookuppricetype         | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | sellingprice            | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | sellingpricetype        | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | pricematchflag          | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | returnflag              | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | nonstockflag            | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | origin                  | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | accountnumber           | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | taxrate                 | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | shippingamount          | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | associatediscpct        | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | associatediscamt        | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | associatediscinelegible | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | nopromofl               | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | eligiblefordiscounts    | Set by API from SFOEOrderTotLoadV4           |
| t-ineqlinedata   | userfield               | Used for extensions for on-premise customers |
|                  |                         |  |
| t-ineqtenderdata | tendertype              | Payment type                                 |
| t-ineqtenderdata | amount                  | Tendered amount                              |
| t-ineqtenderdata | seqno                   |  |
| t-ineqtenderdata | userfield               | Used for extensions for on-premise customers |

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|                |            |  |
|----------------|------------|--|
|                |            |  |
| t-infieldvalue | level      | Used for extensions for on-premise customers |
| t-infieldvalue | lineno     | Used for extensions for on-premise customers |
| t-infieldvalue | seqno      | Used for extensions for on-premise customers |
| t-infieldvalue | fieldname  | Used for extensions for on-premise customers |
| t-infieldvalue | fieldvalue | Used for extensions for on-premise customers |

# ION API Technical Documentation

## **API Call:** *sxapiPDPriceSheetMnt*

**Purpose:** This call will maintain (add, change, delete) Price Sheet (PDSPS) records.

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified  |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                                 |
| t-inputprcshtdata     | Input          | This first parameter is a collection that defines the operation to perform (see notes section) |
| t-mnt-prcsht-tt       | Input          | Detail updates tied to t-inputprcshtdata   |
| t-infieldvalue        | input          | Additional input values  |
| t-outputprcshtresults | output         | Price sheet results  |
| t-outfieldvalue       | output         | Additional output values   |
| t-prcsheetmessage     | output         | Price sheet messages   |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.                         |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields for

#### **t-inputprcshtdata:**

|             |                   |
|-------------|-------------------|
| actiontype  | character         |
| seqno       | numeric / integer |
| prod        | character         |
| whse        | character         |
| region      | character         |
| divnogroup  | character         |
| pricesheet  | character         |
| effectivedt | date              |

#### **t-mnt-prcsht-tt**

|            |                 |
|------------|-----------------|
| seqno      | numeric/integer |
| fieldname  | character       |
| fieldvalue | character       |

All of the records, within the t-inputprcshtdata collection, are identified by a Seq #. Each Seq # represents a single operation that will be performed against the price sheet.

The seq # in t-mnt-prcsht-tt is just a number that joins multiple update values from t-mnt-prcsht-tt to the t-inputprcshtdata collection .

The t-inputprcshtdata.actiontype field determines the operation to perform and should be “add” or “update” or “delete”. The whse, product, and pricesheet uniquely identify the PDSPS record.

The “fieldname” field is the field that will be updated, within the database table (PV\_PDSPS). See below for a complete list of values. The “fieldvalue” field is the value of the data for that field.

Example of a new PDSPS records being added:

#### **t-inputprcshtdata:**

| seq# | updatemode | whse | prod | pricesheet | effectivedt |
|------|------------|------|------|------------|-------------|
| 1    | add        | main | ABC  | A-001      | 01/01/2023  |

#### **t-mnt-prcsht-tt**

| seq# | fieldname   | fieldvalue |
|------|-------------|------------|
| 1    | baseprice   | 10.00      |
| 1    | listprice   | 12.00      |
| 1    | custmatrix1 | 15.00      |

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The following is a list of valid “fieldname” values:

baseprice, listprice, replcost, rebatecost, stndcost, custmatrix1, custmatrix2, custmatrix3, custmatrix4, custmatrix5, custmatrix6, custmatrix7, custmatrix8, custmatrix9, vendmatrix1, vendmatrix2, vendmatrix3, vendmatrix4, vendmatrix5, vendmatrix6, vendmatrix7, vendmatrix8, vendmatrix9, user1, user2, user3, user4, user5, user6, user7, user8, user9

There is a one-to-one relationship between t-inputprcsheetdata and t-outputprcshtresults

## **t-outputprcshtresults**

|            |                               |
|------------|-------------------------------|
| actiontype | from t-inputprcsheetdata      |
| seqno      | from t-inputprcsheetdata      |
| errorfl    | indicates an error occurred   |
| errtype    | F=fatal, D=duplicate, E=error |
| doctype    | ETCC doc type                 |

## **t-prcshtmessages** – errors for individual fields

|             |  |
|-------------|--|
| setno       | matches to t-outputprcshtresults.seqno |
| seqno       | sequence of error messages             |
| errtype     | F=fatal, D=duplicate, E=error          |
| fieldname   | field containing error                 |
| messagetext | error message                          |



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## **API Call:** *sxapiPD PricingAllMnt*

**Purpose:** This call will maintain (add and change) Price / Discounting (PDSC) records. It has two primary collections. The first is t-inputprcalldata which is used to identify the PDSC record. The second collection is t-mnt-prc-tt which is used to update the record

### **Parameters:**

| REST Params         | Direction      | Description  |
|---------------------|----------------|--|
| companyNumber       | Input/required | Company #  |
| operatorInit        | Input/required | SASO operator for the company specified                                |
| operatorPassword    | Input/optional | SASO operator password (only required if business rule is set)         |
| t-inputprcalldata   | Input/required | Identifies the record to be changed                                    |
| t-mnt-prc-          | Input/required | This collection defines the operation to perform (see notes section)   |
| t-infieldvalue      | Input/optional | Currently not used   |
| t-outputcallResults | Output         | Identifies the PDSC records that have been updated                     |
| t-outfieldvalue     | Output         | Currently not used   |
| t-prcmessages       | Output         | Error message – Any error messages will be returned in this parameter. |

### **Notes:**

Identify a record to be updated or added using the t-inputprcalldata. If the record is found for an update or valid for an add, the update or add information will be found in the t-mnt-prc-tt. If the record is successfully updated, it will return with a pdrecno and errorfl = false in the t-prcmessages collection. If it fails to update, it will return with pdrecno = 0 and errorfl = true and messagetext should contain a description of the error.

### **t-inputprcalldata**

|            |         |   |
|------------|---------|---|
| Seqno      | integer | Joins this record to updates in t-mnt-prc-tt          |
| Actiontype | String  | Add,update,delete                                     |
| Doctype    | String  |   |
| Levelcd    | String  | PDSC level code(c1,c2l,c2c,c2r,c2p,c3,c4,c5,c6,c7,c8) |
| Whse       | String  | Whse code if applicable based on levelcd              |
| Region     | String  |   |
| Divnogroup | Int     |   |
| Startdt    | Date    | Start date (yyyy-mm-dd)                               |
| Custno     | Dec     | Customer # if applicable based on levelcd             |
| Shipto     | string  | Shipto, if applicable based on levelcd                |
| Prod       | String  | Product, if applicable based on levelcd               |
| Custtype   | String  | Customer type, if applicable based on levelcd         |
| Prodcad    | String  | Product category, if applicable based on levelcd      |
| Prodline   | String  | Product line, if applicable based on levelcd          |
| Prodprcty  | String  | Product Price Type, if applicable based on levelcd    |
| Rebatety   | String  |   |
| Rebsubty   | String  |   |
| Units      | String  | Unit of measure                                       |
| Vendno     | dec     |   |
| Pdrecno    | integer | Pd record #   |

### **t-mnt-prc-tt**

|            |         |  |
|------------|---------|--|
| Seqno      | Integer | Joins this record to t-inputprcalldata |
| Fieldname  | String  | Description of field name to change    |
| Fieldvalue | String  | Value to save into fieldname           |

Please note that the startdt is of the format YYYY-MM-DD because it is a date format. However enddt is of the format MM/DD/YYYY because it is a string and evaluated on the back end.

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## **API Call:** *sxapiPD PricingMnt*

**Purpose:** This call will maintain (add, change, delete) Price / Discounting (PDSC) records. This API will only update PDSC level 1 and 3 records.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-mnt-tt         | Input          | This first parameter is a collection that defines the operation to perform (see notes section)                          |
| extraData        | Input          | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – This parameter will contain a pipe ( ) delimited list of information as to the success of the operator. |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|            |                   |
|------------|-------------------|
| setno      | numeric / integer |
| seqno      | numeric / integer |
| key1       | character         |
| key2       | character         |
| updatemode | character         |
| fieldname  | character         |
| fieldvalue | character         |

All of the records, within the collection, are grouped together by a Set #. Each Set # represents a single operation that will be performed against the CSD system.

The seq # is just a sequential number that forces the collection records to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “add” or “chg”. At this time, “del” is not supported.

The “fieldname” field is the field that will be updated, within the CSD database table (PDSC). See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the PD Record # (pdrecno) during a “chg” operation.  
The “key2” field is not used.

Example of a new PDSC level 1 record being added:

| set# | seq# | updatemode | key1 | key2 | fieldname | fieldvalue |
|------|------|------------|------|------|-----------|------------|
| 1    | 1    | add        |      |      | levelcd   | 1          |
| 1    | 2    | add        |      |      | custno    | 101        |
| 1    | 3    | add        |      |      | prod      | 1-001      |
| 1    | 4    | add        |      |      | startdt   | 01/01/17   |
| 1    | 5    | add        |      |      | enddt     | 12/31/17   |
| 1    | 6    | add        |      |      | whse      | main       |
| 1    | 7    | add        |      |      | prcmult1  | 15.00      |

The following is a list of valid “fieldname” values:

actqty, commtype, ContractNo, custno, custtype, disctype, enddt, jobno, levelcd, maxqty, minqty, pexactrnd, prcdisc1, prcdisc2, prcdisc3, prcdisc4, prcdisc5, prcdisc6, prcdisc7, prcdisc8, prcdisc9, prcmult1, prcmult2,

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prcmult3, prcmult4, prcmult5, prcmult6, prcmult7, prcmult8, prcmult9, prctype, pricecostty, PriceEffectiveDate, priceonty, PriceSheet, pricety, prod, prodcost, promofl, pround, ptarget, qtybreakty, qtybrk1, qtybrk2, qtybrk3, qtybrk4, qtybrk5, qtybrk6, qtybrk7, qtybrk8, qtytype, qtyyymm, quotefl, quoteno, refer, startdt, statustype, termsdiscfl, termsspct, transdt, units, user1, user2, user3, user4, user5, user6, user7, user8, user9, whse

As the collection records are read, the following validation will be performed if the data for that field has been included in the input collection:

| <u>Field Name</u> | <u>Validation</u>  |
|-------------------|--------------------|
| Actqty            | Cannot be negative |

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**API Call:** *sxapiPDRebateMnt*

**Purpose:**

This call adds Price / Discounting (PDSR) records. Only level 1 PDSR with Calc type of 'Amount' (\$) will be supported.

**Parameters:**

| <i>Parameter</i> | <i>Direction</i> | <i>Description</i>   |
|------------------|------------------|--|
| t-inputrebdata   | Input            | The "Rebate" collection  |
| t-infieldvalue   | Input            | Generic Input list-item pair   |
| t-outfieldvalue  | Output           | Generic output list-item pair  |
| t-rebmessages    | Output           | This contains additional information regarding errors encountered during the call. |

**Input Collection:** t-inputrebdata

| Field Name     | Data Type | Data Information                                     | Required?                                      |
|----------------|-----------|--|--|
| actiontype     | Character | Only 'Add' supported                                 | Yes  |
| seqno          | Integer   | Assigned in Mapping to make each row unique          | Yes  |
| doctype        | Character | Document Type  | Yes  |
| levelcd        | Integer   | PDSR.levelcd - Only '1' supported                    | Yes  |
| rebatecd       | Character | PDSR.rebatecd - Only "S" supported                   | Yes  |
| vendno         | Integer   | PDSR.vendno - used to find APSV vendor#              | A Vendor is required                           |
| edipartner     | Character | used to find APSV vendor#                            |  |
| vendduns       | Character | used to find APSV vendor#                            |  |
| sendersvendid  | Character | used to find APSV vendor#                            |  |
| custno         | Integer   | PDSR.custno - used to find ARSC customer             | A Customer or Customer Rebate Type is required |
| custedipartner | Character | used to find ARSC customer                           |  |
| custduns       | Character | used to find ARSC customer                           |  |
| shipto         | Character | PDSR.shipto - used to find ARSS shipto               |  |
| custrebtty     | Character | PDSR.custrebtty                                      | A Customer or Customer Rebate Type is required |
| product        | Character | used to find ICSP product - written to pdsr.levelkey | A product is required                          |
| vendprod       | Character | used to find ICSW/ICSC product                       |  |
| barcodeprod    | Character | used to find ICSP product                            |  |
| upcsection1    | Decimal   | used to find ICSP product                            |  |
| upcsection2    | Decimal   | used to find ICSP product                            |  |
| upcsection3    | Decimal   | used to find ICSP product                            |  |
| upcsection4    | Decimal   | used to find ICSP product                            |  |
| upcsection5    | Decimal   | used to find ICSP product                            |  |
| upcsection6    | Decimal   | used to find ICSP product                            |  |
| upcnumber      | Decimal   | used to find ICSP product                            |  |

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| Field Name     | Data Type | Data Information  | Required?      |
|----------------|-----------|---|----------------|
| naedprodcd     | Character | used to find ICSP product   |                |
| startdt        | Date      | PDSR.startdt  | Yes            |
| enddt          | Date      | PDSR.enddt (left blank if not populated in data file)   |                |
| whse           | Character | PDSR.whse   |                |
| whseduns       | Character | used to find ICSD warehouse   |                |
| region         | Character | written to PDSR.whse with "RGN-" preceeding the actual Region Number  |                |
| dropshipty     | Character | PDSR.dropshipty - Loaded with 'W' unless 'D' sent. Note, if both a 'W' and 'D' record should be created, both a 'W' and a 'D' record must be in the file.   |                |
| contractno     | Character | PDSR.contractno   |                |
| contractlineno | Integer   | PDSR.contractlineno   |                |
| refer          | Character | PDSR.refer  |                |
| priceeffectdt  | Date      | PDSR.priceeffectivedate   |                |
| priceeffectdto | Date      | PDSR.priceeffectivedateto   |                |
| pricesheet     | Character | PDSR.pricesheet   |                |
| pricesheetto   | Character | PDSR.pricesheetto   |                |
| margincostty   | Character | PDSR.margincostty - (A)vg, Las(T), (R)ep, (S)td, R(E)b, LstF(O)r, or Act(C)st   |                |
| rebatecostty   | Character | PDSR.rebatecostty - (B)s, (L)st, (P)rc, (A)vg, Las(T), (R)p, (S)t, R(E)b, LstF(O), Act(C)st   |                |
| rebatepct      | Decimal   | PDSR.rebatepct  |                |
| rebcaltty      | Character | Rebate Calculation Type- PDSR.rebcaltty. (\$ )Amount, (%)Percent, (N)et, or (M)argin Guaranteed   | Yes            |
| rebdowntoty    | Character | Rebate Down To Type - PDSR.rebdowntoty - (F)lat, (A)vg, Las(T), (R)ep, (S)td, R(E)b, or LstF(O)r  |                |
| rebateamt      | Decimal   | Rebate Amount - PDSR.rebateamt  |                |
| contractcostfl | Logical   | Contract Cost Flag - PDSR.contractcostfl  |                |
| capselltypefl  | Logical   | Cap Sell Type Flag - PDSR.capselltypefl ( format: \$/%; Default to yes(\$))   |                |
| sharefl        | Logical   | Share Flag - PDSR.sharefl (default to No)   |                |
| capsellamount  | Decimal   | Cap Sell Amount - PDSR.capsellamount  |                |
| sharepct       | Decimal   | Share Percent - PDSR.sharepct   |                |
| manualfl       | Logical   | Manual Flag - PDSR.manualfl (default to No)   |                |
| currencyty     | Character | Currency  |                |
| vendprodgrp    | Character | Not used  |                |
| prodpricety    | Character | written to PDSR.levelkey  | Not for Type 1 |
| prodcatt       | Character | written to PDSR.levelkey  | Not for Type 1 |
| prodline       | Character | written to PDSR.levelkey  | Not for Type 1 |
| prodrebtty     | Character | written to PDSR.levelkey  | Not for Type 1 |
| rebsubty       | Character | PDSR.rebsubty - If it is not a manual rebate and Distributor uses the rebate subtype field (AO > Products > Rebates > Rebate Options > Rebate Sub Types is set to yes/checked). Note, see below for details on how this field is built behind-the-scenes and used for Contract Number | Not for Type 1 |

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| Field Name        | Data Type | Data Information  | Required? |
|-------------------|-----------|---|-----------|
|                   |           | and Contract Line Number, which does apply to Type 1 records.   |           |
| rebrecno          | Integer   | Rebate Record Number - PDSR.rebrecno - Not provided in file (Assigned at creation for an ADD)   |           |
| Usecontractlineno | Logical   |   |           |
| Errorfl           | Logical   | yes/no if record contains any type of error   |           |
| Errortype         | Character | “F” indicates Fatal errors exist<br>“D” indicates record is a duplicate based on contract<br>“E” indicates an error to be corrected in PDEM |           |
| Setid             | char      |   |           |

## Input Collection: t-infieldvalue

| Field Name | Data Type | Data Information              | Required? |
|------------|-----------|-------------------------------|-----------|
| Level      | character | “h” for header info           |           |
| Lineno     | Integer   | Must be 0                     |           |
| Seqno      | Integer   | Must be 0                     |           |
| fieldname  | Character | “PriceRebFI” for pricing data |           |
| Fieldvalue | Character | “yes”                         |           |

# ION API Technical Documentation

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**API Call:** *sxapiPing*

**Purpose:** This call is used to test whether the SXAPI Appserver is working properly.

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                        |
| inputString      | Input          | Any character test data. This will be returned on the next output parameter.          |
| outputString     | Output         | Output data – whatever is passed in the first parameter will be returned in this one. |

**Notes:**

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## **API Call:** *sxapiPOAcknowledgement*

**Purpose:** This call is used to acknowledge a given purchase order. Once a purchase order has been sent to a vendor, they can send a PO Acknowledgement document to confirm due dates and make limited line item level changes.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-document-tt    | Input          | Collection – This collection specifies the purchase order(s) to be operated upon and the individual data elements (fields) that can be changed (see notes below). |
| extraData        | Input          | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – A delimited list of confirmation information.   |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|            |  |
|------------|--|
| orderno    | numeric / integer                      |
| ordersuf   | numeric / integer                      |
| level      | character                              |
| lineno     | numeric / integer                      |
| compseqno  | numeric / integer (currently not used) |
| seqno      | numeric / integer                      |
| fieldname  | character                              |
| fieldvalue | character                              |

All of the records, within the collection, are grouped together for a given orderno/ordersuf pair. This would be a set of records that will update a single purchase order document. The orderno and ordersuf fields will be used to locate the Purchase Order (POEH) record. It must point to a valid PO in order to process the acknowledgement properly. All POs must be <= stage 3 and the trans type should be QU, DO, PO, or BR.

There can be a set of records, for a given orderno/ordersuf value, for 2 levels. The “level” field is used for this purpose. The valid values in this field are “hdr” and “line”. Therefore, there can be a set of records that control the updating at the “hdr” level and there can be multiple sets of records that control updating at the “line” level. At the “line” level, there can be a set of records for each PO line item to be updated.

At the “hdr” level, the “lineno” is not used and is ignored. At the “line” level, the “lineno” must be a valid line # (POEL record). At this time, the “compseqno” field is not used.

The “seqno” field is used to control the sequence of records within each break. A break is a change of orderno, ordersuf, level, lineno, and compseqno.

The “fieldname” field is the field that will be update for that level. This corresponds to the CSD database table (POEH for “hdr” and POEL for “line”) to be updated. See below for a list of possible choices.

The “fieldvalue” field is the value of the data for that field.

Possible “fieldname” choices:

| Level | FieldName |
|-------|-----------|
| Hdr   | expshipdt |
| Hdr   | duedt     |
| Line  | qtyord    |
| Line  | price     |
| Line  | duedt     |
| Line  | unit      |



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|      |           |
|------|-----------|
| Line | expshipdt |
|------|-----------|

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## **API Call:** *sxapiPOAdvanceShipNotice*

**Purpose:** This call is used to process an Advance Ship Notice for a given purchase order. Once a purchase order has been sent to a vendor and the vendor ships the inventory to the distributor, the vendor can send a PO Advance Ship Notice document to reflect the inventory being shipped.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-document-tt    | Input          | Collection – This collection specifies the purchase order(s) to be operated upon and the individual data elements (fields) that can be changed (see notes below). |
| extraData        | Input          | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – A delimited list of confirmation information.   |

### **Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|            |  |
|------------|--|
| orderno    | numeric / integer                      |
| ordersuf   | numeric / integer                      |
| level      | character                              |
| lineno     | numeric / integer                      |
| compseqno  | numeric / integer (currently not used) |
| seqno      | numeric / integer                      |
| fieldname  | character                              |
| fieldvalue | character                              |

All of the records, within the collection, are grouped together for a given orderno/ordersuf pair. This would be a set of records that will update a single purchase order document. The orderno and ordersuf fields will be used to locate the Purchase Order (POEH) record. It must point to a valid PO in order to process the document properly.

There can be a set of records, for a given orderno/ordersuf value, for 2 levels. The “level” field is used for this purpose. The valid values in this field are “hdr” and “line”. Therefore, there can be a set of records that control the updating at the “hdr” level and there can be multiple sets of records that control updating at the “line” level. At the “line” level, there can be a set of records for each PO line item to be updated.

At the “hdr” level, the “lineno” is not used and is ignored. At the “line” level, the “lineno” must be a valid line # (POEL record). At this time, the “compseqno” field is not used.

The “seqno” field is used to control the sequence of records within each break. A break is a change of orderno, ordersuf, level, lineno, and compseqno.

The “fieldname” field is the field that will be update for that level. This corresponds to the CSD database table (POEH for “hdr” and POEL for “line”) to be updated. See below for a list of possible choices.

The “fieldvalue” field is the value of the data for that field.

Possible “fieldname” choices:

| Level | FieldName  |
|-------|------------|
| Hdr   | shipmentid |
| Line  | shipmentid |
| Line  | qtyrcv     |
| Line  | unit       |

# ION API Technical Documentation

## **API Call:** *sxapiPOEditSerLotList*

**Purpose:** Edits a list of Serial/Lots for PO Receiving

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                                |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)         |
| t-poeditlist         | Input          | t-poeditlist   |
| t-infieldvalue       | Input          | t-infieldvalue   |
| t-list-outeditserlot | Output         | t-list-outeditserlot   |
| t-outfieldvalue      | Output         | t-outfieldvalue  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter. |
| successFlag          | Output         | SuccessFI – Yes if no Errors found                                     |

### **Notes:**

Serials at Sales: Not allowed

Lots and Serials at Receiving: Serial/Lot must not already exist

Return: Serial/Lot must be unavailable with sufficient quantity to be returned.

Regrind: Allows the re-receiving of a serial/lot after it has been sold (it may be sent out for processing and returned multiple times). Also, the AO option for receiving into a new lot only is ignored.

Serial/Lot List Input collection (t-poeditlist)

| Field Name | Data Type |                   |
|------------|-----------|-------------------|
| Serlotty   | char      | required: S or L  |
| Prod       | char      | required          |
| Whse       | char      | required          |
| Serlotno   | char      | required          |
| Lineno     | integer   | required          |
| Returnfl   | logical   | yes or no         |
| Quantity   | decimal   | required for lots |
| Regrindfl  | logical   | yes or no         |

Serial/Lot List Output collection (t-list-outeditserlot)

| Field Name | Data Type     |
|------------|---------------|
| Serlotno   | char          |
| Lineno     | integer       |
| Prod       | Product       |
| Errmess    | Error Message |

Additional input in t-infieldvalue for PO Returns for error 6540:

Level – the serial/lot number

Lineno – zero

Seqno – zero

Fieldname – “reasunavty”

Fieldvalue – the unavailable reason

PO - Purchase Order

|                |                               |  |
|----------------|-------------------------------|--|
| Serial at Sale | Serial at Receiving           | Lots   |
| Not allowed    | Serial# Already Exists (5858) | Cannot Receive into Existing Lot (5909) *based on AO Setting |

PO - Return Purchase Order

|                |                               |                                 |
|----------------|-------------------------------|---------------------------------|
| Serial at Sale | Serial at Receiving           | Lots                            |
| Not allowed    | Serial# Does Not Exist (5776) | Lot # Not Set Up – ICSEL (5623) |

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|  |  |  |
|--|--|--|
|  | Serial# Must be in Unavailable to Return to Vendor (5857)<br>Serial # Allocated to a Different Order(5770) | Quantity Cannot Be > Unavailable (5647)<br>Qty Cannot be > Unavailable Qty for the Reason Unavailable Type Selected (6540) |
|--|--|--|

# ION API Technical Documentation

## **API Call:** *sxapiPOGetDocumentList*

**Purpose:** This call is used for the eBay product. When purchase orders are printed, instead of printing the actual document, they will be processed using outbound XML. In this case, a vendor may have the means of asking CSD for the list of purchase orders that have been prepared. This API call is used to retrieve a list of purchase orders that have been prepared using the outbound XML “vnd\_po” XML processing feature. This API call is used as a front-end to the “sxapiPOGetSingleXML” call (which retrieves the raw XML data for a single PO).

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| warehouse        | Input          | Warehouse (optional) – If the PO's for a particular warehouse are to be retrieved, then it can be specified in this parameter. If left blank, PO's will be selected regardless of warehouse.  |
| vendorNumber     | Input          | Vendor # (optional) – Only the PO's for this vendor will be retrieved.  |
| enterDate        | Input          | Entered Date (optional) – If the PO's to be retrieved after (inclusive) entered date are desired, then this parameter can be used for selection purposes. If left blank (undefined), then PO's will be selected regardless of their entered date. |
| stageCode        | Input          | Stage (optional) – If the PO's to be retrieved are for a certain stage (1-Ordered, 2-Printed, ..), then this parameter can be used for selection purposes. If left as zero, then PO's will be selected regardless of their stage.                 |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| t-podoc          | Output         | “t-podoclist” Collection (see below)  |

### **Notes:**

The output for this API call is a collection known as “t-podoclist”. It contains 1 record for each PO order selected and contains matching fields that exists in the PO Header Record (POEH). The field “docid” contains the Document Identifier for the prepared PO XML transaction. The value in this field is used to request the XML data during the “sxapiPOGetSingleXML” API call.

Fields in collection:

| Field Name   | Type                          |
|--------------|-------------------------------|
| Docid        | integer                       |
| Whse         | character                     |
| Vendno       | decimal                       |
| Shipfmno     | integer                       |
| Pono         | integer                       |
| Posuf        | integer                       |
| Stagecd      | integer                       |
| Stagecdwords | character (Stage cd in words) |
| Enterdt      | date                          |

# ION API Technical Documentation

## **API Call:** *sxapiPOGetListOfPurchaseOrders*

**Purpose:** Retrieve a list of Purchase Orders (PO) based on a variety of selection criteria.

### **Parameters:**

| REST Params            | Direction      | Description   |
|------------------------|----------------|---|
| companyNumber          | Input/required | Company #   |
| operatorInit           | Input/required | SASO operator for the company specified   |
| operatorPassword       | Input/optional | SASO operator password (only required if business rule is set)                                    |
| vendorNumber           | Input          | Vendor # - Optional field to select by Vendor #.  |
| shipFromNumber         | Input          | Ship From # - Optional field to select by Ship From #.  |
| whse                   | Input          | Warehouse – Optional field to select by warehouse.  |
| transactionType        | Input          | Transaction Types – Optional field to select based on a comma-separated list of transaction types |
| product                | Input          | Product – Optional field to select based on a PO line item having this product.                   |
| buyer                  | Input          | Buyer – Optional field to select by Buyer.  |
| trackerNumber          | Input          | Tracker # – Optional field to select based on the Overseas Trade Tracker #.                       |
| containerNumber        | Input          | Container # - Optional field to select based on the Overseas Trade Container #.                   |
| beginStage             | Input          | Beginning Stage – Optional field to select based on a “From” stage (inclusive).                   |
| endStage               | Input          | Ending Stage – Optional field to select based on a “To” stage (inclusive).                        |
| beginCostedDate        | Input          | Beginning Costed Date – Optional field to select based on a “From” Costed Date.                   |
| endCostedDate          | Input          | Ending Costed Date – Optional field to select based on a “To” Costed Date.                        |
| beginPaidDate          | Input          | Beginning Paid Date – Optional field to select based on a “From” Paid Date.                       |
| endPaidDate            | Input          | Ending Paid Date – Optional field to select based on a “To” Paid Date.                            |
| beginDueDate           | Input          | Beginning Due Date – Optional field to select based on a “From” Due Date.                         |
| endDueDate             | Input          | Ending Due Date – Optional field to select based on a “To” Due Date.                              |
| beginPrintedDate       | Input          | Beginning Printed Date – Optional field to select based on a “From” Printed Date.                 |
| endPrintedDate         | Input          | Ending Printed Date – Optional field to select based on a “To” Printed Date.                      |
| beginEnteredDate       | input          | Beginning Entered Date – Optional field to select based on a “From” Entered Date.                 |
| endEnteredDate         | Input          | Ending Entered Date – Optional field to select based on a “To” Entered Date.                      |
| beginReceiptDate       | Input          | Beginning Receipt Date – Optional field to select based on a “From” Receipt Date.                 |
| endReceiptDate         | Input          | Ending Receipt Date – Optional field to select based on a “To” Receipt Date.                      |
| beginOrderedDate       | input          | Beginning Ordered Date – Optional field to select based on a “From” Ordered Date.                 |
| endOrderedDate         | Input          | Ending Ordered Date – Optional field to select based on a “To” Ordered Date.                      |
| beginRequestedShipDate | Input          | Beginning Requested Ship Date – Optional field to select based on a “From” Requested Ship Date.   |
| endRequestedShipDate   | Input          | Ending Requested Ship Date – Optional field to select based on a “To” Requested Ship Date.        |
| sort1                  | Input          | Sort 1 – not defined yet  |

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|                 |        |  |
|-----------------|--------|--|
| sort2           | Input  | Sort 2 – not defined yet   |
| recordLimit     | input  | Record Limit – This is an optional parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur. |
| errorMessage    | output | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsFlag | Output | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| t-polist        | Output | The t-polist collection  |

## Notes:

t-polist fields:

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Pono              | integer          |
| Posuf             | integer          |
| Notesfl           | character        |
| Vendno            | decimal          |
| Shipfmno          | integer          |
| Whse              | character        |
| Transtype         | character        |
| Stagecd           | integer          |
| Stagecdwords      | character        |
| Buyer             | character        |
| Costeddt          | date             |
| Duedt             | date             |
| Enterdt           | date             |
| Orderdt           | date             |
| Paiddt            | date             |
| Printeddt         | date             |
| Receiptdt         | date             |
| Reqshipdt         | date             |
| Totqtyord         | decimal          |
| Sortfld           | character        |

# ION API Technical Documentation

## **API Call:** *sxapiPOGetListOfPurchaseOrdersV2*

**Purpose:** Retrieve a list of Purchase Orders (PO) based on a variety of selection criteria – Version 2.

### **Parameters:**

| Parameter                    | Direction      | Description   |
|------------------------------|----------------|---|
| companyNumber                | Input/required | Company #   |
| operatorInit                 | Input/required | SASO operator for the company specified   |
| operatorPassword             | Input/optional | SASO operator password (only required if business rule is set)                                    |
| vendorNumber                 | Input          | Vendor # - Optional field to select by Vendor #.  |
| shipFromNumber               | Input          | Ship From # - Optional field to select by Ship From #.  |
| whse                         | Input          | Warehouse – Optional field to select by warehouse.  |
| transactionType              | Input          | Transaction Types – Optional field to select based on a comma-separated list of transaction types |
| product                      | Input          | Product – Optional field to select based on a PO line item having this product.                   |
| buyer                        | Input          | Buyer – Optional field to select by Buyer.  |
| trackerNumber                | Input          | Tracker # – Optional field to select based on the Overseas Trade Tracker #.                       |
| containerNumber              | Input          | Container # - Optional field to select based on the Overseas Trade Container #.                   |
| beginStage                   | Input          | Beginning Stage – Optional field to select based on a “From” stage (inclusive).                   |
| endStage                     | Input          | Ending Stage – Optional field to select based on a “To” stage (inclusive).                        |
| beginCostedDate              | Input          | Beginning Costed Date – Optional field to select based on a “From” Costed Date.                   |
| endCostedDate                | Input          | Ending Costed Date – Optional field to select based on a “To” Costed Date.                        |
| beginPaidDate                | Input          | Beginning Paid Date – Optional field to select based on a “From” Paid Date.                       |
| endPaidDate                  | Input          | Ending Paid Date – Optional field to select based on a “To” Paid Date.                            |
| beginDueDate                 | Input          | Beginning Due Date – Optional field to select based on a “From” Due Date.                         |
| endDueDate                   | Input          | Ending Due Date – Optional field to select based on a “To” Due Date.                              |
| beginPrintedDate             | Input          | Beginning Printed Date – Optional field to select based on a “From” Printed Date.                 |
| endPrintedDate               | Input          | Ending Printed Date – Optional field to select based on a “To” Printed Date.                      |
| beginEnteredDate             | input          | Beginning Entered Date – Optional field to select based on a “From” Entered Date.                 |
| endEnteredDate               | Input          | Ending Entered Date – Optional field to select based on a “To” Entered Date.                      |
| beginReceiptDate             | Input          | Beginning Receipt Date – Optional field to select based on a “From” Receipt Date.                 |
| endReceiptDate               | Input          | Ending Receipt Date – Optional field to select based on a “To” Receipt Date.                      |
| beginOrderedDate             | input          | Beginning Ordered Date – Optional field to select based on a “From” Ordered Date.                 |
| endOrderedDate               | Input          | Ending Ordered Date – Optional field to select based on a “To” Ordered Date.                      |
| beginRequestedShipDate       | Input          | Beginning Requested Ship Date – Optional field to select based on a “From” Requested Ship Date.   |
| endRequestedShipDate         | Input          | Ending Requested Ship Date – Optional field to select based on a “To” Requested Ship Date.        |
| beginningPurchaseOrderNumber | Input          | Beginning PO Number – Optional field to select based on a “From” Purchase Order Number            |



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|                           |        |  |
|---------------------------|--------|--|
| endingPurchaseOrderNumber | Input  | Ending PO Number – Optional field to select based on a “To” Requested Purchase Order Number.   |
| sort1                     | Input  | Sort 1 – not defined yet   |
| sort2                     | Input  | Sort 2 – not defined yet   |
| recordLimit               | input  | Record Limit – This is an optional parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur. |
| t-infieldvalue            | Input  | t-infieldvalue collection - for user defined input   |
| errorMessage              | output | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsFlag           | Output | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| t-polistv2                | Output | The t-polistv2 collection  |

## Notes:

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| Level      | character |
| Lineno     | integer   |
| Seqno      | integer   |
| Fieldname  | character |
| Fieldvalue | character |

t-polist fields:

| Field Name   | Data Type                     |
|--------------|-------------------------------|
| Pono         | integer                       |
| Posuf        | integer                       |
| Notesfl      | character                     |
| Vendno       | decimal                       |
| Shipfmno     | integer                       |
| Whse         | character                     |
| Transtype    | character                     |
| Stagecd      | integer                       |
| Stagecdwords | character                     |
| Buyer        | character                     |
| Costeddt     | date                          |
| Duedt        | date                          |
| Enterdt      | date                          |
| Orderdt      | date                          |
| Paiddt       | date                          |
| Printeddt    | date                          |
| Receiptdt    | date                          |
| Reqshipdt    | date                          |
| Totqtyord    | decimal                       |
| Sortfld      | character                     |
| User Fields  | User Fields 1-9 and UserField |

# ION API Technical Documentation

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**API Call:** *sxapiPOGetSinglePOXML*

**Purpose:** This API call is used in conjunction with the sxapiPOGetDocumentList call.

Once the vendor gets the list of prepared purchase orders, they can run the sxapiPOGetSinglePOXML call. This call will return the raw XML data for a single purchase order.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                                   |
| documentId       | Input/Required | Document ID – The required numeric DOCID for the document to be retrieved.                       |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                           |
| t-SXXMLReply     | Output         | Collection – This collection contains the raw XML, one record for each line in the XML document. |

**Notes:**

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## **API Call:** *sxapiPOGetSinglePurchaseOrder*

**Purpose:** This call is used to retrieve the data for a single PO purchase order. There are several passed parameters that control the set of data elements to be retrieved.

### **Parameters:**

| REST Params         | Direction      | Description  |
|---------------------|----------------|--|
| companyNumber       | Input/required | Company #  |
| operatorInit        | Input/required | SASO operator for the company specified  |
| operatorPassword    | Input/optional | SASO operator password (only required if business rule is set)   |
| purchaseOrderNumber | Input/Required | Required Purchase Order #  |
| purchaseOrderSuffix | Input/Required | Required Purchase Order Suffix   |
| lineSort            | Input/Optional | Line item sort – see notes below   |
| includeHeaderData   | Input/Required | Header data retrieval flag (yes/no)  |
| includeTotalData    | Input/Required | Total data retrieval flag  |
| includeLineData     | Input/Required | Line item data retrieval flag  |
| errorMessage        | Output         | Error message – Any error messages will be returned in this parameter.                                     |
| t-fieldlist         | Output         | t-fieldlist collection - containing header / total data (see note below)                                   |
| t-polineitem        | Output         | t-polineitem collection – containing line item data if the Line item data retrieval flag was set to “yes”. |

### **Notes:**

The Line Item Sort parameter controls the sorting of the PO line items as follows:

“a” – Sort by Line #

“b” – Sort by Product

“c” – Sort by Description

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be returned. The following is a list of the possible values (based on the input parameter flags above that control what section of data should be returned):

| Level  | Field Name   | Field Value                                      |
|--------|--------------|--|
| Header | pono         | poeh.pono  |
| Header | posuf        | poeh.posuf                                       |
| Header | actionty     | poeh.actionty                                    |
| Header | apinvno      | poeh.apinvno                                     |
| Header | billtowhse   | poeh.billtowhse                                  |
| Header | bofl         | poeh.bofl  |
| Header | borelfl      | poeh.borelfl                                     |
| Header | buyer        | poeh.buyer                                       |
| Header | buyername    | sasta.descrip based on poeh.buyer                |
| Header | confirmfl    | poeh.confirmfl                                   |
| Header | contactid    | poeh.contactid                                   |
| Header | contactnm    | Contacts.firstnm, lastnm based on poeh.contactid |
| Header | costeddt     | poeh.costeddt                                    |
| Header | countrycd    | poeh.countrycd                                   |
| Header | countrycdesc | sasta.descrip based on poeh.countrycd            |
| Header | createdby    | poeh.createdby                                   |
| Header | creasonty    | poeh.creasonty                                   |
| Header | currencyty   | poeh.currencyty                                  |
| Header | divno        | poeh.divno                                       |
| Header | duedt        | poeh.duedt                                       |
| Header | enterdt      | poeh.enterdt                                     |
| Header | expshiptd    | poeh.expshiptd                                   |
| Header | fobfl        | poeh.fobfl                                       |
| Header | ignorelfl    | poeh.ignorelfl                                   |
| Header | jrnlno       | poeh.jrnlno                                      |
| Header | jrnlno2      | poeh.jrnlno2                                     |
| Header | manaddr1     | poeh.manaddr[1]                                  |

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|                       |                                      |
|-----------------------|--------------------------------------|
| Header manaddr2       | poeh.manaddr[2]                      |
| Header manaddr3       | poeh.manaddr3 (future)               |
| Header mancify        | poeh.mancify                         |
| Header manname        | poeh.manname                         |
| Header manstate       | poeh.manstate                        |
| Header manzipcd       | poeh.manzipcd                        |
| Header vendname       | apsv.name                            |
| Header vendaddr1      | apsv.addr[1]                         |
| Header vendaddr2      | apsv.addr[2]                         |
| Header vendaddr3      | apsv.addr3 (future)                  |
| Header vendcity       | apsv.city                            |
| Header vendstate      | apsv.state                           |
| Header vendzipcd      | apsv.zipcd                           |
| Header vendphoneno    | apsv.phoneno                         |
| Header vendfaxphoneno | apsv.faxphoneno                      |
| Header fromname       | apss/apsv.name                       |
| Header fromaddr1      | apss/apsv.addr[1]                    |
| Header fromaddr2      | apss/apsv.addr[2]                    |
| Header fromaddr3      | apss/apsv.addr3 (future)             |
| Header fromcity       | apss/apsv.city                       |
| Header fromstate      | apss/apsv.state                      |
| Header fromzipcd      | apss/apsv.zipcd                      |
| Header fromphoneno    | apss/apsv.phoneno                    |
| Header fromfaxphoneno | apss/apsv.faxphoneno                 |
| Header whsename       | icsd.name                            |
| Header whseaddr1      | icsd.addr[1]                         |
| Header whseaddr2      | icsd.addr[2]                         |
| Header whseaddr3      | icsd.addr3 (future)                  |
| Header whsecity       | icsd.city                            |
| Header whsestate      | icsd.state                           |
| Header whsezipcd      | icsd.zipcd                           |
| Header whsephoneno    | icsd.phoneno                         |
| Header billtoname     | icsd.name (based on poeh.billtowhse) |
| Header billtoaddr1    | icsd.addr[1]                         |
| Header billtoaddr2    | icsd.addr[2]                         |
| Header billtoaddr3    | icsd.addr3 (future)                  |
| Header billtocity     | icsd.city                            |
| Header billtostate    | icsd.state                           |
| Header billtozipcd    | icsd.zipcd                           |
| Header billtophoneno  | icsd.phoneno                         |
| Header nolineitem     | poeh.nolineitem                      |
| Header notesfl        | poeh.notesfl                         |
| Header orderaltno     | poeh.orderaltno                      |
| Header orderaltsuf    | poeh.orderaltsuf                     |
| Header orderdisp      | poeh.orderdisp                       |
| Header orderdt        | poeh.orderdt                         |
| Header paiddt         | poeh.paiddt                          |
| Header printeddt      | poeh.printeddt                       |
| Header prodline       | poeh.prodline                        |
| Header receiptdt      | poeh.receiptdt                       |
| Header receiverno     | poeh.receiverno                      |
| Header refer          | poeh.refer                           |
| Header reqshipdt      | poeh.reqshipdt                       |
| Header resalefl       | poeh.resalefl                        |
| Header resaleno       | poeh.resaleno                        |
| Header rushfl         | poeh.rushfl                          |
| Header shipfmno       | poeh.shipfmno                        |
| Header shipinstr      | poeh.shipinstr                       |

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|                      |  |
|----------------------|--|
| Header shiptoaddr1   | poeh.shiptoaddr[1]                     |
| Header shiptoaddr2   | poeh.shiptoaddr[2]                     |
| Header shiptoaddr3   | poeh.shiptoaddr3 (future)              |
| Header shiptocity    | poeh.shiptocity                        |
| Header shiptonm      | poeh.shiptonm                          |
| Header shiptost      | poeh.shiptost                          |
| Header shiptozip     | poeh.shiptozip                         |
| Header shipviaty     | poeh.shipviaty                         |
| Header shipviatydesc | sasta.descript based on poeh.shipviaty |
| Header stagecd       | poeh.stagecd                           |
| Header stagecdword   | g-postg.i based on poeh.stagecd        |
| Header subfl         | poeh.subfl                             |
| Header termstype     | poeh.termstype                         |
| Header termstypedesc | sasta.descrip based on poeh.termstype  |
| Header transtype     | poeh.transtype                         |
| Header vendno        | poeh.vendno                            |
| Header whse          | poeh.whse                              |

|       |              |                     |
|-------|--------------|---------------------|
| Total | addonamt1-4  | poeh.addonamt[1-4]  |
| Total | addonnet1-4  | poeh.addonnet[1-4]  |
| Total | addonno1-4   | poeh.addonno[1-4]   |
| Total | addontype1-4 | poeh.addontype[1-4] |
| Total | wodiscamt    | poeh.wodiscamt      |
| Total | wodiscnet    | poeh.wodiscnet      |
| Total | wodiscstype  | poeh.wodiscstype    |
| Total | totcubes     | poeh.totcubes       |
| Total | totexpinv    | poeh.totexpinv      |
| Total | totexprcv    | poeh.totexprcv      |
| Total | totinvamt    | poeh.totinvamt      |
| Total | totlineamt   | poeh.totlineamt     |
| Total | totqtycost   | poeh.totqtycost     |
| Total | totqtyord    | poeh.totqtyod       |
| Total | totqtyrcv    | poeh.totqtyrcv      |
| Total | totqtyrcvb   | poeh.totqtyrcvb     |
| Total | totrcvamt    | poeh.totrcvamt      |
| Total | totweight    | poeh.totweight      |

The t-polineitem collection is defined as follows:

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| Botype            | character   |
| Commentfl         | logical     |
| Contno            | character   |
| Cubes             | decimal     |
| Duedt             | date        |
| Enterdt           | date        |
| Expshipdt         | date        |
| Leadoverty        | character   |
| Lineno            | integer     |
| Netamt            | decimal     |
| Netrcv            | decimal     |
| Nonstockty        | character   |
| Price             | decimal     |
| Printfl           | logical     |
| Prodcatt          | character   |
| Prodcattdesc      | character   |
| Proddesc          | character   |
| Proddesc2         | character   |
| Prodline          | character   |

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|             |                                     |
|-------------|-------------------------------------|
| Qtyord      | decimal                             |
| Qtyrcv      | decimal                             |
| Qtyunavail  | decimal                             |
| Rcvcost     | decimal                             |
| Reasunavty  | character                           |
| Reqprod     | character                           |
| Reqshipdt   | date                                |
| Shipprod    | character                           |
| Statusype   | character                           |
| Stkqtyord   | decimal                             |
| Tallyfl     | logical                             |
| Trackno     | integer                             |
| Unit        | character                           |
| Unitconv    | decimal                             |
| Vafakeprodf | logical                             |
| Weight      | decimal                             |
| Sortfld     | character (sort key for collection) |

# ION API Technical Documentation

## **API Call:** *sxapiPOGetSinglePurchaseOrderV2*

**Purpose:** This call is used to retrieve the data for a single PO purchase order. There are several passed parameters that control the set of data elements to be retrieved – Version 2.

### **Parameters:**

| REST Params         | Direction      | Description  |
|---------------------|----------------|--|
| companyNumber       | Input/required | Company #  |
| operatorInit        | Input/required | SASO operator for the company specified  |
| operatorPassword    | Input/optional | SASO operator password (only required if business rule is set)   |
| purchaseOrderNumber | Input/Required | Required Purchase Order #  |
| purchaseOrderSuffix | Input/Required | Required Purchase Order Suffix   |
| lineSort            | Input/Optional | Line item sort – see notes below   |
| includeHeaderData   | Input/Required | Header data retrieval flag (yes/no)  |
| includeTotalData    | Input/Required | Total data retrieval flag  |
| includeLineData     | Input/Required | Line item data retrieval flag  |
| t-infieldvalue      | Input/Optional | t-infieldvalue   |
| errorMessage        | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-fieldlist         | Output         | t-fieldlist collection - containing header / total data (see note below)   |
| t-polineitemv2      | Output         | t-polineitemv2 collection – containing line item data if the Line item data retrieval flag was set to “yes” – Version 2. |
| t-outfieldvalue     | Output         | t-outfieldvalue  |

### **Notes:**

The Line Item Sort parameter controls the sorting of the PO line items as follows:

“a” – Sort by Line #

“b” – Sort by Product

“c” – Sort by Description

Collection fields for both t-infieldvalue and t-outfieldvalue:

| Field Name | Type      |
|------------|-----------|
| Level      | character |
| Lineno     | integer   |
| Seqno      | integer   |
| Fieldname  | character |
| Fieldvalue | character |

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be returned. The following is a list of the possible values (based on the input parameter flags above that control what section of data should be returned):

| Level               | Field Name | Field Value                                      |
|---------------------|------------|--|
| Header pono         |            | poeh.pono  |
| Header posuf        |            | poeh.posuf                                       |
| Header actionty     |            | poeh.actionty                                    |
| Header apinvno      |            | poeh.apinvno                                     |
| Header billtowhse   |            | poeh.billtowhse                                  |
| Header bofl         |            | poeh.bofl  |
| Header borelfl      |            | poeh.borelfl                                     |
| Header buyer        |            | poeh.buyer                                       |
| Header buyername    |            | sasta.descrip based on poeh.buyer                |
| Header confirmfl    |            | poeh.confirmfl                                   |
| Header contactid    |            | poeh.contactid                                   |
| Header contactnm    |            | Contacts.firstnm, lastnm based on poeh.contactid |
| Header costeddt     |            | poeh.costeddt                                    |
| Header countrycd    |            | poeh.countrycd                                   |
| Header countrycdesc |            | sasta.descrip based on poeh.countrycd            |
| Header createdby    |            | poeh.createdby                                   |
| Header ccreasonty   |            | poeh.ccreasonty                                  |

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|                       |                                      |
|-----------------------|--------------------------------------|
| Header currencyty     | poeh.currencyty                      |
| Header divno          | poeh.divno                           |
| Header duedt          | poeh.duedt                           |
| Header enterdt        | poeh.enterdt                         |
| Header expshipdt      | poeh.expshipdt                       |
| Header fobfl          | poeh.fobfl                           |
| Header ignoreltfl     | poeh.ignoreltfl                      |
| Header jrnlno         | poeh.jrnlno                          |
| Header jrnlno2        | poeh.jrnlno2                         |
| Header manaddr1       | poeh.manaddr[1]                      |
| Header manaddr2       | poeh.manaddr[2]                      |
| Header manaddr3       | poeh.manaddr3 (future)               |
| Header mancify        | poeh.mancify                         |
| Header manname        | poeh.manname                         |
| Header manstate       | poeh.manstate                        |
| Header manzipcd       | poeh.manzipcd                        |
| Header vendname       | apsv.name                            |
| Header vendaddr1      | apsv.addr[1]                         |
| Header vendaddr2      | apsv.addr[2]                         |
| Header vendaddr3      | apsv.addr3 (future)                  |
| Header vendcity       | apsv.city                            |
| Header vendstate      | apsv.state                           |
| Header vendzipcd      | apsv.zipcd                           |
| Header vendphoneno    | apsv.phoneno                         |
| Header vendfaxphoneno | apsv.faxphoneno                      |
| Header fromname       | apss/apsv.name                       |
| Header fromaddr1      | apss/apsv.addr[1]                    |
| Header fromaddr2      | apss/apsv.addr[2]                    |
| Header fromaddr3      | apss/apsv.addr3 (future)             |
| Header fromcity       | apss/apsv.city                       |
| Header fromstate      | apss/apsv.state                      |
| Header fromzipcd      | apss/apsv.zipcd                      |
| Header fromphoneno    | apss/apsv.phoneno                    |
| Header fromfaxphoneno | apss/apsv.faxphoneno                 |
| Header whsename       | icsd.name                            |
| Header whseaddr1      | icsd.addr[1]                         |
| Header whseaddr2      | icsd.addr[2]                         |
| Header whseaddr3      | icsd.addr3 (future)                  |
| Header whsecity       | icsd.city                            |
| Header whsestate      | icsd.state                           |
| Header whsezipcd      | icsd.zipcd                           |
| Header whsephoneno    | icsd.phoneno                         |
| Header billtoname     | icsd.name (based on poeh.billtowhse) |
| Header billtoaddr1    | icsd.addr[1]                         |
| Header billtoaddr2    | icsd.addr[2]                         |
| Header billtoaddr3    | icsd.addr3 (future)                  |
| Header billtocity     | icsd.city                            |
| Header billtostate    | icsd.state                           |
| Header billtozipcd    | icsd.zipcd                           |
| Header billtophoneno  | icsd.phoneno                         |
| Header nolineitem     | poeh.nolineitem                      |
| Header notesfl        | poeh.notesfl                         |
| Header orderaltno     | poeh.orderaltno                      |
| Header orderaltsuf    | poeh.orderaltsuf                     |
| Header orderdisp      | poeh.orderdisp                       |
| Header orderdt        | poeh.orderdt                         |
| Header paiddt         | poeh.paiddt                          |
| Header printeddt      | poeh.printeddt                       |



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|                      |  |
|----------------------|--|
| Header prodline      | poeh.prodline                          |
| Header receiptdt     | poeh.receiptdt                         |
| Header receiverno    | poeh.receiverno                        |
| Header refer         | poeh.refer                             |
| Header reqshipdt     | poeh.reqshipdt                         |
| Header resalefl      | poeh.resalefl                          |
| Header resaleno      | poeh.resaleno                          |
| Header rushfl        | poeh.rushfl                            |
| Header shipfmno      | poeh.shipfmno                          |
| Header shipinstr     | poeh.shipinstr                         |
| Header shiptoaddr1   | poeh.shiptoaddr[1]                     |
| Header shiptoaddr2   | poeh.shiptoaddr[2]                     |
| Header shiptoaddr3   | poeh.shiptoaddr3 (future)              |
| Header shiptocity    | poeh.shiptocity                        |
| Header shiptonm      | poeh.shiptonm                          |
| Header shiptost      | poeh.shiptost                          |
| Header shiptozip     | poeh.shiptozip                         |
| Header shipviaty     | poeh.shipviaty                         |
| Header shipviatydesc | sasta.descript based on poeh.shipviaty |
| Header stagecd       | poeh.stagecd                           |
| Header stagecdword   | g-postg.i based on poeh.stagecd        |
| Header subfl         | poeh.subfl                             |
| Header termstype     | poeh.termstype                         |
| Header termstypedesc | sasta.descrip based on poeh.termstype  |
| Header transtype     | poeh.transtype                         |
| Header vendno        | poeh.vendno                            |
| Header whse          | poeh.whse                              |

|       |              |                     |
|-------|--------------|---------------------|
| Total | addonamt1-4  | poeh.addonamt[1-4]  |
| Total | addonnet1-4  | poeh.addonnet[1-4]  |
| Total | addonno1-4   | poeh.addonno[1-4]   |
| Total | addontype1-4 | poeh.addontype[1-4] |
| Total | wodiscamt    | poeh.wodiscamt      |
| Total | wodiscnet    | poeh.wodiscnet      |
| Total | wodisctype   | poeh.wodisctype     |
| Total | totcubes     | poeh.totcubes       |
| Total | totexpinv    | poeh.totexpinv      |
| Total | totexprcv    | poeh.totexprcv      |
| Total | totinvamt    | poeh.totinvamt      |
| Total | totlineamt   | poeh.totlineamt     |
| Total | totqtycost   | poeh.totqtycost     |
| Total | totqtyord    | poeh.totqtyod       |
| Total | totqtyrcv    | poeh.totqtyrcv      |
| Total | totqtyrcvb   | poeh.totqtyrcvb     |
| Total | totrcvamt    | poeh.totrcvamt      |
| Total | totweight    | poeh.totweight      |

The t-polineitem collection is defined as follows:

| Field Name | Type      |
|------------|-----------|
| Botype     | character |
| Commentfl  | logical   |
| Contno     | character |
| Cubes      | decimal   |
| Duedt      | date      |
| Enterdt    | date      |
| Expshipdt  | date      |
| Leadoverty | character |
| Lineno     | integer   |

# ION API Technical Documentation

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|              |                                     |
|--------------|-------------------------------------|
| Netamt       | decimal                             |
| Netrcv       | decimal                             |
| Nonstockty   | character                           |
| Price        | decimal                             |
| Printfl      | logical                             |
| Prodcat      | character                           |
| Prodcatdesc  | character                           |
| Proddesc     | character                           |
| Proddesc2    | character                           |
| Prodline     | character                           |
| Qtyord       | decimal                             |
| Qtyrcv       | decimal                             |
| Qtyunavail   | decimal                             |
| Rcvcost      | decimal                             |
| Reasunavty   | character                           |
| Reqprod      | character                           |
| Reqshipdt    | date                                |
| Shipprod     | character                           |
| Statusype    | character                           |
| Stkqtyord    | decimal                             |
| Tallyfl      | logical                             |
| Trackno      | integer                             |
| Unit         | character                           |
| Unitconv     | decimal                             |
| Vafakeprodfi | logical                             |
| Weight       | decimal                             |
| RcvUnavailFI | logical                             |
| Sortfld      | character (sort key for collection) |

# ION API Technical Documentation

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**API Call:** *sxapiPOHeaderUpdate*

**Purpose:** Updates select fields for an open PO order

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                        |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set) |
| pono             | Input/required | Order #  |
| posuf            | Input          | Order suffix   |
| pohdrupdate      | Input          | Array containing values to change                              |
| Infieldvalue     | Input          | Array containing custom data                                   |
| Outfieldvalue    | Output         | Array containing custom data                                   |
| Errormessage     | Output         | Field containing error messages                                |

**Notes:**

The pohdrupdate array is defined as follows:

| Field Name | Type |
|------------|------|
| Seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

When a fieldname is shipviaty, or user1 thru user24, then the fieldvalue should contain the data to update in the corresponding data field for the order specified

The Infieldvalue array is defined as follows: This array is currently not used.

| Field Name | Type |
|------------|------|
| level      | char |
| lineno     | int  |
| seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

The outfieldvalue array is defined as follows: This array is currently not used.

| Field Name | Type |
|------------|------|
| level      | char |
| lineno     | int  |
| seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

# ION API Technical Documentation

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**API Call:** *sxapiPOOrderDeleteOrCancel*

**Purpose:** Delete or cancel a PO order

**Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| purchaseOrderNumber     | Input/Required | The required Purchase Order # of the PO order to be deleted or cancelled.                                |
| purchaseOrderSuffix     | Input/Required | The required Purchase Order Suffix.  |
| deletePurchaseOrderFlag | Input/Required | The delete flag. If this parameter = true, then the PO will be deleted – otherwise it will be cancelled. |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.                                   |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiPOPurchaseOrderMnt*

**Purpose:** Create / Maintain a vendor purchase order

### **Parameters:**

| REST Params                       | Direction      | Description  |
|-----------------------------------|----------------|--|
| companyNumber                     | Input/required | Company #  |
| operatorInit                      | Input/required | SASO operator for the company specified                                |
| operatorPassword                  | Input/optional | SASO operator password (only required if business rule is set)         |
| retrieveChangePurchaseOrderNumber | Input          | Retrieval PO#  |
| retrieveChangePurchaseOrderSuffix | Input          | Retrieval PO Suff  |
| t-inpomntheadr                    | Input          | The input "t-inpomntheadr" collection                                  |
| t-inpomntline                     | Input          | The input "t-inpomntline" collection                                   |
| errorMessage                      | Output         | Error message – Any error messages will be returned in this parameter. |
| createdPurchaseOrderNumber        | Output         | The created PO#  |
| createdPurchaseOrderSuffix        | Output         | The created PO Suffix  |
| t-outpomntheadr                   | Output         | The output "t-outpomntheadr" collection                                |
| t-outpomntline                    | Output         | The output "t-outpomntline" collection                                 |
| t-messages                        | Output         | The output "t-messages" collection                                     |

### **Notes:**

The design of this SXAPI call would allow a new vendor purchase order to be created and at some point this call would allow an existing purchase order to be changed. At this time, the change mode is not operational. Therefore the input retrieval PO# and suffix should be passed as zero.

When a new purchase order is to be created, the outside world must pass a single record in the "t-inpomntheadr" collection (header level data) and one or more records in the "t-inpomntline" collection (line item data). When the purchase order is created, the new PO# and suffix will be returned in the created PO# / Suffix output parameters. The data from the created PO is also returned in the output "t-outpomntheadr" and "t-outpomntline" collections.

Any exceptions or warnings will be returned in the output "t-messages" collection.

The following severe errors will cause the new purchase order to not be created:

1. Invalid warehouse from t-inpomntheadr – not in ICSD.
2. Invalid bill to whse from t-inpomntheadr – not in icsd.
3. Invalid vendor # from t-inpomntheadr – not in APSV.
4. Inactive vendor in APSV.
5. Invalid ship from # from t-inpomntheadr – not in APSS
6. Invalid terms from t-inpomntheadr – no in SASTA
7. Invalid transaction type from t-inpomntheadr – not PO,QU,RM,BL,AC
8. Any severe error that is returned from the PO-Header-Create Appserver call

Input "t-inpomntheadr" collection:

| Field Name  | Data Type | Purpose   |
|-------------|-----------|---|
| Addonamt1   | Decimal   | Addon Amount #1 in PO header (poeh.addonamt[1]) |
| Addonamt2   | Decimal   | Addon Amount #2 in PO header (poeh.addonamt[2]) |
| Addonamt3   | Decimal   | Addon Amount #3 in PO header (poeh.addonamt[3]) |
| Addonamt4   | Decimal   | Addon Amount #4 in PO header (poeh.addonamt[4]) |
| Addoncapfl1 | Logical   | Currently not used                              |
| Addoncapfl2 | Logical   | Currently not used                              |
| Addoncapfl3 | Logical   | Currently not used                              |
| Addoncapfl4 | Logical   | Currently not used                              |
| Addonno1    | Integer   | Addon #1 in PO header (poeh.addonno[1])         |
| Addonno2    | Integer   | Addon #2 in PO header (poeh.addonno[2])         |
| Addonno3    | Integer   | Addon #3 in PO header (poeh.addonno[3])         |
| Addonno4    | Integer   | Addon #4 in PO header (poeh.addonno[4])         |

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|             |           |  |
|-------------|-----------|--|
| Addontype1  | Logical   | Addon Type (\$ / %) #1 in PO header (poeh.addontype[1])  |
| Addontype2  | Logical   | Addon Type (\$ / %) #2 in PO header (poeh.addontype[2])  |
| Addontype3  | Logical   | Addon Type (\$ / %) #3 in PO header (poeh.addontype[3])  |
| Addontype4  | Logical   | Addon Type (\$ / %) #4 in PO header (poeh.addontype[4])  |
| Apinvno     | Character | AP Invoice # in PO header (poeh.apinvno)   |
| Billtowhse  | Character | Bill To Warehouse in PO header (poeh.billtowhse)   |
| Boty        | Character | Backorder Flag in PO header (poeh.bofl). Pass "yes" or "no".                                     |
| Buyer       | Character | Buyer in PO header (poeh.buyer)  |
| Confirmty   | Character | Confirmation Flag in PO header (poeh.confirmfl). Pass "yes" or "no".                             |
| Contactid   | Decimal   | CAM Contact ID in PO header (poeh.contactid)   |
| Countrycd   | Character | Currently not used   |
| Createdby   | Character | Created By in PO header (poeh.createdby)   |
| Crreasonty  | Character | Credit Reason Type in PO header (poeh.crreasonty)  |
| Currencyty  | Character | Currently not used   |
| Divno       | Integer   | Currently not used   |
| Duedt       | Date      | Due Date in PO header (poeh.duedt)   |
| Expshipdt   | Date      | Expected Ship Date in PO header (poeh.expshipdt)   |
| Fobty       | Character | Freight On Board Flag in PO header (poeh.fobfl). Pass "yes" or "no".                             |
| Ignoreltty  | Character | Ignore Lead Time Flag in PO header (poeh.ignoreltfl). Pass "yes" or "no".                        |
| Manaddr1    | Character | Manual Address – Address line 1 in PO header (poeh.manaddr[1]) – only if vendor # = 999999999999 |
| Manaddr2    | Character | Manual Address – Address line w in PO header (poeh.manaddr[w]) – only if vendor # = 999999999999 |
| Mancity     | Character | Manual Address – City in PO header (poeh.mancity) – only if vendor # = 999999999999              |
| Manname     | Character | Manual Address – Name in PO header (poeh.manname) – only if vendor # = 999999999999              |
| Manstate    | Character | Manual Address – State in PO header (poeh.manstate) – only if vendor # = 999999999999            |
| Manzipcd    | Character | Manual Address – Zip Code in PO header (poeh.manzipcd) – only if vendor # = 999999999999         |
| Notesdata   | Character | Currently not used   |
| Orderaltno  | Integer   | Currently not used   |
| Orderaltsuf | Integer   | Currently not used   |
| Orderdisp   | Character | Order Disposition in PO header (poeh.orderdisp)  |
| Orderdt     | Date      | Order Date in PO header (poeh.billtowhse). If left blank, will default to system date.           |
| Prodline    | Character | Product Line in PO header (poeh.prodline)  |
| Refer       | Character | Reference in PO header (poeh.refer)  |
| Reqshipdt   | Date      | Requested Ship Date in PO header (poeh.reqshipdt)  |
| Resalesty   | Character | Resales Flag in PO header (poeh.ignoreltfl). Pass "yes" or "no".                                 |
| Resaleno    | Character | Resale # in PO header (poeh.resaleno)  |
| Rushty      | Character | Rush Flag in PO header (poeh.ignoreltfl). Pass "yes" or "no".                                    |
| Shipfmno    | Character | Ship From # in PO header (poeh.shipfmno)   |
| Shipinstr   | Character | Shipping Instruction in PO header (poeh.shipinstr)   |
| Shiptoaddr1 | Character | Ship To Address – Address Line 1 in PO header (poeh.shiptoaddr[1])                               |
| Shiptoaddr2 | Character | Ship To Address – Address Line 2 in PO header (poeh.shiptoaddr[2])                               |
| Shiptocity  | Character | Ship To Address – City in PO header (poeh.shiptocity)  |
| Shiptonm    | Character | Ship To Address – Name in PO header (poeh.shiptonm)  |
| Shiptost    | Character | Ship To Address – State in PO header (poeh.shiptost)   |
| Shiptozip   | Character | Ship To Address – Zip Code in PO header (poeh.shiptozip)   |
| Shipviaty   | Character | Ship Via in PO header (poeh.shipviaty)   |
| Subty       | Character | Substitution Flag in PO header (poeh.ignoreltfl). Pass "yes" or "no".                            |
| Termstype   | Character | Terms Type in PO header (poeh.termstype). If left blank, it will default to "PO"                 |

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|            |           |   |
|------------|-----------|---|
| Transtype  | Character | Transaction Type in PO header (poeh.transtype)                    |
| Vendno     | Decimal   | Vendor # in PO header (poeh.vendno)                               |
| Whse       | Character | Warehouse in PO header (poeh.whse)                                |
| Wodiscamt  | Decimal   | Whole Order Discount Amount in PO header (poeh.wodiscamt)         |
| Wodisctype | Logical   | Whole Order Discount Type (\$ / %) in PO header (poeh.wodisctype) |
| User1      | Character | Updates user1   |
| User2      | Character | Updates user2   |
| User3      | Character | Updates user3   |
| User4      | Character | Updates user4   |
| User5      | Character | Updates user5   |
| User6      | Decimal   | Updates user6   |
| User7      | Decimal   | Updates user7   |
| User8      | Date      | Updates user8   |
| User9      | Date      | Updates user9   |

Input "t-inpomntline" collection:

| Field Name     | Data Type | Purpose   |
|----------------|-----------|---|
| Lineno         | Integer   | This contains a line# used for sequencing (processing) the input line item collection. It will not be used for the actual line# in the PO Line Item (POEL record). A sequential # is used for that purpose.                     |
| Newrecordfl    | Logical   | Must be set to true when adding a new line  |
| Deleterecordfl | Logical   | Used for delete mode – currently not used   |
| Changerecordfl | Logical   | Used for change mode  |
| Origshipprod   | Character | currently not used  |
| Commentdata    | Character | Current not used  |
| Cubes          | Decimal   | Cubes in PO Line Item (poel.cubes)  |
| Duedt          | Date      | Due Date in PO Line Item (poel.duedt)   |
| Expshipdt      | Date      | Expected Ship Date in PO Line Item (poel.expshipdt)   |
| Ignorelty      | Character | Ignore Lead Time Flag in PO Line Item (poel.ignorelty). Pass "yes" or "no".   |
| Nonstockty     | Character | Non Stock Type in PO Line Item (poel.nonstockty). At this time, Non Stock line items are not allowed since a PO line item cannot be a Non Stock product, unless it's tied to something. No tie logic is available at this time. |
| Price          | Decimal   | Price in PO Line Item (poel.price)  |
| Printty        | Character | Current not used  |
| Prodcatt       | Character | Product Category in PO Line Item (poel.prodcatt)  |
| Proddesc       | Character | Product Description 1 in PO Line Item (poel.proddesc)   |
| Proddesc2      | Character | Product Description 2 in PO Line Item (poel.proddesc2)  |
| Qtyord         | Decimal   | Quantity Ordered in PO Line Item (poel.qtyord)  |
| Qtyunavail     | Decimal   | Current not used  |
| Reasunavty     | Character | Reason Unavailable Type in PO Line Item (poel.reasunavty)   |
| Reqprod        | Character | Current not used  |
| Reqshipdt      | Date      | Requested Ship Date in PO Line Item (poel.reqshipdt)  |
| Shipprod       | Character | Product in PO Line Item (poel.shipprod)   |
| Unit           | Character | Unit of measure in PO Line Item (poel.unit)   |
| Unitconv       | Decimal   | Current not used  |
| Warrantyty     | Character | Warranty Flag in PO Line Item (poel.warrantyty). Pass "yes" or "no"   |
| Weight         | Decimal   | Weight in PO Line Item (poel.weight)  |
| User1          | Character | Updates user1   |
| User2          | Character | Updates user2   |
| User3          | Character | Updates user3   |
| User4          | Character | Updates user4   |
| User5          | Character | Updates user5   |
| User6          | Decimal   | Updates user6   |

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|       |         |               |
|-------|---------|---------------|
| User7 | Decimal | Updates user7 |
| User8 | Date    | Updates user8 |
| User9 | Date    | Updates user9 |

## Exception Processing:

One of the output collections is "t-messages". This collection is used to communicate any exceptions or non-terminating (severe) errors. The following is the definition of the fields in this collection, followed by a list of potential records that may be created in this collection.

| Field Name  | Data Type   |
|-------------|---|
| Setno       | integer (will be zero for a header level exception)<br>(for a line item level exception, it will contain the line#) |
| Seqno       | integer   |
| Fieldname   | character   |
| MessageText | character (contains the text of the exception / error)  |

## Exceptions:

| Level     | FieldName  | Purpose  |
|-----------|------------|--|
| Header    | Addonno1   | If the Addon #1 was invalid (not in SASTN).  |
| Header    | Addonno2   | If the Addon #2 was invalid (not in SASTN).  |
| Header    | Addonno3   | If the Addon #3 was invalid (not in SASTN).  |
| Header    | Addonno4   | If the Addon #4 was invalid (not in SASTN).  |
| Header    | Billtowhse | If the Bill To Whse was invalid (not in ICSD).   |
| Header    | Contacted  | If the CAM Contact ID was invalid (not in CONTACTS)  |
| Header    | Crreasonty | If the Credit Reason Type was invalid (not in SASTA).  |
| Header    | Orderdisp  | If the Order Disposition was not blank, "S", "T", or "W".  |
| Header    | Shipviaty  | If the Ship Via Type was invalid (not in SASTA).   |
| Header    | Termstype  | If the Terms Type was invalid (not in SASTA).  |
| Line item | Lineno     | An error occurred from the PO-Line-Validate Appserver call (PO Line Item was not created for some reason). |
| Line item | Prodcat    | If the passed product category was invalid (not in SASTA).   |
| Line item | Reasunavty | If the passed reason unavailable type was invalid (not in SASTA)   |
| Line item | Unit       | If the unit of measure was invalid.  |



# ION API Technical Documentation

## **API Call:** *sxapiPOPurchaseOrderMntV2*

### **Purpose:**

Create / Maintain a vendor purchase order version 2

### **Parameters:**

| REST Params                       | Direction      | Description  |
|-----------------------------------|----------------|--|
| companyNumber                     | Input/required | Company #  |
| operatorInit                      | Input/required | SASO operator for the company specified                                |
| operatorPassword                  | Input/optional | SASO operator password (only required if business rule is set)         |
| retrieveChangePurchaseOrderNumber | Input          | Retrieval PO#  |
| retrieveChangePurchaseOrderSuffix | Input          | Retrieval PO Suff  |
| t-inpomntheaderv2                 | Input          | The input "t-inpomntheaderv2" collection                               |
| t-inpomntline                     | Input          | The input "t-inpomntline" collection                                   |
| t-infieldvalue'                   | Input          | The input "t-infieldvalue" collection                                  |
| errorMessage                      | Output         | Error message – Any error messages will be returned in this parameter. |
| createdPurchaseOrderNumber        | Output         | The created PO#  |
| createdPurchaseOrderSuffix        | Output         | The created PO Suffix  |
| t-outpomntheaderv2                | Output         | The output "t-outpomntheaderv2" collection                             |
| t-outpomntline                    | Output         | The output "t-outpomntline" collection                                 |
| t-messages                        | Output         | The output "t-messages" collection                                     |
| t-outfieldvalue                   | Output         | The output "t-outfieldvalue" collection                                |

### **Notes:**

The collections used for this SXAPI call are the same as the sxapiPOPurchaseOrderMnt call except the "header" collection (one for input and one for output). For this version # 2 header collection, it is identical except the "stagecd" and "approvty" fields have been added to the end.

### **Changing a purchase order:**

Unlike OEFullOrderMnt, this API can be used to change a PO header. To do so, enter the "retrieveChangePurchaseOrderNumber" and the "retrieveChangePurchaseOrderSuffix" and set one or more of the following values in t- inpomntheaderv2:

Addonno, addonamt, addontype (1 thru 4), apinvno, billtowhse, boty, confirmty, contacted, createdby, crreasonty, duedt, expshipdt,fobty, ignorelty, manaddr1, manaddr2, mancity, manname, manstate, manzipcd (note all "man" address fields that require a vendor # = 999999999999 to update), orderdisp, orderdt, refer, reqshipdt, resalety, resaleno, rushty,shipinstr,shiptoaddr1, shiptoaddr2, shiptocity, shiptonm, shiptost, shiptozip, shipviaty, subty, termstype, wodiscamt, wodiscatype, approvty

To add a line items, set the newrecordfl to true and provide the line item detail for the new line. To change a line item, specify the lineno, set the changerecordfl to true and specify the new field value. The available values are :

qtyord, price, user1 – user9, and user10-24 with t-infieldvalue array

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API Call: `sxapiSAGetBusinessRule`

**Purpose:** Retrieve the value of a Business rule (sxxmlrule record)

**Parameters:**

| REST Params     | Direction | Description  |
|-----------------|-----------|--|
| tradingPartner  | Input     | Trading Partner (typically this is blank)                              |
| documentHandler | Input     | Document Handler (typically this is "sxapi")                           |
| direction       | Input     | Direction (typically this is blank)                                    |
| nodeName        | Input     | Node Name  |
| attributeName   | Input     | Attribute Name   |
| ruleType        | Input     | Rule Type  |
| errorMessage    | Output    | Error message – Any error messages will be returned in this parameter. |
| ruleValue       | Output    | The actual Rule Value for this business rule record.                   |

**Notes:**

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**API Call:** *sxapiSAGetBuyerList*

**Purpose:** This call returns a list of Buyers (defined in the SASTA table with codeiden = "b").

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                                    |
| sort             | Input          | Sort Field: Pass "a" and it sorts on the buyer value, otherwise it sorts on the description name. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                            |
| t-codelst        | Output         | The t-codelst collection.   |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| Codevalue  | character (buyer)                   |
| Codedesc   | character (description)             |
| Extradata  | character                           |
| Sortfld    | character (sort key for collection) |

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**API Call:** *sxapiSAGetConnectionString*

**Purpose:** This call will return a connection string (ex: cono=1000|oper=sys) based on an input User ID.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| userName         | Input/Required | The required input User ID   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| connectionString | Output         | The connection string  |

**Notes:**

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## **API Call:** *sxapiSAGetEnv*

**Purpose:** This call is used to get environment settings and session parameters for the Appserver.

### **Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)  |
| numberOfDatabases     | Output         | Number of databases – Number of databases connected to the appserver  |
| databasePhysicalNames | Output         | Physical name of database – Comma separated list of physical db names connected to the appserver  |
| databaseLogicalNames  | Output         | Logical name of database – Comma separated list of logical db names connected to the appserver  |
| schemaHolderFileName  | Output         | Schema holder name – Comma separated list of schema holder names connected to the appserver   |
| databaseType          | Output         | Database Type – Comma separated list of db type connected to the appserver  |
| databaseVersion       | Output         | Database Version – Comma separated list of db version connect to the appserver  |
| operatingSystem       | Output         | OS Type – Name of the OS on which the appserver is running  |
| progressVersion       | Output         | Version – Progress Version  |
| propath               | Output         | Propath – Comma separated list of path that appserver uses to search for procedures   |
| centurySetting        | Output         | Century Setting – Indicates the current start date for the Progress two-digit year-range of 100 years. Typical values are 1920 or 1950.   |
| baseADE               | Output         | Base ADE – Get the location of the ADE r-code directory   |
| batchMode             | Output         | Batch Mode – Specifies whether the current session is running in batch mode   |
| clientType            | Output         | Client Type – Returns the type of Progress client currently executing   |
| codePageCase          | Output         | Case Table – Indicates the case table Progress uses to establish case rules for the memory code page  |
| codePageInternal      | Output         | Internal code page – Indicates the internal code page Progress uses in memory   |
| codePageLog           | Output         | Code page for (.lg) file – Indicates the code page for all messages written to the log ( .lg) file  |
| codePagePrint         | Output         | Code page for printer – Indicates the code page Progress uses for the OUTPUT TO PRINTER statement   |
| codePageRCodeIn       | Output         | Indicates the code page Progress uses to convert text strings into the text segment   |
| codePageRCodeOut      | Output         | Indicates the code page Progress uses at compile time to convert text strings into the text segment and marks the text segment with the code page name  |
| codePageStream        | Output         | Indicates the code page Progress uses for I/O with character terminals  |
| dateFormat            | Output         | Date Format – Indicates the format used to represent dates. Typical values are mdy or dmy   |
| numericDecimalPoint   | Output         | Numeric Decimal Point – Indicates the character that represents, in formatted text, a number's decimal point  |
| numericFormat         | Output         | Numeric Format – Indicates the meanings of commas and periods within numeric values. The possible values are "American", "European", or a character string containing the thousands separator followed by the decimal point |
| numericSeparator      | Output         | Numeric Separator – Indicates the character that represents, in formatted text, a number's thousands separator  |

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|                     |        |  |
|---------------------|--------|--|
| errorMessage        | Output | Parameter – Specifies the value passed to –param for the appserver session |
| sxEnterpriseVersion | Output | Sx Version   |

**Notes:**

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**API Call:** *sxapiSAGetGenericDataList*

**Purpose:** This call is used to retrieve a list of “generic” data values. This can be used to populate a drop down list of possible values (ex: a list of valid warehouses, a list of valid OE stages, ..)

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| listType         | Input/Required | The list type to be retrieved (see note below)   |
| sort             | Input          | Sort type – The value of “a” will return the list is the abbreviated code value (ex: the 4 character whse value). The value of “b” will return it in description / name sequence |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-codeLst        | Output         | The “t-codelst” collection. This collections contains the records for the list of data values to be retrieved.   |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| Codevalue  | character                           |
| Codedesc   | character                           |
| Extradata  | character                           |
| Sortfld    | character (sort key for collection) |

The first parameter specifies the collection of data to be returned. Since the processing of the data for this SXAPI call is identical to the latest version of this series, please refer to the latest version of “sxapiSAGetGenericDataList\*” below.

# ION API Technical Documentation

## **API Call:** *sxapiSAGetGenericDataListV2*

**Purpose:** This call is used to retrieve a list of “generic” data values. This can be used to populate a drop down list of possible values (ex: a list of valid warehouses, a list of valid OE stages, ..) Version 2.

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified  |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)   |
| listType             | Input/Required | The list type to be retrieved (see note below)   |
| sort                 | Input          | Sort type – The value of “a” will return the list is the abbreviated code value (ex: the 4 character whse value). The value of “b” will return it in description / name sequence         |
| recordLimit          | Input          | Record Limit – The maximum number of records to be returned by this call. A value of zero indicates all records should be returned.  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More Records Flag – This will be ‘yes’ if the record limit was reached but more records could have been returned. It will be ‘no’ if there are no more records beyond what was returned. |
| t-codeLstV2          | Output         | The “t-codelstv2” collection. This collection contains the records for the list of data values to be retrieved.  |

### **Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| Codevalue  | character                           |
| Codedesc   | character                           |
| Extradata  | character                           |
| Sortfld    | character (sort key for collection) |
| Cono       | integer                             |

The first parameter specifies the collection of data to be returned. Since the processing of the data for this SXAPI call is identical to the latest version of this series, please refer to the latest version of “sxapiSAGetGenericDataList\*” below.



# ION API Technical Documentation

**API Call:** sxapiSAGetGenericDataListV3

**Purpose:**

This call is used to retrieve a list of “generic” data values. This can be used to populate a drop down list of possible values (ex: a list of valid warehouses, a list of valid OE stages, ..) Version 3.

**Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| listType             | Input/Required | The list type to be retrieved (see note below)  |
| sort                 | Input          | Sort type – The value of “a” will return the list is the abbreviated code value (ex: the 4 character whse value). The value of “b” will return it in description / name sequence  |
| recordLimit          | Input          | Record Limit – The maximum number of records to be returned by this call. A value of zero indicates all records should be returned.   |
| companyList          | Input          | An optional Company List. If this parameter is blank, then the company # to use is based on the “global company #” established for each SXAPI call. If this parameter = “all”, then all companies will be selected. Otherwise, it should contain a comma-separated list (could still contain a single company #) that will be used in a “can-do” statement to produce a list of company #'s to process by reading the SASC table. |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output         | More Records Flag – This will be ‘yes’ if the record limit was reached but more records could have been returned. It will be ‘no’ if there are no more records beyond what was returned.  |
| t-codeLstV2          | Output         | The “t-codelstv2” collection. This collection contains the records for the list of data values to be retrieved.   |

**Notes:**

The first parameter (list type) should be one of the following values:

| Value                      | Purpose   |
|----------------------------|---|
| whse                       | Returns a list of ICSD warehouses and their Name  |
| oe stage                   | Returns a list of the valid OE stage values   |
| oe transtype               | Returns a list of the valid OE Transaction Types  |
| oeaddon                    | Returns a list of OE addons (SASTN records with codeiden = “a”)   |
| shipvia                    | Returns a list of Ship Vias (SASTA records with codeiden = “s”)   |
| prodcats                   | Returns a list of Product Categories (SASTA records with codeiden = “c”)  |
| prodcats-sf                | Returns a list of Product Categories (SASTA records with codeiden = “c”) to eStorefront from all companies set up to participate in eCommerce |
| terms                      | Returns a list of Terms (SASTA records with codeiden = “t”)   |
| lostbus                    | Returns a list of Lost Business Reasons (SASTA records ,codeiden = “e”)   |
| buyer                      | Returns a list of Buyers (SASTA records with codeiden = “b”)  |
| unit                       | Returns a list of Units (SASTA records with codeiden = “u”)   |
| custpricetype              | Returns a list of Customer Price Types (SASTA records ,codeiden = “j”)  |
| prodpricetype              | Returns a list of Producty Price Types (SASTA records, codeiden = “k”)  |
| prodpricetype-sf           | Returns a list of Producty Price Types (SASTA records, codeiden = “k”) to eStorefron from all companies set up to participate in eCommerce    |
| bank                       | Returns a list of Banks (CRSB records)  |
| division                   | Returns a list of Divisions (SASTN records with codeiden = “v”)   |
| slsrep                     | Returns a list of Sales Reps (SMSN records)   |
| oebatchname                | Returns a list of OE Batch Names (SABS records with module = “oe”)  |
| printer                    | Returns a list of Printers (SASP records with ptype = “p”)  |
| printeranddevice           | Returns a list of Printers and Devices (SASP records, ptype = “p” and “d”)  |
| printeranddeviceandreceipt | Returns a list of Printers, Devices, and Receipt Printers (SASP records with Ptype = “p”, “d”, or “r”)  |
| fax                        | Returns a list of Fax Printers (SASP records with ptype = “f”)  |

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|                      |  |
|----------------------|--|
| cam activity         | Returns a list of CAM Activity Codes (SASTA records, codeiden = "ac")  |
| ecatuserheader       | Reserved for Commerce Catalog interface  |
| ecatuserdetail       | Reserved for Commerce Catalog interface  |
| company              | Returns a list of SASC Companies and their names   |
| mddenabledcompanies  | Returns a list SASC Companies where MDD is enabled for ARSC, ARSS, CMSP, CONTACTS, ICSP, ICSC or OEEH  |
| returnreason         | Returns a list of Return Reasons (SASTA records with codeiden = "m")   |
| alphacode=<codeid>   | Returns a list of SASTA records with the sasta.codeiden = <codeid>   |
| numericcode=<codeid> | Returns a list of SASTN records with the sastn.codeiden = <codeid>   |
| currency             | Returns a list of Currency Type records (SASTC)  |
| modulespurchased     | Returns a list of modules purchased from SASA  |
| thirdpartylicense    | Returns a list of third party licenses purchased from SASTPL   |
| nontaxreason         | Returns a list of Non Taxable Reasons (SASTA records with codeiden = "n")  |
| ecatitemclass        | Returns APSV vendor numbers that are not excluded from eCommerce to Commerce Catalog   |
| ecatitemsubclass     | Returns ICSL product lines for vendors that are not excluded from eCommerce to Commerce Catalog  |
| ecatmischeader       | Returns a numeric value and associated description to Commerce Catalog. 1 – Rebate Type, 2 – Rebate Sub Type                                       |
| ecatmiscdetail       | Returns data corresponding to a miscellaneous header value to Commerce Catalog. 1 – PDST 'pt' rebate type data, 2 – PDST 'st' rebate sub type data |
| creditstatus         | The 6 values possible for the ARSC Sales Order Status (selltype) field   |

Collection fields:

| <b>Field Name</b> | <b>Type</b>                         |
|-------------------|-------------------------------------|
| Codevalue         | character                           |
| Codedesc          | character                           |
| Extradata         | character                           |
| Sortfld           | character (sort key for collection) |
| Cono              | integer                             |

# ION API Technical Documentation

**API Call:** sxapiSAGetGenericDataListV4

**Purpose:**

This call is used to retrieve a list of “generic” data values. This can be used to populate a drop down list of possible values (ex: a list of valid warehouses, a list of valid OE stages, ..) Version 4.

**Parameters:**

| REST Params          | Direction          | Description   |
|----------------------|--------------------|---|
| listType             | Input/Required     | The list type to be retrieved (see note below)  |
| sort                 | Input/Optional     | Sort type – The value of “a” will return the list is the abbreviated code value (ex: the 4 character whse value). The value of “b” will return it in description / name sequence  |
| recordLimit          | Input/Optional     | Record Limit – The maximum number of records to be returned by this call. A value of zero indicates all records should be returned.   |
| companyList          | Input/Optional     | An optional Company List. If this parameter is blank, then the company # to use is based on the “global company #” established for each SXAPI call. If this parameter = “all”, then all companies will be selected. Otherwise, it should contain a comma-separated list (could still contain a single company #) that will be used in a “can-do” statement to produce a list of company #'s to process by reading the SASC table. |
| beginSearch          | Input/Optional     | An optional Begin Search value for Unit Listing. If this parameter is blank for a Unit list, then all units will be returned. If a value is entered, it will be used to match the name of units to return only those beginning with the same set of characters. If this parameter has a value for any other type of search, it will be ignored.   |
| t-infieldvalue       | Input/Optional     | t-infieldvalue table  |
| errorMessage         | Output             | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsAvailable | Output             | More Records Flag – This will be ‘yes’ if the record limit was reached but more records could have been returned. It will be ‘no’ if there are no more records beyond what was returned.  |
| t-codeLstV2          | Output             | The “t-codelstv2” collection. This collection contains the records for the list of data values to be retrieved.   |
| t-outfieldvalue      | Output<br>Optional | t-outfieldvalue table   |

**Notes:**

The first parameter (list type) should be one of the following values:

| Value            | Purpose   |
|------------------|---|
| whse             | Returns a list of ICSD warehouses and their Name  |
| oe stage         | Returns a list of the valid OE stage values   |
| oe transtype     | Returns a list of the valid OE Transaction Types  |
| oeaddon          | Returns a list of OE addons (SASTN records with codeiden = “a”)   |
| shipvia          | Returns a list of Ship Vias (SASTA records with codeiden = “s”)   |
| prodcats         | Returns a list of Product Categories (SASTA records with codeiden = “c”)  |
| prodcatsf        | Returns a list of Product Categories (SASTA records with codeiden = “c”) to eStorefront from all companies set up to participate in eCommerce |
| terms            | Returns a list of Terms (SASTA records with codeiden = “t”)   |
| lostbus          | Returns a list of Lost Business Reasons (SASTA records ,codeiden = “e”)   |
| buyer            | Returns a list of Buyers (SASTA records with codeiden = “b”)  |
| unit             | Returns a list of Units (SASTA records with codeiden = “u”)   |
| custpricetype    | Returns a list of Customer Price Types (SASTA records ,codeiden = “j”)  |
| prodpricetype    | Returns a list of Producty Price Types (SASTA records, codeiden = “k”)  |
| prodpricetype-sf | Returns a list of Producty Price Types (SASTA records, codeiden = “k”) to eStorefron from all companies set up to participate in eCommerce    |
| bank             | Returns a list of Banks (CRSB records)  |

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|                            |  |
|----------------------------|--|
| division                   | Returns a list of Divisions (SASTN records with codeiden = "v")  |
| slsrep                     | Returns a list of Sales Reps (SMSN records)  |
| oebatchname                | Returns a list of OE Batch Names (SABS records with module = "oe")   |
| printer                    | Returns a list of Printers (SASP records with ptype = "p")   |
| printeranddevice           | Returns a list of Printers and Devices (SASP records, ptype = "p" and "d")   |
| printeranddeviceandreceipt | Returns a list of Printers, Devices, and Receipt Printers (SASP records with Ptype = "p", "d", or "r")   |
| fax                        | Returns a list of Fax Printers (SASP records with ptype = "f")   |
| cam activity               | Returns a list of CAM Activity Codes (SASTA records, codeiden = "ac")  |
| ecatuserheader             | Reserved for Commerce Catalog interface  |
| ecatuserdetail             | Reserved for Commerce Catalog interface  |
| company                    | Returns a list of SASC Companies and their names   |
| mddenabledcompanies        | Returns a list SASC Companies where MDD is enabled for ARSC, ARSS, CMSP, CONTACTS, ICSP, ICSC or OEEH  |
| returnreason               | Returns a list of Return Reasons (SASTA records with codeiden = "m")   |
| alphacode=<codeid>         | Returns a list of SASTA records with the sasta.codeiden = <codeid>   |
| numericcode=<codeid>       | Returns a list of SASTN records with the sastn.codeiden = <codeid>   |
| currency                   | Returns a list of Currency Type records (SASTC)  |
| modulespurchased           | Returns a list of modules purchased from SASA  |
| thirdpartylicense          | Returns a list of third party licenses purchased from SASTPL   |
| nontaxreason               | Returns a list of Non Taxable Reasons (SASTA records with codeiden = "n")  |
| ecatitemclass              | Returns APSV vendor numbers that are not excluded from eCommerce to Commerce Catalog   |
| ecaitemsubclass            | Returns ICSL product lines for vendors that are not excluded from eCommerce to Commerce Catalog  |
| ecatmischeader             | Returns a numeric value and associated description to Commerce Catalog. 1 – Rebate Type, 2 – Rebate Sub Type                                       |
| ecatmiscdetail             | Returns data corresponding to a miscellaneous header value to Commerce Catalog. 1 – PDST 'pt' rebate type data, 2 – PDST 'st' rebate sub type data |
| creditstatus               | The 6 values possible for the ARSC Sales Order Status (selltype) field   |

## Collection fields:

| <b>Field Name</b> | <b>Type</b>                         |
|-------------------|-------------------------------------|
| Codevalue         | character                           |
| Codedesc          | character                           |
| Extradata         | character                           |
| Sortfld           | character (sort key for collection) |
| Cono              | integer                             |

# ION API Technical Documentation

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**API Call:** sxapiSAGetInternalProcs

**Purpose:** Get all the internal procedures for sxapi.

**Parameters:**

| REST Params        | Direction | Description  |
|--------------------|-----------|--|
| internalProcedures | Output    | InternalProcs – A comma separated list of internal procedure names.    |
| errorMessage       | Output    | Error message – Any error messages will be returned in this parameter. |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiSAGetLineComments*

**Purpose:** returns line notes

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                        |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set) |
| t-getcomlistcriteria | INPUT          | Array containing a collection of criteria of orders            |
| t-infieldvalue       | INPUT          | Custom input array   |
| t-getcomlistresults  | OUTPUT         | Return line item notes   |
| t-outfieldvalue      | OUTPUT         | Custom output array  |

### **Notes:**

The t-getcomlistcriteria array is defined as follows:

| Field Name | Type |  |
|------------|------|--|
| comtype    | char | ("oe" or "po")   |
| orderno    | int  | (oe order # or po #)   |
| ordersuf   | int  | (oe order suf or po suf)   |
| lineno     | int  | (line #)   |
| printtype  | char | (yes-return printable notes, no-return non-printable notes, blank-all) |
| linefeed   | log  | (yes- insert linefeed between each line)                               |
| userfield  | char | (used for custom mods)   |

The Infieldvalue array is defined as follows: This array is currently not used.

| Field Name | Type |
|------------|------|
| level      | char |
| lineno     | int  |
| seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

The t-getcomlistresults array is defined as follows:

| Field Name  | Type |                          |
|-------------|------|--------------------------|
| comtype     | char | ("oe" or "po")           |
| orderno     | int  | (oe order # or po #)     |
| ordersuf    | int  | (oe order suf or po suf) |
| lineno      | int  | (line #)                 |
| printf1     | log  | (pick ticket notes)      |
| printf12    | log  | (invoice notes)          |
| commenttext | char | (notes)                  |
| userfield   | char | (used for custom mods)   |

The outfieldvalue array is defined as follows: This array is currently not used.

| Field Name | Type |
|------------|------|
| level      | char |
| lineno     | int  |
| seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

# ION API Technical Documentation

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**API Call:** *sxapiSAGetLostBusinessList***Purpose:**

This call returns a list of Lost Business Reasons (defined in the SASTA table with codeiden = "e").

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                                       |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the lost business value, otherwise it sorts on the description. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                               |
| t-codelst        | Output         | The t-codelst collection.  |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| Codevalue  | character (lost business)           |
| Codedesc   | character (description)             |
| Extradata  | character                           |
| Sortfld    | character (sort key for collection) |

# ION API Technical Documentation

## **API Call:** *sxapiSAGetNotesList*

**Purpose:** This call returns a list of notes records based on input criteria.

### **Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)  |
| notesType             | Input/Required | The required Notes Type   |
| primaryKey            | Input/Required | The required Primary Key  |
| secondaryKey          | Input/Optional | The optional Secondary Key  |
| requiredNotesOnlyFlag | Input/Required | Required Notes only flag.   |
| lineFeedFlag          | Input/Required | Line Feed flag – If this flag is turned on, then the notes text array will be strung together with a carriage return / line feed character between each array extent. |
| recordLimit           | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of products selected. If this field is zero, no record count limiting will occur.   |
| errorMessage          | Output         | Error message – Any error messages will be returned in this parameter.  |
| moreRecordsFlag       | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.  |
| t-notes               | Output         | The t-notes collection.   |

### **Notes:**

Collection fields:

| Field Name   | Type                           |
|--------------|--------------------------------|
| Notestype    | character                      |
| Primarykey   | character                      |
| Secondarykey | character                      |
| Pageno       | integer                        |
| Printfl      | logical                        |
| Printfl2     | logical                        |
| Printfl3     | logical                        |
| Printfl4     | logical                        |
| Printfl5     | logical                        |
| Requirefl    | logical                        |
| Securefl     | logical                        |
| Notetext     | character                      |
| Transdt      | date                           |
| Transtm      | character                      |
| Type         | character (Text, File, or URL) |
| Firstline    | character                      |



# ION API Technical Documentation

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**API Call:** sxapiSAGetProcParams

**Purpose:**

Get all the parameters for a procedure.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| procedureName    | Input/Required | ProcedureName – Required Procedure Name                                |
| parameterList    | Output         | ParameterList – A comma separated list of parameters.                  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |

**Notes:**

# ION API Technical Documentation

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**API Call:** sxapiSAGetReportList

**Purpose:**

Get all the reports for the range specified for which the users has access to.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| startReportName  | Input          | BeginReportName – Report name range begin.                             |
| endReportName    | Input          | EndReportName – Report name range end.                                 |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| t-rptlist        | Output         | A collection with a list of report for the range specified.            |

**Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|          |           |
|----------|-----------|
| currproc | character |
| rpttitle | character |

# ION API Technical Documentation

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**API Call:** sxapiSAGetReportStatus

**Purpose:**

Get the status of reports for the operator logged in.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| t-rptStatus      | Output         | A collection with the names of the reports and its status.             |

**Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

| Field Name | Data Type |
|------------|-----------|
| reportnm   | character |
| currproc   | character |
| rpttitle   | character |
| printrnm   | character |
| scheduled  | character |
| lastrun    | character |

# ION API Technical Documentation

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**API Call:** *sxapiSAGetRptRangeOptions*

**Purpose:** Get the options and ranges for a report.

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified                                 |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)          |
| reportName       | Input          | ReportName – Report Name  |
| rangeCount       | Output         | RangeCount – Range Count  |
| optionCount      | Output         | OptionCount – Option Count  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| t-rprange        | Output         | A collection with a list of range for the report (Range Collection)     |
| t-rptoptions     | Output         | A collection with a list of options for the report (Options Collection) |

**Notes:**

This API call uses two collections to control its operation.

Following are the fields for the *Range Collection*

|          |                |
|----------|----------------|
| rangeseq | integer        |
| rangenm  | character      |
| edittype | character      |
| requirfl | logical YES/NO |
| rflength | integer        |
| rangebeg | character      |
| rangeend | character      |

Following are the fields for the *Options Collection*

|            |                |
|------------|----------------|
| optionsseq | integer        |
| optionnm   | character      |
| optdef     | character      |
| edittype   | character      |
| orequirfl  | logical YES/NO |
| oflength   | integer        |

# ION API Technical Documentation

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**API Call:** *sxapiSAGetRptRangeOptionsV2*

**Purpose:** Get the options and ranges for a report.

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified                                 |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)          |
| reportName       | Input          | ReportName – Report Name  |
| rangeCount       | Output         | RangeCount – Range Count  |
| optionCount      | Output         | OptionCount – Option Count  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| t-rprange        | Output         | A collection with a list of range for the report (Range Collection)     |
| t-rptoptions     | Output         | A collection with a list of options for the report (Options Collection) |

**Notes:**

This API call uses two collections to control its operation.

Following are the fields for the *Range Collection*

|          |                |
|----------|----------------|
| rangeseq | integer        |
| rangenm  | character      |
| edittype | character      |
| requirfl | logical YES/NO |
| rflength | integer        |
| rangebeg | character      |
| rangeend | character      |

Following are the fields for the *Options Collection*

|             |                |
|-------------|----------------|
| optionsseq  | integer        |
| optionnm    | character      |
| optdef      | character      |
| edittype    | character      |
| orequirfl   | logical YES/NO |
| oflength    | integer        |
| validvalues | character      |

# ION API Technical Documentation

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**API Call:** *sxapiSAGetShipViaList*

**Purpose:** This call returns a list of Ship Vias (defined in the SASTA table with codeiden = "s").

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                                  |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the ship via value, otherwise it sorts on the description. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                          |
| t-codelst        | Output         | The t-codelst collection.   |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| Codevalue  | character (ship via)                |
| Codedesc   | character (description)             |
| Extradata  | character                           |
| Sortfld    | character (sort key for collection) |

# ION API Technical Documentation

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**API Call:** *sxapiSAGetSingleStoredReport*

**Purpose:** Retrieve the data for a single stored report (SAPB record)

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| reportAcronym    | Input/Required | Curr Proc (report menu function – required)                            |
| reportName       | Input/Required | Report Name (required)   |
| errorMessage     | output         | Error message – Any error messages will be returned in this parameter. |
| t-rprange        | Output         | The t-rprange collection   |
| t-rptoptionsV2   | Output         | The t-rptoptionsV2 collection  |

**Notes:**

Following are the fields for the *Range Collection*

|          |                             |
|----------|-----------------------------|
| rangeseq | integer                     |
| rangem   | character                   |
| edittype | character                   |
| requirfl | logical (must be YES or NO) |
| rflength | integer                     |
| rangebeg | character                   |
| rangeend | character                   |

Following are the fields for the *Options Collection*

|             |                             |
|-------------|-----------------------------|
| optionsseq  | integer                     |
| optionnm    | character                   |
| optdef      | character                   |
| edittype    | character                   |
| orequirfl   | logical (must be YES or NO) |
| oflength    | integer                     |
| validvalues | character                   |

# ION API Technical Documentation

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**API Call:** *sxapiSAGetStoredReportList*

**Purpose:** Retrieve a list of stored reports (SAPB record) for a given report menu function.

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| reportAcronym    | Input          | Curr Proc (report menu function – required)                            |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |
| t-rptstatus      | Output         | The t-rptstatus collection   |

**Notes:**

The t-rptstatus collection has the following fields:

| Field Name | Data Type |
|------------|-----------|
| reportnm   | character |
| currproc   | character |
| rpttitle   | character |
| prnternm   | character |
| scheduled  | character |
| lastrun    | character |



# ION API Technical Documentation

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**API Call:** *sxapiSAGetTermsList*

**Purpose:** This call returns a list of Term Types (defined in the SASTA table with codeiden = "t").

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                                    |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the terms type value, otherwise it sorts on the description. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                            |
| t-codelst        | Output         | The t-codelst collection.   |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| Codevalue  | character (terms type)              |
| Codedesc   | character (description)             |
| Extradata  | character                           |
| Sortfld    | character (sort key for collection) |

# ION API Technical Documentation

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**API Call:** *sxapiSAGetUnitOfMeasureList*

**Purpose:** This call returns a list of Unit of Measures (defined in the SASTA table with codeiden = "u").

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| sort             | Input/Optional | Sort Field: Pass "a" and it sorts on the unit of measure value, otherwise it sorts on the description. |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.                                 |
| t-codelst        | Output         | The t-codelst collection.  |

**Notes:**

Collection fields:

| Field Name | Type                                |
|------------|-------------------------------------|
| Codevalue  | character (unit of measure)         |
| Codedesc   | character (description)             |
| Extradata  | character                           |
| Sortfld    | character (sort key for collection) |

# ION API Technical Documentation

## **API Call:** *sxapiSAnoteChange*

**Purpose:** Note maintenance – Retrieve, Add, Change or Delete Note records for a given subject

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified  |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)   |
| notesTable       | Input/Required | The Table of the type of note to go after. (i.e. arsc, icsp, etc)  |
| primaryKey       | Input/Required | The Primary Key of the Note (i.e. for a Customer Note, this contains the Customer #  |
| secondaryKey     | Input          | The Secondary Key of the Note. (i.e. only for Notes Types that require a secondary key, is this used). This is used for notes like Shipto notes. |
| t-innotes        | Input          | The input t-innotes collection.  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.   |
| t-outnotes       | Output         | The output t-outnotes collection.  |

### **Notes:**

The collections contain the data of the Note itself to be modified, added, or deleted. It also contains some fields that the outside world uses to communicate to this procedure whether to Add, Change, or Delete the specific page of notes (each record is a page). Additionally, the user can set a flag that is the "Force Refresh All Pages" which tells the procedure to first delete all pages then re-add them all.

Both the t-innote and t-outnotes have the same definition as follows:

| Field Name          | Data Type  |
|---------------------|--|
| Notestype           | character ( same as notes.notestype value)                 |
| Pageno              | integer  |
| Primarykey          | character  |
| Secondarykey        | character  |
| Newrecordfl         | logical (Add)  |
| Newrecordglobalfl   | logical (Add note as global note)                          |
| Deleterecordfl      | logical (Delete)   |
| Changerecordfl      | logical (Modify)   |
| Forcereshallpagesfl | logical (deletes all pages of notes and re-adds this note) |
| Securefl            | logical  |
| Notedata            | character  |
| Printfl             | logical(All docs)  |
| Printfl2            | logical (Acknowledgement)                                  |
| Printfl3            | logical (Pick Ticket)                                      |
| Printfl4            | logical (Adv Shipping)                                     |
| Printfl5            | logical (Invoice)  |
| Requirefl           | logical  |
| Extradata           | character  |

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## **API Call:** *sxapiSASubmitReport*

**Purpose:** Submit a report for printing.

### **Parameters:**

| REST Params           | Direction      | Description  |
|-----------------------|----------------|--|
| companyNumber         | Input/required | Company #  |
| operatorInit          | Input/required | SASO operator for the company specified                                      |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)               |
| reportName            | Input/Required | ReportName – Name of the report  |
| outputType            | Input/Required | OutputType – Output type or device for the report (printer, file or e-mail). |
| outputName            | Input/required | OutputName – Output type name or device name                                 |
| printRangesAndOptions | Input/Required | PrintOptions – Delete after print  |
| tRprrange             | Input          | Input collection with range values   |
| tRpoptions            | Input          | Input collection with option values  |
| cErrorMessage         | Output         | Error message – Any error messages will be returned in this parameter.       |
| generatedReportName   | Output         | Created jobid #  |

### **Notes:**

This API call uses two collections to control its operation.

Following are the fields for the *Range Values Collection*

|          |   |
|----------|---|
| rangeseq | integer (this should match the range # being set) |
| rangenm  | character   |
| edittype | character   |
| requirfl | logical YES/NO                                    |
| rflength | integer   |
| rangebeg | character (beginning value of range)              |
| rangeend | character (ending value of range)                 |

Following are the fields for the *Option Values Collection*

|              |   |
|--------------|---|
| optionsseq   | integer (this should match the option # being set)  |
| optionnm     | character   |
| description  | character (This contains the option value. If the option is a question, this value must be “yes” or “no” rather than true/false). |
| edittype     | character   |
| required     | logical – use YES/NO  |
| formatlength | integer   |

# ION API Technical Documentation

## **API Call:** *sxapiSASubmitReportV2*

**Purpose:** Submit a report for printing.

### **Parameters:**

| REST Params           | Direction      | Description   |
|-----------------------|----------------|---|
| companyNumber         | Input/required | Company #   |
| operatorInit          | Input/required | SASO operator for the company specified   |
| operatorPassword      | Input/optional | SASO operator password (only required if business rule is set)                                  |
| reportName            | Input/Required | ReportName – Name of the report   |
| outputType            | Input/Required | OutputType – Output type or device for the report (printer, fax, file or e-mail).               |
| outputName            | Input/Required | OutputName – Output type name or device name  |
| printRangesAndOptions | Input/Required | PrintOptions – Delete after print   |
| demandFlag            | Input/Required | DemandFI – Gives a higher priority over a stored job in Report Manager                          |
| faxTo1                | Input          | FaxTo1 – The company name fax is being sent to when running fax. Override for default value.    |
| faxTo2                | Input          | FaxTo2 – The individual name fax is being sent to when running fax. Override for default value. |
| faxFrom               | Input          | FaxFrom – The company name fax is being sent from when running fax. Override for default value. |
| faxComment            | Input          | FaxCom – Fax comment when running fax.  |
| faxPhoneNumber        | Input          | FaxPhoneNo – The fax phonenumber when running fax. Override for default value.                  |
| tRprange              | Input          | Input collection with range values  |
| tRptoptionsV2         | Input          | Input collection with option values   |
| tSapblst              | Input          | Input collection with list values (optional)  |
| tInfieldvalue         | Input          | Input collection with extra fields for future expansion   |
| cErrorMessage         | Output         | Error message – Any error messages will be returned in this parameter.                          |
| generatedReportName   | Output         | ReportNm – sapb.reportnm of the report run  |

### **Notes:**

Following are the fields for the *Range Values Collection*

|          |   |
|----------|---|
| rangeseq | integer (this should match the range # being set) |
| rangenn  | not used  |
| edittype | not used  |
| requirfl | logical (YES/NO)                                  |
| rflength | not used  |
| rangebeg | character (beginning value of range)              |
| rangeend | character (ending value of range)                 |

Following are the fields for the *Option Values Collection*

|              |   |
|--------------|---|
| optionsseq   | integer (this should match the option # being set)  |
| optionnm     | not used  |
| optdef       | character (This contains the option value. If the option is a question, this value must be "yes" or "no" rather than true/false). |
| edittype     | not used  |
| required     | logical YES/NO  |
| formatlength | not used  |

**\*\*** These are the fields in the collection are used

Following are the fields for the *List Values Collection*

|          |   |
|----------|---|
| listtype | c = customer list, j = jrnl list, o = OE/PO List, v = vendor list |
| seqno    | integer   |
| custno   | decimal   |

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|            |                |
|------------|----------------|
| amount     | decimal        |
| checkno    | decimal        |
| jrnlno     | integer        |
| orderno    | integer        |
| ordersuf   | integer        |
| route      | character      |
| reprintfl  | logical YES/NO |
| outputty   | character      |
| shipto     | character      |
| operator   | character      |
| prodcat    | character      |
| vendno     | decimal        |
| apinvno    | character      |
| type       | logical YES/NO |
| allfl      | logical YES/NO |
| seqno2     | decimal        |
| name       | character      |
| selecttype | character      |
| transtype  | character      |
| sortno     | integer        |
| payallfl   | logical YES/NO |
| user1      | character      |
| user2      | character      |
| user3      | character      |
| user4      | character      |
| user5      | character      |
| user6      | decimal        |
| user7      | decimal        |
| user8      | date           |
| user9      | date           |

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**API Call:** sxapiSatableCodeMnt

**Purpose:**

This call will maintain (add, change, delete) System Table Code records (SASTA). This does not currently maintain the numeric table records (SASTN).

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified   |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)  |
| t-mnt-tt         | Input          | This first parameter is a collection that defines the operation to perform (see notes section)                          |
| extraData        | Input          | Extra parameter – currently not used.   |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter.  |
| returnData       | Output         | Returned Data – This parameter will contain a pipe ( ) delimited list of information as to the success of the operator. |

**Notes:**

This API call uses a collection to control its operation. The collection has the following fields:

|            |                   |
|------------|-------------------|
| setno      | numeric / integer |
| seqno      | numeric / integer |
| key1       | character         |
| key2       | character         |
| updatemode | character         |
| fieldname  | character         |
| fieldvalue | character         |

All of the records, within the collection, are grouped together by a Set #. Each set # represents a single operation that will be performed against the CSD system.

The seq # is just a sequential number that forces the collection records to be read in a certain sequence within a set.

The “updatemode” field determines the operation to perform and should be “add”, “chg”, or “del”. At this time, “del” is not supported.

The “fieldname” field is the field that will be updated, within the CSD database table (SASTA). See below for a complete list of values.

The “fieldvalue” field is the value of the data for that field.

The “key1” field is used to specify the Code Identifier (codeiden) during a “chg” or “del” operation. It can also be used during the “add” operation to specify the Code Value to be assigned (cannot be already used within SX) for the new table code being added. The “key1” field cannot be blank and currently will only be allowed as one of the following values:

aa,ac,b,c,cm,cu,e,ex,f,g,h,i,is,it,in,j,k,l,m,n,o,p,q,s,t,u,v,vt,w,x,y,z

The “key2” field is used to specify the Code Value (codeval) during an “add”, “chg” or “del” operations. It will be used for assigning (on an “add”) or finding the record, in conjunction with the “key1” value (codeiden). The “key2” field value cannot be blank.

Example of a new Table Code (SASTA) being added:

| set# | seq# | key1 | key2 | updatemode | fieldname | fieldvalue   |
|------|------|------|------|------------|-----------|--------------|
| 1    | 1    | b    | bbb  | add        | buyer     | Bob B. Buyer |
| 1    | 2    | b    | bbb  | add        | whse      | main         |

The following is a list of valid “fieldname” values:

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buyer, disccutday, discdays, discdt, discsplitfl, disctype, duecutday, duedays, duedt, duetype, editdcd, editpcd, ediunavty, exclecomm, lostbususagefl, maxmarpct, minmarpct, nopaymts, pcatdiscfl, proxcutday, reasunavty, reqauthfl, reqinvfl, reqwarrfl, restktaxgrp, restockamt, restockfl, returnty, scheddd, schedmm, schedwd, schedyy, splitfl, termscodfl, termsfreq, termslinefl, termspct, trmgrlang, unitconv, unitediuom, usagefl, user1, user2, user3, user4, user5, user6, user7, user8, user9, warrexchgfl, whse, discproxday1, discproxday2, dueproxday1, dueproxday2, proxmonths1, proxmonths2

As the collection records are read, the following validation will be performed if the data for that field has been included in the input collection:

| Field Name  | Validation   |
|-------------|--|
| Disctype    | Must be "d", "p", "t", or "n"  |
| Duetype     | Must be "d", "p", or "t"   |
| Reasunavty  | If the return type is not blank and not "s" then must be defined in the SASTA table (codeiden = "I") |
| Restktaxgrp | Must be >= 0 and <= 5  |
| Returnty    | When codeiden is "m" must be "v","s","u" or "p", when codeiden is "t" must be "y","n" or "f"         |
| Trmgrlang   | Must be defined in SASSM (currproc = "tr")   |
| Whse        | Must be defined in ICSD table  |

When the last record of a set is processed, the following validation will be performed on the data of the set:

If "key1" (codeiden) is "h" and returnty is "m" then termsfreq must be > 0  
 If "key1" (codeiden) is "h" then schedmm and scheddd cannot = 0 and cannot have leading zeros  
 If "key1" (codeiden) is "h" then schedyy must be "\*", this year, or next year  
 if "key1" (codeiden) is "m" and returnty is not "" and not "s" then the reasunavty must be in the SASTA table (codeiden = "I")  
 if "key1" (codeiden) is "t" and splitfl is yes then nopaymts must be > 0  
 if "key1" (codeiden) is "t" and splitfl is yes then termsfreq must be > 0  
 if "key1" (codeiden) is "t" and returnty is "f" then duetype must be "Date"  
 if "key1" (codeiden) is "t" and returnty is "f" then disctype must be "Date"  
 if "key1" (codeiden) is "t" then discdt must be the same or later (>=) than duedt  
 if "key1" (codeiden) is "t" and disctype = "Prox" then disccutday must be between 1 and 31  
 if "key1" (codeiden) is "t" and disctype = "Prox" then discproxday1 must be between 1 and 31  
 if "key1" (codeiden) is "t" and disctype = "Prox" then discproxday2 must be <= 31  
 if "key1" (codeiden) is "t" and duetype = "Prox" then duecutday must be between 1 and 31  
 if "key1" (codeiden) is "t" and duetype = "Prox" then dueproxday1 must be between 1 and 31  
 if "key1" (codeiden) is "t" and duetype = "Prox" then dueproxday2 must be <= 31



# ION API Technical Documentation

## API Call: *sxapiSFCustomerSummary*

**Purpose:** Return address and balance information from ARSC for a specific customer to the Commerce Storefront. The data returned will be displayed on the Account Summary screen in Storefront

### Parameters:

| <i>REST Params</i> | <i>Direction</i> | <i>Description</i>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input/Required   | Customer Number   |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-custsummary      | Output           | The “Customer Summary” collection                                     |

### Notes:

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### Output Collection: t-custsummary

| <i>Field Name</i> | <i>Data Type</i>    | <i>Data Source</i>           |
|-------------------|---------------------|------------------------------|
| custname          | Char x(30)          | arsc.name                    |
| addr1             | Char x(30)          | arsc.addr[1]                 |
| addr2             | Char x(30)          | arsc.addr[2]                 |
| addr3             | Char x(30)          | arsc.addr3                   |
| addr4             | Char x(30)          | Blank                        |
| City              | Char x(20)          | arsc.city                    |
| State             | Char x(2)           | arsc.state                   |
| Country           | Char x(2)           | arsc.countrycd               |
| zipcd             | Char x(10)          | arsc.zipcd                   |
| openordamt        | Decimal >>>>>>9.99- | arsc.ordbal                  |
| billprdamt        | Decimal >>>>>>9.99- | zero                         |
| ageprd1           | Decimal >>>>>>9.99- | zero                         |
| Ageprd2           | Decimal >>>>>>9.99- | zero                         |
| Ageprd3           | Decimal >>>>>>9.99- | zero                         |
| Ageprd4           | Decimal >>>>>>9.99- | zero                         |
| amtdue            | Decimal >>>>>>9.99- | zero                         |
| futureamamtduet   | Decimal >>>>>>9.99- | zero                         |
| salesMTD          | Decimal >>>>>>9.99- | Need to calculate            |
| salesYTD          | Decimal >>>>>>9.99- | arsc.salesytd                |
| salesLYTD         | Decimal >>>>>>9.99- | arsc.lastsalesytd            |
| lastpaydt         | Date                | arsc.lastpaydt               |
| firstsaedt        | Date                | Need to calculate            |
| lastsaedt         | Date                | arsc.lastsaedt               |
| currencycd        | Char x(2)           | arsc.currencyty              |
| tradeopenordamt   | Decimal >>>>>>9.99- | Zero                         |
| tradebillprdamt   | Decimal >>>>>>9.99- | arsc.periodbal[1]            |
| tradeageprd1      | Decimal >>>>>>9.99- | arsc.periodbal[2]            |
| tradeageprd2      | Decimal >>>>>>9.99- | arsc.periodbal[3]            |
| tradeageprd3      | Decimal >>>>>>9.99- | arsc.periodbal[4]            |
| tradeageprd4      | Decimal >>>>>>9.99- | arsc.periodbal[5]            |
| tradeamtdue       | Decimal >>>>>>9.99- | Sum of arsc.periodbal[1 – 5] |
| tradefutureamt    | Decimal >>>>>>9.99- | arsc.futinvbal               |
| tradesalesMTD     | Decimal >>>>>>9.99- | Zero                         |
| tradesalesYTD     | Decimal >>>>>>9.99- | Zero                         |
| tradesalesLYTD    | Decimal >>>>>>9.99- | Zero                         |

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|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| tradecurrencycd | Char x(3)   | Blank                             |
| termsdesc       | Char x(20)  | Sastn.descrip<br>(arsc.termstype) |
| agedaysper1     | Decimal >>9 | Sasc.arperdays[1]                 |
| Agedaysper2     | Decimal >>9 | Sasc.arperdays[1 + 2]             |
| Agedaysper3     | Decimal >>9 | Sasc.arperdays[1 + 2 + 3]         |
| Agedaysper4     | Decimal >>9 | Sasc.arperdays[1 + 2 + 3 + 4]     |

# ION API Technical Documentation

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**API Call:** *sxapiSFGetAssortmentItems*

**Purpose:** An assortment in the Commerce Storefront product is a list of items. This call is designed to return the products that make up a specific assortment to Storefront.

**Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input/Required   | Customer Number   |
| parentItemNumber   | Input            | Parent Product  |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-assortmentdata   | Output           | The “Assortment” collection   |

**Notes:**

Currently the assortment collection is not loaded because there is no concept of an assortment in CSD.

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## API Call: *sxapiSFGetBox*

**Purpose:** Return information about boxes used to ship an OE order to the Commerce Storefront. This information will be displayed on the Box Listing screen in Storefront.

### Parameters:

| <i>REST Params</i>    | <i>Direction</i> | <i>Description</i>  |
|-----------------------|------------------|---|
| companyNumber         | Input/required   | Company #   |
| operatorInit          | Input/required   | SASO operator for the company specified                               |
| operatorPassword      | Input/optional   | SASO operator password (only required if business rule is set)        |
| orderNumber           | Input            | Order Number  |
| orderSuffix           | Input            | Order Suffix  |
| historySequenceNumber | Input            | History Sequence Number   |
| itemNumber            | Input            | Item Number   |
| entrySequenceNumber   | Input            | Entry Sequence Number   |
| orderSequenceNumber   | Input            | Order Sequence Number   |
| boxNumber             | Input            | Box Number  |
| errorMessage          | Output           | Error Message – Any error messages will be returned in this parameter |
| t-boxheader           | Output           | The “Box Header Data” collection                                      |
| t-boxdetail           | Output           | The “Box Detail Data” collection                                      |

### Notes:

In CSD, box information is only loaded if the OE order is shipped using the Clippership third party shipping package. Box data is stored in the OEEHP table. Box information can also be stored in the TWL database.

This API program will first determine if a TWL database is connected. If it is, it will attempt to pull box data from the TWL database tables. If no TWL database connection is found, it will attempt to pull box data from the OEEHP table in the CSD database.

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### Output Collection: t-boxheader

| <i>Field Name</i> | <i>Data Type</i>    | <i>Data Source</i>  |
|-------------------|---------------------|---|
| shipcd            | Char x(1)           | If oeeh.stagecd >= 3 then Y else N  |
| shipdt            | Date                | Oeeh.shipdt   |
| shiptm            | Integer >>>>9       | Oeeh.shiptm – Calculate back to integer value to get seconds after midnight |
| shipviaty         | Char x(5)           | TWL: Cartonmst.carrier_id x(6)<br>SX: oeehp.shipviaty x(4)                  |
| cube              | Decimal >>>>9.99999 | TWL: Carton_size.cube<br>SX: zero   |
| weight            | Decimal >>>>9.999   | TWL: Cartonmst.weight<br>SX: oeehp.actweight                                |
| dimweight         | Decimal >>>>>9.999  | TWL: Carton_size.dim_weight<br>SX: zero                                     |
| shipcharge        | Decimal >>>>9.99-   | TWL: zero<br>SX: Oeehp.freightamt + oeehp.addonamt + oeehp.codaddchg        |
| trackingid        | Char x(30)          | TWL: Cartonmst.tracking_id<br>SX: oeehp.trackerno                           |
| boxid             | Char x(2)           | TWL: Cartonmst.box_id x(8)<br>SX: oeehp.pkgno                               |
| boxdesc           | Char x(2)           | TWL: Carton_size.description x(30)<br>SX: blank                             |
| billoflading      | Char x(20)          | Blank   |
| ordhistcd         | Char                | Blank   |

# ION API Technical Documentation

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**Output Collection:** t-boxdetail

| <b>Field Name</b> | <b>Data Type</b>      | <b>Data Source</b>   |
|-------------------|-----------------------|--|
| cartonno          | Char x(12)            | TWL: cartondtl.carton_num      int<br>SX: oeehp.pkgno      int |
| shipprod          | Char x(24)            | TWL: cartondtl.abs_num<br>SX: blank                            |
| boxqty            | Decimal<br>>>>>>9.999 | TWL: Cartondtl.qty<br>SX: zero                                 |
| unit              | Char x(4)             | TWL: Cartondtl.uom<br>SX: blank                                |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetCorpGroup*

### **Purpose:**

A corporate group in the Commerce Storefront product is a list of customers. When a user logs into the B2B portion of Storefront, he/she selects a customer from the corporate group list for which they will be placing the order. This call is designed to return the customers that make up a specific corporate group to Storefront.

### **Parameters:**

| <i>REST Params</i> | <i>Direction</i> | <i>Description</i>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| corporateGroup     | Input            | Corporate Group   |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-corpgrpdata      | Output           | The “Corporate Group” collection                                      |

### **Notes:**

Currently the corporate group collection is not loaded because there is no concept of an corporate group in CSD.

### **Output Collection:** t-corpgrpdata

| <i>Field Name</i>       | <i>Data Type</i>    | <i>Data Source</i> |
|-------------------------|---------------------|--------------------|
| Customer Number         | Decimal<br>>>>>>>>9 | Zero               |
| Customer Name           | Char x(30)          | Blank              |
| Customer Address 1      | Char x(30)          | Blank              |
| Customer Address 2      | Char x(30)          | Blank              |
| Customer Address 3      | Char x(30)          | Blank              |
| Customer Address 4      | Char x(30)          | Blank              |
| Customer City           | Char x(20)          | Blank              |
| Customer State          | Char x(30)          | Blank              |
| Customer Zip Code       | Char x(10)          | Blank              |
| Customer Country        | Char x(3)           | Blank              |
| Purchasing Phone Number | Char x(20)          | Blank              |
| Fax Phone Number        | Char x(20)          | Blank              |
| Default Warehouse       | Char x(4)           | Blank              |
| Customer Class          | Char x(2)           | Blank              |
| Price Bucket            | Char x(1)           | Blank              |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetCustComment*

**Purpose:** Return a note associated with an ARSC customer or an ARSS ship to to the Commerce Storefront. The note will be displayed on the Shopping Cart screen in Storefront

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input/Required   | Customer Number   |
| shipToNumber       | Input            | Ship To Number  |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-custcomment      | Output           | The “Customer Comment” collection                                     |

### **Notes:**

We will create one “Customer Comment” collection record for each note line that is not blank since it does not have a field that can handle 960 characters (16 lines x 60 characters per line). The comment sequence number will be loaded from a counter the starts at one with notes page #1, line #1 and is incremented for each line found on the current and all subsequent pages.

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:** t-custcomment

| <b>Field Name</b>       | <b>Data Type</b>    | <b>Data Source</b>                           |
|-------------------------|---------------------|--|
| Comment Type            | Char x(1)           | t-notes.notestype                            |
| Customer Number         | Char x(12)          | t-notes.primarykey                           |
| Ship To Number          | Char x(8)           | t-notes.secondarykey                         |
| Comment Sequence Number | Integer<br>>>>>>>>9 | Incrementing counter variable                |
| Comment Text            | Char x(62)          | t-notes.notetext                             |
| PO Print Date           | Date                | No date                                      |
| Review Date             | Date                | No date                                      |
| Comment Code            | Char x(1)           | Blank  |
| Comment Print Code      | Char x(1)           | t-notes.printfl – if ‘yes’ then “Y” else “N” |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetCustomerMaster*

**Purpose:** Returns information about a customer and all associated ship to records to Commerce Storefront. This is run when a user logs into Storefront so that all information about the user's customer number is available as they work in Storefront.

### **Parameters:**

| <b>REST Params</b>         | <b>Direction</b> | <b>Description</b>   |
|----------------------------|------------------|--|
| companyNumber              | Input/required   | Company #  |
| operatorInit               | Input/required   | SASO operator for the company specified  |
| operatorPassword           | Input/optional   | SASO operator password (only required if business rule is set)   |
| customerNumber             | Input/Required   | Customer Number  |
| customerName               | Output           | Customer Name – arsc.name  |
| customerAddress1           | Output           | Customer Address 1 – arsc.addr[1]  |
| customerAddress2           | Output           | Customer Address 2 – arsc.addr[2]  |
| customerAddress3           | Output           | Customer Address 3 – arsc.addr3  |
| customerAddress4           | Output           | Customer Address 4 – blank   |
| customerCity               | Output           | Customer City – arsc.city  |
| customerState              | Output           | Customer State – arsc.state  |
| customerZipCode            | Output           | Customer Zip Code – arsc.zipcd   |
| customerCountry            | Output           | Customer Country – arsc.countrycd  |
| defaultShipTo              | Output           | Default Ship To – arsc.shipto  |
| suspendCode                | Output           | Suspend Code – arsc.selltype<br>If Y – return blank because the order is approved<br>If N – return 'Y' because order is not approved<br>If C – return blank because order is COD and approved<br>If H – return 'H' because order is on hold<br>If O – return blank because order is open |
| defaultWarehouse           | Output           | Default Warehouse – arsc.whse  |
| poRequired                 | Output           | PO Required – arsc.poreqfl   |
| carrierCode                | Output           | Carrier Code – arsc.shipviaty  |
| arCustomerNumber           | Output           | AR Customer Number – arsc.fpcustno   |
| alternateWhseSequenceCode  | Output           | Alternate Warehouse Sequence Code – blank  |
| customerClass              | Output           | Customer Class – blank   |
| priceList                  | Output           | Price List – one   |
| productRestriction         | Output           | Product Restrictions – N<br>If Y – restrictions exist on Customer<br>If S – restrictions exist on Ship-To<br>If N – no restrictions exist (always send this)   |
| currencyCode               | Output           | <ul style="list-style-type: none"> <li>6.1.060 and above – 3 character currency code setup in SASTC – uses ARSC currency first, if blank then SASC currency (ex: USD, CAD),</li> <li>Previous versions – 2 character arsc.currencyty</li> </ul>  |
| defaultPricingExchangeCode | Output           | Default Pricing Exchange Code – blank  |
| defaultValidationCode      | Output           | Default Valuation Code – blank   |
| errorMessage               | Output           | Error Message – Any error messages will be returned in this parameter  |
| t-shiptolstv2              | Output           | The "Ship To" collection   |
| t-custcomment              | Output           | The "Customer Comment" collection  |

### **Notes:**

Information is found for the customer and each ship to records associated with that customer. Customer comments are only returned for the customer; not for each ship to.



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The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

## Output Collection: t-shiptoLstV2

| <b>Field Name</b>       | <b>Data Type</b>       | <b>Data Source</b>                     |
|-------------------------|------------------------|--|
| Ship To Customer Number | Decimal<br>>>>>>>>>>>9 | t-shiptoLstV2.custno                   |
| Ship To Number          | Char x(8)              | t-shiptoLstV2.shipto                   |
| Ship To Name            | Char x(30)             | t-shiptoLstV2.name                     |
| Ship To Address 1       | Char x(30)             | t-shiptoLstV2.addr1                    |
| Ship To Address 2       | Char x(30)             | t-shiptoLstV2.addr2                    |
| Ship To Address 3       | Char x(30)             | t-shiptoLstV2.addr3 Arss.addr3         |
| Ship To Address 4       | Char x(30)             | Blank                                  |
| Ship To City            | Char x(20)             | t-shiptoLstV2.city                     |
| Ship To State           | Char x(2)              | t-shiptoLstV2.state                    |
| Ship To Zip Code        | Char x(10)             | t-shiptoLstV2.zipcd                    |
| Ship To Contact         | Char x(30)             | t-shiptoLstV2.contact Arss.genname     |
| Ship To Country         | Char x(2)              | t-shiptoLstV2.countrycd Arss.countrycd |
| Default Warehouse       | Char x(4)              | t-shiptoLstV2.whse Arss.whse           |

## Output Collection: t-custcomment

| <b>Field Name</b>       | <b>Data Type</b>     | <b>Data Source</b>                           |
|-------------------------|----------------------|--|
| Comment Type            | Char x(2)            | t-notes.notestype                            |
| Customer Number         | Char x(12)           | t-notes.primarykey                           |
| Ship To Number          | Char x(8)            | t-notes.secondarykey                         |
| Comment Sequence Number | Integer<br>>>>>>>>>9 | Incrementing counter variable                |
| Comment Text            | Char x(62)           | t-notes.notetext                             |
| PO Print Date           | Date                 | No date                                      |
| Review Date             | Date                 | No date                                      |
| Comment Code            | Char x(1)            | Blank  |
| Comment Print Code      | Char x(1)            | t-notes.printfl – if ‘yes’ then “Y” else “N” |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetCustomerMasterV2*

**Purpose:** Returns information about a customer and all associated ship to records to Commerce Storefront. This is run when a user logs into Storefront so that all information about the user's customer number is available as they work in Storefront (version 2)

### **Parameters:**

| <i>REST Params</i>         | <i>Direction</i> | <i>Description</i>   |
|----------------------------|------------------|--|
| companyNumber              | Input/required   | Company #  |
| operatorInit               | Input/required   | SASO operator for the company specified  |
| operatorPassword           | Input/optional   | SASO operator password (only required if business rule is set)   |
| customerNumber             | Input/Required   | Customer Number  |
| customerName               | Output           | Customer Name – arsc.name  |
| customerAddress1           | Output           | Customer Address 1 – arsc.addr[1]  |
| customerAddress2           | Output           | Customer Address 2 – arsc.addr[2]  |
| customerAddress3           | Output           | Customer Address 3 – arsc.addr3  |
| customerAddress4           | Output           | Customer Address 4 – blank   |
| customerCity               | Output           | Customer City – arsc.city  |
| customerState              | Output           | Customer State – arsc.state  |
| customerZipCode            | Output           | Customer Zip Code – arsc.zipcd   |
| customerCountry            | Output           | Customer Country – arsc.countrycd  |
| defaultShipTo              | Output           | Default Ship To – arsc.shipto  |
| suspendCode                | Output           | Suspend Code – arsc.selltype<br>If Y – return blank because the order is approved<br>If N – return 'Y' because order is not approved<br>If C – return blank because order is COD and approved<br>If H – return 'H' because order is on hold<br>If O – return blank because order is open |
| defaultWarehouse           | Output           | Default Warehouse – arsc.whse  |
| poRequired                 | Output           | PO Required – arsc.poreqfl   |
| carrierCode                | Output           | Carrier Code – arsc.shipviaty  |
| arCustomerNumber           | Output           | AR Customer Number – arsc.fpcustno   |
| alternateWhseSequenceCode  | Output           | Alternate Warehouse Sequence Code – blank  |
| customerClass              | Output           | Customer Class – blank   |
| priceList                  | Output           | Price List – one   |
| productRestriction         | Output           | Product Restrictions – N<br>If Y – restrictions exist on Customer<br>If S – restrictions exist on Ship-To<br>If N – no restrictions exist (always send this)   |
| currencyCode               | Output           | <ul style="list-style-type: none"> <li>6.1.060 and above – 3 character currency code setup in SASTC – uses ARSC currency first, if blank then SASC currency (ex: USD, CAD),</li> <li>Previous versions – 2 character arsc.currencyty</li> </ul>  |
| defaultPricingExchangeCode | Output           | Default Pricing Exchange Code – blank  |

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|                       |        |   |
|-----------------------|--------|---|
| defaultValidationCode | Output | Default Valuation Code – blank  |
| defaultCustomerPO     | Output | Default Customer Purchase Order #                                     |
| shipToRequired        | Output | Ship To Required Flag   |
| errorMessage          | Output | Error Message – Any error messages will be returned in this parameter |
| t-shiptoLstV2         | Output | The “Ship To” collection  |
| t-custcomment         | Output | The “Customer Comment” collection                                     |
| t-fieldvaluepair      | Output | The “Field Value Pair” collection                                     |

## Notes:

Information is found for the customer and each ship to records associated with that customer. Customer comments are only returned for the customer; not for each ship to.

The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

## Output Collection: t-shiptoLstV2

| Field Name              | Data Type             | Data Source                            |
|-------------------------|-----------------------|--|
| Ship To Customer Number | Decimal<br>>>>>>>>>>9 | t-shiptoLstV2.custno                   |
| Ship To Number          | Char x(8)             | t-shiptoLstV2.shipto                   |
| Ship To Name            | Char x(30)            | t-shiptoLstV2.name                     |
| Ship To Address 1       | Char x(30)            | t-shiptoLstV2.addr1                    |
| Ship To Address 2       | Char x(30)            | t-shiptoLstV2.addr2                    |
| Ship To Address 3       | Char x(30)            | t-shiptoLstV2.addr3 Arss.addr3         |
| Ship To Address 4       | Char x(30)            | Blank                                  |
| Ship To City            | Char x(20)            | t-shiptoLstV2.city                     |
| Ship To State           | Char x(2)             | t-shiptoLstV2.state                    |
| Ship To Zip Code        | Char x(10)            | t-shiptoLstV2.zipcd                    |
| Ship To Contact         | Char x(30)            | t-shiptoLstV2.contact Arss.gename      |
| Ship To Country         | Char x(2)             | t-shiptoLstV2.countrycd Arss.countrycd |
| Default Warehouse       | Char x(4)             | t-shiptoLstV2.whse Arss.whse           |

## Output Collection: t-custcomment

| Field Name              | Data Type           | Data Source                                  |
|-------------------------|---------------------|--|
| Comment Type            | Char x(2)           | t-notes.notestype                            |
| Customer Number         | Char x(12)          | t-notes.primarykey                           |
| Ship To Number          | Char x(8)           | t-notes.secondarykey                         |
| Comment Sequence Number | Integer<br>>>>>>>>9 | Incrementing counter variable                |
| Comment Text            | Char x(62)          | t-notes.notetext                             |
| PO Print Date           | Date                | No date                                      |
| Review Date             | Date                | No date                                      |
| Comment Code            | Char x(1)           | Blank  |
| Comment Print Code      | Char x(1)           | t-notes.printfl – if ‘yes’ then “Y” else “N” |

## Output Collection: t-fieldvaluepair

This collection is for future use to return additional data as a field value pair.

| Field Name  | Data Type | Data Source |
|-------------|-----------|-------------|
| Sequence #  | Integer   | TBD         |
| Field Name  | Character | TBD         |
| Field Value | Character | TBD         |

# ION API Technical Documentation

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## **API Call:** *sxapiSFGetEnvironment*

**Purpose:** Return a list of connected databases to Commerce Storefront. The user that can log into Storefront is controlled by which database is connected.

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>   |
|--------------------|------------------|--|
| companyNumber      | Input/required   | Company #  |
| operatorInit       | Input/required   | SASO operator for the company specified  |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)   |
| environmentID      | Input            | Environment Identification Code  |
| validEnvironment   | Output           | Valid Environment<br>Yes – if input value found in logical database name list<br>No – if input value not found |
| environmentName    | Output           | Environment Description – Physical Database Name (if found)  |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter  |

### **Notes:**

When this API call is made, we will run the existing sxapiSAGetEnv call. That API call returns a list of all the databases that are currently connected. We will go through all comma separated values returned comparing the logical database name(s) against the value passed in. If a match is found, we will return the valid environment output parameter set to 'yes' and the physical database name in the description output parameter. If no match is found, we will return the valid environment output parameter set to 'no' and return SASSE error message 6331 – This DataBase Name Is Not One Of The Connected DataBases in the output message.

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## **API Call:** *sxapiSFGetGeneric Data*

**Purpose:** Return 'static' information to be used in Commerce Storefront. This procedure will be used to perform an initial data load into Storefront and to update data in Storefront if changes are made to any of the data sets in CSD.

### **Parameters:**

| <b>REST Params</b>     | <b>Direction</b> | <b>Description</b>  |
|------------------------|------------------|---|
| companyNumber          | Input/required   | Company #   |
| operatorInit           | Input/required   | SASO operator for the company specified                               |
| operatorPassword       | Input/optional   | SASO operator password (only required if business rule is set)        |
| environmentID          | Input            | Environment Identification Code                                       |
| getCompanies           | Input            | Get Company Data Indicator – either blank or Y                        |
| getWarehouses          | Input            | Get Warehouse Data Indicator – either blank or Y                      |
| getCountries           | Input            | Get Country Data Indicator – either blank or Y                        |
| getStates              | Input            | Get State Data Indicator – either blank or Y                          |
| getCarrierCodes        | Input            | Get Carrier Code Data Indicator – either blank or Y                   |
| getPaymentCodes        | Input            | Get Payment Type Data Indicator – either blank or Y                   |
| getHoldCodes           | Input            | Get Hold Code Data Indicator – either blank or Y                      |
| getCorporateGroups     | Input            | Get Corporate Group Data Indicator – either blank or Y                |
| getFreightRates        | Input            | Get Freight Rate Data Indicator – either blank or Y                   |
| getPostalZones         | Input            | Get Postal Zone Data Indicator – either blank or Y                    |
| getAlternateWarehouses | Input            | Get Alternate Warehouse Data Indicator – either blank or Y            |
| getCurrencyCodes       | Input            | Get Currency Code Data Indicator – either blank or Y                  |
| errorMessage           | Output           | Error Message – Any error messages will be returned in this parameter |
| t-sfgencompany         | Output           | The "Company" collection  |
| t-sfgenwhse            | Output           | The "Warehouse" collection  |
| t-sfgencountry         | Output           | The "Country" collection  |
| t-sfgenstate           | Output           | The "State" collection  |
| t-sfgencarrier         | Output           | The "Carrier Code" collection   |
| t-sfgenpayment         | Output           | The "Payment Type" collection   |
| t-sfgenholdcd          | Output           | The "Hold Code" collection  |
| t-sfgencorpgroup       | Output           | The "Corporate Group" collection                                      |
| t-sfgenfrtrate         | Output           | The "Freight Rate" collection   |
| t-sfgenpostalzone      | Output           | The "Postal Zone" collection  |
| t-sfgenaltwhse         | Output           | The "Alternate Warehouse" collection                                  |
| t-sfgencurrency        | Output           | The "Currency" collection   |

### **Notes:**

Data is returned only if the flag controlling that data is turned on. At this time the output "Corporate Group" collection returned to Commerce Connect is empty as there is no table or data in CSD that maps to Storefront data and usage. The closest we can come to this is getting a list of customers by sales rep. The "Alternate Warehouse" collection will also be returned empty. In Storefront, alternate warehouses are associated with a customer instead of another warehouse like they are in CSD. A user hook is included for each of these two items in case a custom solution can be developed.

The SASR and SASZ tables, from which the freight rates and postal zones are loaded respectively, are new in CSD. A preprocessor has been placed around the code that accesses these tables to prevent them from being used if this code is rolled back.

At this time there is no table or data in CSD for Hold Codes that map to Storefront data and usage. However, this is data that is needed in Storefront so we will manually create collection records for pre-defined hold codes. The Hold Codes will be loaded for all companies. Those hold codes are listed in a table below.

### **Hold Code Table:**

| <b>Hold Code</b> | <b>Hold Code Description</b> |
|------------------|------------------------------|
| BX               | Boxing Hold                  |

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|    |                             |
|----|-----------------------------|
| CI | Consolidated Invoice Hold   |
| CR | Credit Hold                 |
| DC | Declined Credit Card        |
| DS | Drop Ship Hold              |
| E1 | EDI Order Hold              |
| E2 | EDI Order Error Hold        |
| EP | Processing Credit Card Hold |
| EX | Expired Credit Card Hold    |
| GM | Minimum Gross Margin Hold   |
| GX | Maximum Gross Margin Hold   |
| H  | AR Credit Hold              |
| N  | Order Not Approved          |
| NC | New Customer Hold           |
| OH | Offline Entry Hold          |
| OM | Order Minimum Hold          |
| PC | Pending Credit Card Hold    |
| PE | Processing Error Hold       |
| RG | Return Goods Authorization  |
| SF | Settlement Failure          |
| SP | Slow Pay Hold               |
| TR | Warehouse Transfer Order    |
| WM | Warehouse Management Hold   |

The “State” collection will be loaded with a pre-defined list of state abbreviations and state names.

| <b>State Abbreviation</b> | <b>State Name</b>    |
|---------------------------|----------------------|
| AL                        | Alabama              |
| AK                        | Alaska               |
| AZ                        | Arizona              |
| AR                        | Arkansas             |
| CA                        | California           |
| CO                        | Colorado             |
| CT                        | Connecticut          |
| DE                        | Delaware             |
| DC                        | District of Columbia |
| FL                        | Florida              |
| GA                        | Georgia              |
| HI                        | Hawaii               |
| ID                        | Idaho                |
| IL                        | Illinois             |
| IN                        | Indiana              |
| IA                        | Iowa                 |
| KS                        | Kansas               |
| KY                        | Kentucky             |
| LA                        | Louisiana            |
| ME                        | Maine                |
| MD                        | Maryland             |
| MA                        | Massachusetts        |
| MI                        | Michigan             |
| MN                        | Minnesota            |
| MS                        | Mississippi          |
| MO                        | Missouri             |
| MT                        | Montana              |
| NE                        | Nebraska             |
| NV                        | Nevada               |
| NH                        | New Hampshire        |

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|    |                |
|----|----------------|
| NJ | New Jersey     |
| NM | New Mexico     |
| NY | New York       |
| NC | North Carolina |
| ND | North Dakota   |
| OH | Ohio           |
| OK | Oklahoma       |
| OR | Oregon         |
| PA | Pennsylvania   |
| RI | Rhode Island   |
| SC | South Carolina |
| SD | South Dakota   |
| TN | Tennessee      |
| TX | Texas          |
| UT | Utah           |
| VT | Vermont        |
| VA | Virginia       |
| WA | Washington     |
| WV | West Virginia  |
| WI | Wisconsin      |
| WY | Wyoming        |
| PR | Puerto Rico    |

The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

**Output Collection:** t-sfgenstate

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Source</b>                |
|-------------------|------------------|-----------------------------------|
| Company number    | Integer >>>9     | Zero                              |
| State Code        | Char x(30)       | Loaded from pre-defined list      |
| State Name        | Char x(30)       | Loaded from pre-defined list      |
| Extra Data        | Char             | Reserved for future or custom use |

**Output Collection:** t-sfgencarrier

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Source</b>   |
|-------------------|------------------|--|
| Company number    | Integer >>>9     | Sasta.cono   |
| Carrier Code      | Char x(4)        | Sasta.codeval (SASTT Type S – Ship Via)  |
| Carrier Name      | Char x(24)       | Sasta.descrip  |
| Prevent Web Usage | Char x(1)        | Can information for this carrier be seen on the web?<br>Not available on SASTN record therefore always blank for 'no'. |
| Extra Data        | Char             | Reserved for future or custom use  |

**Output Collection:** t-sfgnfrtrate

| <b>Field Name</b>      | <b>Data Type</b>       | <b>Data Source</b>                |
|------------------------|------------------------|-----------------------------------|
| Company number         | Integer >>>9           | Sasr.cono                         |
| Freight Method         | Char x(1)              | W for weight                      |
| Carrier Code           | Char x(4)              | sasr.shipvia                      |
| Currency Code          | Char x(3)              | Blank                             |
| Shipping Zone          | Char x(3)              | sasr.zone                         |
| Warehouse              | Char x(4)              | sasr.whse                         |
| Total Weight           | Decimal >>>>>>>9.9999- | sasr.weightlimit[i]               |
| Total Order/Item Value | Decimal >>>>>>>9.99-   | Zero                              |
| Freight Charge Amount  | Decimal >>>>>>>9.99-   | sasr.rate[i]                      |
| Extra Data             | Char                   | Reserved for future or custom use |

# ION API Technical Documentation

## Output Collection: t-sfgenpostalzone

| Field Name           | Data Type    | Data Source                       |
|----------------------|--------------|-----------------------------------|
| Company number       | Integer >>>9 | Sasz.cono                         |
| Carrier Code         | Char x(4)    | sasz.shipvia                      |
| Warehouse            | Char x(4)    | sasz.whse                         |
| Ship To Country      | Char x(3)    | Blank                             |
| Zone                 | Char x(3)    | sasz.zone                         |
| From Zip/Postal Code | Char x(10)   | sasz.begdestzip                   |
| To Zip/Postal Code   | Char x(10)   | sasz.enddestzip                   |
| Extra Data           | Char         | Reserved for future or custom use |

## Output Collection: t-sfgencompany

| Field Name     | Data Type    | Data Source                       |
|----------------|--------------|-----------------------------------|
| Company number | Integer >>>9 | Sasc.cono                         |
| Company Name   | Char x(40)   | Sasc.name                         |
| Extra Data     | Char         | Reserved for future or custom use |

## Output Collection: t-sfgenwhse

| Field Name        | Data Type    | Data Source                       |
|-------------------|--------------|-----------------------------------|
| Company number    | Integer >>>9 | lcsd.cono                         |
| Warehouse         | Char x(4)    | lcsd.whse                         |
| Warehouse Name    | Char x(30)   | lcsd.name                         |
| Warehouse Pricing | Char x(1)    | Return zero                       |
| Extra Data        | Char         | Reserved for future or custom use |

## Output Collection: t-sfgencountry

| Field Name     | Data Type    | Data Source                            |
|----------------|--------------|--|
| Company number | Integer >>>9 | Sasta.cono                             |
| Country Code   | Char x(4)    | Sasta.codeval (SASTT Type W – Country) |
| Country Name   | Char x(24)   | Sasta.descrip                          |
| Extra Data     | Char         | Reserved for future or custom use      |

## Output Collection: t-sfgenpayment

| Field Name                         | Data Type    | Data Source  |
|------------------------------------|--------------|--|
| Company number                     | Integer >>>9 | Sastn.cono   |
| Payment Type                       | Char x(4)    | Sastn.codeval (SASTT Type P – Payment Type)                                |
| Payment Type Name                  | Char x(24)   | Sastn.descrip  |
| Credit Verification Value Required | Char x(1)    | Sastn.ccidppt<br>- If 'no' then return Blank<br>- If 'yes' then return 'Y' |
| Extra Data                         | Char         | Reserved for future or custom use  |

## Output Collection: t-sfgenholdcd

| Field Name            | Data Type  | Data Source                       |
|-----------------------|------------|-----------------------------------|
| Company number        | Integer    | Sasc.cono                         |
| Hold Code             | Char x(2)  | Loaded from pre-defined list      |
| Hold Code Description | Char x(30) | Loaded from pre-defined list      |
| Extra Data            | Char       | Reserved for future or custom use |

## Output Collection: t-sfgenorgpgroup

| Field Name | Data Type | Data Source |
|------------|-----------|-------------|
|------------|-----------|-------------|



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|                      |              |                                   |
|----------------------|--------------|-----------------------------------|
| Company number       | Integer >>>9 | Zero                              |
| Corporate Group ID   | Char x(10)   | Blank                             |
| Corporate Group Name | Char x(30)   | Blank                             |
| Extra Data           | Char         | Reserved for future or custom use |

## Output Collection: t-sfgenaltwhse

| <b>Field Name</b>           | <b>Data Type</b> | <b>Data Source</b>                |
|-----------------------------|------------------|-----------------------------------|
| Company number              | Integer >>>9     | Zero                              |
| Warehouse Shipping Sequence | Char x(4)        | Blank                             |
| Warehouse List              | Char x(200)      | Blank                             |
| Extra Data                  | Char             | Reserved for future or custom use |

## Output Collection: t-sfgencurrency

| <b>Field Name</b>    | <b>Data Type</b> | <b>Data Source</b>                |
|----------------------|------------------|-----------------------------------|
| Company number       | Integer >>>9     | Sastc.cono                        |
| Currency Code        | Char x(2)        | Sastc.currencyty                  |
| Currency Description | Char x(24)       | Sastc.descrip                     |
| Currency Symbol      | Char x(3)        | Blank                             |
| Extra Data           | Char             | Reserved for future or custom use |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetGenericDataV2*

**Purpose:** Return 'static' information to be used in Commerce Storefront. This procedure will be used to perform an initial data load into Storefront and to update data in Storefront if changes are made to any of the data sets in CSD (version 2).

### **Parameters:**

| <i>REST Params</i>     | <i>Direction</i> | <i>Description</i>  |
|------------------------|------------------|---|
| companyNumber          | Input/required   | Company #   |
| operatorInit           | Input/required   | SASO operator for the company specified                               |
| operatorPassword       | Input/optional   | SASO operator password (only required if business rule is set)        |
| environmentID          | Input            | Environment Identification Code                                       |
| getCompanies           | Input            | Get Company Data Indicator – either blank or Y                        |
| getWarehouses          | Input            | Get Warehouse Data Indicator – either blank or Y                      |
| getCountries           | Input            | Get Country Data Indicator – either blank or Y                        |
| getStates              | Input            | Get State Data Indicator – either blank or Y                          |
| getCarrierCodes        | Input            | Get Carrier Code Data Indicator – either blank or Y                   |
| getPaymentCodes        | Input            | Get Payment Type Data Indicator – either blank or Y                   |
| getHoldCodes           | Input            | Get Hold Code Data Indicator – either blank or Y                      |
| getCorporateGroups     | Input            | Get Corporate Group Data Indicator – either blank or Y                |
| getFreightRates        | Input            | Get Freight Rate Data Indicator – either blank or Y                   |
| getPostalZones         | Input            | Get Postal Zone Data Indicator – either blank or Y                    |
| getAlternateWarehouses | Input            | Get Alternate Warehouse Data Indicator – either blank or Y            |
| getCurrencyCodes       | Input            | Get Currency Code Data Indicator – either blank or Y                  |
| errorMessage           | Output           | Error Message – Any error messages will be returned in this parameter |
| t-sfgencompany         | Output           | The "Company" collection  |
| t-sfgenwhse            | Output           | The "Warehouse" collection  |
| t-sfgencountry         | Output           | The "Country" collection  |
| t-sfgenstatev2         | Output           | The "State V2" collection   |
| t-sfgencarrier         | Output           | The "Carrier Code" collection   |
| t-sfgenpayment         | Output           | The "Payment Type" collection   |
| t-sfgenholdcd          | Output           | The "Hold Code" collection  |
| t-sfgenCorpgroup       | Output           | The "Corporate Group" collection                                      |
| t-sfgenfrtrate         | Output           | The "Freight Rate" collection   |
| t-sfgenpostalzone      | Output           | The "Postal Zone" collection  |
| t-sfgenaltwhse         | Output           | The "Alternate Warehouse" collection                                  |
| t-sfgencurrency        | Output           | The "Currency" collection   |

### **Notes:**

The Version 2 of this SXAPI call is identical to the original version "sxapiSFGetGeneric Data" except for the "State V2" collection as follows:

### **Output Collection:** t-sfgenstatev2

| <i>Field Name</i> | <i>Data Type</i> | <i>Data Source</i>   |
|-------------------|------------------|--|
| Company number    | Integer >>>9     | Zero   |
| Country ID        | Char x(2)        | Each state is associated with a Country defined in SASTT or hard code "US" for US States, if not present in SASTT. |
| State Code        | Char x(30)       | Loaded from pre-defined list   |
| State Name        | Char x(30)       | Loaded from pre-defined list   |
| Extra Data        | Char             | Reserved for future or custom use  |

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## **API Call:** *sxapiSFGetInvoiceDetail*

**Purpose:** Return a list of invoice, payment and adjustment transactions recorded against an AR Invoice to Commerce Storefront. This information will be displayed on the Open Invoice Detail screen in Storefront.

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input            | Customer Number   |
| invoiceType        | Input            | Invoice Type<br>Blank – regular invoice<br>F – finance charge         |
| invoiceNumber      | Input            | Invoice Number  |
| invoiceSuffix      | Input            | Invoice Suffix  |
| transactionType    | Input            | Flag<br>O – Open<br>P – Paid  |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-arinvdata        | Output           | The “Invoice Detail” collection                                       |

### **Notes:**

The Invoice Suffix parameter will be used to limit the data returned to a specific suffix. If the input value is not zero, then only return ARET data from those records that match the suffix passed in. If the input value is zero, return ARET data for all suffixes associated with the invoice number.

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:** t-arinvdata

| <b>Field Name</b>                | <b>Data Type</b>       | <b>Data Source</b>  |
|----------------------------------|------------------------|---|
| Sequence Number                  | Integer >>9            | t-artransV2.seqno   |
| Transaction Date                 | Date                   | A – aret.paymtdt<br>I – aret.invdtd<br>P – aret.paymtdt   |
| Transaction Type                 | Char x(1)              | t-artransV2.transcd<br>A – Adjustment (type 0 – discount and writeoff)<br>I – Invoice (type 0)<br>P – Payment (type 11) |
| Transaction Amount               | Decimal<br>>>>>>>9.99- | A – aret.pifamt<br>I – aret.amount<br>P – zero  |
| Payment Amount                   | Decimal<br>>>>>>>9.99- | A – zero<br>I – zero<br>P – Aret.paymtamt   |
| Currency Code                    | Char x(3)              | arsc.currencyty   |
| Discount Taken Amount            | Decimal<br>>>>>9.99-   | A – aret.discamt<br>I – zero<br>P – zero  |
| Check Number                     | Char x(10)             | A – blank<br>I – blank<br>P – aret.checkno  |
| Adjustment Number                | Char x(6)              | blank   |
| Trade Payment Transaction Amount | Decimal<br>>>>>>>9.99- | Zero  |

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|                                    |                        |  |
|------------------------------------|------------------------|--|
| Trade Payment Paid Amount          | Decimal<br>>>>>>>9.99- | Zero   |
| Trade Payment Cash Discount Amount | Decimal<br>>>>>>>9.99- | Zero   |
| Trade Payment Currency Code        | Char x(3)              | Zero   |
| Trade Invoice Transaction Amount   | Decimal<br>>>>>>>9.99- | Zero   |
| Trade Invoice Paid Amount          | Decimal<br>>>>>>>9.99- | Zero   |
| Trade Invoice Cash Discount Amount | Decimal<br>>>>>>>9.99- | Zero   |
| Trade Invoice Currency Code        | Char x(3)              | Zero   |
| Order Number                       | Char x(8)              | aret.invno    when aret.module = "oe" else blank |
| Order Suffix                       | Integer >9             | aret.invsuf    when aret.module = "oe" else zero |
| Customer PO Number                 | Char x(22)             | t-artransV2.custpo                               |
| History Sequence Number            | Integer >>>>9          | Zero   |

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## **API Call:** *sxapiSFGetOEOrderData*

**Purpose:** Return a list of OE orders for a customer to Commerce Storefront. This procedure returns both information from the order header and the order lines.

### **Parameters:**

| <i>REST Params</i>          | <i>Direction</i> | <i>Description</i>   |
|-----------------------------|------------------|--|
| companyNumber               | Input/required   | Company #  |
| operatorInit                | Input/required   | SASO operator for the company specified  |
| operatorPassword            | Input/optional   | SASO operator password (only required if business rule is set)                             |
| getOrderInfo                | Input            | Get Order Information Flag<br>Y – Get header and line detail<br>N – Get header detail only |
| customerNumber              | Input            | Customer Number  |
| lookupType                  | Input            | Lookup Type:<br>O – Order<br>H – History Sequence<br>P – Purchase Order<br>D – Date Range  |
| sourceType                  | Input            | Source:<br>O – Open<br>H – History   |
| fromEntryDate               | Input            | From Entry Date  |
| toEntryDate                 | Input            | To Entry Date  |
| orderNumber                 | Input            | Order Number   |
| orderSuffix                 | Input            | Order Suffix   |
| invoiceNumber               | Input            | Invoice Number   |
| customerPurchaseOrderNumber | Input            | Customer Purchase Order Number   |
| parentOrderNumber           | Input            | Parent Order Number  |
| guestFlag                   | Input            | Guest Flag   |
| emailAddress                | Input            | Email Address  |
| historySequenceNumber       | Input            | History Sequence Number  |
| entryDate                   | Input            | Entry Date   |
| errorMessage                | Output           | Error Message – Any error messages will be returned in this parameter                      |
| t-orderhdrtrans             | Output           | The “Order Header” collection  |
| t-orderIntrans              | Output           | The “Order Lines” collection   |

### **Notes:**

There are four ways in which the data can be retrieved based on the lookup type parameter: O – by order number, P – by customer purchase order number, D – by date range or H – by history sequence. The order numbers returned are further narrowed down based on the source parameter: O – open orders that have not been invoiced or canceled or H – history orders that have been invoiced or paid. The guest flag parameter controls which data retrieval options are available. A guest can only look for orders by order number. A registered user (guest = no) can use all search methods.

The Lookup Type input parameter can have values of O – order, H – history, P – customer PO and D – date range. If an O or an H is passed in, we will try to find a specific order based on the Order Number / Order Suffix input parameters. If those two parameters are zero, then find all orders for the customer that meet the Source input parameter condition. If a P is passed in, find all orders for the customer that match the value passed in through the Customer Purchase Order input parameter. If a D is passed in, find all orders for the customer that fall within the values of the From Entry Date and To Entry Date parameters. If no value is passed in, use all available data passed in.

The Guest Flag input parameter can have a value of Y indicating the user is not a Storefront registered user or N or blank indicating the user is a registered user. If the user is a guest, the customer purchase order and entry date range order retrieval methods are not to be used. A guest can only search for a specific order number.

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The Source input parameter can have values of O – order or H – history. If a value of O is passed in, this indicates only orders that have not been invoiced should be searched. If a value of H is passed in, this indicates only orders that have been invoiced or paid, but not cancelled, should be searched.

The ARSC.ADDR3 and OEEH.SHIPTOADDR3 fields are new in CSD. A preprocessor is placed around the code that assigns from these fields to prevent them from being used if this code is rolled back.

The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

**Output Collection:** t-orderhdrtrans

| <b>Field Name</b>  | <b>Data Type</b>  | <b>Data Source</b>   |
|--------------------|-------------------|--|
| Company Number     | Integer >>>9      | Oeeh.cono  |
| Customer Number    | Decimal >>>>>>>>9 | t-oeordV4.custno   |
| Order Number       | Char x(8)         | t-oeordV4.orderno  |
| Order Suffix       | Integer >9        | t-oeordV4.ordersuf   |
| Order Type         | Char x(2)         | t-oeordV4.transtype –<br>O – Stock Order (SO)<br>Q – Quote (QU)<br>D – Direct Order (DO)<br>C – Counter Sale (CS)<br>K – Blanket Order (BL)<br>K – Blanket Release (BR)<br>F – Future Order (FO)<br>S – Standing Order (ST)<br>B – Back Order except Blanket Release |
| Order Status       | Char x(1)         | t-oeordV4.stagecd –<br>1 – Ready for Pick Slip (stage 0,1)<br>2 – Pick Slip Printed (stage 2)<br>3 – Ready for Invoice (stage 3)<br>4 – Invoice Printed (stage 4, 5)<br>t-oeordV4.approvty<br>9 – Order Held (<> Y)  |
| Customer Name      | Char x(30)        | Arsc.name  |
| Customer Address 1 | Char x(30)        | Arsc.addr[1]   |
| Customer Address 2 | Char x(30)        | Arsc.addr[2]   |
| Customer Address 3 | Char x(30)        | Arsc.addr3   |
| Customer Address 4 | Char x(30)        | Blank  |
| Bill To City       | Char x(20)        | Arsc.city  |
| Bill To State      | Char x(2)         | Arsc.state   |
| Bill To Zip Code   | Char x(10)        | Arsc.zipcd   |
| Bill To Country    | Char x(3)         | Arsc.countrycd   |
| Bill To Contact    | Char x(30)        | Arsc.pocontctnm  |
| Ship To Number     | Char x(8)         | t-oeordV4.shipto   |
| Ship To Name       | Char x(30)        | Oeeh.shiptonm  |
| Ship To Address 1  | Char x(30)        | Oeeh.shiptoaddr[1]   |
| Ship To Address 2  | Char x(30)        | Oeeh.shiptoaddr[2]   |
| Ship To Address 3  | Char x(30)        | Oeeh.shiptoaddr3   |
| Ship To Address 4  | Char x(30)        | Blank  |
| Ship To City       | Char x(20)        | Oeeh.shiptocity  |
| Ship To State      | Char x(2)         | Oeeh.shiptost  |
| Ship To Zip Code   | Char x(10)        | Oeeh.shiptozip   |
| Ship To Country    | Char x(3)         | Oeeh.countrycd   |
| Ship To Contact    | Char x(30)        | Oeeh.contactid   |

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|                         |                      |  |
|-------------------------|----------------------|--|
| Parent Order Number     | Integer >>>>>>>9     | Oeeh.origorderno   |
| Entry Date              | Date                 | t-oeordV4.enterdt  |
| Acknowledge Print Date  | Date                 | Oeeh.ackdt   |
| Pick Slip Print Date    | Date                 | t-oeordV4.pickeddt   |
| Ship Confirm Date       | Date                 | t-oeordV4.shipdt   |
| Invoice Print Date      | Date                 | t-oeordV4.invoicedt  |
| Quote Review Date       | Date                 | Oeeh.canceledt   |
| Complete Ship Code      | Char x(1)            | Oeeh.orderdisp<br>Y – if disposition = 's'<br>N – if anything else   |
| Backorder Code          | Char x(1)            | Oeeh.boexistsfl<br>Y – if boexistsfl = yes<br>N – if boexistsfl = no |
| Requested Ship Date     | Date                 | t-oeordV4.reqshipdt  |
| Invoice Date            | Date                 | t-oeordV4.invoicedt  |
| Customer Purchase Order | Char x(22)           | t-oeordV4.custpo   |
| Item Sales Amount       | Decimal >>>>>>>9.99- | t-oeordV4.totlineamt   |
| Total Special Charges   | Decimal >>>>>>>9.99- | Sum of ADDON records   |
| Trading Discount Amount | Decimal >>>>>>>9.99- | Oeeh.wodiscamt + oeeh.specdiscamt                                    |
| Sales Tax Amount        | Decimal >>>>>>>9.99- | Sum of oeeh.taxamt[1 – 4]  |
| Federal Excise Amount   | Decimal >>>>>>>9.99- | Zero   |
| Total Container Charge  | Decimal >>>>>>>9.99- | Zero   |
| Invoice Amount          | Decimal >>>>>>>9.99- | t-oeordV4.totinvamt  |
| Total Order Value       | Decimal >>>>>>>9.99- | Oeeh.totordamt   |
| Carrier Code            | Char x(4)            | Oeeh.shipviaty   |
| Cancel Date             | Date                 | Oeeh.canceledt   |
| Pro Number              | Char x(20)           | Oeehp.trackerno (if available)                                       |
| Bill of Lading Number   | Char x(20)           | Blank  |
| Warehouse               | Char x(4)            | t-oeordV4.whse   |
| Invoice Number          | Integer >>>>>>>9     | Oeeh.invno   |
| History Sequence Number | Integer >>>>>>>9     | Zero   |
| Hold Code               | Char x(2)            | t-oeordV4.approvty   |
| Workstation ID          | Char x(2)            | Blank  |
| Currency Code           | Char x(3)            | Oeeh.currencyty  |
| Exchange Code           | Char x(3)            | Blank  |
| Box Indicator Code      | Char x(1)            | H – indicates tracker number comes from order header                 |
| SMS Prefix              | Char x(1)            | Blank  |

## Output Collection:

t-orderIntrans

| Field Name            | Data Type        | Data Source   |
|-----------------------|------------------|---|
| Company Number        | Integer >>>9     | Oeel.cono   |
| Customer Number       | Decimal >>>>>>>9 | Oeel.custno   |
| Order Number          | Char x(8)        | Oeel.orderno  |
| Order Suffix          | Integer >9       | Oeel.ordersuf   |
| Line Number           | Integer >>9      | Oeel.lineno   |
| Order Sequence Number | Integer >>>>9    | Zero  |
| Product               | Char x(24)       | t-oelineitemV3.prod   |
| Line Item Type        | Char x(1)        | I – if product on line<br>M – if e-mail address on line<br>/ - if header comment<br>& - if line comment |
| Item Description 1    | Char x(24)       | t-oelineitemV3.desc1  |
| Item Description 2    | Char x(24)       | t-oelineitemV3.desc2  |

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|                                  |                       |   |
|----------------------------------|-----------------------|---|
| Quantity Ordered                 | Decimal >>>>>9.999-   | t-oelineitemV3.qtyord   |
| Quantity Shipped                 | Decimal >>>>>9.999-   | t-oelineitemV3.qtyship  |
| Quantity Backordered             | Decimal >>>>>9.999-   | t-oelineitemV3.qtyord – t-oelineitemV3.qtyship<br>if t-oelineitemV3.botype <> 'N' |
| Unit of Measure                  | Char x(4)             | t-oelineitemV3.unit   |
| Customer Order Unit of Measure   | Char x(4)             | t-oelineitemV3.unit   |
| Pricing Unit of Measure          | Char x(4)             | t-oelineitemV3.unit   |
| Customer Pricing Unit of Measure | Char x(4)             | t-oelineitemV3.unit   |
| List Price                       | Decimal >>>>>9.99999- | lcswh.listprice   |
| Actual Sell Price                | Decimal >>>>>9.99999- | t-oelineitemV3.price  |
| Total Line Amount                | Decimal >>>>>9.99-    | t-oelineitemV3.netamt   |
| Due Date                         | Date                  | t-oelineitemV3.reqshipdt  |
| Original Product                 | Char x(24)            | Oeel.reqprod  |
| Entry Sequence Number            | Integer >>>>9         | zero  |



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## **API Call:** *sxapiSFGetOEOrderDataV2*

**Purpose:** Return a list of OE orders for a customer to Commerce Storefront. This procedure returns both information from the order header and the order lines. This is sxapiSFGetOEOrderData with the addition of a ship to parameter to filter orders. The same data files are returned.

### **Parameters:**

| <i>REST Params</i>          | <i>Direction</i> | <i>Description</i>   |
|-----------------------------|------------------|--|
| companyNumber               | Input/required   | Company #  |
| operatorInit                | Input/required   | SASO operator for the company specified  |
| operatorPassword            | Input/optional   | SASO operator password (only required if business rule is set)                             |
| getOrderInfo                | Input            | Get Order Information Flag<br>Y – Get header and line detail<br>N – Get header detail only |
| customerNumber              | Input            | Customer Number  |
| shipto                      | Input            | Ship To  |
| lookupType                  | Input            | Lookup Type:<br>O – Order<br>H – History Sequence<br>P – Purchase Order<br>D – Date Range  |
| sourceType                  | Input            | Source:<br>O – Open<br>H – History   |
| fromEntryDate               | Input            | From Entry Date  |
| toEntryDate                 | Input            | To Entry Date  |
| orderNumber                 | Input            | Order Number   |
| orderSuffix                 | Input            | Order Suffix   |
| invoiceNumber               | Input            | Invoice Number   |
| customerPurchaseOrderNumber | Input            | Customer Purchase Order Number   |
| parentOrderNumber           | Input            | Parent Order Number  |
| guestFlag                   | Input            | Guest Flag   |
| emailAddress                | Input            | Email Address  |
| historySequenceNumber       | Input            | History Sequence Number  |
| entryDate                   | Input            | Entry Date   |
| errorMessage                | Output           | Error Message – Any error messages will be returned in this parameter                      |
| t-orderhdrtrans             | Output           | The “Order Header” collection  |
| t-orderIntrans              | Output           | The “Order Lines” collection   |

### **Notes:**

There are four ways in which the data can be retrieved based on the lookup type parameter: O – by order number, P – by customer purchase order number, D – by date range or H – by history sequence. The order numbers returned are further narrowed down based on the source parameter: O – open orders that have not been invoiced or canceled or H – history orders that have been invoiced or paid. The guest flag parameter controls which data retrieval options are available. A guest can only look for orders by order number. A registered user (guest = no) can use all search methods.

The Lookup Type input parameter can have values of O – order, H – history, P – customer PO and D – date range. If an O or an H is passed in, we will try to find a specific order based on the Order Number / Order Suffix input parameters. If those two parameters are zero, then find all orders for the customer that meet the Source input parameter condition. If a P is passed in, find all orders for the customer that match the value passed in through the Customer Purchase Order input parameter. If a D is passed in, find all orders for the customer that fall within the values of the From Entry Date and To Entry Date parameters. If no value is passed in, use all available data passed in.

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The Guest Flag input parameter can have a value of Y indicating the user is not a Storefront registered user or N or blank indicating the user is a registered user. If the user is a guest, the customer purchase order and entry date range order retrieval methods are not to be used. A guest can only search for a specific order number.

The Source input parameter can have values of O – order or H – history. If a value of O is passed in, this indicates only orders that have not been invoiced should be searched. If a value of H is passed in, this indicates only orders that have been invoiced or paid, but not cancelled, should be searched.

The ARSC.ADDR3 and OEEH.SHIPTOADDR3 fields are new in CSD. A preprocessor is placed around the code that assigns from these fields to prevent them from being used if this code is rolled back.

The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

## Output Collection: t-orderhdrtrans

| Field Name         | Data Type         | Data Source  |
|--------------------|-------------------|--|
| Company Number     | Integer >>>9      | Oeeh.cono  |
| Customer Number    | Decimal >>>>>>>>9 | t-oeordV4.custno   |
| Order Number       | Char x(8)         | t-oeordV4.orderno  |
| Order Suffix       | Integer >9        | t-oeordV4.ordersuf   |
| Order Type         | Char x(2)         | t-oeordV4.transtype –<br>O – Stock Order (SO)<br>Q – Quote (QU)<br>D – Direct Order (DO)<br>C – Counter Sale (CS)<br>K – Blanket Order (BL)<br>K – Blanket Release (BR)<br>F – Future Order (FO)<br>S – Standing Order (ST)<br>B – Back Order except Blanket Release |
| Order Status       | Char x(1)         | t-oeordV4.stagecd –<br>1 – Ready for Pick Slip (stage 0,1)<br>2 – Pick Slip Printed (stage 2)<br>3 – Ready for Invoice (stage 3)<br>4 – Invoice Printed (stage 4, 5)<br>t-oeordV4.approvy<br>9 – Order Held (<> Y)   |
| Customer Name      | Char x(30)        | Arsc.name  |
| Customer Address 1 | Char x(30)        | Arsc.addr[1]   |
| Customer Address 2 | Char x(30)        | Arsc.addr[2]   |
| Customer Address 3 | Char x(30)        | Arsc.addr3   |
| Customer Address 4 | Char x(30)        | Blank  |
| Bill To City       | Char x(20)        | Arsc.city  |
| Bill To State      | Char x(2)         | Arsc.state   |
| Bill To Zip Code   | Char x(10)        | Arsc.zipcd   |
| Bill To Country    | Char x(3)         | Arsc.countrycd   |
| Bill To Contact    | Char x(30)        | Arsc.pocontctnm  |
| Ship To Number     | Char x(8)         | t-oeordV4.shipto   |
| Ship To Name       | Char x(30)        | Oeeh.shiptonm  |
| Ship To Address 1  | Char x(30)        | Oeeh.shiptoaddr[1]   |
| Ship To Address 2  | Char x(30)        | Oeeh.shiptoaddr[2]   |
| Ship To Address 3  | Char x(30)        | Oeeh.shiptoaddr3   |
| Ship To Address 4  | Char x(30)        | Blank  |
| Ship To City       | Char x(20)        | Oeeh.shiptocity  |
| Ship To State      | Char x(2)         | Oeeh.shiptost  |

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|                         |                     |  |
|-------------------------|---------------------|--|
| Ship To Zip Code        | Char x(10)          | Oeeh.shiptozip   |
| Ship To Country         | Char x(3)           | Oeeh.countrycd   |
| Ship To Contact         | Char x(30)          | Oeeh.contactid   |
| Parent Order Number     | Integer >>>>>>9     | Oeeh.origorderno   |
| Entry Date              | Date                | t-oeordV4.enterdt  |
| Acknowledge Print Date  | Date                | Oeeh.ackdt   |
| Pick Slip Print Date    | Date                | t-oeordV4.pickeddt   |
| Ship Confirm Date       | Date                | t-oeordV4.shipdt   |
| Invoice Print Date      | Date                | t-oeordV4.invoicedt  |
| Quote Review Date       | Date                | Oeeh.canceledt   |
| Complete Ship Code      | Char x(1)           | Oeeh.orderdisp<br>Y – if disposition = 's'<br>N – if anything else   |
| Backorder Code          | Char x(1)           | Oeeh.boexistsfl<br>Y – if boexistsfl = yes<br>N – if boexistsfl = no |
| Requested Ship Date     | Date                | t-oeordV4.reqshipdt  |
| Invoice Date            | Date                | t-oeordV4.invoicedt  |
| Customer Purchase Order | Char x(22)          | t-oeordV4.custpo   |
| Item Sales Amount       | Decimal >>>>>>9.99- | t-oeordV4.totlineamt   |
| Total Special Charges   | Decimal >>>>>>9.99- | Sum of ADDON records   |
| Trading Discount Amount | Decimal >>>>>>9.99- | Oeeh.wodiscamt + oeeh.specdiscamt                                    |
| Sales Tax Amount        | Decimal >>>>>>9.99- | Sum of oeeh.taxamt[1 – 4]  |
| Federal Excise Amount   | Decimal >>>>>>9.99- | Zero   |
| Total Container Charge  | Decimal >>>>>>9.99- | Zero   |
| Invoice Amount          | Decimal >>>>>>9.99- | t-oeordV4.totinvamt  |
| Total Order Value       | Decimal >>>>>>9.99- | Oeeh.totordamt   |
| Carrier Code            | Char x(4)           | Oeeh.shipviaty   |
| Cancel Date             | Date                | Oeeh.canceledt   |
| Pro Number              | Char x(20)          | Oeehp.trackerno (if available)                                       |
| Bill of Lading Number   | Char x(20)          | Blank  |
| Warehouse               | Char x(4)           | t-oeordV4.whse   |
| Invoice Number          | Integer >>>>>>9     | Oeeh.invno   |
| History Sequence Number | Integer >>>>>>9     | Zero   |
| Hold Code               | Char x(2)           | t-oeordV4.approvty   |
| Workstation ID          | Char x(2)           | Blank  |
| Currency Code           | Char x(3)           | Oeeh.currencyty  |
| Exchange Code           | Char x(3)           | Blank  |
| Box Indicator Code      | Char x(1)           | H – indicates tracker number comes from order header                 |
| SMS Prefix              | Char x(1)           | Blank  |

## Output Collection: t-orderIntrans

| Field Name      | Data Type       | Data Source  |
|-----------------|-----------------|--------------|
| Company Number  | Integer >>>9    | Oeel.cono    |
| Customer Number | Decimal >>>>>>9 | Oeel.custno  |
| Order Number    | Char x(8)       | Oeel.orderno |

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|                                  |                          |   |
|----------------------------------|--------------------------|---|
| Order Suffix                     | Integer >9               | Oeel.ordersuf   |
| Line Number                      | Integer >>9              | Oeel.lineno   |
| Order Sequence Number            | Integer >>>>9            | Zero  |
| Product                          | Char x(24)               | t-oelineitemV3.prod   |
| Line Item Type                   | Char x(1)                | I – if product on line<br>M – if e-mail address on line<br>/ - for line comment on line<br>& - for COMM/SUBTOT comment as a line item |
| Item Description 1               | Char x(24)               | t-oelineitemV3.desc1  |
| Item Description 2               | Char x(24)               | t-oelineitemV3.desc2  |
| Quantity Ordered                 | Decimal<br>>>>>>9.999-   | t-oelineitemV3.qtyord   |
| Quantity Shipped                 | Decimal<br>>>>>>9.999-   | t-oelineitemV3.qtyship  |
| Quantity Backordered             | Decimal<br>>>>>>9.999-   | t-oelineitemV3.qtyord – t-oelineitemV3.qtyship<br>if t-oelineitemV3.bottype <> 'N'  |
| Unit of Measure                  | Char x(4)                | t-oelineitemV3.unit   |
| Customer Order Unit of Measure   | Char x(4)                | t-oelineitemV3.unit   |
| Pricing Unit of Measure          | Char x(4)                | t-oelineitemV3.unit   |
| Customer Pricing Unit of Measure | Char x(4)                | t-oelineitemV3.unit   |
| List Price                       | Decimal<br>>>>>>9.99999- | lcswh.listprice   |
| Actual Sell Price                | Decimal<br>>>>>>9.99999- | t-oelineitemV3.price  |
| Total Line Amount                | Decimal<br>>>>>>9.99-    | t-oelineitemV3.netamt   |
| Due Date                         | Date                     | t-oelineitemV3.reqshipdt  |
| Original Product                 | Char x(24)               | Oeel.reqprod  |
| Entry Sequence Number            | Integer >>>>9            | Zero  |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetOEOrderDataV3*

**Purpose:** Return a list of OE orders for a customer to Commerce Storefront. This procedure returns information from the order header, order lines and order header extended amounts.

### **Parameters:**

| <i>REST Params</i>              | <i>Direction</i> | <i>Description</i>   |
|---------------------------------|------------------|--|
| companyNumber                   | Input/required   | Company #  |
| operatorInit                    | Input/required   | SASO operator for the company specified  |
| operatorPassword                | Input/optional   | SASO operator password (only required if business rule is set)                             |
| getOrderInfo                    | Input            | Get Order Information Flag<br>Y – Get header and line detail<br>N – Get header detail only |
| customerNumber                  | Input            | Customer Number  |
| shipTo                          | Input            | Ship To  |
| lookupType                      | Input            | Lookup Type:<br>O – Order<br>H – History Sequence<br>P – Purchase Order<br>D – Date Range  |
| sourceType                      | Input            | Source:<br>O – Open<br>H – History   |
| fromEntryDate                   | Input            | From Entry Date  |
| toEntryDate                     | Input            | To Entry Date  |
| orderNumber                     | Input            | Order Number   |
| orderSuffix                     | Input            | Order Suffix   |
| invoiceNumber                   | Input            | Invoice Number   |
| customerPurchaseOrderNumber     | Input            | Customer Purchase Order Number   |
| parentOrderNumber               | Input            | Parent Order Number  |
| guestFlag                       | Input            | Guest Flag   |
| emailAddress                    | Input            | Email Address  |
| historySequenceNumber           | Input            | History Sequence Number  |
| entryDate                       | Input            | Entry Date   |
| includeOrderTotalExtendedAmount | Input            | Include Order Total Extended Amounts flag  |
| errorMessage                    | Output           | Error Message – Any error messages will be returned in this parameter                      |
| t-orderhdrtrans                 | Output           | The “Order Header” collection  |
| t-orderlntrans                  | Output           | The “Order Lines” collection   |
| t-ordtotalextamt                | Output           | The “Order Extended Amounts” collection  |

### **Notes:**

There are four ways in which the data can be retrieved based on the lookup type parameter: O – by order number, P – by customer purchase order number, D – by date range or H – by history sequence. The order numbers returned are further narrowed down based on the source parameter: O – open orders that have not been invoiced or canceled or H – history orders that have been invoiced or paid. The guest flag parameter controls which data retrieval options are available. A guest can only look for orders by order number. A registered user (guest = no) can use all search methods.

The Lookup Type input parameter can have values of O – order, H – history, P – customer PO and D – date range. If an O or an H is passed in, we will try to find a specific order based on the Order Number / Order Suffix input parameters. If those two parameters are zero, then find all orders for the customer that meet the Source input parameter condition. If a P is passed in, find all orders for the customer that match the value passed in through the Customer Purchase Order input parameter. If a D is passed in, find all orders for the customer that fall within the values of the From Entry Date and To Entry Date parameters. If no value is passed in, use all available data passed in.

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The Guest Flag input parameter can have a value of Y indicating the user is not a Storefront registered user or N or blank indicating the user is a registered user. If the user is a guest, the customer purchase order and entry date range order retrieval methods are not to be used. A guest can only search for a specific order number.

The Source input parameter can have values of O – order or H – history. If a value of O is passed in, this indicates only orders that have not been invoiced should be searched. If a value of H is passed in, this indicates only orders that have been invoiced or paid, but not cancelled, should be searched.

The ARSC.ADDR3 and OEEH.SHIPTOADDR3 fields are new in CSD. A preprocessor is placed around the code that assigns from these fields to prevent them from being used if this code is rolled back.

The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

## Output Collection:

t-orderhdrtrans

| Field Name         | Data Type         | Data Source  |
|--------------------|-------------------|--|
| Company Number     | Integer >>>9      | Oeeh.cono  |
| Customer Number    | Decimal >>>>>>>>9 | t-oeordV4.custno   |
| Order Number       | Char x(8)         | t-oeordV4.orderno  |
| Order Suffix       | Integer >9        | t-oeordV4.ordersuf   |
| Order Type         | Char x(2)         | t-oeordV4.transtype –<br>O – Stock Order (SO)<br>Q – Quote (QU)<br>D – Direct Order (DO)<br>C – Counter Sale (CS)<br>K – Blanket Order (BL)<br>K – Blanket Release (BR)<br>F – Future Order (FO)<br>S – Standing Order (ST)<br>B – Back Order except Blanket Release |
| Order Status       | Char x(1)         | t-oeordV4.stagecd –<br>1 – Ready for Pick Slip (stage 0,1)<br>2 – Pick Slip Printed (stage 2)<br>3 – Ready for Invoice (stage 3)<br>4 – Invoice Printed (stage 4, 5)<br>t-oeordV4.approvty<br>9 – Order Held (<> Y)  |
| Customer Name      | Char x(30)        | Arsc.name  |
| Customer Address 1 | Char x(30)        | Arsc.addr[1]   |
| Customer Address 2 | Char x(30)        | Arsc.addr[2]   |
| Customer Address 3 | Char x(30)        | Arsc.addr3   |
| Customer Address 4 | Char x(30)        | Blank  |
| Bill To City       | Char x(20)        | Arsc.city  |
| Bill To State      | Char x(2)         | Arsc.state   |
| Bill To Zip Code   | Char x(10)        | Arsc.zipcd   |
| Bill To Country    | Char x(3)         | Arsc.countrycd   |
| Bill To Contact    | Char x(30)        | Arsc.pocontctnm  |
| Ship To Number     | Char x(8)         | t-oeordV4.shipto   |
| Ship To Name       | Char x(30)        | Oeeh.shiptonm  |
| Ship To Address 1  | Char x(30)        | Oeeh.shiptoaddr[1]   |
| Ship To Address 2  | Char x(30)        | Oeeh.shiptoaddr[2]   |
| Ship To Address 3  | Char x(30)        | Oeeh.shiptoaddr3   |
| Ship To Address 4  | Char x(30)        | Blank  |
| Ship To City       | Char x(20)        | Oeeh.shiptocity  |
| Ship To State      | Char x(2)         | Oeeh.shiptost  |

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|                         |                      |  |
|-------------------------|----------------------|--|
| Ship To Zip Code        | Char x(10)           | Oeeh.shiptozip   |
| Ship To Country         | Char x(3)            | Oeeh.countrycd   |
| Ship To Contact         | Char x(30)           | Oeeh.contactid   |
| Parent Order Number     | Integer >>>>>>>9     | Oeeh.origorderno   |
| Entry Date              | Date                 | t-oeordV4.enterdt  |
| Acknowledge Print Date  | Date                 | Oeeh.ackdt   |
| Pick Slip Print Date    | Date                 | t-oeordV4.pickeddt   |
| Ship Confirm Date       | Date                 | t-oeordV4.shipdt   |
| Invoice Print Date      | Date                 | t-oeordV4.invoicedt  |
| Quote Review Date       | Date                 | Oeeh.canceldt  |
| Complete Ship Code      | Char x(1)            | Oeeh.orderdisp<br>Y – if disposition = 's'<br>N – if anything else   |
| Backorder Code          | Char x(1)            | Oeeh.boexistsfl<br>Y – if boexistsfl = yes<br>N – if boexistsfl = no |
| Requested Ship Date     | Date                 | t-oeordV4.reqshipdt  |
| Invoice Date            | Date                 | t-oeordV4.invoicedt  |
| Customer Purchase Order | Char x(22)           | t-oeordV4.custpo   |
| Item Sales Amount       | Decimal >>>>>>>9.99- | t-oeordV4.totlineamt   |
| Total Special Charges   | Decimal >>>>>>>9.99- | Sum of ADDON records   |
| Trading Discount Amount | Decimal >>>>>>>9.99- | Oeeh.wodiscamt + oeeh.specdiscamt                                    |
| Sales Tax Amount        | Decimal >>>>>>>9.99- | Sum of oeeh.taxamt[1 – 4]  |
| Federal Excise Amount   | Decimal >>>>>>>9.99- | Zero   |
| Total Container Charge  | Decimal >>>>>>>9.99- | Zero   |
| Invoice Amount          | Decimal >>>>>>>9.99- | t-oeordV4.totinvamt  |
| Total Order Value       | Decimal >>>>>>>9.99- | Oeeh.totordamt   |
| Carrier Code            | Char x(4)            | Oeeh.shipviaty   |
| Cancel Date             | Date                 | Oeeh.canceldt  |
| Pro Number              | Char x(20)           | Oeehp.trackerno (if available)                                       |
| Bill of Lading Number   | Char x(20)           | Blank  |
| Warehouse               | Char x(4)            | t-oeordV4.whse   |
| Invoice Number          | Integer >>>>>>>9     | Oeeh.invno   |
| History Sequence Number | Integer >>>>>>>9     | Zero   |
| Hold Code               | Char x(2)            | t-oeordV4.approvty   |
| Workstation ID          | Char x(2)            | Blank  |
| Currency Code           | Char x(3)            | Oeeh.currencyty  |
| Exchange Code           | Char x(3)            | Blank  |
| Box Indicator Code      | Char x(1)            | H – indicates tracker number comes from order header                 |
| SMS Prefix              | Char x(1)            | Blank  |

## Output Collection: t-orderIntrans

| Field Name            | Data Type         | Data Source            |
|-----------------------|-------------------|------------------------|
| Company Number        | Integer >>>9      | Oeel.cono              |
| Customer Number       | Decimal >>>>>>>>9 | Oeel.custno            |
| Order Number          | Char x(8)         | Oeel.orderno           |
| Order Suffix          | Integer >9        | Oeel.ordersuf          |
| Line Number           | Integer >>9       | Oeel.lineno            |
| Order Sequence Number | Integer >>>>9     | Zero                   |
| Product               | Char x(24)        | t-oelineitemV3.prod    |
| Line Item Type        | Char x(1)         | I – if product on line |

# ION API Technical Documentation

|                                  |                       |   |
|----------------------------------|-----------------------|---|
|                                  |                       | M – if e-mail address on line<br>/ - for line comment on line<br>& - for COMM/SUBTOT comment as a line item |
| Item Description 1               | Char x(24)            | t-olineitemV3.desc1   |
| Item Description 2               | Char x(24)            | t-olineitemV3.desc2   |
| Quantity Ordered                 | Decimal >>>>>9.999-   | t-olineitemV3.qtyord  |
| Quantity Shipped                 | Decimal >>>>>9.999-   | t-olineitemV3.qtyship   |
| Quantity Backordered             | Decimal >>>>>9.999-   | t-olineitemV3.qtyord – t-olineitemV3.qtyship<br>if t-olineitemV3.botype <> 'N'                              |
| Unit of Measure                  | Char x(4)             | t-olineitemV3.unit  |
| Customer Order Unit of Measure   | Char x(4)             | t-olineitemV3.unit  |
| Pricing Unit of Measure          | Char x(4)             | t-olineitemV3.unit  |
| Customer Pricing Unit of Measure | Char x(4)             | t-olineitemV3.unit  |
| List Price                       | Decimal >>>>>9.99999- | lcswh.listprice   |
| Actual Sell Price                | Decimal >>>>>9.99999- | t-olineitemV3.price less<br>t-olineitemV3.discamt (if \$)<br>calculated discount (if %)                     |
| Total Line Amount                | Decimal >>>>>9.99-    | t-olineitemV3.netamt  |
| Due Date                         | Date                  | t-olineitemV3.reqshipdt   |
| Original Product                 | Char x(24)            | Oeel.reqprod  |
| Entry Sequence Number            | Integer >>>>9         | Zero  |

## Output Collection: t-ordertotalexamt

| Field Name      | Data Type           | Data Source  |
|-----------------|---------------------|--|
| Company Number  | Integer >>>9        | Oeeh.cono  |
| Customer Number | Decimal<br>>>>>>>>9 | t-oeordV4.custno   |
| Order Number    | Char x(8)           | t-oeordV4.orderno  |
| Order Suffix    | Integer >9          | t-oeordV4.ordersuf   |
| Sequence #      | Integer             | A sequential #   |
| Description     | Character           | The description of the extended amount                                 |
| Amount          | Decimal             | The amount   |
| Type            | Character           | The type of the extended amount:<br>Discount<br>Addon<br>Charge<br>tax |



# ION API Technical Documentation

## **API Call:** *sxapiSFGetOEOrderHistory*

**Purpose:** Return a list of products purchased on OE orders by a customer during a specific time frame. This data will be displayed on the Order History screen in Storefront.

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input            | Customer Number   |
| fromMonth          | Input            | From Month  |
| fromYear           | Input            | From Year   |
| toMonth            | Input            | To Month  |
| toYear             | Input            | To Year   |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-orditemhist      | Output           | The “Order History” collection  |

### **Notes:**

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:** t-orditemhist

| <b>Field Name</b>       | <b>Data Type</b> | <b>Data Source</b>    |
|-------------------------|------------------|-----------------------|
| Product                 | Char x(27)       | tt-shop_list.prod     |
| Product Description 1   | Char x(31)       | tt-shop_list.descrip  |
| Product Description 2   | Char x(31)       | tt-shop_list.descrip2 |
| Default Unit of Measure | Char x(4)        | tt-shop_list.unit     |
| Unit of Measure 1       | Char x(4)        | lcsp.unitstock        |
| Unit of Measure 2       | Char x(4)        | lcsp.unitsell         |
| Unit of Measure 3       | Char x(4)        | Blank                 |
| List Price              | Integer 9        | lcswh.listprice       |
| Price Unit of Measure   | Char x(4)        | Blank                 |
| Extra Data              | Char             | Blank                 |

# ION API Technical Documentation

## API Call: *sxapiSFGetOEOrderHistoryV2*

**Purpose:** Return a list of products purchased on OE orders by a customer during a specific time frame. This data will be displayed on the Order History screen in Storefront.

### Parameters:

| <i>REST Params</i> | <i>Direction</i> | <i>Description</i>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input            | Customer Number   |
| fromMonth          | Input            | From Month  |
| fromYear           | Input            | From Year   |
| toMonth            | Input            | To Month  |
| toYear             | Input            | To Year   |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-orditemhist      | Output           | The “Order History” collection  |

### Notes:

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### Output Collection: t-orditemhist

| <i>Field Name</i>       | <i>Data Type</i> | <i>Data Source</i>    |
|-------------------------|------------------|-----------------------|
| Product                 | Char x(27)       | tt-shop_list.prod     |
| Product Description 1   | Char x(31)       | tt-shop_list.descrip  |
| Product Description 2   | Char x(31)       | tt-shop_list.descrip2 |
| Default Unit of Measure | Char x(4)        | tt-shop_list.unit     |
| Unit of Measure 1       | Char x(4)        | lcsp.unitstock        |
| Unit of Measure 2       | Char x(4)        | lcsp.unitself         |
| Unit of Measure 3       | Char x(4)        | Blank                 |
| List Price              | Integer 9        | lcsf.listprice        |
| Price Unit of Measure   | Char x(4)        | Blank                 |
| Extra Data              | Char             | Blank                 |

### Input Collection: t-infieldvalue (used for additional input)

| <i>Field Name</i> | <i>Data Type</i> |                    |
|-------------------|------------------|--------------------|
| Level             | character        |                    |
| Lineno            | Integer          |                    |
| Seqno             | Integer          |                    |
| FieldName         | Character        | “shipto”           |
| FieldValue        | Character        | Value of FieldName |

### Output Collection: t-outfieldvalue (used for additional output)

| <i>Field Name</i> | <i>Data Type</i> |  |
|-------------------|------------------|--|
| Level             | character        |  |
| Lineno            | Integer          |  |
| Seqno             | Integer          |  |
| FieldName         | Character        |  |
| FieldValue        | Character        |  |

# ION API Technical Documentation

## API Call: *sxapiSFGetOpenInvoice*

**Purpose:** Return a list of open AR Invoices for a specific customer to Commerce Storefront. The data will be displayed on the Open Invoices screen in Storefront.

### Parameters:

| <i>REST Params</i>   | <i>Direction</i> | <i>Description</i>  |
|----------------------|------------------|---|
| companyNumber        | Input/required   | Company #   |
| operatorInit         | Input/required   | SASO operator for the company specified                               |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber       | Input            | Customer Number   |
| invoiceNumber        | Input            | Beginning Invoice # to search from                                    |
| recordLimit          | Input            | Max number of records to select                                       |
| fromInvoiceDate      | Input            | Beginning Invoice date range  |
| toInvoiceDate        | Input            | Ending Invoice date range   |
| fromAgingDate        | Input            | Beginning Due date  |
| toAgingDate          | Input            | Ending Due date   |
| moreRecordsAvailable | Output           | More records available (logical)                                      |
| errorMessage         | Output           | Error Message – Any error messages will be returned in this parameter |
| t-openinvdata        | Output           | The “Open Invoice” collection   |

### Notes:

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### Output Collection:

t-openinvdata

| <i>Field Name</i>            | <i>Data Type</i>    | <i>Data Source</i>   |
|------------------------------|---------------------|--|
| Invoice Number               | Integer >>>>>>9     | aret.invno   |
| Invoice Suffix               | Integer 99          | aret.invsuf  |
| Invoice Type                 | Char x(1)           | “invoice”<br>“finance charge” (Aret.transcd)                                     |
| Invoice Dispute Code         | Char x(1)           | aret.disputefl<br>Y – if disputefl = yes<br>N – if disputefl = no                |
| Finance Charge Flag          | Char x(1)           | Return ‘N’<br>Y – if finance charge applied<br>N – if finance charge not applied |
| Invoice Date                 | Date                | aret.invdt   |
| Age or Due Date              | Date                | aret.duedt   |
| Invoice Amount               | Decimal >>>>>>9.99- | aret.amount  |
| Invoice Balance              | Decimal >>>>>>9.99- | calculated   |
| Trade Invoice Amount         | Decimal >>>>>>9.99- | Zero / not used  |
| Trade Invoice Balance Amount | Decimal >>>>>>9.99- | Zero / not used  |
| Currency Symbol              | Char x(3)           | Blank / not used   |
| Last Transaction Date        | Date                | Calculate  |
| Pay Days                     | Integer >>9         | Calculate - # of days to pay   |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetOpenInvoiceV2*

**Purpose:** Return a list of open AR Invoices for a specific customer to Commerce Storefront. The data will be displayed on the Open Invoices screen in Storefront.

### **Parameters:**

| <b>REST Params</b>   | <b>Direction</b> | <b>Description</b>  |
|----------------------|------------------|---|
| companyNumber        | Input/required   | Company #   |
| operatorInit         | Input/required   | SASO operator for the company specified                               |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber       | Input            | Customer Number   |
| recordLimit          | Input            | Max number of records to select                                       |
| fromInvoiceNumber    | Input            | Beginning Invoice # range   |
| toInvoiceNumber      | Input            | Ending Invoice # range  |
| fromInvoiceDate      | Input            | Beginning Invoice date range  |
| toInvoiceDate        | Input            | Ending Invoice date range   |
| fromAgingDate        | Input            | Beginning Due date (Age Date)   |
| toAgingDate          | Input            | Ending Due date (Age Date)  |
| fromAmount           | Input            | From Amount   |
| toAmount             | Input            | To Amount   |
| customerNumber       | Input            | The "InFieldValue" collection – used for custom input                 |
| moreRecordsAvailable | Output           | More records available (logical)                                      |
| errorMessage         | Output           | Error Message – Any error messages will be returned in this parameter |
| t-outfieldvalue      | Output           | The "OutFieldValue" collection used for custom output                 |
| t-openinvdata        | Output           | The "Open Invoice" collection   |

### **Notes:**

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Input Collection:** t-infieldvalue (used for additional input)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

### **Output Collection:** t-outfieldvalue (used for additional output)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

# ION API Technical Documentation

## Output Collection: t-openinvdata

| <b>Field Name</b>            | <b>Data Type</b>    | <b>Data Source</b>   |
|------------------------------|---------------------|--|
| Invoice Number               | Integer >>>>>>9     | aret.invno   |
| Invoice Suffix               | Integer 99          | aret.invsuf  |
| Invoice Type                 | Char x(1)           | "invoice"<br>"finance charge" (Aret.transcd)                                     |
| Invoice Dispute Code         | Char x(1)           | aret.disputefl<br>Y – if disputefl = yes<br>N – if disputefl = no                |
| Finance Charge Flag          | Char x(1)           | Return 'N'<br>Y – if finance charge applied<br>N – if finance charge not applied |
| Invoice Date                 | Date                | aret.invdt   |
| Age or Due Date              | Date                | aret.duedt   |
| Invoice Amount               | Decimal >>>>>>9.99- | Aret.amount  |
| Invoice Balance              | Decimal >>>>>>9.99- | calculated   |
| Trade Invoice Amount         | Decimal >>>>>>9.99- | Zero / not used  |
| Trade Invoice Balance Amount | Decimal >>>>>>9.99- | Zero / not used  |
| Currency Symbol              | Char x(3)           | Blank / not used   |
| Last Transaction Date        | Date                | Calculate  |
| Pay Days                     | Integer >>9         | Calculate - # of days to pay   |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetOpenARTransaction*

**Purpose:** Return a list of all open AR transactions for a specific customer to Commerce Storefront. The data will be displayed on the Open AR Transactions screen in Storefront.

### **Parameters:**

| <i>REST Params</i>   | <i>Direction</i> | <i>Description</i>  |
|----------------------|------------------|---|
| companyNumber        | Input/required   | Company #   |
| operatorInit         | Input/required   | SASO operator for the company specified   |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)                                    |
| customerNumber       | Input            | Customer Number   |
| toInvoiceDate        | Input            | Transaction End Date  |
| moreRecordsAvailable | Output           | More Records  |
| errorMessage         | Output           | Error Message – Any error messages will be returned in this parameter                             |
| t-openinvdata        | Output           | The “Open Invoice” collection used for “Open Transactions” as well (same table as “Open Invoice”) |

### **Notes:**

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:** t-openinvdata

| <i>Field Name</i>            | <i>Data Type</i>    | <i>Data Source</i>   |
|------------------------------|---------------------|--|
| Invoice Number               | Integer >>>>>>9     | t-artransV2.invnoraw   |
| Invoice Suffix               | Integer 99          | t-artransV2.invsufraw  |
| Invoice Type                 | Char x(2)           | Blank – regular invoice<br>F – finance charge                                    |
| Invoice Dispute Code         | Char x(1)           | t-artransV2.disputefl<br>Y – if disputefl = yes<br>N – if disputefl = no         |
| Finance Charge Flag          | Char x(1)           | Return ‘N’<br>Y – if finance charge applied<br>N – if finance charge not applied |
| Invoice Date                 | Date                | t-artransV2.invdt  |
| Age Date                     | Date                | t-artransV2.duedt  |
| Invoice Amount               | Decimal >>>>>>9.99- | t-artransV2.amountx  |
| Invoice Balance              | Decimal >>>>>>9.99- | t-artransV2.amtduex  |
| Trade Invoice Amount         | Decimal >>>>>>9.99- | Zero   |
| Trade Invoice Balance Amount | Decimal >>>>>>9.99- | Zero   |
| Currency Symbol              | Char x(3)           | Blank  |
| Last Transaction Date        | Date                | Calculate  |
| Pay Days                     | Integer >>9         | Calculate  |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetOpenARTransactionV2*

**Purpose:** Return a list of all open AR transactions for a specific customer to Commerce Storefront. The data will be displayed on the Open AR Transactions screen in Storefront.

### **Parameters:**

| <i>REST Params</i>   | <i>Direction</i> | <i>Description</i>  |
|----------------------|------------------|---|
| companyNumber        | Input/required   | Company #   |
| operatorInit         | Input/required   | SASO operator for the company specified   |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)                                    |
| customerNumber       | Input            | Customer Number   |
| toInvoiceDate        | Input            | Transaction End Date  |
| t-infieldvalue       | Input            | t-infieldvalue collection – for user defined input  |
| moreRecordsAvailable | Output           | More Records  |
| errorMessage         | Output           | Error Message – Any error messages will be returned in this parameter                             |
| t-openinvdata        | Output           | The “Open Invoice” collection used for “Open Transactions” as well (same table as “Open Invoice”) |
| t-outfieldvalue      | Output           | t-outfieldvalue collection – for user defined output  |

### **Notes:**

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:**

t-openinvdata

| <i>Field Name</i>            | <i>Data Type</i>    | <i>Data Source</i>   |
|------------------------------|---------------------|--|
| Invoice Number               | Integer >>>>>>9     | t-artransV2.invnoraw   |
| Invoice Suffix               | Integer 99          | t-artransV2.invsufraw  |
| Invoice Type                 | Char x(2)           | Blank – regular invoice<br>F – finance charge                                    |
| Invoice Dispute Code         | Char x(1)           | t-artransV2.disputefl<br>Y – if disputefl = yes<br>N – if disputefl = no         |
| Finance Charge Flag          | Char x(1)           | Return ‘N’<br>Y – if finance charge applied<br>N – if finance charge not applied |
| Invoice Date                 | Date                | t-artransV2.invdt  |
| Age Date                     | Date                | t-artransV2.duedt  |
| Invoice Amount               | Decimal >>>>>>9.99- | t-artransV2.amountx  |
| Invoice Balance              | Decimal >>>>>>9.99- | t-artransV2.amtduex  |
| Trade Invoice Amount         | Decimal >>>>>>9.99- | Zero   |
| Trade Invoice Balance Amount | Decimal >>>>>>9.99- | Zero   |
| Currency Symbol              | Char x(3)           | Blank  |
| Last Transaction Date        | Date                | Calculate  |
| Pay Days                     | Integer >>9         | Calculate  |

# ION API Technical Documentation

## API Call: *sxapiSFGetOpenOEOrders*

**Purpose:** Despite the name, this returns a list of ALL OE orders for a specific customer which contains a specific product to Commerce Storefront. This information will be displayed on the Open Order Inquiry screen in Storefront.

### Parameters:

| <i>REST Params</i> | <i>Direction</i> | <i>Description</i>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input            | Customer Number   |
| itemNumber         | Input            | Product   |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-openorddata      | Output           | The “Open Order” collection   |

### Notes:

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

#### Output Collection: t-openorddata

| <i>Field Name</i>              | <i>Data Type</i>      | <i>Data Source</i>  |
|--------------------------------|-----------------------|---|
| Company Number                 | Integer >>>9          | Oeel.cono   |
| Customer Number                | Decimal >>>>>>9       | t-oeordV4.custno  |
| Order Number                   | Char x(8)             | t-oeordV4.orderno   |
| Order Suffix                   | Char x(2)             | t-oeordV4.ordersuf  |
| Line Number                    | Integer >>9           | Oeel.lineno   |
| Order Sequence Number          | Integer >>>>9         | Zero  |
| Product                        | Char x(24)            | Oeel.shipprod   |
| Product Description 1          | Char x(24)            | Oeel.proddesc   |
| Product Description 2          | Char x(24)            | Oeel.proddesc2  |
| Quantity Ordered               | Decimal >>>>>9.999-   | Oeel.qtyord   |
| Quantity Shipped               | Decimal >>>>>9.999-   | Oeel.qtyship  |
| Quantity Backordered           | Decimal >>>>>9.999-   | oeel.qtyord – oeel.qtyship<br>if oeel.botype <> ‘n’   |
| Unit of Measure                | Char x(4)             | oeel.unit   |
| Customer Order Unit of Measure | Char x(4)             | oeel.unit   |
| Price Unit of Measure          | Char x(4)             | oeel.unit   |
| Customer Price Unit of Measure | Char x(4)             | oeel.unit   |
| List Price                     | Decimal >>>>>9.99999- | lcswh.listprice   |
| Actual Selling Price           | Decimal >>>>>9.99999- | oeel.price  |
| Total Line Amount              | Decimal >>>>>9.999-   | oeel.netamt   |
| Customer Purchase Order Number | Char x(22)            | t-oeordV4.custpo  |
| Due Date                       | Date                  | oeel.promisedt  |
| Original Product               | Char x(24)            | Oeel.reqprod  |
| Entry Sequence Number          | Integer >>>>9         | Zero  |
| Warehouse                      | Char x(4)             | t-oeordV4.whse  |
| Order Status Code              | Char x(1)             | t-oeordV4.stagecd<br>1 – Ready for Pick Slip (stage 0, 1)<br>2 – Pick Slip Printed (stage 2)<br>3 – Ready for Invoice (stage 3)<br>4 – Invoice Printed (stage 4,5)<br>t-oeordV4.approvy |



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|                     |      |                         |
|---------------------|------|-------------------------|
|                     |      | 9 – Order Held ( <> Y ) |
| Requested Ship Date | Date | oeel.reqshipdt          |

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## **API Call:** *sxapiSFGetPaidInvoice*

**Purpose:** Return a list of paid AR Invoices for a specific customer to Commerce Storefront. The data will be displayed on the Paid Invoices screen in Storefront.

### **Parameters:**

| <i>REST Params</i>   | <i>Direction</i> | <i>Description</i>  |
|----------------------|------------------|---|
| companyNumber        | Input/required   | Company #   |
| operatorInit         | Input/required   | SASO operator for the company specified                               |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber       | Input            | Customer Number   |
| invoiceNumber        | Input            |   |
| recordLimit          | Input            |   |
| fromAgingDate        | Input            | Age Date  |
| toAgingDate          |                  |   |
| moreRecordsAvailable | Output           | Error Message – Any error messages will be returned in this parameter |
| t-paidinvdata        | Output           | The “Paid Invoice” collection   |

### **Notes:**

All Trade values will be returned as zero. The Trade values are populated by international sales. CSD does not separate international sales from domestic sales therefore a separate amount cannot be determined.

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:**

t-paidinvdata

| <i>Field Name</i>       | <i>Data Type</i>   | <i>Data Source</i>                            |
|-------------------------|--------------------|---|
| Invoice Number          | Integer >>>>>>9    | t-artransV2.invnoraw                          |
| Invoice Suffix          | Integer 99         | t-artransV2.invsufraw                         |
| Invoice Type            | Char x(1)          | Blank – regular invoice<br>F – finance charge |
| Age Date                | Date               | t-artransV2.duedt                             |
| Invoice Amount          | Decimal >>>>>9.99- | Aret.amount                                   |
| Adjustment Amount       | Decimal >>>>>9.99- | Aret.pifamt – Aret.discamt                    |
| Payment Amount          | Decimal >>>>>9.99- | Aret.paymtamt                                 |
| Trade Invoice Amount    | Decimal >>>>>9.99- | Zero  |
| Trade Adjustment Amount | Decimal >>>>>9.99- | Zero  |
| Trade Payment Amount    | Decimal >>>>>9.99- | Zero  |
| Currency Code           | Char x(3)          | arsc.currencyty                               |
| Last Transaction Date   | Date               | Calculate                                     |
| Pay Days                | Integer >>9        | Calculate                                     |

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## **API Call:** *sxapiSFGetPriceAvail*

**Purpose:** Returns price and availability information for a product to Commerce Storefront. This procedure is run before any screen is presented that displays a calculated price or availability in Storefront.

### **Parameters:**

| <i>REST Params</i>   | <i>Direction</i> | <i>Description</i>  |
|----------------------|------------------|---|
| companyNumber        | Input/required   | Company #   |
| operatorInit         | Input/required   | SASO operator for the company specified   |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)  |
| transactionID        | Input            | Transaction Identification Number   |
| requestID            | Input            | Request Identification Number – the first four digits are the company number and the last twelve digits are the customer number |
| orderNumber          | Input            | Order Number  |
| warehouseID          | Input            | Warehouse – if this is left blank, pricing and availability data should be returned for all existing warehouses                 |
| orderQuantity        | Input            | Quantity Ordered  |
| unitOfMeasure        | Input            | Unit of Measure   |
| vendorCost           | Input            | Vendor Cost – Only loaded for non stock product   |
| vendorPrice1         | Input            | Vendor Price 1 – Only loaded for non stock product  |
| vendorPrice2         | Input            | Vendor Price 2 – Only loaded for non stock product  |
| vendorPrice3         | Input            | Vendor Price 3 – Only loaded for non stock product  |
| vendorPrice4         | Input            | Vendor Price 4 – Only loaded for non stock product  |
| vendorPrice5         | Input            | Vendor Price 5 – Only loaded for non stock product  |
| nonStockFlag         | Input            | Non Stock flag – either Y or N  |
| calculatePrices      | Input            | Calculate Prices –<br>Y – Calculate prices and availability<br>(N or blank) – Calculate only availability                       |
| shipToNumber         | Input            | Ship To Number  |
| defaultWarehouseOnly | Input            |   |
| itemNumber           | Input            | Product   |
| errorMessage         | Output           | Error Message – Any error messages will be returned in this parameter   |
| t-prcavail           | Output           | The “Price Availability” collection   |

### **Notes:**

If a warehouse is passed in, then run the price and availability code for the product in that warehouse. If no warehouse is passed in, you will need to run the price and availability code in all warehouses in which that product is set up. If the ‘Calculate Prices’ input parameter is (Y)es, then we return both price and availability information in the t-prcavail output collection. If the input parameter is (N)o, then we return just the availability information.

The Pricing Unit of Measure Price is not the factor for the Pricing Unit of Measure. It is the price paid for a product with any discount taken out. The Calculated Price is the price for a product without any discount taken out. Since there is no way to display the special price costing label in Storefront, the price must be backed out to an each level before it can be displayed as the Sell Price in Storefront. For this reason, we will use the extended price returned from the SXAPI pricing call instead of the price.

05/16/07 – Change to Price and Pricing Unit of Measure Price- The price must still be backed out to an each level, but it will no longer be based on the extended price because this has been rounded. This was causing a

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problem with products with special price/costing. Ex. If the price is 16.67 per hundred, the Pricing Unit of Measure Price must be .1667, not .17.

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

## Output Collection: t-prcavail

| Field Name                    | Data Type                  | Data Source  |
|-------------------------------|----------------------------|--|
| Transaction ID                | Char x(8)                  | From input value   |
| Product                       | Char x(24)                 | t-oemultprcoutV2.prod  |
| Warehouse                     | Char x(4)                  | t-oemultprcoutV2.whse  |
| Quantity Available            | Decimal >>>>>9.999-        | t-oemultprcoutV2.netavail  |
| Calculated Price              | Decimal >>>>>9.99999-      | t-oemultprcoutv2.price –<br>(t-oemultprcoutv2.extdiscount /<br>(if t-oemultprcoutv2.vcspeccostty ne "" then<br>t-oemultprcoutv2.vccsunperstk<br>else 1)) |
| Next PO Quantity              | Decimal >>>>>9.999-        | Calculate  |
| Next PO Date                  | Date 99/99/99              | Calculate  |
| Error Message                 | Char x(100)                | Pv-retnterrormess and / or<br>t-oemultprcoutV2.errormess   |
| Pricing Unit of Measure       | Char x(4)                  | t-oemultprcoutV2.unit  |
| Pricing Unit of Measure Price | Decimal >>>>>9.99999-      | t-prcavail.price *<br>(if t-oemultprcoutv2.vcspeccostty ne "" then<br>t-oemultprcoutv2.vccsunperstk<br>else 1) * dConv                                   |
| Next Quantity Break           | Decimal<br>>>>>>>>>>9.999- | t-oemultprcoutbrk.quantitybreak#   |
| Next Quantity Price           | Decimal >>>>>9.99999-      | t-oemultprcoutbrk.pricebreak#  |
| Next Break Type               | Char x(1)                  | Blank  |
| Extended Price                | Decimal >>>>>9.99999-      | t-oemultprcoutV2.extamt  |

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## **API Call:** *sxapiSFGetPriceAvailMultiple*

**Purpose:** Return price and availability information to Storefront – multiple input products.

### **Parameters:**

| REST Params          | Direction      | Description   |
|----------------------|----------------|---|
| companyNumber        | Input/required | Company #   |
| operatorInit         | Input/required | SASO operator for the company specified   |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)  |
| transactionID        | Input          | Transaction Identification Number   |
| requestID            | Input          | Request Identification Number – the first four digits are the company number and the last twelve digits are the customer number |
| orderNumber          | Input          | Order Number  |
| shipToNumber         | Input          | Ship To   |
| defaultWarehouseOnly | Input          | Default Whse Only   |
| t-proddataprcavail   | Input          | The input t-proddataprcavail collection   |
| errorMessage         | Output         | Error Message – Any error messages will be returned in this parameter   |
| t-prcavail           | Output         | The “Price Availability” collection   |
| t-itemdet            | Output         | The “Item Detail” collection  |

### **Notes:**

The output “Price Availability” and “Item Detail” collections are identical to the “sxapiSFGetPriceAvail” calls.

| <b>Output Collection:</b> | t-proddataprcavail          |
|---------------------------|-----------------------------|
| <b>Field Name</b>         | <b>Data Type</b>            |
| Origwhse                  | character                   |
| Qtyord                    | decimal                     |
| Unit                      | character                   |
| Vendcost                  | decimal                     |
| Vendprice1                | decimal                     |
| Vendprice2                | decimal                     |
| Vendprice3                | decimal                     |
| Vendprice4                | decimal                     |
| Vendprice5                | decimal                     |
| Nonstockty                | character                   |
| Calcpricety               | character                   |
| Prod                      | character                   |
| Itemdetail                | character                   |
| Stockfl                   | logical (used internally)   |
| Calcpricefl               | logical (used internally)   |
| Catalogfl                 | logical (used internally)   |
| Availabilitywhse          | character (used internally) |
| Altwhse                   | character (used internally) |
| Pricingextraparam         | character (used internally) |
| Netavail                  | decimal (used internally)   |
| Unitconv                  | decimal (used internally)   |

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## **API Call:** *sxapiSFGetPriceAvailV2*

**Purpose:** Returns price and availability information for a product to Commerce Storefront. This procedure is run before any screen is presented that displays a calculated price or availability in Storefront.

### **Parameters:**

| <i>REST Params</i>   | <i>Direction</i> | <i>Description</i>  |
|----------------------|------------------|---|
| companyNumber        | Input/required   | Company #   |
| operatorInit         | Input/required   | SASO operator for the company specified   |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)  |
| transactionID        | Input            | Transaction Identification Number   |
| requestID            | Input            | Request Identification Number – the first four digits are the company number and the last twelve digits are the customer number |
| orderNumber          | Input            | Order Number  |
| shipToNumber         | input            |   |
| defaultWarehouseOnly | Input            |   |
| t-proddataprcavailV2 | Input            | Collection  |
| t-infieldvalue       | Input            | Collection  |
| errorMessage         | Output           | Error Message – Any error messages will be returned in this parameter   |
| t-prcavail           | Output           | The “Price Availability” collection   |
| t-itemdet            | Output           | The “Item Detail” collection  |

### **Notes:**

If a warehouse is passed in, then run the price and availability code for the product in that warehouse. If no warehouse is passed in, you will need to run the price and availability code in all warehouses in which that product is set up. If the ‘Calculate Prices’ input parameter is (Y)es, then we return both price and availability information in the t-prcavail output collection. If the input parameter is (N)o, then we return just the availability information. If the ‘Item Detail’ input parameter is (Y)es, then we return additional charges such as the core charge in the t-itemdet output collection. If the input parameter is (N)o, then no additional charge information is returned.

The Pricing Unit of Measure Price is not the factor for the Pricing Unit of Measure. It is the price paid for a product with any discount taken out. The Calculated Price is the price for a product without any discount taken out. Since there is no way to display the special price costing label in Storefront, the price must be backed out to an each level before it can be displayed as the Sell Price in Storefront. For this reason, we will use the extended price returned from the SXAPI pricing call instead of the price.

05/16/07 – Change to Price and Pricing Unit of Measure Price- The price must still be backed out to an each level, but it will no longer be based on the extended price because this has been rounded. This was causing a problem with products with special price/costing. Ex. If the price is 16.67 per hundred, the Pricing Unit of Measure Price must be .1667, not .17.

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:** t-prcavail

| <i>Field Name</i>  | <i>Data Type</i>      | <i>Data Source</i>   |
|--------------------|-----------------------|--|
| Transaction ID     | Char x(8)             | From input value   |
| Product            | Char x(24)            | t-oemultprcoutV2.prod  |
| Warehouse          | Char x(4)             | t-oemultprcoutV2.whse  |
| Quantity Available | Decimal >>>>>9.999-   | t-oemultprcoutV2.netavail  |
| Calculated Price   | Decimal >>>>>9.99999- | t-oemultprcoutv2.price –<br>(t-oemultprcoutv2.extdiscount /<br>(if t-oemultprcoutv2.vcspeccostty ne “” then<br>t-oemultprcoutv2.vccsunperstk<br>else 1)) |
| Next PO Quantity   | Decimal >>>>>9.999-   | Calculate  |

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|                               |                             |  |
|-------------------------------|-----------------------------|--|
| Next PO Date                  | Date 99/99/99               | Calculate  |
| Error Message                 | Char x(100)                 | Pv-retnerrormess and / or<br>t-oemultprcoutV2.errormess  |
| Pricing Unit of Measure       | Char x(4)                   | t-oemultprcoutV2.unit  |
| Pricing Unit of Measure Price | Decimal >>>>>9.99999-       | t-prcavail.price *<br>(if t-oemultprcoutv2.vcspeccostty ne "" then<br>t-oemultprcoutv2.vccsunperstk<br>else 1) * dConv |
| Next Quantity Break           | Decimal<br>>>>>>>>>>>9.999- | t-oemultprcoutbrk.quantitybreak#   |
| Next Quantity Price           | Decimal >>>>>9.99999-       | t-oemultprcoutbrk.pricebreak#  |
| Next Break Type               | Char x(1)                   | Blank  |
| Extended Price                | Decimal >>>>>9.99999-       | t-oemultprcoutV2.extamt  |

## Output Collection: t-itemdet

| <b>Field Name</b> | <b>Data Type</b>         | <b>Data Source</b>    |
|-------------------|--------------------------|-----------------------|
| Transaction ID    | Char x(8)                | From input value      |
| Product           | Char x(24)               | t-oemultprcoutV2.prod |
| Warehouse         | Char x(4)                | t-oemultprcoutV2.whse |
| Item Description  | Char x(30)               | "Core Charge"         |
| Item Value        | Decimal<br>>>>>>9.99999- | lcsp.corecharge       |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetSalesStatistics*

**Purpose:** Return sales information showing how often a product was purchased on an OE order in a given time period to Commerce Storefront. This data will be displayed on the Sales Statistics screen in Storefront.

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input            | Customer Number   |
| itemNumber         | Input            | Product   |
| fromMonth          | Input            | From Month  |
| fromYear           | Input            | From Year   |
| toMonth            | Input            | To Month  |
| toYear             | Input            | To Year   |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-salesanalysis    | Output           | The “Sales Statistics” collection                                     |

### **Notes:**

The SMSEW stores sales data in buckets by month for a years time period. The SMSEW record contains the sales amount and the quantity. The sales amount can be divided by the quantity to get the average sale price.

In order for this API to work you must have data in the SMSEW table. First go to **AO – Sales History – Levels** and make sure the **Customer,Product** option is checked. Even though it is checked now, it is possible that it may have been only recently turned on. So it is recommended to run the **SMREW** report in CSD for the customer, product, and time frame to confirm the data is available. If not, please contact your ICS representative to have them retro-actively populate this data.

Commerce Connect will interrogate the message value returned from this API call to determine how the Flag response variable should be set. If the error message is loaded, then the API call did not return sales data so the Flag response value should be set to 'N'. If the error message is blank, then no errors occurred during the API processing so the Flag response value should be blank as well. We need Commerce Connect to load the Flag value instead of passing it out as part of the t-salesanalysis collection because we do not create a collection record if an error was encountered.

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:** t-salesanalysis

In the response object, there is a “fromMonth” and “fromYear” value. That month/year represents bucket 1. The month after that is bucket 2 and so on.

| <b>Field Name</b>      | <b>Data Type</b>   | <b>Data Source</b>      |
|------------------------|--------------------|-------------------------|
| Customer Number        | Decimal >>>>>>>>>9 | Input customer number   |
| Product                | Char x(24)         | tt-shop_list.prod       |
| Sales Amount Bucket 1  | Decimal >>>>>9.99  | tt-shop_list.salesamt1  |
| Sales Amount Bucket 2  | Decimal >>>>>9.99  | tt-shop_list.salesamt2  |
| Sales Amount Bucket 3  | Decimal >>>>>9.99  | tt-shop_list.salesamt3  |
| Sales Amount Bucket 4  | Decimal >>>>>9.99  | tt-shop_list.salesamt4  |
| Sales Amount Bucket 5  | Decimal >>>>>9.99  | tt-shop_list.salesamt5  |
| Sales Amount Bucket 6  | Decimal >>>>>9.99  | tt-shop_list.salesamt6  |
| Sales Amount Bucket 7  | Decimal >>>>>9.99  | tt-shop_list.salesamt7  |
| Sales Amount Bucket 8  | Decimal >>>>>9.99  | tt-shop_list.salesamt8  |
| Sales Amount Bucket 9  | Decimal >>>>>9.99  | tt-shop_list.salesamt9  |
| Sales Amount Bucket 10 | Decimal >>>>>9.99  | tt-shop_list.salesamt10 |
| Sales Amount Bucket 11 | Decimal >>>>>9.99  | tt-shop_list.salesamt11 |
| Sales Amount Bucket 12 | Decimal >>>>>9.99  | tt-shop_list.salesamt12 |



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|                         |                       |  |
|-------------------------|-----------------------|--|
| Sales Amount Bucket 13  | Decimal >>>>>>9.99    | tt-shop_list.salesamt13                          |
| Quantity Bucket 1       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold1                            |
| Quantity Bucket 2       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold2                            |
| Quantity Bucket 3       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold3                            |
| Quantity Bucket 4       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold4                            |
| Quantity Bucket 5       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold5                            |
| Quantity Bucket 6       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold6                            |
| Quantity Bucket 7       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold7                            |
| Quantity Bucket 8       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold8                            |
| Quantity Bucket 9       | Decimal >>>>>>>9.999- | tt-shop_list.qtysold9                            |
| Quantity Bucket 10      | Decimal >>>>>>>9.999- | tt-shop_list.qtysold10                           |
| Quantity Bucket 11      | Decimal >>>>>>>9.999- | tt-shop_list.qtysold11                           |
| Quantity Bucket 12      | Decimal >>>>>>>9.999- | tt-shop_list.qtysold12                           |
| Quantity Bucket 13      | Decimal >>>>>>>9.999- | tt-shop_list.qtysold13                           |
| Average Price Bucket 1  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt1 / tt-shop_list.qtysold1   |
| Average Price Bucket 2  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt2 / tt-shop_list.qtysold2   |
| Average Price Bucket 3  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt3 / tt-shop_list.qtysold3   |
| Average Price Bucket 4  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt4 / tt-shop_list.qtysold4   |
| Average Price Bucket 5  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt5 / tt-shop_list.qtysold5   |
| Average Price Bucket 6  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt6 / tt-shop_list.qtysold6   |
| Average Price Bucket 7  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt7 / tt-shop_list.qtysold7   |
| Average Price Bucket 8  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt8 / tt-shop_list.qtysold8   |
| Average Price Bucket 9  | Decimal >>>>>>>9.999  | tt-shop_list.salesamt9 / tt-shop_list.qtysold9   |
| Average Price Bucket 10 | Decimal >>>>>>>9.999  | tt-shop_list.salesamt10 / tt-shop_list.qtysold10 |
| Average Price Bucket 11 | Decimal >>>>>>>9.999  | tt-shop_list.salesamt11 / tt-shop_list.qtysold11 |
| Average Price Bucket 12 | Decimal >>>>>>>9.999  | tt-shop_list.salesamt12 / tt-shop_list.qtysold12 |
| Average Price Bucket 13 | Decimal >>>>>>>9.999  | tt-shop_list.salesamt13 / tt-shop_list.qtysold13 |
| To Month                | Integer >9            | Input ending month                               |
| To Year                 | Integer 9999          | Input ending year                                |
| From Month              | Integer >9            | Input beginning month                            |
| From Year               | Integer 9999          | Input beginning year                             |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetShipToList*

**Purpose:** Returns address information for each ship to associated with a specific customer to Commerce Storefront. This information is displayed in the Ship-to's screen in Storefront.

### **Parameters:**

| <i>REST Params</i> | <i>Direction</i> | <i>Description</i>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input            | Customer Number   |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-shiptoLstV2      | Output           | The "ShipTo" collection   |

### **Notes:**

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:** t-shiptoLstV2

| <i>Field Name</i>       | <i>Data Type</i>       | <i>Data Source</i>                     |
|-------------------------|------------------------|--|
| Ship To Customer Number | Decimal<br>>>>>>>>>>>9 | t-shiptoLstV2.custno                   |
| Ship To Number          | Char x(8)              | t-shiptoLstV2.shipto                   |
| Ship To Name            | Char x(30)             | t-shiptoLstV2.name                     |
| Ship To Address 1       | Char x(30)             | t-shiptoLstV2.addr1                    |
| Ship To Address 2       | Char x(30)             | t-shiptoLstV2.addr2                    |
| Ship To Address 3       | Char x(30)             | t-shiptoLstV2.addr3 Arss.addr3         |
| Ship To Address 4       | Char x(30)             | Blank                                  |
| Ship To City            | Char x(20)             | t-shiptoLstV2.city                     |
| Ship To State           | Char x(2)              | t-shiptoLstV2.state                    |
| Ship To Zip Code        | Char x(10)             | t-shiptoLstV2.zipcd                    |
| Ship To Contact         | Char x(30)             | t-shiptoLstV2.contact Arss.gename      |
| Ship To Country         | Char x(2)              | t-shiptoLstV2.countrycd Arss.countrycd |
| Default Warehouse       | Char x(4)              | t-shiptoLstV2.whse Arss.whse           |

# ION API Technical Documentation

## **API Call:** *sxapiSFGetShipToListV2*

**Purpose:** Returns address information for each ship to associated with a specific customer to Commerce Storefront. This information is displayed in the Ship-to's screen in Storefront.

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| customerNumber     | Input            | Customer Number   |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |
| t-shiptolstV3      | Output           | The “ShipTo” collection   |
| t-shiptovaluepair  | Output           | The “ShipTo Value-Pair” collection                                    |

### **Notes:**

The t-shiptolstV3 collection has the following fields:

| <b>t-shiptolstV3 collection</b> |                  |
|---------------------------------|------------------|
| <b>Field Name</b>               | <b>Data Type</b> |
| Custno                          | Decimal          |
| Shipto                          | Character        |
| Name                            | Character        |
| Addr1                           | Character        |
| Addr2                           | Character        |
| Addr3                           | Character        |
| Addr4                           | Character        |
| City                            | Character        |
| State                           | Character        |
| Zipcd                           | Character        |
| Phoneno                         | Character        |
| Notesfl                         | Character        |
| Sortfld                         | Character        |
| Contact                         | Character        |
| CountryCd                       | Character        |
| Whse                            | Character        |
| Whse                            | Character        |
| Shipviaty                       | Character        |
| Whseseqcd                       | Character        |
| Prodrestrict                    | Character        |
| Poreqfl                         | Logical          |
| Custpo                          | Character        |

**t-shiptovaluepair collection** The t-shiptovaluepair collection has the following fields:

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Sortfld           | Character        |
| Custno            | Decimal          |
| Shipto            | Character        |

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## **API Call:** *sxapiSFGetTrackingNum*

**Purpose:** Returns a list of tracking numbers associated with the shipment of an OE order to Commerce Storefront. The tracking numbers can be used to access package tracking information at the websites of shipping companies such as UPS, FedEx and DHL.

### **Parameters:**

| <i>REST Params</i>    | <i>Direction</i> | <i>Description</i>  |
|-----------------------|------------------|---|
| companyNumber         | Input/required   | Company #   |
| operatorInit          | Input/required   | SASO operator for the company specified                               |
| operatorPassword      | Input/optional   | SASO operator password (only required if business rule is set)        |
| orderNumber           | Input            | Order Number  |
| orderSuffix           | Input            | Order Suffix  |
| historySequenceNumber | Input            | History Sequence Number   |
| entrySequenceNumber   | Input            | Entry Sequence Number   |
| orderSequenceNumber   | Input            | Order Sequence Number   |
| errorMessage          | Output           | Error Message – Any error messages will be returned in this parameter |
| t-trackernum          | Output           | The “Tracking Number” collection                                      |

### **Notes:**

In CSD, tracking information is only loaded if the OE order is shipped using the Clippership third party shipping package. Tracking number data is stored in the OEEHP table. Tracking number information can also be stored in the TWL database.

This API program will first determine if a TWL database is connected. If it is, it will attempt to pull box data from the TWL database tables. If no TWL database connection is found, it will attempt to pull box data from the OEEHP table in the CSD database.

The following shows the fields that make up the output collection returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

### **Output Collection:** t-trackerdata

| <i>Field Name</i> | <i>Data Type</i>    | <i>Data Source</i>                                |
|-------------------|---------------------|---|
| Order Number      | Integer<br>zzzzzzz9 | Oeeh.orderno                                      |
| Order Suffix      | Integer 99          | Oeeh.ordersuf                                     |
| Tracking Number   | Char x(30)          | TWL: Cartonmst.tracking_id<br>SX: oeehp.trackerno |
| Ship Via Type     | Char x(6)           | TWL: Cartonmst.carrier_id<br>SX: oeehp.shipviaty  |

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## **API Call:** *sxapiSFOEOrderTotLoad*

**Purpose:** Create an OE order for Storefront.

**Note:** Since the processing for this SXAPI call is identical to the latest version of the “sxapiSFOEOrderTotLoad\*” call series, please refer to that one for more information.

**Notes:**

The sxapiSFOEOrderTotLoad call is essentially the same as the latest version, except later versions of the call changed the signature for additional collections.

## **API Call:** *sxapiSFOEOrderTotLoadV2*

**Purpose:** Create an OE order for Storefront.

**Note:** Since the processing for this SXAPI call is identical to the latest version of the “sxapiSFOEOrderTotLoad\*” call series, please refer to that one for more information.

**Notes:**

The sxapiSFOEOrderTotLoad call is essentially the same as the latest version, except later versions of the call changed the signature for additional collections.

## **API Call:** *sxapiSFOEOrderTotLoadV3*

**Purpose:** Create an OE order for Storefront.

**Note:** Since the processing for this SXAPI call is identical to the latest version of the “sxapiSFOEOrderTotLoad\*” call series, please refer to that one for more information.

**Notes:**

The sxapiSFOEOrderTotLoad call is essentially the same as the latest version, except later versions of the call changed the signature for additional collections.

## **API Call:** *sxapiSFOEOrderTotLoadV4*

**Purpose:** This procedure can be run to either return order totals or it can be run to actually create an OE order based on data passed in from Commerce Storefront. The order total transaction is run when the user is displayed the total amount of an order that would be created based on the current contents of the shopping cart. The order load transaction is run when the user presses the submit order button on the Checkout screen and creates an OE order for the contents of the shopping cart.

**Parameters:**

| <i>REST Params</i>     | <i>Direction</i> | <i>Description</i>  |
|------------------------|------------------|---|
| companyNumber          | Input/required   | Company #   |
| operatorInit           | Input/required   | SASO operator for the company specified                               |
| operatorPassword       | Input/optional   | SASO operator password (only required if business rule is set)        |
| t-inputccdata          | Input            | The “Credit Card” collection (NOT used for CenPos)                    |
| t-inputheaderdata      | Input            | The “Order Header” collection   |
| t-inputlinedata        | Input            | The “Order Lines” collection  |
| t-inputheaderextradata | Input            | The “Header Extra” collection   |
| t-inputlineextradata   | Input            | The “Line Extra” collection   |
| t-infieldvalue         | Input            | Collection  |
| errorMessage           | Output           | Error Message – Any error messages will be returned in this parameter |
| t-ordloadhdrdata       | Output           | The “Order Load – Header” collection                                  |
| t-ordloadlinedata      | Output           | The “Order Load – Line” collection                                    |
| t-ordtotdata           | Output           | The “Order Totals” collection   |
| t-ordtotextamt         | Output           | The “Extended Amount” collection                                      |
| t-outfieldvalue        | Output           | Out field list item pairs   |
| t-ordloadhdrfreight    | Output           | Header Freight  |

**Notes:**

When processing an order total, a quote order will be created so that we can get the appropriate order totals. Once those values are found, the quote order is deleted from CSD. The order number used for the quote is the

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last available order number in the warehouse or in the company depending upon how order numbers are assigned. This was done to prevent leaving a hole in the order number sequence where the quote fell.

When processing an order load, a quote order or a stock order can be created. All of the standard validation checks will be run before creating the order.

We will pass back the total invoice amount from the OE order in the Total Order Amount collection field instead of the total ordered amount from the OE order. This is because Storefront uses the Total Order Amount value when displaying the total amount on the Storefront checkout screen.

The following shows the fields that make up the input collections passed into this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

**Input Collection:** t-inputccdata (ONLY used for Versign/PayFlowPro NOT CenPos)

| Field Name            | Data Type          | Data Information   |
|-----------------------|--------------------|--|
| cccustomerid          | Char x(16)         | Credit Card Customer Identification Number – the first four digits are the company number and the last twelve digits are the customer number |
| cccreditcardnbr       | Char x(16)         | Credit Card Number – credit card numbers can vary up to 16 characters  |
| ccpaymenttype         | Char x(2)          | Credit Card Payment Type   |
| cccreditcardexp       | Char x(4)          | Credit Card Expiration Date  |
| cccardholder          | Char x(30)         | Credit Card Holder's Name  |
| cccvv2                | Char x(4)          | Credit Card CVV2   |
| ccaddr1               | Char x(30)         | Credit Card Address 1  |
| ccaddr2               | Char x(30)         | Credit Card Address 2  |
| ccaddr3               | Char x(30)         | Credit Card Address 3  |
| ccaddr4               | Char x(30)         | Credit Card Address 4  |
| cccity                | Char x(20)         | Credit Card City   |
| ccstate               | Char x(2)          | Credit Card State  |
| cczip                 | Char x(10)         | Credit Card Zip Code   |
| cccountr              | Char x(3)          | Credit Card Country  |
| ccponumber            | Char x(22)         | Credit Card Purchase Order Number  |
| ccshiptozip           | Char x(10)         | Credit Card Ship To Zip Code   |
| cctaxamount           | Decimal >>>>>9.99- | Credit Card Tax Amount   |
| ccauthorizationamount | Decimal >>>>>9.99- | Credit Card Authorization Amount   |

if a Credit Card is being used it will ignore any credit holds or hold codes set by default in SASBR.

**Input Collection:** t-inputheaderdata

| Field Name          | Data Type          | Data Information   |
|---------------------|--------------------|--|
| taxamount           | Decimal >>>>>9.99- | NOT USED – system will calculate taxest  |
| authorizationamount | Decimal >>>>>9.99- | Authorization Amount   |
| customerid          | Char x(16)         | Customer Identification Number – the first four digits are the company number and the last twelve digits are the customer number |
| creditcardnbr       | Char x(16)         | NOT USED   |
| paymenttype         | Char x(2)          | Payment Type   |
| creditcardexp       | Char x(4)          | NOT USED   |
| warehouseid         | Char x(4)          | Warehouse  |
| ordersource         | Char x(2)          | Should be blank unless a special order (such as Serviceorder, edi, storeroom, config.is used)                                    |
| revieworderhold     | Char x(2)          | Review Order Hold Code – if not blank, place the order on hold (order load only)   |

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|                    |            |   |
|--------------------|------------|---|
| ponumber           | Char x(22) | Customer Purchase Order Number  |
| ordnumber          | Char x(8)  | NOT USED  |
| workstation        | Char x(2)  | Workstation   |
| billtocontact      | Char x(30) | Bill To Contact   |
| billtocity         | Char x(20) | Bill To City  |
| billtostate        | Char x(30) | Bill To State   |
| billtozip          | Char x(10) | Bill To Zip Code  |
| billtophone        | Char x(20) | Bill To Phone Number  |
| billtophoneext     | Char x(4)  | Bill To Phone Number Extension  |
| carriercode        | Char x(4)  | Carrier Code – Ship Via type  |
| customeraddr1      | Char x(30) | Customer Address 1  |
| customeraddr2      | Char x(30) | Customer Address 2  |
| customeraddr3      | Char x(30) | Customer Address 3  |
| customeraddr4      | Char x(30) | Customer Address 4  |
| contractnumber     | Char x(5)  | Contract Number   |
| customername       | Char x(30) | Customer Name   |
| customercountry    | Char x(3)  | Customer Country  |
| taxexemptcentury   | Char x(2)  | Tax Exempt Century  |
| taxexemptdate      | Char x(10) | Tax Exempt Date YYYY/MM/DD  |
| taxexcertnumber    | x(22)      | Tax Exempt Certificate Number   |
| fobcode            | Char x(5)  | Freight On Board (FOB) Code   |
| reqshipdate        | Char x(10) | Requested Ship Date YYYY/MM/DD  |
| shiptoaddr1        | Char x(30) | updates oeeh.shiptoaddr[1] if shiptonumber is blank   |
| shiptoaddr2        | Char x(30) | updates oeeh.shiptoaddr[2] if shiptonumber is blank   |
| shiptoaddr3        | Char x(30) | updates oeeh.shiptoaddr3 if shiptonumber is blank   |
| shiptoaddr4        | Char x(30) | Not Used  |
| shiptocontact      | Char x(30) | Not used  |
| shiptocity         | Char x(20) | updates oeeh.shiptocity if shiptonumber is blank  |
| shiptocountry      | Char x(3)  | Ship To Country   |
| shiptoname         | Char x(30) | updates oeeh.shiptonm if shiptonumber is blank  |
| shiptonumber       | Char x(8)  | Accesses ARSS table using arss.shipto code  |
| shiptostate        | Char x(2)  | updates oeeh.shiptost if shiptonumber is blank  |
| shiptophone        | Char x(20) | Not used  |
| shiptophoneext     | Char x(4)  | Not used  |
| shiptozip          | Char x(10) | updates oeeh.shiptozip if shiptonumber is blank   |
| webtransactiontype | Char x(3)  | Web Transaction Type:<br>TSF – Order Total(trial order – calculates but does not create an actual order)<br>LSF – Order Load (create order) |
| webprocessid       | Char x(1)  | NOT USED  |
| webtransactionid   | Char x(1)  | Web Transaction Identification – blank  |
| weborderid         | Char x(1)  | Web Order Identification  |
| freightmethod      | Char x(1)  | Freight Method  |
| ordertype          | Char x(1)  | Order Type: (order load only)<br>O – Order<br>Q – Quote   |
| quotereviewdate    | Char x(10) | Quote Review Date – this is the cancel date<br>YYYY/MM/DD   |

## Input Collection: t-inputlinedata

| Field Name | Data Type              | Data Information |
|------------|------------------------|------------------|
| itemnumber | Char x(27)             | Product          |
| orderqty   | Decimal<br>>>>>>9.999- | Order Quantity   |

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|                 |                          |   |
|-----------------|--------------------------|---|
| unitofmeasure   | Char x(3)                | Unit of Measure   |
| warehouseid     | Char x(2)                | Warehouse   |
| lineitemtype    | Char x(2)                | Line Item Type:<br>S = special order<br>C or / = notes on order<br>& = Line comment/notes<br>OR<br>First Character: / - Order Comment<br>& - Line Comment<br>Second Char: X – Print On No Documents<br>P – Print On Pick Ticket Only<br>I – Print On Invoice Only<br>Blank – Print On All Documents |
| itemdesc1       | Char x(31)               | Item Description 1  |
| itemdesc2       | Char x(31)               | Item Description 2  |
| actualsellprice | Decimal<br>>>>>>9.99999- | Actual Sell Price (Set for non-stocks or business rule is required to allow price overrides)  |
| cost            | Decimal<br>>>>>>9.99999- | Cost  |
| nonstockflag    | Char x(1)                | Non Stock Flag – Y or (N or blank)  |
| chargetype      | Char x(1)                | Charge Type:<br>O – Order<br>L – Line<br>Blank – Line   |
| dropship        | Char x(1)                | Drop Ship – Y or N  |
| duedate         | Char x(10)               | Due Date     YYYY/MM/DD   |
| extendedweight  | Decimal<br>>>>>>>9.9999- | Extended Weight   |
| listprice       | Char x(13)               | List Price  |
| itemid          | Integer                  | NOT USED  |

If you want to add an order header note, the line item table is used. The Lineitemtype “c” print on all notes. (there is a space after the letter “c”). “cp” prints on pick notes only. “ci” prints on invoice notes.

```
t-inputlinedata:[{
  "itemdesc1":"xxxx header notes here xxx",
  "itemnumber": "/",
  "lineitemtype" : "c ",
  "seqno": 2}
]
```

If you want to add a line item note, the ItemDescription contains the note. Item number contains “&” LinelItemtype is “cp” to print on pick tickets, “ci” to print on invoices or “ca” for both. Finally the SequenceNumber must match the sequenceNumber of the line item product that has previously been set.

```
t-inputlinedata:[{
  "itemdesc1": "xxxx line notes here xxx",
  "itemnumber" : "&",
  "lineitemtype": "cp",
  "seqno": 1}
]
```



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## Input Collection: t-headextra

| Field Name | Data Type | Data Source |
|------------|-----------|-------------|
| fieldname  | Char      |             |
| fieldvalue | Char      |             |

The t-headextra table is used to set a number of values:

### Addon

```
Headerextradata.fieldname = "addon"
```

```
Headerextradata.fieldvalue = "addonno=2<tab>addonamt=5<tab>addontype=$"
```

In JSON <tab> = "\\t". For example:

```
Headerextradata.fieldvalue = "addonno=2\\taddonamt=5\\taddontype=$"
```

### Whole Order Discounts:

For \$ amount discounts:

```
Headerextradata.fieldname = "discountamt"
```

```
Headerextradata.fieldvalue = "150.00"
```

For percent discounts:

```
Headerextradata.fieldname = "discountpct"
```

```
Headerextradata.fieldvalue = "10.5"
```

For User fields: ( the example below applies to user1 through user24)

```
Headerextradata.fieldname = "user1"
```

```
Headerextradata.fieldvalue = "xxxxxx"
```

Other miscellaneous fieldnames that can be submitted are: contacted, email, route, enterdt, entertm, frtbillacct, frtterms, ordrep1 – ordrep5, placedby, poissdt, promised, ordersource, slsrepout, origincd, termstype, orderdisp, refer, externalordernumber

The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storefront requirements.

## Output Collection: t-ordloadhdrdata

| Field Name       | Data Type           | Data Source   |
|------------------|---------------------|---|
| Message          | Char x(100)         | Message from API  |
| Order Number     | Char x(8)           | Oeeh.orderno  |
| Order Generation | Integer 99          | Oeeh.ordersuf   |
| Completion Code  | Char x(1)           | E – Error<br>1 – Backordered<br>0 – Not Backordered<br>A – Credit Card Approved<br>B – Credit Card does not match payment type<br>C – Credit Card has expired |
| PO Number        | Char x(22)          | Oeeh.custpo   |
| Invoice Amount   | Decimal >>>>>>9.99- | Oeeh.totinvamt  |

## Output Collection: t-ordloadlinedata

| Field Name             | Data Type             | Data Source                      |
|------------------------|-----------------------|----------------------------------|
| Order Number           | Integer >>>>>>9       | Oeel.orderno                     |
| Order Suffix           | Integer 99            | Oeel.ordersuf                    |
| Line Number            | Integer >>9           | Oeel.lineno                      |
| Item Number            | Char x(24)            | Oeel.shipprod                    |
| Description            | Char x(62)            | Oeel.proddesc and oeel.proddesc2 |
| Quantity Ordered       | Decimal >>>>>9.999-   | Oeel.qtyord                      |
| Quantity Shipped       | Decimal >>>>>9.999-   | Oeel.qtyship                     |
| Quantity On Back Order | Decimal >>>>>9.999-   | Oeel.qtyord – oeel.qtyship       |
| Actual Sell Price      | Decimal >>>>>9.99999- | Oeel.price                       |

# ION API Technical Documentation

|                 |                    |             |
|-----------------|--------------------|-------------|
| Line Amount     | Decimal >>>>>9.99- | Oeel.netamt |
| Unit of Measure | Char x(4)          | Oeel.unit   |

## Output Collection: t-ordtotdata

| Field Name                       | Data Type                  | Data Source                       |
|----------------------------------|----------------------------|-----------------------------------|
| Message                          | Char x(100)                | Messages from API                 |
| Sales Amount                     | Decimal >>>>>9.99999-      | oeeh.totlineamt                   |
| Total Special Charges            | Decimal >>>>>9.99999-      | Sum of addon.addonnet             |
| Trade Discount Amount            | Decimal >>>>>9.99999-      | Oeeh.wodiscamt + oeeh.specdiscamt |
| Sales Tax Amount                 | Decimal >>>>>9.99999-      | Oeeh.taxamt[1 – 4]                |
| Federal Excise Amount            | Decimal >>>>>9.99999-      | Zero - not used                   |
| Total Container Charge           | Decimal >>>>>9.99999-      | Zero – not used                   |
| Total Order Value                | Decimal >>>>>9.99999-      | Oeeh.totinvamt                    |
| Total Invoice Amount             | Decimal >>>>>9.99999-      | Oeeh.totinvamt                    |
| Currency Code                    | Char x(2)                  | Oeeh.currencyty                   |
| Credit Card Authorization Amount | Decimal >>>>>9.99999-      | Oeeha.authamt                     |
| Completion Message               | Char x(1)                  | E – Error<br>0 – Successful       |
| Total Order Weight               | Decimal<br>>>>>>>>9.99999- | Oeeh.totweight                    |

## Output Collection: t-ordtotextamt

| Field Name  | Data Type | Data Source   |
|-------------|-----------|---|
| Seqno       | Integer   | Sequence #  |
| Description | Character | Description of the amount                             |
| Amount      | Decimal   | Extended amount                                       |
| Type        | Character | Type of amount:<br>Discount<br>Addon<br>Charge<br>tax |

## Equate Pricing added in 11.19.11

you have the ability to submit coupons and a number of other parameters in the following table:

**t-inputtheadreextradata** for **SFOEOrderTotLoadV4**

| Fieldname      | Fieldvalue   | Description  |
|----------------|--|--|
| Coupon         | Valid coupon codes (comma-delimited)                   | Stored in cart   |
| Associateflag  | yes or true  | Stored in cart   |
| BusinessUnitID | Business unit code or whse code                        | Stored in cart(warehouse)                              |
| unittype       | user defined type code (ie OL-online, RS-retail store) | Stored in cart   |
| unitID         | Deprecated (integer value)                             | Currently using icسد.divno                             |
| currenttotal   | Net sales (total of line sales)                        | Stored in cart (oeeh.totlineord)                       |
| timestamp      | MM/DD/YYYY HH:MM:SS.SSS-HH:MM<br>Date time - time zone | Stored in cart (optional – uses current date time)     |
| cartID         | Valid cart id  | Retrieves existing cart and sets pricing based on cart |

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The above values (except cartID) are used to create a new cartID and will set the order to the price designated by the Equate price system.

If a cartID was previously created and has been submitted, the API will find the cart and set the line items to the price which was set as part of the cart.

# ION API Technical Documentation

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**API Call:** *sxapiSFOEQuoteRelease*

**Purpose:** This procedure will convert a quote order into a stock order.

**Parameters:**

| <i>REST Params</i> | <i>Direction</i> | <i>Description</i>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified                               |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)        |
| orderNumber        | Input            | Order Number  |
| orderSuffix        | Input            | Order Suffix  |
| successFlag        | Output           | Quote Convert Success Flag<br>Y – released<br>N – error               |
| errorMessage       | Output           | Error Message – Any error messages will be returned in this parameter |

**Notes:**

Assumptions we will make when converting the quote are:

- We will not save the existing quote order number
- We will convert the Quote to a Stock Order (SO)
- The order will be for the same customer, ship to, warehouse, customer PO, inside sales rep, outside sales rep and disposition as the quote order
- The order will not be repriced on conversion
- The prices will not be frozen on conversion
- Any notes, line comments, internal comments, external comment and subtotals on the quote will not change when the quote is converted and will appear on the order
- Addons will not be reset
- Sales Manager cost will be recalculated

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## **API Call:** *sxapiSFProductRestriction*

**Purpose:** Indicates that a customer is set up in ARSC or is not. If so, some basic information is returned to Commerce Storefront. This procedure is run from the Storefront Administration screen when a customer is linked to a user during the account setup.

### **Parameters:**

| REST Params               | Direction      | Description   |
|---------------------------|----------------|---|
| companyNumber             | Input/required | Company #   |
| operatorInit              | Input/required | SASO operator for the company specified                               |
| operatorPassword          | Input/optional | SASO operator password (only required if business rule is set)        |
| warehouseNumber           | Input          | Warehouse Number  |
| customerNumber            | Input          | Customer Number   |
| t-inputproductrestriction | Input          | t-inputproductrestriction collection                                  |
| t-infieldvalue            | Input/Optional | t-infieldvalue collection   |
| errorMessage              | Output         | Error Message – Any error messages will be returned in this parameter |
| t-productrestrictiondata  | Output         | t-productrestrictiondata collection                                   |
| t-outfieldvalue           | Output         | t-outfieldvalue collection  |

### **Notes:**

Returns a value of one in the pricing bucket parameter since the first list price should always be loaded for a product.

If there is no ARSC record for this customer number, we will return the valid customer output parameter set to 'no' and return SASSE error message 4303 – Customer # Not Set Up in Customer Setup – ARSC in the output message.

The collections t-infieldvalue and t-outfieldvalue are used to interface specific data back and forth between the calling program and the called program without changing signatures within the calls.

### **Input Collection:** t-inputproductrestriction

| Field Name      | Data Type |
|-----------------|-----------|
| prod            | Char      |
| productname     | Char      |
| itemwhse        | Char      |
| shipdt          | Date      |
| shipto          | Char      |
| shiptocity      | Char      |
| shiptostate     | Char      |
| shiptozip       | Char      |
| shiptocountry   | Char      |
| shiptoterritory | Char      |
| shiptogeocode   | Char      |
| restrictedflag  | Log       |
| userfield       | Char      |

### **Input Collection:** t-infieldvalue (used for custom input)

| Field Name | Data Type |
|------------|-----------|
| Level      | character |
| Lineno     | integer   |
| Seqno      | integer   |
| FieldName  | character |
| FieldValue | character |

### **Output Collection:** t-productrestrictiondata

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| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| prod              | Char             |
| productname       | Char             |
| itemwhse          | Char             |
| shipdt            | Date             |
| shipto            | Char             |
| shiptocity        | Char             |
| shiptostate       | Char             |
| shiptozip         | Char             |
| shiptocountry     | Char             |
| shiptoterritory   | Char             |
| shiptogeocode     | Char             |
| restrictedflag    | Log              |
| userfield         | Char             |

**Output Collection:** t-outfieldvalue (used for custom output)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |
|                   |                  |
|                   |                  |

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**API Call:** *sxapiSFValidateCustomer*

**Purpose:** Indicates that a customer is set up in ARSC or is not. If so, some basic information is returned to Commerce Storefront. This procedure is run from the Storefront Administration screen when a customer is linked to a user during the account setup.

**Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified                                       |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                |
| customerNumber   | Input          | Customer Number   |
| validCustomer    | Output         | Valid Customer<br>Yes – if ARSC record exists<br>No – if no ARSC record found |
| customerName     | Output         | Customer Name – arsc.name   |
| customerClass    | Output         | Customer Class – arsc.custtype  |
| defaultWarehouse | Output         | Default Warehouse – arsc.whse   |
| listPrice        | Output         | Pricing Bucket – one  |
| errorMessage     | Output         | Error Message – Any error messages will be returned in this parameter         |

**Notes:**

Returns a value of one in the pricing bucket parameter since the first list price should always be loaded for a product.

If there is no ARSC record for this customer number, we will return the valid customer output parameter set to 'no' and return SASSE error message 4303 – Customer # Not Set Up in Customer Setup – ARSC in the output message.

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## **API Call:** *sxapiSFValidateCustomerV2*

**Purpose:** Indicates that a customer is set up in ARSC or is not. If so, some basic information is returned to Commerce Storefront. This procedure is run from the Storefront Administration screen when a customer is linked to a user during the account setup.

### **Parameters:**

| REST Params      | Direction      | Description   |
|------------------|----------------|---|
| companyNumber    | Input/required | Company #   |
| operatorInit     | Input/required | SASO operator for the company specified                                       |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)                |
| customerNumber   | Input          | Customer Number   |
| t-infieldvalue   | Input/Optional | t-infieldvalue collection   |
| validFlag        | Output         | Valid Customer<br>Yes – if ARSC record exists<br>No – if no ARSC record found |
| customerName     | Output         | Customer Name – arsc.name   |
| customerClass    | Output         | Customer Class – arsc.custtype  |
| defaultWarehouse | Output         | Default Warehouse – arsc.whse   |
| listPrice        | Output         | Pricing Bucket – one  |
| errorMessage     | Output         | Error Message – Any error messages will be returned in this parameter         |
| t-outfieldvalue  | Output         | t-outfieldvalue collection  |

### **Notes:**

Returns a value of one in the pricing bucket parameter since the first list price should always be loaded for a product.

If there is no ARSC record for this customer number, we will return the valid customer output parameter set to 'no' and return SASSE error message 4303 – Customer # Not Set Up in Customer Setup – ARSC in the output message.

The collections t-infieldvalue and t-outfieldvalue are used to interface specific data back and forth between the calling program and the called program without changing signatures within the calls.

### **Input Collection:** t-infieldvalue (used for custom input)

| Field Name | Data Type |
|------------|-----------|
| Level      | character |
| Lineno     | Integer   |
| Seqno      | Integer   |
| FieldName  | Character |
| FieldValue | Character |

### **Output Collection:** t-outfieldvalue (used for custom output)

| Field Name | Data Type |
|------------|-----------|
| Level      | character |
| Lineno     | Integer   |
| Seqno      | Integer   |
| FieldName  | Character |
| FieldValue | Character |



# ION API Technical Documentation

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**API Call:** ***sxapiShippingInterface***

**Purpose:** The shipping interface enables communications between CSD and a third-party shipping application, such as Logisor. It supports Total Warehouse Logistics (TWL) and CSD (non-TWL) shipments.

To see the details of this API call, please see the **Infor Distribution CSD Shipping Interface Administration Guide**.

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## **API Call:** *sxapiSRAAllowTieCancel*

**Purpose:** Determines if a nonstock tied to a PO can be cancelled.

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>   |
|--------------------|------------------|--|
| companyNumber      | Input/required   | Company #  |
| operatorInit       | Input/required   | SASO operator for the company specified                                |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)         |
| productCode        | Input            | Product  |
| orderType          | Input            | Order Type – “P” – “T” Currently Not Used                              |
| poVendor           | Input            | PO Vendor  |
| wtFromWhse         | Input            | WT From Whse – Currently Not Used                                      |
| tiedRecordsList    | Input            | Tied Records List – Comma Delimited List of tied PO-Suf                |
| t-infieldvalue     | Input/Optional   | t-infieldvalue collection – for user defined input                     |
| allowTieCancel     | Output           | Allow Tie Cancel Flag – Tied PO can be cancelled                       |
| orderedStage       | Output           | Ordered Stage Flag – Tied PO is still in Ordered Stage                 |
| errorMessage       | Output           | Error Message  |
| t-outfieldvalue    | Output/Optional  | The “Out Field” collection – for user defined output – t-outfieldvalue |

**Notes:** Currently only PO type is supported. WT transfer support may be added in the future.

### **Input Collection:** t-infieldvalue (used for custom input)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

### **Output Collection:** t-outfieldvalue (used for custom output)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

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## **API Call:** *sxapiSRCountEntry*

**Purpose:** Update the quantity counted for a product on a cycle count or on a physical count (ICSEP)

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>   |
|--------------------|------------------|--|
| companyNumber      | Input/required   | Company #  |
| operatorInit       | Input/required   | SASO operator for the company specified                        |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set) |
| runNumber          | Input            | Run Number   |
| warehouse          | Input            | Warehouse  |
| productCode        | Input            | Product  |
| binLocation        | Input            | Bin Location   |
| quantityCounted    | Input            | Quantity Counted   |
| inventoryType      | Input            | Inventory Type – Customer owned or distributor owned           |
| t-infieldvalue     | Input/Optional   | t-infieldvalue collection                                      |
| errorMessage       | Output           | Error Message  |
| t-outfieldvalue    | Output/Optional  | t-outfieldvalue collection                                     |

### **Notes:**

This procedure will update the ICSEP count record with data that was entered in the storeroom. The quantity counted field on the ICSEP record will be updated with the value passed in to this procedure and it will load the type of inventory (customer owned inventory or distributor owned inventory) that should be adjusted.

This procedure will only be able to update an existing line on a physical or cycle count. It will not be able to add a new line to an existing count run.

The warehouse passed into this procedure must be a valid warehouse set up in ICSD and it must be set up as storeroom managed.

The run number passed into this procedure must be valid and exist in the input warehouse.

Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the difference. If 10 of a serialized product are expected and 8 are counted, then the net effect is that two serials will be dropped. This could be accomplished by adding one serial and dropping three. This allows for the correcting of an incorrect serial number.

Level – “head”

lineno – zero

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

### Serial Fields

| <b>Fieldname</b> | <b>Fieldvalue</b>                   |
|------------------|-------------------------------------|
| Serial           | Serial #, character x(20), Required |
| Actionty         | “a” add serial or “d” drop serial   |

### Lot Fields

| <b>Fieldname</b> | <b>Fieldvalue</b>                 |
|------------------|-----------------------------------|
| Lot              | Lot #, character x(20), Required  |
| Actionty         | “a” add serial or “d” drop serial |
| Qty              | Lot Quantity, Required            |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the

# ION API Technical Documentation

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t-outfieldvalue collection and the error output parameter will contain "Serial/Lot Errors Exist". It is possible that multiple errors could be generated.

Level – "head"

lineno – zero

seqno – Sequence # from Storeroom

fieldname – "error"

fieldvalue – error message

Example: XXXXXXX Serial Number Already Exists (5858)

The serial/lot records passed in from Storeroom will be saved in the ICSEPS table.

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## API Call: **sxapiSRCreatEOEOrder**

**Purpose:** Create an OE Order for Storeroom Issues and Returns

### Parameters:

| <b>REST Params</b>       | <b>Direction</b> | <b>Description</b>   |
|--------------------------|------------------|--|
| companyNumber            | Input/required   | Company #  |
| operatorInit             | Input/required   | SASO operator for the company specified                                |
| operatorPassword         | Input/optional   | SASO operator password (only required if business rule is set)         |
| t-srinputheaderdata      | Input            | The "Order Header" collection – t-inputheaderdata                      |
| t-srinputlinedata        | Input            | The "Order Lines" collection – t-inputlinedata                         |
| validationOnly           | Input            | Validate Only Flag – logical   |
| t-srinputheaderextradata | Input            | The "Header Extra" collection – t-inputheaderextradata                 |
| t-srinputlineextradata   | Input            | The "Line Extra" collection – t-inputlineextradata                     |
| t-errormsg               | Output           | The "Error Message" collection – t-errormsg                            |
| t-srordloadhdrdata       | Output           | The "Order Load - Header" collection – t-ordloadhdrdata                |
| t-srordloadlinedata      | Output           | The "Order Load - Line" collection – t-ordloadlinedata                 |
| t-outfieldvalue          | Output           | The "Out Field" collection – for user defined output – t-outfieldvalue |

**Notes:** All of the standard validation checks will be run before creating the order. Any errors found will be reported in the "error message" collection and no order will be created. If Validate Only Flag is Y then the order will not be created, if it is no and there are no errors then the order will be created.

The following shows the fields that make up the input collections passed into this SXAPI call and what value is loaded. This data is specific to the Storeroom requirements.

### Input Collection: t-inputheaderdata

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Information</b>  |
|-------------------|------------------|--|
| customerid        | Char x(16)       | Customer Identification Number – the first four digits are the company number and the last twelve digits are the customer number |
| warehouseid       | Char x(4)        | Warehouse  |
| ordersource       | Char x(2)        | Order Source – How was the order entered   |
| ponumber          | Char x(22)       | Customer Purchase Order Number   |
| ordnumber         | Char x(8)        | Order Number   |
| billtocontact     | Char x(30)       | Bill To Contact  |
| billtocity        | Char x(20)       | Bill To City   |
| billtostate       | Char x(30)       | Bill To State  |
| billtozip         | Char x(10)       | Bill To Zip Code   |
| billtophone       | Char x(20)       | Bill To Phone Number   |
| billtophoneext    | Char x(4)        | Bill To Phone Number Extension   |
| Backorder         | Char x(1)        | Back Order – Y or N  |
| carriercode       | Char x(4)        | Carrier Code – Ship Via type   |
| customeraddr1     | Char x(30)       | Customer Address 1   |
| customeraddr2     | Char x(30)       | Customer Address 2   |
| customeraddr3     | Char x(30)       | Customer Address 3   |
| customeraddr4     | Char x(30)       | Customer Address 4   |
| contractnumber    | Char x(5)        | Contract Number  |
| customername      | Char x(30)       | Customer Name  |
| customercountry   | Char x(3)        | Customer Country   |
| shiptoaddr1       | Char x(30)       | Ship To Address 1  |
| shiptoaddr2       | Char x(30)       | Ship To Address 2  |
| shiptoaddr3       | Char x(30)       | Ship To Address 3  |
| shiptoaddr4       | Char x(30)       | Ship To Address 4  |

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|                |                  |   |
|----------------|------------------|---|
| shiptocontact  | Char x(30)       | Ship To Contact   |
| shiptocity     | Char x(20)       | Ship To City  |
| shiptocountry  | Char x(3)        | Ship To Country   |
| shiptoname     | Char x(30)       | Ship To Name  |
| shiptonumber   | Char x(8)        | Ship To Number  |
| shiptostate    | Char x(2)        | Ship To State   |
| shiptophone    | Char x(20)       | Ship To Phone Number  |
| shiptophoneext | Char x(4)        | Ship To Phone Number Extension                                |
| shiptozip      | Char x(10)       | Ship To Zip Code  |
| ordertype      | Char x(1)        | Order Type:<br>O or Blank – SO Order<br>R – RM Order          |
| employeeid     | Integer >>>>>>>9 | Storeroom Employee ID   |
| employeename   | Char x(60)       | Employee Name   |
| department     | Char x(60)       | Department  |
| project        | Char x(60)       | Project   |
| workordernum   | Char x(60)       | Work Order Number   |
| machinenum     | Char x(60)       | Machine Number  |
| notes          | Char x(960)      | Notes – Text to be placed into a note on the order header     |
| srnotesprtl    | Char x(3)        |   |
| pickprtl       | Char x(3)        | Print Price on Pick Ticket, yes, no or blank for ARSC default |

## Input Collection:

t-inputlinedata

| <b>Field Name</b> | <b>Data Type</b>      | <b>Data Information</b>  |
|-------------------|-----------------------|--|
| itemnumber        | Char x(27)            | Product  |
| custitem          | Char x(24)            | Customer Product   |
| orderqty          | Decimal >>>>>>9.999-  | Order Quantity   |
| unitofmeasure     | Char x(3)             | Unit of Measure  |
| unitconv          | Decimal >>>>>9.99999- | Unit Conversion – This field is calculated and populated during the validation process                                       |
| warehouseid       | Char x(4)             | Warehouse  |
| lineitemtype      | Char x(2)             | Line Item Type:<br>Blank – Item (OEEL)<br>I – Internal Standalone Comment (OEELC)<br>E – External Standalone Comment (OEELC) |
| itemdesc1         | Char x(31)            | Item Description 1   |
| itemdesc2         | Char x(31)            | Item Description 2   |
| actualsellprice   | Decimal >>>>>9.99999- | Actual Sell Price  |
| cost              | Decimal >>>>>9.99999- | Cost   |
| nonstockflag      | Char x(1)             | Non Stock Flag – Y or (N or blank)   |
| listprice         | Char x(13)            | List Price   |
| seqno             | Integer >>>9          | Line Item Sequence Number  |
| vendno            | Decimal zzzzzzzzzzz9  | Vendor Number – used for a non-stock item  |
| procline          | Char x(6)             | Product Line – used for a non-stock item   |
| prodcats          | Char x(4)             | Product Category – used for a non-stock item   |
| retorderno        | Integer zzzzzzz9      | Return Order Number – used for RM only   |
| retordersuf       | Integer 99            | Return Order Suffix – used for RM only   |
| retlineno         | Integer >>>9          | Return Order Line # - used for RM only   |
| inventoryty       | Char x(1)             | Inventory Type – C or D – used for RM only   |

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|               |                 |  |
|---------------|-----------------|--|
| comments      | Char x(9060)    | Text for a line item comment or a standalone comment   |
| createpo      | Char x(1)       | Y or N – create PO for non-stock line  |
| backorder     | Char x(1)       | Y or N – line level back order flag  |
| issueqty      | Dec >>>>>>9.99- | Quantity Issued (shipped)  |
| invtypeoverfl | Char x(1)       | Y or N – if Y then force SO inventoryty to specified type                                    |
| taxablefl     | Char x(1)       | Y or N – if Y then the issue line is taxable   |
| nontaxtype    | Char x(2)       | If the taxablefl field is Yes, then a valid non-taxable reason set up in SASTT               |
| copycommentfl | Logical         | Yes or No – If Yes then comments on the issue line should be copied to a tied purchase order |
| reqshipdt     | Date            | Requested ship date for the issue line   |
| promisedt     | Date            | Promised date for the issue line   |
| department    | Char x(60)      | Department   |
| custgln       | Char x(60)      | Customer GL number   |
| chargeno      | Char x(60)      | Charge number  |

**Input Collection:** t-inputheaderextradata

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Information</b> |
|-------------------|------------------|-------------------------|
| fieldname         | Char             | Field name              |
| fieldvalue        | Char             | Field Value             |
| seqno             | Integer          | Sequence Number         |

**Input Collection:** t-inputlineextradata

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Information</b>   |
|-------------------|------------------|---------------------------|
| Fieldname         | Char             | Field name                |
| Fieldvalue        | Char             | Field Value               |
| Lineidentifier    | Integer          | Corresponds to line seqno |
| Seqno             | Integer          | Sequence Number           |

The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storeroom requirements.

**Output Collection:** t-errormsg

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Source</b>  |
|-------------------|------------------|---|
| Error Level       | Char x(1)        | H-header, L-Line, O-Order   |
| Error Type        | Char x(1)        | E-error, W-warning, M-message                                       |
| Line Seqno        | Integer >>>9     | Sequence Number of line item – corresponds to t-inputlinedata.seqno |
| Line Product      | Char x(27)       | Product on Line – corresponds to t-inputlinedata.itemnumber         |
| Field Name        | Char x(24)       | Name of Field in error  |
| Field Value       | Char x(24)       | Value of Field in error   |
| Message Text      | Char x(255)      | Error/Warning Message   |

**Output Collection:** t-ordloadhdrdata

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Source</b> |
|-------------------|------------------|--------------------|
| Order Number      | Integer zzzzzzz8 | Oeeh.orderno       |

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|                      |                        |   |
|----------------------|------------------------|---|
| Order Suffix         | Integer 99             | Oeeh.ordersuf                                       |
| Completion Code      | Char x(1)              | E – Error<br>1 – Backordered<br>0 – Not Backordered |
| Customer PO Number   | Char x(22)             | Oeeh.custpo   |
| Total Invoice Amount | Decimal<br>>>>>>>9.99- | Oeeh.totinvamt                                      |
| Order Type           | Char x(2)              | Oeeh.transtype                                      |

**Output Collection:** t-ordloadlinedata

| <b>Field Name</b>      | <b>Data Type</b>         | <b>Data Source</b>                            |
|------------------------|--------------------------|---|
| Order Number           | Integer >>>>>>9          | Oeel.orderno                                  |
| Order Suffix           | Integer 99               | Oeel.ordersuf                                 |
| Line Number            | Integer >>9              | Oeel.lineno                                   |
| Product                | Char x(24)               | Oeel.shipprod                                 |
| Description            | Char x(62)               | Oeel.proddesc and oeel.proddesc2              |
| Quantity Ordered       | Decimal<br>>>>>>9.999-   | Oeel.qtyord                                   |
| Quantity Shipped       | Decimal<br>>>>>>9.999-   | Oeel.qtyship                                  |
| Quantity On Back Order | Decimal<br>>>>>>9.999-   | Oeel.qtyord – oeel.qtyship                    |
| Actual Sell Price      | Decimal<br>>>>>>9.99999- | Oeel.price                                    |
| Line Amount            | Decimal >>>>>9.99-       | Oeel.netamt                                   |
| Unit of Measure        | Char x(4)                | Oeel.unit                                     |
| Return Flag            | Logical Yes/no           | Oeel.returnfl                                 |
| Line Type              | Char x(1)                | Oeel.specnstype – (N)onstock, (L)ost Business |
| Customer Product       | Char x(24)               | Oeel.reqprod                                  |
| Inventory Type         | Char x(1)                | Oeel.inventoryty – @ustomer or (D)istributor  |
| Seqnoin                | Integer >>>9             | t-srinputlinedata.seqno                       |
| PO Number              | Integer >>>>>>9          | Oeel.orderaltno                               |

**Output Collection:** t-outfieldvalue – used for potential custom output

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Source</b> |
|-------------------|------------------|--------------------|
| Level             | Char             |                    |
| Lineno            | Integer          |                    |
| Seqno             | Integer          |                    |
| Field Name        | Char             |                    |
| Field Value       | Char             |                    |

Serial/Lot Processing – Serial/Lot data will be passed in the t-srinputlineextradata collection and is required for Serial and Lot Products. The serial/lot records must match the quantity shipped or error 5847 will display: Cannot Process, Serial or Lot Numbers Not Fully Allocated/Over Allocated

Lineidentifier – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

Serial Fields

| <b>fieldname</b> | <b>Fieldvalue</b>                   |
|------------------|-------------------------------------|
| Serial           | Serial #, character x(20), Required |



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|            |  |
|------------|--|
| BinLoc     | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment    | Comment, character x(24), Optional   |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Lot        | Lot #, character x(20), Required   |
| Qty        | Lot Quantity, Required   |
| QtyUnav    | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt     | Open Date, mm/dd/yy  |
| ExpireDt   | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-errormsg collection and the error output parameter will contain "Serial/Lot Errors Exist". It is possible that multiple errors could be generated.

The order is created by sxapiOEFULLOrderMaintV6 which uses collection sxt\_line\_extra for the serials and lots. So, the serials and lots must be put into sxt\_line\_extra before making the call. In addition, one line on a Storeroom Issue might turn into two lines on the OE Order – one for customer owned inventory and one for distributor owned. If this happens the serial/lot records must be split between the two lines. If 10 serial/lots are issued and 5 are customer owned and 5 are distributor owned then the first 5 serials passed in will go on the customer line and the next 5 on the distributor. It is possible that a lot will be split between two order lines.

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## **API Call:** *sxapiSRCreatEOOrderV2*

**Purpose:** Create an OE Order for Storeroom Issues and Returns – Version 2

### **Parameters:**

| <b>REST Params</b>       | <b>Direction</b> | <b>Description</b>   |
|--------------------------|------------------|--|
| companyNumber            | Input/required   | Company #  |
| operatorInit             | Input/required   | SASO operator for the company specified                                |
| operatorPassword         | Input/optional   | SASO operator password (only required if business rule is set)         |
| t-srinputheaderdata      | Input            | The “Order Header” collection – t-inputheaderdata                      |
| t-srinputlinedata        | Input            | The “Order Lines” collection – t-inputlinedata                         |
| validationOnly           | Input            | Validate Only Flag – logical   |
| t-srinputheaderextradata | Input            | The “Header Extra” collection – t-inputheaderextradata                 |
| t-srinputheaderextradata | Input            | The “Line Extra” collection – t-inputlineextradata                     |
| t-errormsg               | Output           | The “Error Message” collection – t-errormsg                            |
| t-srordloadhdrdata       | Output           | The “Order Load - Header” collection – t-ordloadhdrdata                |
| t-srordloadlinedataV2    | Output           | The “Order Load - Line” collection – t-ordloadlinedata                 |
| t-outfieldvalue          | Output           | The “Out Field” collection – for user defined output – t-outfieldvalue |

**Notes:** All of the standard validation checks will be run before creating the order. Any errors found will be reported in the “error message” collection and no order will be created. If Validate Only Flag is Y then the order will not be created, if it is no and there are no errors then the order will be created.

The following shows the fields that make up the input collections passed into this SXAPI call and what value is loaded. This data is specific to the Storeroom requirements.

### **Input Collection:** t-inputheaderdata

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Information</b>  |
|-------------------|------------------|--|
| customerid        | Char x(16)       | Customer Identification Number – the first four digits are the company number and the last twelve digits are the customer number |
| warehouseid       | Char x(4)        | Warehouse  |
| ordersource       | Char x(2)        | Order Source – How was the order entered   |
| ponumber          | Char x(22)       | Customer Purchase Order Number   |
| ordnumber         | Char x(8)        | Order Number   |
| billtocontact     | Char x(30)       | Bill To Contact  |
| billtocity        | Char x(20)       | Bill To City   |
| billtostate       | Char x(30)       | Bill To State  |
| billtozip         | Char x(10)       | Bill To Zip Code   |
| billtophone       | Char x(20)       | Bill To Phone Number   |
| billtophoneext    | Char x(4)        | Bill To Phone Number Extension   |
| Backorder         | Char x(1)        | Back Order – Y or N  |
| carriercode       | Char x(4)        | Carrier Code – Ship Via type   |
| customeraddr1     | Char x(30)       | Customer Address 1   |
| customeraddr2     | Char x(30)       | Customer Address 2   |
| customeraddr3     | Char x(30)       | Customer Address 3   |
| customeraddr4     | Char x(30)       | Customer Address 4   |
| contractnumber    | Char x(5)        | Contract Number  |
| customername      | Char x(30)       | Customer Name  |
| customercountry   | Char x(3)        | Customer Country   |
| shiptoaddr1       | Char x(30)       | Ship To Address 1  |

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|                |                  |   |
|----------------|------------------|---|
| shiptoaddr2    | Char x(30)       | Ship To Address 2   |
| shiptoaddr3    | Char x(30)       | Ship To Address 3   |
| shiptoaddr4    | Char x(30)       | Ship To Address 4   |
| shiptocontact  | Char x(30)       | Ship To Contact   |
| shiptocity     | Char x(20)       | Ship To City  |
| shiptocountry  | Char x(3)        | Ship To Country   |
| shiptoname     | Char x(30)       | Ship To Name  |
| shiptonumber   | Char x(8)        | Ship To Number  |
| shiptostate    | Char x(2)        | Ship To State   |
| shiptophone    | Char x(20)       | Ship To Phone Number  |
| shiptophoneext | Char x(4)        | Ship To Phone Number Extension                                |
| shiptozip      | Char x(10)       | Ship To Zip Code  |
| ordertype      | Char x(1)        | Order Type:<br>O or Blank – SO Order<br>R – RM Order          |
| employeeid     | Integer >>>>>>>9 | Storeroom Employee ID   |
| employeename   | Char x(60)       | Employee Name   |
| department     | Char x(60)       | Department  |
| project        | Char x(60)       | Project   |
| workordernum   | Char x(60)       | Work Order Number   |
| machinenum     | Char x(60)       | Machine Number  |
| notes          | Char x(960)      | Notes – Text to be placed into a note on the order header     |
| srnotesprtl    | Char x(3)        |   |
| pickprtl       | Char x(3)        | Print Price on Pick Ticket, yes, no or blank for ARSC default |

**Input Collection:** t-inputlinedata

| <b>Field Name</b> | <b>Data Type</b>      | <b>Data Information</b>  |
|-------------------|-----------------------|--|
| itemnumber        | Char x(27)            | Product  |
| custitem          | Char x(24)            | Customer Product   |
| orderqty          | Decimal >>>>>>9.999-  | Order Quantity   |
| unitofmeasure     | Char x(3)             | Unit of Measure  |
| unitconv          | Decimal >>>>>9.99999- | Unit Conversion – This field is calculated and populated during the validation process                                       |
| warehouseid       | Char x(4)             | Warehouse  |
| lineitemtype      | Char x(2)             | Line Item Type:<br>Blank – Item (OEEL)<br>I – Internal Standalone Comment (OEELC)<br>E – External Standalone Comment (OEELC) |
| itemdesc1         | Char x(31)            | Item Description 1   |
| itemdesc2         | Char x(31)            | Item Description 2   |
| actualsellprice   | Decimal >>>>>9.99999- | Actual Sell Price  |
| cost              | Decimal >>>>>9.99999- | Cost   |
| nonstockflag      | Char x(1)             | Non Stock Flag – Y or (N or blank)   |
| listprice         | Char x(13)            | List Price   |
| seqno             | Integer >>>9          | Line Item Sequence Number  |
| vendno            | Decimal zzzzzzzzzzz9  | Vendor Number – used for a non-stock item  |
| prodline          | Char x(6)             | Product Line – used for a non-stock item   |
| prodcats          | Char x(4)             | Product Category – used for a non-stock item   |
| retorderno        | Integer zzzzzzz9      | Return Order Number – used for RM only   |

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|               |                |  |
|---------------|----------------|--|
| retordersuf   | Integer 99     | Return Order Suffix – used for RM only   |
| retlineno     | Integer >>>9   | Return Order Line # - used for RM only   |
| inventoryty   | Char x(1)      | Inventory Type – C or D – used for RM only   |
| rethereason   | Char x(4)      | SASTT Return Reason  |
| comments      | Char x(960)    | Text for a line item comment or a standalone comment   |
| createpo      | Char x(1)      | Y or N – create PO for non-stock line  |
| backorder     | Char x(1)      | Y or N – line level back order flag  |
| issueqty      | Dec >>>>>9.99- | Quantity Issued (shipped)  |
| invtypeoverfl | Char x(1)      | Y or N – if Y then force SO inventoryty to specified type                                    |
| taxablefl     | Logical        | Yes or No – if Yes then the issue line is taxable  |
| nontaxtype    | Char x(2)      | If the taxablefl field is Yes, then a valid non-taxable reason set up in SASTT               |
| copycommentfl | Logical        | Yes or No – If Yes then comments on the issue line should be copied to a tied purchase order |
| reqshipdt     | Date           | Requested ship date for the issue line   |
| promisedt     | Date           | Promised date for the issue line   |
| department    | Char x(60)     | Department   |
| custgln       | Char x(60)     | Customer GL number   |
| chargeno      | Char x(60)     | Charge number  |
| laspricepd    | Dec            | Last Price Paid  |
| origdt        | Date           | Origination Date   |
| approvedt     | Date           | Approval Date  |

**Input Collection:** t-inputheaderextradata

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Information</b> |
|-------------------|------------------|-------------------------|
| fieldname         | Char             | Field name              |
| fieldvalue        | Char             | Field Value             |
| seqno             | Integer          | Sequence Number         |

**Input Collection:** t-inputlineextradata

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Information</b>   |
|-------------------|------------------|---------------------------|
| Fieldname         | Char             | Field name                |
| Fieldvalue        | Char             | Field Value               |
| Lineidentifier    | Integer          | Corresponds to line seqno |
| Seqno             | Integer          | Sequence Number           |

The following shows the fields that make up the output collections returned from this SXAPI call and what value is loaded. This data is specific to the Storeroom requirements.

**Output Collection:** t-errormsg

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Source</b>  |
|-------------------|------------------|---|
| Error Level       | Char x(1)        | H-header, L-Line, O-Order   |
| Error Type        | Char x(1)        | E-error, W-warning, M-message                                       |
| Line Seqno        | Integer >>>9     | Sequence Number of line item – corresponds to t-inputlinedata.seqno |
| Line Product      | Char x(27)       | Product on Line – corresponds to t-inputlinedata.itemnumber         |

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|              |             |                         |
|--------------|-------------|-------------------------|
| Field Name   | Char x(24)  | Name of Field in error  |
| Field Value  | Char x(24)  | Value of Field in error |
| Message Text | Char x(255) | Error/Warning Message   |

**Output Collection:** t-ordloadhdrdata

| <b>Field Name</b>    | <b>Data Type</b>       | <b>Data Source</b>                                  |
|----------------------|------------------------|---|
| Order Number         | Integer zzzzzzz8       | Oeeh.orderno  |
| Order Suffix         | Integer 99             | Oeeh.ordersuf                                       |
| Completion Code      | Char x(1)              | E – Error<br>1 – Backordered<br>0 – Not Backordered |
| Customer PO Number   | Char x(22)             | Oeeh.custpo   |
| Total Invoice Amount | Decimal<br>>>>>>>9.99- | Oeeh.totinvamt                                      |
| Order Type           | Char x(2)              | Oeeh.transtype                                      |

**Output Collection:** t-ordloadlinedata

| <b>Field Name</b>      | <b>Data Type</b>         | <b>Data Source</b>                            |
|------------------------|--------------------------|---|
| Order Number           | Integer >>>>>>9          | Oeel.orderno                                  |
| Order Suffix           | Integer 99               | Oeel.ordersuf                                 |
| Line Number            | Integer >>9              | Oeel.lineno                                   |
| Product                | Char x(24)               | Oeel.shipprod                                 |
| Description            | Char x(62)               | Oeel.proddesc and oeel.proddesc2              |
| Quantity Ordered       | Decimal<br>>>>>>9.999-   | Oeel.qtyord                                   |
| Quantity Shipped       | Decimal<br>>>>>>9.999-   | Oeel.qtyship                                  |
| Quantity On Back Order | Decimal<br>>>>>>9.999-   | Oeel.qtyord – oeel.qtyship                    |
| Actual Sell Price      | Decimal<br>>>>>>9.99999- | Oeel.price                                    |
| Line Amount            | Decimal >>>>>9.99-       | Oeel.netamt                                   |
| Unit of Measure        | Char x(4)                | Oeel.unit                                     |
| Return Flag            | Logical Yes/no           | Oeel.returnfl                                 |
| Line Type              | Char x(1)                | Oeel.specnstype – (N)onstock, (L)ost Business |
| Customer Product       | Char x(24)               | Oeel.reqprod                                  |
| Inventory Type         | Char x(1)                | Oeel.inventoryty – @ustomer or (D)istributor  |
| Seqno                  | Integer >>>9             | t-srinputlinedata.seqno                       |
| PO Number              | Integer >>>>>>9          | Oeel.orderaltno                               |
| WT Number              | Integer >>>>>>9          | Oeel.orderaltno                               |

**Output Collection:** t-outfieldvalue – used for potential custom output

| <b>Field Name</b> | <b>Data Type</b> | <b>Data Source</b> |
|-------------------|------------------|--------------------|
| Level             | Char             |                    |
| Lineno            | Integer          |                    |
| Seqno             | Integer          |                    |
| Field Name        | Char             |                    |
| Field Value       | Char             |                    |

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Serial/Lot Processing – Serial/Lot data will be passed in the t-srinputlineextradata collection and is required for Serial and Lot Products. The serial/lot records must match the quantity shipped or error 5847 will display: Cannot Process, Serial or Lot Numbers Not Fully Allocated/Over Allocated

Lineidentifier – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

## Serial Fields

| fieldname  | Fieldvalue   |
|------------|--|
| Serial     | Serial #, character x(20), Required  |
| BinLoc     | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment    | Comment, character x(24), Optional   |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Lot        | Lot #, character x(20), Required   |
| Qty        | Lot Quantity, Required   |
| QtyUnav    | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt     | Open Date, mm/dd/yy  |
| ExpireDt   | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-errormsg collection and the error output parameter will contain “Serial/Lot Errors Exist”. It is possible that multiple errors could be generated.

The order is created by sxapiOEFULLOrderMaintV6 which uses array inlineextra for the serials and lots. So, the serials and lots must be put into inlineextra before making the call. In addition, one line on a Storeroom Issue might turn into two lines on the OE Order – one for customer owned inventory and one for distributor owned. If this happens the serial/lot records must be split between the two lines. If 10 serial/lots are issued and 5 are customer owned and 5 are distributor owned then the first 5 serials passed in will go on the customer line and the next 5 on the distributor. It is possible that a lot will be split between two order lines.

# ION API Technical Documentation

## **API Call:** *sxapiSRDeleteCount*

**Purpose:** Delete Cycle Count Runs from Storeroom

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>   |
|--------------------|------------------|--|
| companyNumber      | Input/required   | Company #  |
| operatorInit       | Input/required   | SASO operator for the company specified                                |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)         |
| warehouse          | Input            | Warehouse  |
| runNumber          | Input            | Run Number   |
| t-infieldvalue     | Input/Optional   | t-infieldvalue collection – for user defined input                     |
| errorMessage       | Output           | Error Message  |
| t-outfieldvalue    | Output/Optional  | The “Out Field” collection – for user defined output – t-outfieldvalue |

**Notes:** This procedure uses SubmitReportV2 to run ICEPU for the passed whse/run# with option 3 (Update) set to NO and option 4 (Remove) set to YES.

Output will be sent to the Storeroom Printer set up on the ICSD Storeroom Tab.

User must have level 3 or higher security for ICEPU.

Warehouse must be a Storeroom Managed Warehouse and user must be allowed to access the warehouse. The specified run number must exist in the warehouse.

### **Input Collection:** t-infieldvalue (used for custom input)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

### **Output Collection:** t-outfieldvalue (used for custom output)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

# ION API Technical Documentation

## **API Call:** *sxapiSREditICSerLotList*

**Purpose:** Edits a list of Serial/Lots for Storeroom Inventory Functions: Inventory Adjust, Available Adjust, Unavailable Adjust, Inventory Transfer and Count

### **Parameters:**

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                                |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)         |
| type                 | Type           | Transfer, Unavail, Avail, Adjust or Count                              |
| t-srreditlist        | Input          | t-srreditlist  |
| t-infieldvalue       | Input          | t-infieldvalue   |
| t-list-outeditserlot | Output         | t-list-outeditserlot   |
| t-outfieldvalue      | Output         | t-outfieldvalue  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter. |
| successFlag          | Output         | SuccessFI – Yes if no Errors found                                     |

**Notes:** Types are: Transfer – Inventory Transfer, Unavail – To Unavailable from Unavailable, Avail – To Available from Unavailable, Adjust – Inventory Adjustment, Count – Count

Actiontype – Needed for Adjustment/Count only: a = Increase/Add, anything else is Decrease/Delete

Unavailtype – Needed for Count only: u = unavailable, anything else is available

Quantity – Will always be positive (use actiontype for Adjust and Count)

Reasonunavty – for Avail Lots (Unavailable to Available) to verify quantity

Serial/Lot List Input collection (t-srreditlist)

| Field Name   | Data Type |                   |
|--------------|-----------|-------------------|
| Serlotty     | char      | required: S or L  |
| Prod         | char      | required          |
| Whse         | char      | required          |
| Serlotno     | char      | required          |
| Lineno       | integer   | required          |
| Quantity     | decimal   | required for lots |
| Actiontype   | char      |                   |
| Unavailtype  | char      |                   |
| Reasonunavty | char      |                   |

Serial/Lot List Output collection (t-list-outeditserlot)

| Field Name | Data Type     |
|------------|---------------|
| Serlotno   | char          |
| Lineno     | integer       |
| Prod       | Product       |
| Errmess    | Error Message |

IN – Inventory Transfer (IN Transaction)

| Serial at Sale | Serial at Receiving   | Lots  |
|----------------|---|---|
| Not allowed    | Serial # Not Set Up – ICSES (4622)<br>Serial Number Not Available for Sale (5856) | Lot # Not Set Up – ICSEL (5623)<br>Lot is Not Active (4626)<br>Quantity Cannot Exceed Amount In This Lot (5864) |

IN – Available to Unavailable (UN Transaction)

| Serial at Sale | Serial at Receiving | Lots |
|----------------|---------------------|------|
|----------------|---------------------|------|



# ION API Technical Documentation

|             |  |   |
|-------------|--|---|
| Not allowed | Serial # Not Set Up – ICSES (4622)<br>Serial Number Must be Available to Make Unavailable (5863) | Lot # Not Set Up – ICSEL (5623)<br>Lot is Not Active (4626)<br>Quantity Cannot Exceed Amount In This Lot (5864) |
|-------------|--|---|

IN – Unavailable to Available (UN Transaction)

| Serial at Sale | Serial at Receiving   | Lots   |
|----------------|---|--|
| Not allowed    | Serial # Not Set Up – ICSES (4622)<br>Serial Number Must be Unavailable to Return to Stock (5862) | Lot # Not Set Up – ICSEL (5623)<br>Reason Unavailable Not Set Up in System Table - SASTT (4027)<br>Qty Cannot be > Unavailable Qty for the Reason Unavailable Type Selected (6540) |

IN – Positive Adjust/Count (SA Transaction)

| Serial at Sale | Serial at Receiving   | Lots  |
|----------------|---|---|
| Not allowed    | Serial# Already Exists (5858)<br>Adjusting On Hand Inventory - Serial Must Not Be Unavailable (6712)<br>Adjusting Unavailable Inventory - Serial Must Be Unavailable (6711) | No editing – If lot exists it will be updated, if lot doesn't exist it will be created. |

IN – Negative Adjust/Count (SA Transaction)

| Serial at Sale | Serial at Receiving   | Lots   |
|----------------|---|--|
| Not allowed    | Serial Number Not Available for Sale (5856)<br>Adjusting On Hand Inventory - Serial Must Not Be Unavailable (6712)<br>Adjusting Unavailable Inventory - Serial Must Be Unavailable (6711) | Cannot Reduce Lot Quantity Below Zero - Not Enough Product Avail in Lot (4751)<br>Cannot Reduce Lot Quantity Below Zero - Not Enough Unavail Product in Lot (4917) |

# ION API Technical Documentation

## **API Call:** *sxapiSRGetItemBackOrderData*

**Purpose:** Returns line item information for any Open (stage 1 or 2) back orders for a specified product.

### **Parameters:**

| <b>REST Params</b>   | <b>Direction</b> | <b>Description</b>   |
|----------------------|------------------|--|
| companyNumber        | Input/required   | Company #  |
| operatorInit         | Input/required   | SASO operator for the company specified                                |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)         |
| productCode          | Input            | Product  |
| warehouse            | Input            | Warehouse  |
| recordLimit          | Input            | Record Limit (optional 0 = all records)                                |
| t-infieldvalue       | Input/Optional   | t-infieldvalue collection – for user defined input                     |
| ttBOList             | Output           | The “Backorder” collection – ttBOList                                  |
| errorMessage         | Output           | Error Message  |
| moreRecordsAvailable | Output           | More Records Exist   |
| t-outfieldvalue      | Output/Optional  | The “Out Field” collection – for user defined output – t-outfieldvalue |

**Notes:** Like OEIO with the Back Order Only Flag Checked. Runs sxapiOEGetListOfOrders. All security and error checking is handled within this call.

### **Output Collection:** ttBOList

| <b>Field Name</b> | <b>Data Type</b>    | <b>Data Source</b>                             |
|-------------------|---------------------|--|
| Order Number      | Integer zzzzzzz9    | oeeh.orderno                                   |
| Order Suffix      | Integer 99          | oeeh.ordersuf                                  |
| Line Number       | Integer zz9         | oeel.lineno                                    |
| Quantity Ordered  | Decimal zzzzzzz9.99 | oeel.qtyship or oeel.qtyord depending on stage |
| Unit              | x(4)                | oeel.unit                                      |
| Enter Date        | 99/99/99            | oeeh.enterdt                                   |
| Extended Price    | zzzzzzzz9.99        | oeel.netamt or oeel.netord depending on stage  |
| User1             | x(78)               | for future expansion                           |
| User2             | x(78)               | for future expansion                           |
| User3             | x(78)               | for future expansion                           |
| User4             | x(78)               | for future expansion                           |
| User5             | x(78)               | for future expansion                           |
| User6             | zzzzzzzz9.99999-    | for future expansion                           |
| User7             | zzzzzzzz9.99999-    | for future expansion                           |
| User8             | 99/99/99            | for future expansion                           |
| User9             | 99/99/99            | for future expansion                           |

### **Input Collection:** t-infieldvalue (used for custom input)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

### **Output Collection:** t-outfieldvalue (used for custom output)

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |

# ION API Technical Documentation

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|            |           |
|------------|-----------|
| FieldName  | Character |
| FieldValue | Character |

# ION API Technical Documentation

## **API Call:** *sxapiSRGetDefaultPoWtShipVia*

**Purpose:** Get Default PO/WT Line Tie ShipVia

### **Parameters:**

| <b>REST Params</b>        | <b>Direction</b> | <b>Description</b>  |
|---------------------------|------------------|---|
| companyNumber             | Input/required   | Company #   |
| operatorInit              | Input/required   | SASO operator for the company specified                                   |
| operatorPassword          | Input/optional   | SASO operator password (only required if business rule is set)            |
| warehouse                 | Input            | pv-whse   |
| orderType                 | Input            | pv-OrderType  |
| purchaseOrderVendorNumber | Input            | pv-POVendor   |
| transferFromWarehouse     | Input            | pv-WTFromWhse   |
| t-infieldvalue            | Input            | t-infieldvalue collection – for user defined input                        |
| defaultShipVia            | Output           | pv-DefShipVia   |
| defaultShipViaDescription | Output           | pv-DefShipViaDesc   |
| errorMessage              | Output           | pv-retnerrormess  |
| t-outfieldvalue           | Output           | The “Out Field” collection – for user defined output –<br>t-outfieldvalue |

This call returns the default ShipVia and ShipVia Description based on the warehouse and order type of “P”urchase Order or Warehouse “T”ransfer. For a “P” type order the POVendor is necessary and for a “T” type order the WTFromWhse is necessary.

### **Input Collection:** t-infieldvalue

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

### **Output Collection:** t-outfieldvalue

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

# ION API Technical Documentation

## **API Call:** *sxapiSRGetDefaultPrinters*

**Purpose:** Get Default SR Printer and SR Printer Group List

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>   |
|--------------------|------------------|--|
| companyNumber      | Input/required   | Company #  |
| operatorInit       | Input/required   | SASO operator for the company specified                                |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)         |
| warehouse          | Input            | pv-whse  |
| erpOperator        | Input            | pv-ERPOper   |
| t-infieldvalue     | Input            | t-infieldvalue collection – for user defined input                     |
| defaultSRPrinter   | Output           | pv-DefSrPrinter  |
| errorMessage       | Output           | pv-retnerrormess   |
| t-codeLstV2        | Output           | t-codelstV2 collection – for a list of printers                        |
| t-outfieldvalue    | Output           | The “Out Field” collection – for user defined output – t-outfieldvalue |

This call returns the default Storeroom Printer and possibly a list of printers that belong to the SR printer group for the user or SR warehouse.

### **Input Collection:** t-infieldvalue

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

### **Output Collection:** t-outfieldvalue

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

# ION API Technical Documentation

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**API Call:** *sxapiSRGetDefaultRestockData*

**Purpose:** Returns restock fee type and amount.

**Parameters:**

| <i><b>REST Params</b></i> | <i><b>Direction</b></i> | <i><b>Description</b></i>  |
|---------------------------|-------------------------|--|
| companyNumber             | Input/required          | Company #  |
| operatorInit              | Input/required          | SASO operator for the company specified                                |
| operatorPassword          | Input/optional          | SASO operator password (only required if business rule is set)         |
| t-infieldvalue            | Input/Optional          | t-infieldvalue collection – for user defined input                     |
| restockType               | Output                  | Restock Type C)urrency or P)ercent                                     |
| restockAmount             | Output                  | Restock Amount   |
| restockNOPOType           | Output                  | Restock No PO Type C)urrency or P)ercent                               |
| restockNOPOAmount         | Output                  | Restock No PO Amount   |
| errorMessage              | Output                  | Error Message  |
| t-outfieldvalue           | Output/Optional         | The “Out Field” collection – for user defined output – t-outfieldvalue |

This call is dependent on the Storeroom setup of these API business rules:

Storeroom Default Return Reason Code

Storeroom Default Return Reason Code when no PO

If these records exist then the RuleValue will point to a SASTT setup for Return/Adjust Reason. The Return/Adjust Reason (Additional Information) Restock Charge and Restock Type will be returned for each type properly setup and assigned.

**Input Collection:** t-infieldvalue

| <i><b>Field Name</b></i> | <i><b>Data Type</b></i> |
|--------------------------|-------------------------|
| Level                    | character               |
| Lineno                   | Integer                 |
| Seqno                    | Integer                 |
| FieldName                | Character               |
| FieldValue               | Character               |

**Output Collection:** t-outfieldvalue

| <i><b>Field Name</b></i> | <i><b>Data Type</b></i> |
|--------------------------|-------------------------|
| Level                    | character               |
| Lineno                   | Integer                 |
| Seqno                    | Integer                 |
| FieldName                | Character               |
| FieldValue               | Character               |

# ION API Technical Documentation

## API Call: *sxapiSRGetItemTransData*

**Purpose:** Returns line item information for any item transactions for specified product and warehouse.

### Parameters:

| <i>REST Params</i>   | <i>Direction</i> | <i>Description</i>   |
|----------------------|------------------|--|
| companyNumber        | Input/required   | Company #  |
| operatorInit         | Input/required   | SASO operator for the company specified                                |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)         |
| productCode          | Input            | Product  |
| warehouse            | Input            | Warehouse  |
| beginningPostingDate | Input            | Beginning Post Date  |
| endingPostingDate    | Input            | Ending Post Date   |
| transactionType      | Input            | Transaction Type – a single type or blank for all                      |
| inventoryType        | Input            | Inventory Type – (C)ustomer Owned, (D)istributor Owned or (B)oth       |
| recordLimit          | Input            | Record Limit (optional 0 = all records)                                |
| t-infieldvalue       | Input/Optional   | t-infieldvalue collection – for user defined input                     |
| errorMessage         | Output           | Error Message  |
| moreRecordsAvailable | Output           | More Records Exist   |
| t-outfieldvalue      | Output/Optional  | The “Out Field” collection – for user defined output – t-outfieldvalue |
| ttlItemTransData     | Output           | The “Item Transaction” collection – ttlitemtransdata                   |

**Notes:** Like ICIP. Runs *sxapiSRGetItemTransData*. All security and error checking is handled within this call.

### Output Collection: t-outfieldvalue

| <i>Field Name</i> | <i>Data Type</i> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

### Output Collection: ttlItemTransData

| <i>Field Name</i> | <i>Data Type</i> | <i>Data Source</i>           |
|-------------------|------------------|------------------------------|
| Order Number      | Integer zzzzzzz9 | lcet and/or icetc orderno    |
| Order Suffix      | Integer 99       | lcet and/or icetc ordersuf   |
| Trans Type        | x(2)             | lcet and/or icetc transty    |
| Sign              | X(1)             | “+” or “-”                   |
| Stock Qty Ship    | >>>>>>9.99-      | lcet and/or icetc stkqtyship |
| Post Date         | 99/99/99         | lcet and/or icetc postdt     |
| Inventory type    | X(1)             | “C” or “D”                   |
| User1             | x(78)            | for future expansion         |
| User2             | x(78)            | for future expansion         |
| User3             | x(78)            | for future expansion         |
| User4             | x(78)            | for future expansion         |
| User5             | x(78)            | for future expansion         |
| User6             | zzzzzzzz9.99999- | for future expansion         |
| User7             | zzzzzzzz9.99999- | for future expansion         |
| User8             | 99/99/99         | for future expansion         |
| User9             | 99/99/99         | for future expansion         |

# ION API Technical Documentation

## **API Call:** *sxapiSRGetNonStockPrice*

**Purpose:** Calculate the price of a non-stock line from the cost entered. CSD can calculate a price for a nonstock based on the Price Type, Vendor/Product Line or Product Category. If this price is a percent of cost and the cost is known, the price will be calculated.

### **Parameters:**

| <i>REST Params</i> | <i>Direction</i> | <i>Description</i>   |
|--------------------|------------------|--|
| companyNumber      | Input/required   | Company #  |
| operatorInit       | Input/required   | SASO operator for the company specified  |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)   |
| customerNumber     | Input/Required   | Customer   |
| shipTo             | Input/Optional   | Shipto   |
| warehouse          | Input/Required   | Warehouse  |
| productCode        | Input/Optional   | Product – required to run pricing by product   |
| productCost        | Input/Optional   | Product Cost – will only be used if a pricing record is found based on the cost  |
| productCategory    | Input/Optional   | Product Category – if blank then use ICSD default nonstock product category or SASC default nonstock product category. |
| vendorNumber       | Input/Optional   | Vendor – if entered, a product line is required  |
| productLine        | Input/Optional   | Product Line – required if a vendor number is entered  |
| priceType          | Input/Optional   | Product Price Type   |
| t-infieldvalue     | Input/Optional   | t-infieldvalue collection – for user defined input   |
| errorMessage       | Output           | Error Message  |
| price              | Output           | Price  |
| extendedPrice      | Output           | Extended Price   |
| t-outfieldvalue    | Output/Optional  | The “Out Field” collection – for user defined output – t-outfieldvalue   |

**Notes:** All products will be treated as pure nonstocks. No defaults will be loaded from ICSP/ICSW or ICSC before the price is calculated.

### **Output Collection:** t-outfieldvalue

| <i>Field Name</i> | <i>Data Type</i> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |



# ION API Technical Documentation

## API Call: **sxapiSRGetOpenPOWTData**

**Purpose:** Returns line information for any Open Purchase Orders and Warehouse Transfers for a specified product. This inquiry will provided for users who are looking for when a product will be coming into the warehouse.

### Parameters:

| <b>REST Params</b>   | <b>Direction</b> | <b>Description</b>   |
|----------------------|------------------|--|
| companyNumber        | Input/required   | Company #  |
| operatorInit         | Input/required   | SASO operator for the company specified                                |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set)         |
| productCode          | Input            | Product  |
| warehouse            | Input            | Warehouse  |
| recordLimit          | Input            | Record Limit (optional 0 = all records)                                |
| t-infieldvalue       | Input/Optional   | t-infieldvalue collection – for user defined input                     |
| ttOpenPOWTList       | Output           | The “Open PO/WT” collection – ttOpenPOWTList                           |
| errorMessage         | Output           | Error Message  |
| moreRecordsAvailable | Output           | More Records Exist   |
| t-outfieldvalue      | Output/Optional  | The “Out Field” collection – for user defined output – t-outfieldvalue |

**Notes:** Runs sxapiPOGetListOfOrders and sxapiWTGetListOfOrders. All security and error checking is handled within these calls. Price will be returned as zero if user does not have security to see costs.

### Output Collection: ttOpenPOWTList

| <b>Field Name</b> | <b>Data Type</b>     | <b>Data Source</b>   |
|-------------------|----------------------|--|
| Transtype         | X(2)                 | PO or WT   |
| Order Number      | Integer zzzzzzz9     | PO number or WT number   |
| Order Suffix      | Integer 99           | PO suffix or WT suffix   |
| Line Number       | Integer zz9          | Line Number  |
| Quantity Ordered  | Decimal zzzzzzz9.99- | poel.stkqtyship or wtel.stkqtyord / wtel.stkqtyship depending on stage       |
| Price             | zzzzzzzz9.99         | poel.netamt or wtel.netord/wtel.netamt depending on stage (if seecost = yes) |
| Enter Date        | 99/99/99             | Enter Date from PO or WT   |
| Ship From Whse    | zzzzzzzz9.99         | Ship From Whse (WT Only)   |
| Vendor Number     | zzzzzzzzzz9          | Vendor Number (PO Only)  |
| Vendor Name       | X(30)                | Vendor Name (PO Only)  |
| User1             | x(78)                | for future expansion   |
| User2             | x(78)                | for future expansion   |
| User3             | x(78)                | for future expansion   |
| User4             | x(78)                | for future expansion   |
| User5             | x(78)                | for future expansion   |
| User6             | zzzzzzzz9.99999-     | for future expansion   |
| User7             | zzzzzzzz9.99999-     | for future expansion   |
| User8             | 99/99/99             | for future expansion   |
| User9             | 99/99/99             | for future expansion   |

### Input Collection: t-infieldvalue

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |

# ION API Technical Documentation

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|            |           |
|------------|-----------|
| FieldValue | Character |
|------------|-----------|

**Output Collection:** t-outfieldvalue

| <i>Field Name</i> | <i>Data Type</i> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

# ION API Technical Documentation

## **API Call:** *sxapiSRGetReturnOrderLines*

**Purpose:** Returns a list of OE Orders a Product can be returned against.

### **Parameters:**

| <i>REST Params</i>  | <i>Direction</i> | <i>Description</i>  |
|---------------------|------------------|---|
| companyNumber       | Input/required   | Company #   |
| operatorInit        | Input/required   | SASO operator for the company specified                                   |
| operatorPassword    | Input/optional   | SASO operator password (only required if business rule is set)            |
| orderNumber         | Input            | Order #   |
| orderSuffix         | Input            | Order Suffix  |
| customerNumber      | Input            | Customer #  |
| shipTo              | Input            | Ship To   |
| warehouse           | Input            | Warehouse   |
| productCode         | Input            | Product   |
| specialNonstockType | Input            | Spec NS Type  |
| inventoryType       | Input            | Inventory Type  |
| recordLimit         | Input            | Record Limit (optional 0 = all records)                                   |
| t-infieldvalue      | Input/Optional   | t-infieldvalue collection – for user defined input                        |
| errorMessage        | Output           | Error Message   |
| moreRecordsFlag     | Output           | More Records Exist  |
| t-oertnord          | Output           | The Return Order Lines collection t-oertnord                              |
| t-outfieldvalue     | Output/Optional  | The “Out Field” collection – for user defined output –<br>t-outfieldvalue |

### **Output Collection:** t-oertnord

| <i>Field Name</i> | <i>Data Type</i>    | <i>Data Source</i>                            |
|-------------------|---------------------|---|
| Order Number      | Integer<br>Zzzzzzz9 | Order #                                       |
| Order Suffix      | Integer 99          | Order suffix                                  |
| Ship To           | Character           | Order ship to                                 |
| Line Number       | Integer zz9         | Line Number                                   |
| Ship Product      | character           | Product from order                            |
| Spec NS type      | Character           | Line Special/NonStock Type                    |
| Qty Ship          | Decimal             | Qty Ship on order line                        |
| Avail for Return  | Decimal             | Quantity available for return                 |
| Returnfl          | Character           | Returnfl field from OE line, single character |
| Unit              | Character           | Unit for order line                           |
| Conv              | Dec                 | Conversion factor for unit                    |
| Price             | zzzzzzzz9.99        | OE Line Price                                 |
| Trans Type        | character           | OE Line Transaction Type                      |
| Inventory Type    | character           | OE Line Inventory Type                        |
| User1             | x(78)               | for future expansion                          |
| User2             | x(78)               | for future expansion                          |
| User3             | x(78)               | for future expansion                          |
| User4             | x(78)               | for future expansion                          |
| User5             | x(78)               | for future expansion                          |
| User6             | zzzzzzzz9.99999-    | for future expansion                          |
| User7             | zzzzzzzz9.99999-    | for future expansion                          |
| User8             | 99/99/99            | for future expansion                          |
| User9             | 99/99/99            | for future expansion                          |

# ION API Technical Documentation

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| <b>Output Collection:</b> t-outfieldvalue |                         |
|---|-------------------------|
| <i><b>Field Name</b></i>                  | <i><b>Data Type</b></i> |
| Level                                     | character               |
| Lineno                                    | Integer                 |
| Seqno                                     | Integer                 |
| FieldName                                 | Character               |
| FieldValue                                | Character               |

# ION API Technical Documentation

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**API Call:** *sxapiSRGetTax Status*

**Purpose:** Returns the taxable status of a product.

**Parameters:**

| <i>REST Params</i>    | <i>Direction</i> | <i>Description</i>   |
|-----------------------|------------------|--|
| companyNumber         | Input/required   | Company #  |
| operatorInit          | Input/required   | SASO operator for the company specified                        |
| operatorPassword      | Input/optional   | SASO operator password (only required if business rule is set) |
| customerNumber        | Input            | Customer #   |
| shipTo                | Input            | Ship To  |
| warehouse             | Input            | Warehouse  |
| productCode           | Input            | Product  |
| useCrossReferenceFlag | Input            | Use Cross Reference Flag                                       |
| errorMessage          | Output           | Return Error Message   |
| crossReferenceProduct | Output           | Cross Reference Product  |
| crossReferenceType    | Output           | Cross Reference Type   |
| taxableFlag           | Output           | Taxable Flag   |
| nonTaxType            | Output           | Non-Tax Reason Code  |
| nonTaxTypeDescription | Output           | Non-Tax Reason Description                                     |

**Notes:**

The customer or the customer/ship to combination passed into this procedure must be valid or no processing will occur.

The warehouse passed into this procedure must be valid or no processing will occur.

If no ICSP or ICSW record can be found for either product passed in or the cross reference product, it will be assumed to be a non-stock and will be taxed based on the customer or ship to.

If a non-taxable reason code cannot be found from either the customer record or the ship to record, a check of the existing non-tax reason codes in SASTT will be done to determine if a non-tax reason of "zz" exists. If it exists, it will be used. If it does not exist, a new non-tax reason code of "zz" will be created with a description of "Default Non-Tax Reason"

# ION API Technical Documentation

## API Call: **sxapiSRGetWarehouseList**

**Purpose:** Returns a list of warehouses.

### Parameters:

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>   |
|--------------------|------------------|--|
| companyNumber      | Input/required   | Company #  |
| operatorInit       | Input/required   | SASO operator for the company specified                        |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set) |
| sortType           | Input            | Sort Field (optional)  |
| customerNumber     | Input            | Customer # / Tenant (optional)                                 |
| nonManaged         | Input            | Include Non-managed Warehouses (optional)                      |
| includeZero        | Input            | Include Company Warehouses (optional)                          |
| t-infieldvalue     | Input            | Table t-infieldvalue (optional)                                |
| errorMessage       | Output           | Return Error Message   |
| t-srwhsdata        | Output           | Table t-srwhsdata  |
| t-outfieldvalue    | Output           | The t-outfieldvalue collection                                 |

### Notes:

This call will give us access to these lists.

1. All warehouses for the company <- param2 = blank, param3 = blank, param4=blank
2. All managed warehouses for the customer <- param2 = CustNo, param3 = blank, param4=blank
3. All managed and non-managed warehouses for the customer <- param2 = CustNo, param3 = 'Yes', param4=blank
4. All non-managed warehouses for the company <- param2 = blank, param3 = 'Yes', param4=blank
5. All managed and non-managed for a customer along with all company warehouses <- param2 = CustNo, param3 = 'Yes', param4='Yes'
6. All managed for a customer along with all company warehouses <- param2 = CustNo, param3 = blank, param4='Yes'
7. All company warehouses <- param2 = blank, param3 = blank, param4='Yes'
8. All company warehouses along with all non-managed warehouses <- param2 = blank, param3 = 'Yes', param4='Yes'

### Output Collection: t-srwhsdata

| <b>Field Name</b> | <b>Data Type</b>   | <b>Data Source</b> |
|-------------------|--------------------|--------------------|
| Seqno             | Integer            | Sort Sequence      |
| Whse              | Char x(4)          | lcsd.whse          |
| Name              | Char x(30)         | lcsd.name          |
| Addr1             | Char x(30)         | lcsd.addr[1]       |
| Addr2             | Char x(30)         | lcsd.addr[2]       |
| Addr3             | Char x(30)         | lcsd.addr3         |
| City              | Char x(20)         | lcsd.city          |
| State             | Char x(2)          | lcsd.state         |
| Zipcd             | Char x(10)         | lcsd.zipcd         |
| ManagedFl         | Log yes/no         | lcsd.managedfl     |
| Custno            | Dec<br>>>>>>>>>>>9 | lcsd.custno        |

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|               |            |                    |
|---------------|------------|--------------------|
| ShipTo        | Char x(8)  | lcsd.shipto        |
| Srprinternm   | Char x(10) | lcsd.srprinternm   |
| lpcshowfl1    | Log yes/no | lcsd. lpcshowfl[1] |
| lpcshowfl2    | Log yes/no | lcsd. lpcshowfl[2] |
| Srautorcvwtf1 | Log yes/no | lcsd.srautorcvwtf1 |

## Input Collection: t-infieldvalue

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

## Output Collection: t-outfieldvalue

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Level             | character        |
| Lineno            | Integer          |
| Seqno             | Integer          |
| FieldName         | Character        |
| FieldValue        | Character        |

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## **API Call:** *sxapiSRGetWhseProdBalances*

**Purpose:** Returns the quantity fields from an ICSW record.

### **Parameters:**

| <i><b>REST Params</b></i>      | <i><b>Direction</b></i> | <i><b>Description</b></i>                                      |
|--------------------------------|-------------------------|--|
| companyNumber                  | Input/required          | Company #  |
| operatorInit                   | Input/required          | SASO operator for the company specified                        |
| operatorPassword               | Input/optional          | SASO operator password (only required if business rule is set) |
| productCode                    | Input                   | Product  |
| unitOfMeasure                  | Input                   | Unit (optional)  |
| warehouse                      | Input                   | Warehouse  |
| customerNumber                 | Input                   | Customer #   |
| shipTo                         | Input                   | Ship To  |
| useCrossReferenceFlag          | Input                   | Use Cross Reference Flag                                       |
| includeUnavailableInventory    | Input                   | Get ICSOU Unavailable Detail                                   |
| t-infieldvalue                 | Input                   | Table t-infieldvalue   |
| errorMessage                   | Output                  | Return Error Message   |
| crossReferenceProduct          | Output                  | Cross Reference Product  |
| crossReferenceType             | Output                  | Cross Reference Type   |
| returnUnitOfMeasure            | Output                  | Return Unit  |
| customerQuantityOnHand         | Output                  | Customer Qty On Hand   |
| customerQuantityOnOrder        | Output                  | Customer Qty On Order  |
| customerQuantityUnavailable    | Output                  | Customer Qty Unavailable                                       |
| customerNetAvailable           | Output                  | Customer Qty Net Avail   |
| distributorQuantityOnHand      | Output                  | Distributor Qty On Hand  |
| distributorQuantityOnOrder     | Output                  | Distributor Qty On Order                                       |
| distributorQuantityUnavailable | Output                  | Distributor Qty Unavailable                                    |
| distributorNetAvailable        | Output                  | Distributor Qty Net Avail                                      |
| totalQuantityOnHand            | Output                  | Total Qty On Hand  |
| totalQuantityOnOrder           | Output                  | Total Qty On Order   |
| totalQuantityUnavailable       | Output                  | Total Qty Unavailable  |
| totalNetAvailable              | Output                  | Total Qty Net Avail  |
| customerOnlyFlag               | Output                  | Customer Only Flag   |
| t-unavaildetail                | Output                  | Table t-unavaildetail  |
| t-outfieldvalue                | Output                  | The t-outfieldvalue collection                                 |

### **Notes:**

**Output Collection:** t-unavaildetail

| <i><b>Field Name</b></i> | <i><b>Data Type</b></i> | <i><b>Data Source</b></i>  |
|--------------------------|-------------------------|--|
| Reasunavty               | X(2)                    | Unavailable reason code – icsou.reasunavty                                 |
| Custqtyunavail           | Dec<br>zzzzzzzz9.99     | Customer unavailable quantity – icsou.custqtyunavail                       |
| Distqtyunavail           | Dec<br>zzzzzzzz9.99     | Distributor unavailable quantity – icsou.qtyunavail – icsou.custqtyunavail |

Collection fields for both t-infieldvalue and t-outfieldvalue:

| <b>Field Name</b> | <b>Type</b> |
|-------------------|-------------|
| Level             | character   |
| Lineno            | integer     |
| Seqno             | integer     |
| Fieldname         | character   |
| Fieldvalue        | character   |



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## **API Call:** *sxapiSRGetWhseProductData*

**Purpose:** Retrieve ICSP and ICSW detail for a product/whse

### **Parameters:**

| <i>REST Params</i>  | <i>Direction</i> | <i>Description</i>   |
|---------------------|------------------|--|
| companyNumber       | Input/required   | Company #  |
| operatorInit        | Input/required   | SASO operator for the company specified                        |
| operatorPassword    | Input/optional   | SASO operator password (only required if business rule is set) |
| productCode         | Input            | Product  |
| warehouse           | Input            | Warehouse  |
| customerNumber      | Input            | Customer   |
| shipTo              | Input            | Ship To  |
| includeSellingPrice | Input            | Get Price Flag   |
| quantityOrdered     | Input            | Quantity Ordered   |
| unitOfMeasure       | Input            | Unit   |
| t-infieldvalue      | Input/Optional   | t-infieldvalue collection                                      |
| errorMessage        | Output           | Error/Warning Message  |
| t-srprodwhsedata    | Output           | t-srprodwhsedata collection                                    |
| t-outfieldvalue     | Output/Optional  | t-outfieldvalue collection                                     |

**Notes:** Customer/ShipTo are optional and used to calculate the selling price

Unit is optional and used for the net available and selling price calculation. If no unit is passed in, it will use the selling unit (if available) or the stocking unit.

### **Output Collection:** t-srprodwhsedata

| <i>Field Name</i>     | <i>Data Type</i> | <i>Data Source</i>                            |
|-----------------------|------------------|---|
| Product               |                  | icsw.prod                                     |
| Warehouse             |                  | icsw.whse                                     |
| Description 1         |                  | lcsp.descrip[1]                               |
| Description 2         |                  | lcsp.descrip[2]                               |
| Status                |                  | icsw.statusty                                 |
| Product Category      |                  | lcsp.prodcat                                  |
| Stocking Unit         |                  | icsw.unitstock                                |
| Product Line          |                  | icsw.prodline                                 |
| Bin Location 1        |                  | icsw.binloc1                                  |
| Bin Location 2        |                  | icsw.binloc2                                  |
| Standard Pack         |                  | icsw.unitstnd                                 |
| Buying Unit           |                  | icsw.unitbuy                                  |
| ARP Vendor            |                  | icsw.arpvendno                                |
| Order Point           |                  | icsw.orderpt                                  |
| Order Quantity        |                  | icsw.ordqtyin                                 |
| Net Available         |                  | Standard CSD Calculation for Net Available    |
| Quantity on Order     |                  | icsw.qtyonord                                 |
| Quantity Unavailable  |                  | icsw.qtyunavail                               |
| Customer Fixed Cost   |                  | icsw.custfixedcost                            |
| Customer Average Cost |                  | icsw.custavgcost                              |
| Average Cost          |                  | icsw.avgcost                                  |
| Sell Price            |                  | Calculate Selling Price for quantity of 1     |
| Extended Price        |                  | Extended Price based on Quantity Ordered      |
| Taxable Type          |                  | icsw.taxablety, y = yes, n = no, v = variable |
| Bill on Receipt Flag  |                  | icsw.billonrcptfl                             |
| Critical Flag         |                  | icsw.criticalfl                               |
| Customer Last Cost    |                  | icsw.custlastcost                             |

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|                     |                  |                      |
|---------------------|------------------|----------------------|
| Customer Only Flag  |                  | icsw.custonlyfl      |
| Include Unavail Qty |                  | icsw.inclunavqty     |
| Labor Product       |                  | icsw.laborprod       |
| Linked Product      |                  | icsw.linkedprod      |
| Rcv Unavail Flag    |                  | icsw.rcvunavailfl    |
| Regrind Flag        |                  | icsw.regrindfl       |
| Shelf Life Flag     |                  | icsw.shelflife       |
| SR Comm Code 1      |                  | icsw.srcommcode1     |
| SR Comm Code 2      |                  | icsw.srcommcode2     |
| SR Machine          |                  | icsw.srmachine       |
| Unit Used           |                  | icsp.unitstock       |
| User1               | x(78)            | for future expansion |
| User2               | x(78)            | for future expansion |
| User3               | x(78)            | for future expansion |
| User4               | x(78)            | for future expansion |
| User5               | x(78)            | for future expansion |
| User6               | zzzzzzzz9.99999- | for future expansion |
| User7               | zzzzzzzz9.99999- | for future expansion |
| User8               | 99/99/99         | for future expansion |
| User9               | 99/99/99         | for future expansion |

The other tamp-tables t-infieldvalue and t-outfieldvalue are used to interface specific data back and forth between the calling program and the called program without changing signatures within the calls.

| Collection – t-outfieldvalue |  |
|------------------------------|--|
| Field                        | Contents   |
| Level                        | Product – value of the product from icsp.prod.               |
| FieldName                    | Hard Coded value of 'icsp.descrip3'                          |
| FieldValue                   | Product Description 3 – carries the value from icsp.descrip3 |
| LineNo                       | Integer Value – will be 0                                    |
| SeqNo                        | Integer Value – will be 0                                    |

\*\* To find the product's description 3 value, look for an existing t-outfieldvalue record where:

t-outfieldvalue.level = t-srprodwhsedata.prod

t-outfieldvalue.fieldname = "icsp.descrip3"

t-outfieldvalue.fieldvalue is the Product Description 3 value.

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## **API Call:** *sxapiSRGetWhseProdListData*

**Purpose:** Retrieve ICSP and ICSW detail for a product/whse

### **Parameters:**

| <i>REST Params</i>   | <i>Direction</i> | <i>Description</i>   |
|----------------------|------------------|--|
| companyNumber        | Input/required   | Company #  |
| operatorInit         | Input/required   | SASO operator for the company specified                        |
| operatorPassword     | Input/optional   | SASO operator password (only required if business rule is set) |
| productCode          | Input            | Product  |
| customerNumber       | Input            | Customer   |
| shipTo               | Input            | Ship To  |
| recordLimit          | Input            | RecordLimit (optional 0 = all records)                         |
| t-infieldvalue       | Input            | t-infieldvalue collection                                      |
| errorMessage         | Output           | Error/Warning Message  |
| moreRecordsAvailable | Output           | More Records Exist   |
| t-srprodwhsedata     | Output           | t-srprodwhsedata collection                                    |
| t-outfieldvalue      | Output           | t-outfieldvalue collection                                     |

**Notes:** Customer/ShipTo are optional and used to calculate the selling price

### **Output Collection:** t-srprodwhsedata

| <i>Field Name</i>     | <i>Data Type</i> | <i>Data Source</i>                            |
|-----------------------|------------------|---|
| Product               |                  | icsw.prod                                     |
| Warehouse             |                  | icsw.whse                                     |
| Description 1         |                  | lcsp.descrip[1]                               |
| Description 2         |                  | lcsp.descrip[2]                               |
| Status                |                  | icsw.statusty                                 |
| Product Category      |                  | lcsp.prodcat                                  |
| Stocking Unit         |                  | icsw.unitstock                                |
| Product Line          |                  | icsw.prodline                                 |
| Bin Location 1        |                  | icsw.binloc1                                  |
| Bin Location 2        |                  | icsw.binloc2                                  |
| Standard Pack         |                  | icsw.unitstnd                                 |
| Buying Unit           |                  | icsw.unitbuy                                  |
| ARP Vendor            |                  | icsw.arpvendno                                |
| Order Point           |                  | icsw.orderpt                                  |
| Order Quantity        |                  | icsw.ordqtyin                                 |
| Net Available         |                  | Standard CSD Calculation for Net Available    |
| Quantity on Order     |                  | icsw.qtyonord                                 |
| Quantity Unavailable  |                  | icsw.qtyunavail                               |
| Customer Fixed Cost   |                  | icsw.custfixedcost                            |
| Customer Average Cost |                  | icsw.custavgcost                              |
| Average Cost          |                  | icsw.avgcost                                  |
| Sell Price            |                  | Calculate Selling Price for quantity of 1     |
| Extended Price        |                  | Extended Price                                |
| Taxable Type          |                  | icsw.taxablety, y = yes, n = no, v = variable |
| Bill on Receipt Flag  |                  | icsw.billonrcptfl                             |
| Critical Flag         |                  | icsw.criticalfl                               |
| Customer Last Cost    |                  | icsw.custlastcost                             |
| Customer Only Flag    |                  | icsw.custonlyfl                               |
| Include Unavail Qty   |                  | icsw.inclunavqty                              |
| Labor Product         |                  | icsw.laborprod                                |
| Linked Product        |                  | icsw.linkedprod                               |

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|                  |                  |                      |
|------------------|------------------|----------------------|
| Rcv Unavail Flag |                  | icsw.rcvunavailfl    |
| Regrind Flag     |                  | icsw.regrindfl       |
| Shelf Life Flag  |                  | icsw.shelflifefl     |
| SR Comm Code 1   |                  | icsw.srcommcode1     |
| SR Comm Code 2   |                  | icsw.srcommcode2     |
| SR Machine       |                  | icsw.srmachine       |
| User1            | x(78)            | for future expansion |
| User2            | x(78)            | for future expansion |
| User3            | x(78)            | for future expansion |
| User4            | x(78)            | for future expansion |
| User5            | x(78)            | for future expansion |
| User6            | zzzzzzzz9.99999- | for future expansion |
| User7            | zzzzzzzz9.99999- | for future expansion |
| User8            | 99/99/99         | for future expansion |
| User9            | 99/99/99         | for future expansion |

The other tamp-tables t-infieldvalue and t-outfieldvalue are used to interface specific data back and forth between the calling program and the called program without changing signatures within the calls.

| Collection – t-outfieldvalue |  |
|------------------------------|--|
| Field                        | Contents   |
| Level                        | Product – value of the product from icsp.prod.               |
| FieldName                    | Hard Coded value of 'icsp.descrip3'                          |
| FieldValue                   | Product Description 3 – carries the value from icsp.descrip3 |
| LineNo                       | Integer Value – will be 0                                    |
| SeqNo                        | Integer Value – will be 0                                    |

\*\* To find the product's description 3 value, look for an existing t-outfieldvalue record where:

t-outfieldvalue.level = t-srprodwhsedata.prod

t-outfieldvalue.fieldname = "icsp.descrip3"

t-outfieldvalue.fieldvalue is the Product Description 3 value.

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## **API Call:** *sxapiSRInventoryAdjust*

**Purpose:** Adjust inventory on hand quantities for distributor or customer inventory.

### **Parameters:**

| <i>REST Params</i>     | <i>Direction</i> | <i>Description</i>   |
|------------------------|------------------|--|
| companyNumber          | Input/required   | Company #  |
| operatorInit           | Input/required   | SASO operator for the company specified  |
| operatorPassword       | Input/optional   | SASO operator password (only required if business rule is set)   |
| storeroomInventoryType | Input            | Inventory type – D for Distributor or C for Customer   |
| productCode            | Input            | Product  |
| warehouse              | Input            | Warehouse  |
| quantityShipped        | Input            | Adjustment Quantity (positive or negative)   |
| unit                   | Input            | Units  |
| price                  | Input            | Price  |
| reference              | Input            | Reference  |
| t-injrnl               | Input            | t-injrnl collection  |
| t-infieldvalue         | Input/Optional   | t-infieldvalue collection  |
| errorMessage           | Output           | Error/Warning Message – Any error or warning messages will be returned in this parameter, delimited by “ ” |
| returnData             | Output           | Return Status – either “Upate Successful” or “Errors Exist”  |
| t-outjrnl              | Output           | t-outjrnl collection   |
| tOutfieldvalue         | Output/Optional  | t-outfieldvalue collection   |

### **Notes:**

Warning messages may exist on successful updates. If t-injrnl record exists or the t-injrnl.g-jrnlno is zero then a new journal will be opened and closed for each call. If a t-injrnl exists with a valid jrnlno then the existing journal will be used and updated totals will be passed back through the t-outjrnl collection.

**Output Collection:** t-injrnl and t-outjrnl – definitions are identical (server/m-sxapi-sr-journal-tt.i) – based On Sxe temptable tt-jrnl

| <i>Field Name</i> | <i>Data Type</i>   | <i>Data Source</i>        |
|-------------------|--------------------|---------------------------|
| g-currproc        | Char X(5)          | Current procedure         |
| g-jrnlno          | Int >>>>>>9        | Current journal number    |
| g-jrnlproc        | Char x(5)          | Current journal procedure |
| g-nopostings      | Int ->,>>>,>>9     | Number of Postings        |
| g-percal          | Int ->,>>>,>>9     | Calendar Period           |
| g-perfisc         | Int ->,>>>,>>9     | Fiscal Period             |
| g-period          | int 9999           | Posting Period            |
| g-postdt          | Date 99/99/99      | Posting Date              |
| g-setno           | Int >>>>9          | Set Number                |
| g-totcr           | Dec zzzzzzzz9.99-  | Total Credits             |
| g-totdr           | Dec zzzzzzzz9.99-  | Total Debits              |
| g-tothash         | Dec ->>>>>>>>>9.99 | Hash Total                |
| g-transno         | Int >>9            | Transaction #             |
| g-year            | Int 99             | Year                      |
| g-proofcr         | Dec zzzzzzzz9.99   | Proof Credits             |
| g-proofdr         | Dec zzzzzzzz9.99   | Proof Debits              |
| s-system          | Char“xx            | System                    |

Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the adjustment quantity or an error will be

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generated. An positive adjustment will add new serials and add or adjust up lot quantity available. A negative adjustment will delete existing serials and delete or adjust down lot quantity available.

Level – “head”

lineno – zero

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

## Serial Fields

| Fieldname | Fieldvalue                          |
|-----------|-------------------------------------|
| Serial    | Serial #, character x(20), Required |

## Lot Fields

| Fieldname | Fieldvalue                       |
|-----------|----------------------------------|
| Lot       | Lot #, character x(20), Required |
| Qty       | Lot Quantity, Required           |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain “Serial/Lot Errors Exist”. It is possible that multiple errors could be generated.

Level – “head”

lineno – zero

seqno – Sequence # from Storeroom

fieldname – “error”

fieldvalue – error message

Example: XXXXXXX Serial Number Already Exists (5858)

When an Inventory Serial/Lot Transaction is created, a sequential order number is created to tie it to the inventory transaction. For distributor owned inventory, this suffix of this order number is 99. For customer owned inventory, the suffix of this order number is 98.

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## API Call: *sxapiSRInventoryTransfer*

**Purpose:** Transfer inventory between warehouses for distributor or customer inventory.

### Parameters:

| <i>REST Params</i>       | <i>Direction</i> | <i>Description</i>   |
|--------------------------|------------------|--|
| companyNumber            | Input/required   | Company #  |
| operatorInit             | Input/required   | SASO operator for the company specified  |
| operatorPassword         | Input/optional   | SASO operator password (only required if business rule is set)   |
| storeroomInventoryType   | Input            | Inventory type – D for Distributor or C for Customer   |
| productCode              | Input            | Product  |
| fromWarehouse            | Input            | From Warehouse   |
| toWarehouse              | Input            | To Warehouse   |
| quantityShipped          | Input            | Transfer Quantity (positive only)  |
| unit                     | Input            | Units  |
| unavailableInventoryFlag | Input            | Unavailable Flag – true if transferring unavailable inventory, false if transferring on hand inventory     |
| unavailableReasonType    | Input            | Unavailable Reason – Unavailable reason code if transferring unavailable inventory                         |
| reference                | Input            | Reference  |
| t-injrnln                | Input            | t-injrnln collection   |
| t-infieldvalue           | Input/optional   | t-infieldvalue collection  |
| errorMessage             | Output           | Error/Warning Message – Any error or warning messages will be returned in this parameter, delimited by “ ” |
| returnData               | Output           | Return Status – either “Update Successful” or “Errors Exist”   |
| t-outjrnln               | Output           | t-outjrnln collection  |
| t-outfieldvalue          | Output/Optional  | t-outfieldvalue collection   |

### Notes:

If the unavailable reason is blank and the unavailable flag is true then a default reason code will be assigned based on the sxapiSRUnavailableAdjust business rule. If this rule is not established then a default reason code of “\*\*\*” will be assigned.

Warning messages may exist on successful updates. If t-injrnln record exists or the t-injrnln.g-jrnln is zero then a new journal will be opened and closed for each call. If a t-injrnln exists with a valid jrnln then the existing journal will be used and updated totals will be passed back through the t-outjrnln collection.

**Output Collection:** t-injrnln and t-outjrnln – definitions are identical (server/m-sxapi-sr-journal-tt.i) – based On Sxe temtable tt-jrnln

| <i>Field Name</i> | <i>Data Type</i>  | <i>Data Source</i>        |
|-------------------|-------------------|---------------------------|
| g-currproc        | Char X(5)         | Current procedure         |
| g-jrnln           | Int >>>>>>9       | Current journal number    |
| g-jrnlnproc       | Char x(5)         | Current journal procedure |
| g-nopostings      | Int ->,>>>,>>9    | Number of Postings        |
| g-percal          | Int ->,>>>,>>9    | Calendar Period           |
| g-perfisc         | Int ->,>>>,>>9    | Fiscal Period             |
| g-period          | int 9999          | Posting Period            |
| g-postdt          | Date 99/99/99     | Posting Date              |
| g-setno           | Int >>>>9         | Set Number                |
| g-totcr           | Dec zzzzzzzz9.99- | Total Credits             |
| g-totdr           | Dec zzzzzzzz9.99- | Total Debits              |
| g-tothash         | Dec ->>>>>>>>9.99 | Hash Total                |
| g-transno         | Int >>9           | Transaction #             |

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|           |                  |               |
|-----------|------------------|---------------|
| g-year    | Int 99           | Year          |
| g-proofcr | Dec zzzzzzzz9.99 | Proof Credits |
| g-proofdr | Dec zzzzzzzz9.99 | Proof Debits  |
| s-system  | Char"xx          | System        |

Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the quantity shipped or error 5873 will display: All Serial #'s or Lots Must be Assigned

Level – "head"

lineno – zero

seqno – Next sequence number for the t-infieldvalue table. All "fields" for one Serial/Lot MUST have the same sequence number

## Serial Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Serial     | Serial #, character x(20), Required  |
| BinLoc     | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment    | Comment, character x(24), Optional   |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Lot        | Lot #, character x(20), Required   |
| Qty        | Lot Quantity, Required   |
| QtyUnav    | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt     | Open Date, mm/dd/yy  |
| ExpireDt   | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain "Serial/Lot Errors Exist". It is possible that multiple errors could be generated.

Level – "line"

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – "error"

fieldvalue – error message

Example: XXXXXXX Serial Number Already Exists (5858)

When an Inventory Serial/Lot Transaction is created, a sequential order number is created to tie it to the inventory transaction. For distributor owned inventory, this suffix of this order number is 99. For customer owned inventory, the suffix of this order number is 98.



# ION API Technical Documentation

## **API Call:** *sxapiSRProcessBackOrder*

**Purpose:** Update the lines on an OE order backorder based upon actions taken against the backorder in the Storeroom.

### **Parameters:**

| <b>REST Params</b>    | <b>Direction</b> | <b>Description</b>   |
|-----------------------|------------------|--|
| companyNumber         | Input/required   | Company #  |
| operatorInit          | Input/required   | SASO operator for the company specified                        |
| operatorPassword      | Input/optional   | SASO operator password (only required if business rule is set) |
| orderNumber           | Input            | Order Number   |
| orderSuffix           | Input            | Order Suffix   |
| t-sr-bo-inputlinedata | Input            | t-sr-bo-inputlinedata collection                               |
| t-infieldvalue        | Input            | t-infieldvalue collection                                      |
| errorMessage          | Output           | Any Fatal Error Message  |
| t-messages            | Output           | t-messages collection  |
| t-outfieldvalue       | Output           | t-outfieldvalue collection                                     |

### **Notes:**

The call will check to see if the user has a minimum security of 3 for OEET.

The backorder must exist in CSD, be in a stage that can be maintained and must not be on hold.

If a blank value is passed in the t-sr-bo-inputvalue.lostbustypel field the Lost Business Reason will default from the StoreroomLostBusiness Business Rule. This will allow the line process correctly when a Lost Business Type is required based on the Administrator Options.

There will be five types of updates that can occur based on the information passed in from the Storeroom:

1. The full quantity on the line is issued
2. A partial quantity is issued and the remainder should be backordered
3. A partial quantity is issued and the remainder will not be back ordered
4. No quantity is issued and the line should be backordered again
5. No quantity is issued and the line should be sent to lost business.

Warning messages may exist on successful updates.

If QtyShipped in the t-sr-bo-inputlinedata table (below) is > 0, the order will be automatically shipped.

### **Input Collection:** t-sr-bo-inputlinedata

| <b>Field Name</b>               | <b>Data Type</b> |
|---------------------------------|------------------|
| Lineno                          | Integer          |
| Product                         | Character        |
| Qty Ordered                     | Decimal          |
| Qty Shipped                     | Decimal          |
| BO Type                         | Char             |
| Lost Business Reason (Optional) | Char             |

# ION API Technical Documentation

**Serial/Lot Processing** – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the quantity shipped or error 5847 will display: Cannot Process, Serial or Lot Numbers Not Fully Allocated/Over Allocated

Level – “line”

lineno – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

## Serial Fields

| fieldname  | Fieldvalue   |
|------------|--|
| Serial     | Serial #, character x(20), Required  |
| BinLoc     | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment    | Comment, character x(24), Optional   |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Lot        | Lot #, character x(20), Required   |
| Qty        | Lot Quantity, Required   |
| QtyUnav    | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt     | Open Date, mm/dd/yy  |
| ExpireDt   | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain “Serial/Lot Errors Exist”. It is possible that multiple errors could be generated.

Level – “line”

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – “error”

fieldvalue – error message

Example: XXXXXXXX Serial Number Already Exists (5858)

Any errors found while updating the order will be returned in the t-messages collection.

# ION API Technical Documentation

## **API Call:** *sxapiSRProcessBackOrderV2*

### **Purpose:**

Update the lines on an OE order backorder based upon actions taken against the backorder in the Storeroom.

V2 now handled changes to existing orders including line adds for nonstocks and changes to several fields needed by Storeroom.

### **Parameters:**

| <b>REST Params</b>    | <b>Direction</b> | <b>Description</b>   |
|-----------------------|------------------|--|
| companyNumber         | Input/required   | Company #  |
| operatorInit          | Input/required   | SASO operator for the company specified                        |
| operatorPassword      | Input/optional   | SASO operator password (only required if business rule is set) |
| orderNumber           | Input            | Order Number   |
| orderSuffix           | Input            | Order Suffix   |
| t-sr-bo-inputlinedata | Input            | t-sr-bo-inputlinedatav2 collection                             |
| t-infieldvalue        | Input            | t-infieldvalue collection                                      |
| errorMessage          | Output           | Any Fatal Error Message  |
| t-messages            | Output           | t-messages collection  |
| t-outfieldvalue       | Output           | t-outfieldvalue collection                                     |

### **Notes:**

The call will check to see if the user has a minimum security of 3 for OEET.

The backorder must exist in CSD, be in a stage that can be maintained and must not be on hold.

If a blank value is passed in the t-sr-bo-inputvalue.lostbustypel field the Lost Business Reason will default from the StoreroomLostBusiness Business Rule. This will allow the line process correctly when a Lost Business Type is required based on the Administrator Options.

There will be seven types of updates that can occur based on the information passed in from the Storeroom:

1. The full quantity on the line is issued
2. A partial quantity is issued and the remainder should be backordered
3. A partial quantity is issued and the remainder will not be back ordered
4. No quantity is issued and the line should be backordered again
5. No quantity is issued and the line should be sent to lost business.
6. An existing line can be updated for one of these reasons.
  - a. The order quantity can be changed.
  - b. Nonstock only
    - i. The promise date can be changed.
    - ii. The product cost can be changed.
7. A new Nonstock line has been added to the order.
  - a. These Nonstock fields can be assigned for the new line.
    - i. The order quantity can be assigned.
    - ii. A new nonstock line can be added.
      1. The order tie type can be set.
      2. The Vendor can be assigned.
      3. The new line can be assigned to an existing tie order.
      4. The promise date can be assigned.
      5. The product cost can be assigned.

Warning messages may exist on successful updates.

If QtyShipped in the t-sr-bo-inputlinedatav2 table (below) is > 0, the order will be automatically shipped.

### **Input Collection:** t-sr-bo-inputlinedatav2

# ION API Technical Documentation

| <b>Field Name</b>               | <b>Data Type</b>       |
|---------------------------------|------------------------|
| Lineno                          | Integer                |
| Product                         | Character              |
| Line Change Type                | "A"dd or "C"hange      |
| Special Nonstock Type           | "N" for Nonstock       |
| Qty Ordered                     | Decimal                |
| Qty Shipped                     | Decimal                |
| BO Type                         | Char                   |
| Vendor Number                   | Decimal                |
| Order Tie Type                  | "P" for Purchase Order |
| Lost Business Reason (Optional) | Char                   |
| Promise Date                    | Date                   |
| Product Cost                    | Decimal                |

**Serial/Lot Processing** – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the quantity shipped or error 5847 will display: Cannot Process, Serial or Lot Numbers Not Fully Allocated/Over Allocated

Level – "line"

lineno – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All "fields" for one Serial/Lot MUST have the same sequence number

## Serial Fields

| <b>fieldname</b> | <b>Fieldvalue</b>  |
|------------------|--|
| Serial           | Serial #, character x(20), Required  |
| BinLoc           | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment          | Comment, character x(24), Optional   |
| ReasUnAvTy       | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| <b>Fieldname</b> | <b>Fieldvalue</b>  |
|------------------|--|
| Lot              | Lot #, character x(20), Required   |
| Qty              | Lot Quantity, Required   |
| QtyUnav          | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy       | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt           | Open Date, mm/dd/yy  |
| ExpireDt         | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain "Serial/Lot Errors Exist". It is possible that multiple errors could be generated.

# ION API Technical Documentation

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Level – “line”

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – “error”

fieldvalue – error message

Example: XXXXXXX Serial Number Already Exists (5858)

Any errors found while updating the order will be returned in the t-messages collection.

# ION API Technical Documentation

**API Call: *sxapiSRProcessRegrindIn***

**Purpose:** Ship an OE and Receives a PO (or cancels an OE) for a Regrind order

**Parameters:**

| <i>REST Params</i>       | <i>Direction</i> | <i>Description</i>   |
|--------------------------|------------------|--|
| companyNumber            | Input/required   | Company #  |
| operatorInit             | Input/required   | SASO operator for the company specified                        |
| operatorPassword         | Input/optional   | SASO operator password (only required if business rule is set) |
| orderNumber              | Input            | OE Order Number  |
| purchaseOrderNumber      | Input            | PO Number  |
| cancelFlag               | Input            | Cancel Flag  |
| stockingQuantityReceived | Input            | Quantity received in Stocking Units                            |
| backorderFlag            | Input            | Backorder Flag   |
| poNetCost                | Input            | Purchase Order Net Cost  |
| t-infieldvalue           | Input/Optional   | t-infieldvalue collection                                      |
| errorMessage             | Output           | Any Error Message  |
| t-outfieldvalue          | Output/Optional  | t-outfieldvalue collection                                     |

**Notes:**

The call will check to see if the user has a minimum security of 3 for OEES.

The order # passed must be for a Regrind Order (created from Regrind Out, with one line, for a regrind product).

If the cancel is set, the order will be cancelled and no further processing will be done.

If a PO # is passed, the PO will be validated and received; this is not required and processing will continue if this field is left 0/blank.

The Order # passed will be used to ship the OE order.

The quantity received is used for both the PO Receiving and OE shipping calls.

The Backorder flag is used for the OE shipping calls.

Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required when the regrind product is Serialized at Receiving or Loted. The serial/lot records must match the quantity received or error 5847 will be generated: Cannot Process, Serial or Lot Numbers Not Fully Allocated/Over Allocated

Level – “line”

lineno – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

**Serial Fields**

| <b>Fieldname</b> | <b>Fieldvalue</b>  |
|------------------|--|
| Serial           | Serial #, character x(20), Required  |
| BinLoc           | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment          | Comment, character x(24), Optional   |
| ReasUnAvTy       | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

**Lot Fields**

| <b>Fieldname</b> | <b>Fieldvalue</b>  |
|------------------|--|
| Lot              | Lot #, character x(20), Required   |
| Qty              | Lot Quantity, Required   |
| QtyUnav          | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy       | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt           | Open Date, mm/dd/yy  |

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|          |                       |
|----------|-----------------------|
| ExpireDt | Expire Date, mm/dd/yy |
|----------|-----------------------|

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain "Serial/Lot Errors Exist". It is possible that multiple errors could be generated.

Level – "line"

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – "error"

fieldvalue – error message

Example: XXXXXXX Serial Number Already Exists (5858)

When the regrind out is processed, the serial and lot records are reserved against the order. They are not updated to be available until Invoice Processing runs. They will not be visible in OEIO because the order itself is for the labor product. A regrind order for a serial/lotted regrind product should not be invoiced without serial/lot records attached.

# ION API Technical Documentation

## **API Call:** *sxapiSRProcessRegrindOut*

**Purpose:** Creates an SO or DO (with PO) OE to process a regrind out transaction.

### **Parameters:**

| <b>REST Params</b>      | <b>Direction</b> | <b>Description</b>   |
|-------------------------|------------------|--|
| companyNumber           | Input/required   | Company #  |
| operatorInit            | Input/required   | SASO operator for the company specified                        |
| operatorPassword        | Input/optional   | SASO operator password (only required if business rule is set) |
| productCode             | Input            | Regrind Product  |
| warehouse               | Input            | Warehouse  |
| laborProductCode        | Input            | Labor Product  |
| stockingQuantityOrdered | Input            | Quantity Ordered in Stocking Units                             |
| vendorNumber            | Input/Optional   | Vendor Number  |
| regrindNumber           | Input            | Regrind Order Number   |
| t-srdefaultdata         | Input            | t-srdefaultdata collection                                     |
| t-infieldvalue          | Input            | t-infieldvalue collection                                      |
| errorMessage            | Output           | Any Error Message  |
| orderNumber             | Output           | OE Order Number  |
| purchaseOrderNumber     | Output           | PO Number  |
| poNetCost               | Output           | PO Net Cost  |
| t-outfieldvalue         | Output           | t-outfieldvalue collection                                     |

### **Notes:**

The call will check to see if the user has a minimum security of 3 for OEET.

The warehouse must be storeroom managed and have a valid customer assigned. The Regrind Product must be marked as a regrind product in the specified warehouse. The labor product must be marked as a labor product in the specified warehouse. The stock quantity ordered must be greater than zero. The vendor number, if specified, must be valid in SXe. The Regrind Number must not be blank.

If a vendor number is passed, then a DO/OE is created along with a PO order. If a vendor number is not passed, an SO/OE is created. The customer and ship to on the order are assigned from the specified warehouse. The OE created will be a "D" type Bill On Receipt order with a single line for the labor product. The requested product is the regrind product.

These orders are not shipped automatically. They will be shipped as part of the Regrind In process.

If a PO is created, it is printed automatically to the default printer for the warehouse.

### **Input Collection:** t-srdefaultdata

| <b>Field Name</b>  | <b>Data Type</b> |
|--------------------|------------------|
| Warehouse          | Char x(4)        |
| Sequence #         | Integer          |
| Department         | Char x(60)       |
| Employee ID        | Char x(60)       |
| Employee Name      | Char x(60)       |
| Machine Number     | Char x(60)       |
| Project            | Char x(60)       |
| Work Order Number  | Char x(60)       |
| Charge Number      | Char x(60)       |
| Customer GL Number | Char x(60)       |
| Promise Date       | Date             |
| Taxablefl          | Log              |



# ION API Technical Documentation

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|               |                  |
|---------------|------------------|
| Notes         | x(960)           |
| Srnotesprntfl | x(3)             |
| Comments      | x(960)           |
| pickprntfl    | x(3)             |
| User1         | x(78)            |
| User2         | x(78)            |
| User3         | x(78)            |
| User4         | x(78)            |
| User5         | x(78)            |
| User6         | zzzzzzzz9.99999- |
| User7         | zzzzzzzz9.99999- |
| User8         | 99/99/99         |
| User9         | 99/99/99         |

Most of the information received in the t-srdefaultdata collection will be loaded into a note on the OE order. That information will also be stored in an OEEHExtra record associated with the order.

The promise date will be loaded into the oeeh.promisedt. oeeh.promisedt will be loaded based upon AO/Documents/Sales Order/Entry Settings "Allow Req/Prom Date Entry On Lines For Non JIT Orders".

# ION API Technical Documentation

## **API Call:** *sxapiSRReceiveCustInv*

### **Purpose:**

Update CSD with receipt information and update balances and transactions details. The new PO Entry Customer Owned Purchase Report (POERC) report generates the receiving report number in a manner similar to the existing PO RRAR report by using ICSW ordering controls to recommend to the customer what products should be purchased and how much to purchase.

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified   |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)                            |
| reportNumber       | Input            | Report Number   |
| receiveDate        | Input            | Receive Date  |
| warehouse          | Input            | Warehouse   |
| tt-rcvcustinv      | Input            | tt-rcvcustinv collection  |
| t-infieldvalue     | Input/Optional   | t-infieldvalue collection   |
| errorMessage       | Output           | Any Fatal Error Message   |
| t-messages         | Output           | t-messages collection – Any error or warning messages will be returned in this collection |
| t-outfieldvalue    | Output/Optional  | t-outfieldvalue collection  |

### **Notes:**

The call will check to see if the user has a minimum security of 3 for ICEPA.

Products can be setup and marked as Customer Owned products in ICSW. These products will not be stocked by the distributor or included on standard purchase orders, warehouse transfers or kit production orders.

A new report, POERC, will be run to recommend products and quantity needed to be replenished per warehouse. This report will transmit information to Storeroom via the ProcessRequisition BOD. Storeroom will listen for this BOD and store information about the requisition.

The customer will manually enter Purchase Orders on their back office system and communicate with vendors.

The goods will arrive on site and receiving information will be entered using the Storeroom receiving function. This information is then transferred to CSD via this API call. This API call will update CSD with receipt information and update balances and transactions details. Goods are then available for sale from Customer inventory balances.

These updates will include updates to both the ICSW regular and customer On Hand balances based on the quantity received, recalculation of customer average cost, and creation of an ICETC detail transaction record. No GL postings will be made and no journal will be opened or posted to. The Customer On Order balance will be reduced as well.

If the BO flag is Yes, then the balance is reduced by the quantity received. This will leave a Customer On Order balance remaining to represent the outstanding back order. If the BO flag is No then the balance is reduced by the original quantity ordered, thus relieving the balance for that report number. If the balance should ever be calculated as negative, it will be reset to 0.

### **Input Collection:** tt-rcvcustinv

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Lineno            | Integer          |
| Product           | Char             |
| Unit              | Char             |

# ION API Technical Documentation

|                             |         |
|-----------------------------|---------|
| Qty Received                | Decimal |
| Adjusted Quantity On Order  | Decimal |
| Price                       | Decimal |
| Unavailable Flag            | Logical |
| Unavailable Reason          | Char    |
| User 1 (not currently used) | Char    |
| User 2 (not currently used) | Char    |
| User 3 (not currently used) | Char    |
| User 4 (not currently used) | Char    |
| User 5 (not currently used) | Char    |
| User 6 (not currently used) | Decimal |
| User 7 (not currently used) | Decimal |
| User 8 (not currently used) | Date    |
| User 9 (not currently used) | Date    |

## Output Collection:

t-messages

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Set Number        | Integer          |
| Sequence Number   | Integer          |
| Field Name        | Char             |
| Message Text      | Char             |

Extra Data in "header" t-infieldvalue records:

Refer- Can be sent instead of the Report Number. Will be stored in the reference field.

Packing List- Will be stored in the ICET or ICETC record.

Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the quantity shipped or error 5847 will display: Cannot Process, Serial or Lot Numbers Not Fully Allocated/Over Allocated

Level – "line"

lineno – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All "fields" for one Serial/Lot MUST have the same sequence number

## Serial Fields

| <b>fieldname</b> | <b>Fieldvalue</b>  |
|------------------|--|
| Serial           | Serial #, character x(20), Required  |
| BinLoc           | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment          | Comment, character x(24), Optional   |
| ReasUnAvTy       | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| <b>Fieldname</b> | <b>Fieldvalue</b>  |
|------------------|--|
| Lot              | Lot #, character x(20), Required   |
| Qty              | Lot Quantity, Required   |
| QtyUnav          | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy       | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt           | Open Date, mm/dd/yy  |
| ExpireDt         | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

# ION API Technical Documentation

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Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain "Serial/Lot Errors Exist". It is possible that multiple errors could be generated.

Level – "line"

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – "error"

fieldvalue – error message

Example: XXXXXXX Serial Number Already Exists (5858)

This call runs sxapiSRInventoryAdjust to receive the product and then sxapiSRUnavailableAdjust, if necessary, to move the product to unavailable. Since each serial could have a different unavailable reason, multiple inventory unavailable adjustments could be generated.

When an Inventory Serial/Lot Transaction is created, a sequential order number is created to tie it to the inventory transaction. For distributor owned inventory, this suffix of this order number is 99. For customer owned inventory, the suffix of this order number is 98.

# ION API Technical Documentation

**API Call:** *sxapiSRReceivePO***Purpose:** Receive a PO comparable to POEI receiving**Parameters:**

| <i>REST Params</i>  | <i>Direction</i> | <i>Description</i>   |
|---------------------|------------------|--|
| companyNumber       | Input/required   | Company #  |
| operatorInit        | Input/required   | SASO operator for the company specified  |
| operatorPassword    | Input/optional   | SASO operator password (only required if business rule is set)   |
| purchaseOrderNumber | Input            | PO Number  |
| purchaseOrderSuffix | Input            | PO Suffix  |
| reference           | Input            | Reference  |
| tt-rcvline          | Input            | tt-rcvline collection  |
| t-infieldvalue      | Input/Optional   | t-infieldvalue collection  |
| successFlag         | Output           | Successful Process Flag  |
| errorMessage        | Output           | Any Fatal Error Message  |
| warningMessage      | Output           | Error/Warning Message – Any error or warning messages will be returned in this parameter, delimited by “ ” |
| t-outfieldvalue     | Output/Optional  | t-outfieldvalue collection   |

**Notes:**

The call will check to see if the user has a minimum security of 3 for POEI.

The PO must exist in CSD and be in a stage that can be received. This will not handle Cores, Substitutes/Supersedes, Tallies, VA ties, Addon Changes, corrections, or adding new lines in receiving.

The PO may be cancelled, or quantities set unavailable with this; and the price may be modified (will remain unmodified if tt-rcvline.price = 0).

If there is an error that prevents processing, this will be returned as an error.

Storeroom managed receiving may create OE orders if necessary for Storeroom processing.

Warning messages may exist on successful updates.

**Input Collection:** tt-rcvline

| <i>Field Name</i>           | <i>Data Type</i> |
|-----------------------------|------------------|
| Lineno                      | Integer          |
| Qty Received                | Decimal          |
| Cancel Flag                 | Logical          |
| Unavailable Flag            | Logical          |
| Unavailable Reason          | Char             |
| Price                       | Decimal          |
| User 1 (not currently used) | Char             |
| User 2 (not currently used) | Char             |
| User 3 (not currently used) | Char             |
| User 4 (not currently used) | Char             |
| User 5 (not currently used) | Char             |
| User 6 (not currently used) | Decimal          |
| User 7 (not currently used) | Decimal          |
| User 8 (not currently used) | Date             |
| User 9 (not currently used) | Date             |

# ION API Technical Documentation

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Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the quantity shipped or error 5847 will display: Cannot Process, Serial or Lot Numbers Not Fully Allocated/Over Allocated

Level – “line”

lineno – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

## Serial Fields

| fieldname  | Fieldvalue   |
|------------|--|
| Serial     | Serial #, character x(20), Required  |
| BinLoc     | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment    | Comment, character x(24), Optional   |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Lot        | Lot #, character x(20), Required   |
| Qty        | Lot Quantity, Required   |
| QtyUnav    | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt     | Open Date, mm/dd/yy  |
| ExpireDt   | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain “Serial/Lot Errors Exist”. It is possible that multiple errors could be generated.

Level – “line”

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – “error”

fieldvalue – error message

Example: XXXXXXXX Serial Number Already Exists (5858)

If a product is not serialized at receiving or lotted then the full quantity must be received to available or unavailable. For serial/lotted products, it may be a mix of available and unavailable (and multiple unavailable reasons may be used). The serial/lot quantity unavailable and the unavailable reason will override the information sent at the line level.

Example: Receive 10 to available. At the serial level, two products have different unavailable reasons. 8 products will be received to available, 1 to unavailable for reason A and 1 to unavailable for reason B.

# ION API Technical Documentation

**API Call:** *sxapiSRReceiveWT*

**Purpose:** Receive a Warehouse Transfer comparable to WTEI receiving

**Parameters:**

| <i><b>REST Params</b></i> | <i><b>Direction</b></i> | <i><b>Description</b></i>  |
|---------------------------|-------------------------|----------------------------|
| warehouseTransferNumber   | Input                   | WT Number                  |
| warehouseTransferSuffix   | Input                   | WT Suffix                  |
| tt-rcvline                | Input                   | tt-rcvline collection      |
| t-infieldvalue            | Input/Optional          | t-infieldvalue collection  |
| errorMessage              | Output                  | Any Fatal Error Message    |
| t-outfieldvalue           | Output/Optional         | t-outfieldvalue collection |

**Notes:**

The call will check to see if the user has a minimum security of 3 for WTEI.

The WT must exist in CSD and be in a stage that can be received. This will not handle Cores, Substitutes/Supersedes, Tallies, VA ties, Addon Changes, corrections, or adding new lines in receiving.

The WT may be cancelled, or quantities set unavailable with this; and the price may be modified (will remain unmodified if tt-rcvline.price = 0).

If there is an error that prevents processing, this will be returned as an error.

Storeroom managed receiving may create OE orders if necessary for Storeroom processing.

Warning messages may exist on successful updates.

**Input Collection:** tt-rcvline

| <i><b>Field Name</b></i>    | <i><b>Data Type</b></i> |
|-----------------------------|-------------------------|
| Lineno                      | Integer                 |
| Qty Received                | Decimal                 |
| Cancel Flag                 | Logical                 |
| Unavailable Flag            | Logical                 |
| Unavailable Reason          | Char                    |
| Price                       | Decimal                 |
| User 1 (not currently used) | Char                    |
| User 2 (not currently used) | Char                    |
| User 3 (not currently used) | Char                    |
| User 4 (not currently used) | Char                    |
| User 5 (not currently used) | Char                    |
| User 6 (not currently used) | Decimal                 |
| User 7 (not currently used) | Decimal                 |
| User 8 (not currently used) | Date                    |
| User 9 (not currently used) | Date                    |

Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products (in the receiving warehouse). The serial/lot records must match the quantity shipped or error 5847 will display: Cannot Process, Serial or Lot Numbers Not Fully Allocated/Over Allocated

Level – “linein”

lineno – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

# ION API Technical Documentation

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## Serial Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Serial     | Serial #, character x(20), Required  |
| BinLoc     | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment    | Comment, character x(24), Optional   |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Lot        | Lot #, character x(20), Required   |
| Qty        | Lot Quantity, Required   |
| QtyUnav    | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt     | Open Date, mm/dd/yy  |
| ExpireDt   | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain "Serial/Lot Errors Exist". It is possible that multiple errors could be generated.

Level – "line"

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – "error"

fieldvalue – error message

Example: XXXXXXXX Serial Number Already Exists (5858)



# ION API Technical Documentation

## **API Call:** *sxapiSRRShipWT*

**Purpose:** Ship a Warehouse Transfer comparable to WTES Shipping

### **Parameters:**

| <i><b>REST Params</b></i> | <i><b>Direction</b></i> | <i><b>Description</b></i>                                      |
|---------------------------|-------------------------|--|
| companyNumber             | Input/required          | Company #  |
| operatorInit              | Input/required          | SASO operator for the company specified                        |
| operatorPassword          | Input/optional          | SASO operator password (only required if business rule is set) |
| warehouseTransferNumber   | Input                   | WT Number  |
| warehouseTransferSuffix   | Input                   | WT Suffix  |
| autoReceiveType           | Input                   | Auto Receive: Y - yes, blank – use ICSD setting, else no       |
| t-wtshipline              | Input                   | tt-wtshipline collection                                       |
| t-infieldvalue            | Input/Optional          | t-infieldvalue collection                                      |
| errorMessage              | Output                  | Any Fatal Error Message  |
| t-outfieldvalue           | Output/Optional         | t-outfieldvalue collection                                     |

### **Notes:**

The call will check to see if the user has a minimum security of 3 for WTES.

The WT must exist in CSD and be in a stage that can be shipped. This will not handle Cores, Substitutes/Supersedes, Tallies, VA ties, Addon Changes, corrections, or adding new lines in receiving.

If there is an error that prevents processing, this will be returned as an error.

Warning messages may exist on successful updates.

### **Input Collection:** tt-wtshipline

| <i><b>Field Name</b></i>    | <i><b>Data Type</b></i> |
|-----------------------------|-------------------------|
| Lineno                      | Integer                 |
| Qty Shipped                 | Decimal                 |
| InventoryType               | Character               |
| Backorder                   | Character               |
| User 1 (not currently used) | Char                    |
| User 2 (not currently used) | Char                    |
| User 3 (not currently used) | Char                    |
| User 4 (not currently used) | Char                    |
| User 5 (not currently used) | Char                    |
| User 6 (not currently used) | Decimal                 |
| User 7 (not currently used) | Decimal                 |
| User 8 (not currently used) | Date                    |
| User 9 (not currently used) | Date                    |

Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products (in the shipping warehouse). The serial/lot records must match the quantity shipped or an error 5847 will be generated. This data is used to generate the IC and Serial/Lot Transactions in the Shipping Warehouse.

When Auto Receiving, if the product is Serialized at Shipping in the Shipping Warehouse and Serialized at Receiving in the Receiving Warehouse, Serial records must still be sent. Serials and Lots will be passed along to the receiving process as “linein” records so it can generate the IC and Serial Transactions in the Receiving Warehouse.

# ION API Technical Documentation

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Level – “lineout”

lineno – Line # from Storeroom

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

## Serial Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Serial     | Serial #, character x(20), Required  |
| BinLoc     | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment    | Comment, character x(24), Optional   |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Lot        | Lot #, character x(20), Required   |
| Qty        | Lot Quantity, Required   |
| QtyUnav    | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt     | Open Date, mm/dd/yy  |
| ExpireDt   | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain “Serial/Lot Errors Exist”. It is possible that multiple errors could be generated.

Level – “line”

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – “error”

fieldvalue – error message

Example: XXXXXXXX Serial Number Already Exists (5858)

# ION API Technical Documentation

## **API Call:** *sxapiSRUnavailableAdjust*

**Purpose:** Adjust unavailable inventory for distributor or customer inventory.

### **Parameters:**

| <b>REST Params</b>     | <b>Direction</b> | <b>Description</b>   |
|------------------------|------------------|--|
| companyNumber          | Input/required   | Company #  |
| operatorInit           | Input/required   | SASO operator for the company specified  |
| operatorPassword       | Input/optional   | SASO operator password (only required if business rule is set)   |
| storeroomInventoryType | Input            | Inventory type – D for Distributor or C for Customer   |
| productCode            | Input            | Product  |
| warehouse              | Input            | Warehouse  |
| quantityShipped        | Input            | Quantity (positive only)   |
| unit                   | Input            | Units  |
| moveFrom               | Input            | Move/Adjust From – QOH for on hand or unavailable reason code  |
| moveTo                 | Input            | Move/Adjust To – QOH for on hand or unavailable reason code  |
| reference              | Input            | Reference  |
| t-infieldvalue         | Input/Optional   | t-infieldvalue collection  |
| errorMessage           | Output           | Error/Warning Message – Any error or warning messages will be returned in this parameter, delimited by “ ” |
| returnData             | Output           | Return Status – either “Upate Successful” or “Errors Exist”  |
| t-outfieldvalue        | Output/Optional  | t-outfieldvalue collection   |

### **Notes:**

Moving inventory from QOH (quantity on hand) to a specified unavailable reason is equivalent to to an “Add” via ICEU.

Moving inventory from a specified unavailable reason to QOH is equivalent to a “Subtract” via ICEU.

Move inventory from one unavailable reason to another is equivalent to a “Move” via ICEU.

If the unavailable reason is blank (parameters 6 and 7) then a default reason code will be assigned based on the sxapiSRUnavailableAdjust business rule. If this rule is not established then a default reason code of “\*” will be assigned.

Warning messages may exist on successful updates.

Serial/Lot Processing – Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the quantity or error will be generated.

Level – “head”

lineno – zero

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

### Serial Fields

| <b>Fieldname</b> | <b>Fieldvalue</b>  |
|------------------|--|
| Serial           | Serial #, character x(20), Required                                      |
| BinLoc           | Bin Location, character x(10), Optional, no slashes as CSD will add them |
| Comment          | Comment, character x(24), Optional                                       |
| ReasUnAvTy       | Not needed, will use reason unavailable from input parameters            |

### Lot Fields

| <b>Fieldname</b> | <b>Fieldvalue</b>   |
|------------------|---|
| Lot              | Lot #, character x(20), Required                              |
| Qty              | Lot Quantity, Required  |
| QtyUnav          | Lot Quantity Unavailable, Required                            |
| ReasUnAvTy       | Not needed, will use reason unavailable from input parameters |

# ION API Technical Documentation

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|          |                       |
|----------|-----------------------|
| OpenDt   | Open Date, mm/dd/yy   |
| ExpireDt | Expire Date, mm/dd/yy |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain "Serial/Lot Errors Exist". It is possible that multiple errors could be generated.

Level – "line"

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – "error"

fieldvalue – error message

Example: XXXXXXXX Serial Number Already Exists (5858)

When an Inventory Serial/Lot Transaction is created, a sequential order number is created to tie it to the inventory transaction. For distributor owned inventory, this suffix of this order number is 99. For customer owned inventory, the suffix of this order number is 98.

# ION API Technical Documentation

## **API Call:** *sxapiSRUpdateCount*

**Purpose:** Update Inventory Balances Based On Counts (ICSEP)

### **Parameters:**

| <i>REST Params</i>  | <i>Direction</i> | <i>Description</i>   |
|---------------------|------------------|--|
| companyNumber       | Input/required   | Company #  |
| operatorInit        | Input/required   | SASO operator for the company specified                        |
| operatorPassword    | Input/optional   | SASO operator password (only required if business rule is set) |
| runNumber           | Input            | Run Number   |
| warehouse           | Input            | Warehouse  |
| employeeID          | Input            | Employee ID  |
| employeeName        | Input            | Employee Name  |
| departmentID        | Input            | Department   |
| project             | Input            | Project  |
| workOrder           | Input            | Work Order Number  |
| equipment           | Input            | Equipment  |
| chargeNumber        | Input            | Charge Number  |
| burnOff             | Input            | Burn Off (Y or N)  |
| pickTicketPrintFlag | Input            | Print Price on Pick Ticket, yes, no or blank for ARSC default  |
| t-infieldvalue      | Input/Optional   | t-infieldvalue collection                                      |
| errorMessage        | Output           | Error Message  |
| t-updcountoutmsg    | Output           | t-updcountoutmsg collection                                    |
| t-outfieldvalue     | Output/Optional  | t-outfieldvalue collection                                     |

### **Notes:**

Fatal Errors will prevent any updates from occurring. These are errors such as whse is not managed, etc.

Errors may occur on individual icsep records. These will appear in the t-updcountoutmsg collection by product. These will not prevent other records from updating.

**Output Collection:** t-updcountoutmsg (server/m-sxapi-sr-updatecount-tt.i)

| <i>Field Name</i> | <i>Data Type</i> | <i>Data Source</i>                            |
|-------------------|------------------|---|
| Seqno             | Int              | Sequence Number                               |
| Runno             | Int              | ICSEP Run Number                              |
| Whse              | Char             | ICSEP Warehouse                               |
| Prod              | Char             | ICSEP Product                                 |
| Messageproc       | Char             | Procedure/Call that spawned the error message |
| MessageText       | Char             | Error Message                                 |
| Message type      | Char             | F-Fatal, E-Error or Blank for informational   |
| User1             | x(78)            | for future expansion                          |
| User2             | x(78)            | for future expansion                          |
| User3             | x(78)            | for future expansion                          |
| User4             | x(78)            | for future expansion                          |
| User5             | x(78)            | for future expansion                          |
| User6             | zzzzzzzz9.99999- | for future expansion                          |
| User7             | zzzzzzzz9.99999- | for future expansion                          |
| User8             | 99/99/99         | for future expansion                          |
| User9             | 99/99/99         | for future expansion                          |

Serial/Lot Processing – No new input parameters. The serial/lot records will have been loaded into ICSEPS when CountEntry was run. These serial/lot records will need to be passed to any transaction call which is run to update inventory (sxapiSRCreateOEOrder, sxapiSRInventoryAdjust and sxapiSRUnavailableAdjust)

# ION API Technical Documentation

## **API Call:** *sxapiSRUpdateCustOnOrder*

**Purpose:** Allow one or more customer products within a given warehouse to be added, deleted or updated from a purchase report. Since we do not store the details of the purchase in Enterprise, the only update necessary will be to the ICSW balance (icsw.custqtyonorder).

### **Parameters:**

| <b>REST Params</b> | <b>Direction</b> | <b>Description</b>  |
|--------------------|------------------|---|
| companyNumber      | Input/required   | Company #   |
| operatorInit       | Input/required   | SASO operator for the company specified   |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set)                            |
| warehouse          | Input            | Warehouse   |
| tt-updtcustomorder | Input            | tt-updtcustomorder collection   |
| t-infieldvalue     | Input/Optional   | t-infieldvalue collection   |
| errorMessage       | Output           | Any Fatal Error Message   |
| t-messages         | Output           | t-messages collection – Any error or warning messages will be returned in this collection |
| t-outfieldvalue    | Output/Optional  | t-outfieldvalue collection  |

### **Notes:**

The call will check to see if the user has a minimum security of 3 for ICEPA which is the same security as sxapiSRReceiveCustInv.

The API call will determine the quantity change based on the New Quantity field and Original Quantity field. If the new quantity is zero, then the original quantity will be subtracted from the customer on order balance. Otherwise, the difference between original and new will be added or subtracted based on the increase or decrease in quantity. Similar to the receiving process updates, if the icsw.custqtyonorder quantity should become negative, it should be reset to zero.

### **Input Collection:** tt-rcvcustinv

| <b>Field Name</b>          | <b>Data Type</b> |
|----------------------------|------------------|
| Product                    | Char             |
| Unit                       | Char             |
| Original Cust Qty On Order | Decimal          |
| New Cust Qty On Order      | Decimal          |

### **Output Collection:** t-messages

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Set Number        | Integer          |
| Sequence Number   | Integer          |
| Field Name        | Char             |
| Message Text      | Char             |

# ION API Technical Documentation

## **API Call:** *sxapiSRUpdateWorkOrder*

**Purpose:** Update the number of Kits Built

### **Parameters:**

| <i>REST Params</i> | <i>Direction</i> | <i>Description</i>   |
|--------------------|------------------|--|
| companyNumber      | Input/required   | Company #  |
| operatorInit       | Input/required   | SASO operator for the company specified                        |
| operatorPassword   | Input/optional   | SASO operator password (only required if business rule is set) |
| workOrderNumber    | Input            | Work Order Number  |
| workOrderSuffix    | Input            | Work Order Suffix  |
| warehouse          | Input            | Warehouse  |
| quantityBuilt      | Input            | Quantity Built   |
| backorderFlag      | Input            | Back Order?  |
| cancelFlag         | Input            | Cancel?  |
| reference          | Input            | Reference  |
| t-infieldvalue     | Input/Optional   | t-infieldvalue collection                                      |
| errorMessage       | Output           | Error Message  |
| t- outfieldvalue   | Output/Optional  | t-outfieldvalue collection                                     |

### **Notes:**

Storeroom will pass in the work order number and the warehouse which will allow for finding the KPET record for that work order. The warehouse will be validated to make sure that it is a storeroom managed warehouse. The work order number and suffix will be validated to make sure they exist in that warehouse and that the work order is in a stage that can still be update. If any of those validation checks fail, all processing will be stopped and the appropriate error message will be returned to storeroom in the pv-retnerrormess output parameter. This parameter represents a data validation or processing error that caused the SXAPI call to fail. This output parameter should only contain a value if something went wrong and the SXAPI call really failed to do its job. There should not be any other text (ex: "Update Successful") in this output parameter.

The storeroom Receipt screen will display the quantity and unit from the work order. Storeroom will pass back the number of the kit product that were actually built in the pv-qtyblt input parameter in the units of the work order. If the value passed back is less then the quantity ordered on the KPET record, then the quantity shipped needs to be updated. If the value is less than zero, then processing must be stopped and error message 5660 – Quantity Cannot be < 0 – will be returned to storeroom.

If the value passed back is greater then the quantity ordered on the KPET record, then processing must be stopped and error message 5644 – Qty Shipped Has Exceeded Qty Ordered – will be returned to storeroom.

If the open initials are loaded on the KPET record, then it is being updated by another operator. If it is in use, this program cannot make changes to the work order so an 'in use' error 6425 – KP in Use by . . . – should be returned to the storeroom.

If the kits are not going to be built, the cancel flag input parameter will be set to 'yes'. In this case, the status on the KPET record will need to be changed to 'C' for cancel and then the appropriate records will be adjusted during the update process.

If the kits are going to be built, then the logic from KPEA Update will be performed to receive the kit and do all inventory and GL Updates.

### **Serial/Lot Processing:**

Component Level – Editing has been added to verify that all serials and lots have been assigned at the component level. At this point, Serial/Lots at the component level cannot be entered from Storeroom and this call will not look for them to be passed in. The component serials and lots must be entered from within CSD.

# ION API Technical Documentation

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Kit – Level Serial/Lot data will be passed in the t-infieldvalue collection and is required for Serialized at Receiving and Lot Products. The serial/lot records must match the quantity built or an error will be generated and the work order will not update.

Level – “head”

lineno – zero

seqno – Next sequence number for the t-infieldvalue table. All “fields” for one Serial/Lot MUST have the same sequence number

In the future, component serial/lot infor could be passed by using the level of “line” and placing the component seqno in the lineno field.

There is no receiving to unavailable so these fields will not be used.

## Serial Fields

| fieldname  | Fieldvalue   |
|------------|--|
| Serial     | Serial #, character x(20), Required  |
| BinLoc     | Bin Location, character x(10), Optional, no slashes as CSD will add them   |
| Comment    | Comment, character x(24), Optional   |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |

## Lot Fields

| Fieldname  | Fieldvalue   |
|------------|--|
| Lot        | Lot #, character x(20), Required   |
| Qty        | Lot Quantity, Required   |
| QtyUnav    | Lot Quantity Unavailable, Required if Return to Unavailable                |
| ReasUnAvTy | For Returns to Unavailable, Required if Reason Unavailable, character x(2) |
| OpenDt     | Open Date, mm/dd/yy  |
| ExpireDt   | Expire Date, mm/dd/yy  |

A general error found while processing the Serial/Lot Records will be returned in the error output parameter.

Any errors found while processing the individual Serial/Lot Records will be returned in the t-outfieldvalue collection and the error output parameter will contain “Serial/Lot Errors Exist”. It is possible that multiple errors could be generated.

Level – “line”

lineno – Line # from Storeroom

seqno – Sequence # from Storeroom

fieldname – “error”

fieldvalue – error message

Example: XXXXXXX Serial Number Already Exists (5858)



# ION API Technical Documentation

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**API Call:** *sxapiWTApproveAllLines*

**Purpose:** Approve all WT line items for a given WT order that is in “requested” stage

**Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified                                |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)         |
| warehouseTransferNumbe  | Input          | The Required WT #  |
| warehouseTransferSuffix | Input          | The Required WT Suffix   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter. |

**Notes:**

# ION API Technical Documentation

## API Call: *sxapiWTEditSerLotList*

**Purpose:** Edits a list of Serial/Lots for Warehouse Transfer Shipping and Receiving

### Parameters:

| REST Params          | Direction      | Description  |
|----------------------|----------------|--|
| companyNumber        | Input/required | Company #  |
| operatorInit         | Input/required | SASO operator for the company specified                                |
| operatorPassword     | Input/optional | SASO operator password (only required if business rule is set)         |
| t-wteditlist         | Input          | t-wteditlist   |
| t-infieldvalue       | Input          | t-infieldvalue   |
| t-list-outeditserlot | Output         | t-list-outeditserlot   |
| t-outfieldvalue      | Output         | t-outfieldvalue  |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter. |
| successFlag          | Output         | SuccessFI – Yes if no Errors found                                     |

### Notes:

Whse is the warehouse being updated – for shipping it is the ship from whse and for receiving it is the ship to whse.

Serial/Lot List Input collection (t-wteditlist)

| Field Name | Data Type |                               |
|------------|-----------|-------------------------------|
| Transtype  | char      | required: <S>hip or <R>eceive |
| Serlotty   | char      | required: S or L              |
| Prod       | char      | required                      |
| Whse       | char      | required                      |
| ShipToWhse | char      | Ship To Whse                  |
| Serlotno   | char      | required                      |
| Lineno     | integer   | required                      |
| Quantity   | decimal   | required for lots             |
| OrderNo    | integer   | WT#                           |
| OrderSuf   | integer   | WT#                           |

Serial/Lot List Output collection (t-list-outeditserlot)

| Field Name | Data Type     |
|------------|---------------|
| Serlotno   | char          |
| Lineno     | integer       |
| Prod       | Product       |
| Errmess    | Error Message |

WT – Transfer Shipping

| Serial at Sale | Serial at Receiving  | Lots  |
|----------------|--|---|
| Not allowed    | Serial # Not Set Up – ICSES (4622)<br>Serial Number Not Available for Sale (5856)<br>Serial # Allocated to a Different Order(5770)<br>Serial Number Already In Use In Ship To Warehouse (5917) | Lot # Not Set Up – ICSEL (5623)<br>Lot is Not Active (4626)<br>Lot is Expired (4628)<br>Cannot Allocate Quantity Greater Than Quantity Available (5810) |

WT – Transfer Receiving

| Serial at Sale | Serial at Receiving                           | Lots  |
|----------------|---|---|
| Not allowed    | Serial # Allocated to a Different Order(5770) | No editing – If lot exists it will be updated, if lot doesn't exist it will be created. |

# ION API Technical Documentation

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|  |   |  |
|--|---|--|
|  | Serial Number Already In Use In<br>Ship To Warehouse (5917) |  |
|--|---|--|

# ION API Technical Documentation

## **API Call:** *sxapiWTGetLotList*

**Purpose:** Retrieve Lot Records for Warehouse Transfer Shipping and Receiving

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| type             | Input          | Type - <S>hipping or <R>eceiving                                       |
| warehouse        | Input          | Whse   |
| productCode      | Input          | Product  |
| orderNumber      | Input/Optional | Order Number   |
| orderSuffix      | Input/Optional | Order Suffix   |
| lineNumber       | Input/Optional | Line No  |
| sequenceNumber   | Input/Optional | Sequence No  |
| companyNumber2   | Input/Optional | Cono2  |
| shipToWarehouse  | Input          | Ship To Whse   |
| t-infieldvalue   | Input          | t-infieldvalue   |
| t-lotdata        | Output         | t-lotdata  |
| t-outfieldvalue  | Output         | Table t-outfieldvalue  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |

### **Notes:**

Shipping returns available lots. Receiving returns the lots shipped on the current WT.

When Order Information is included, it will look for lots reserved against that order. Order information is required for Receiving.

Cono 2 – CSD handles intercompany transfers. Storeroom shouldn't be doing this so leave zero or pass in the current company

Ship To Whse – Used for shipping, if a lot exists in the ship from warehouse and the ship to warehouse it will be excluded from the list being returned

Whse – In shipping it is the “from” warehouse. In receiving it is the “to” whse.

This runs the API call Create-WT-Lot-Entry-TT.

The “t-lotdata” collection contains the following fields:

| Field Name | Data Type |
|------------|-----------|
| Lotno      | character |
| statustype | character |
| comment    | character |
| binloc1    | character |
| binloc2    | character |
| selectfl   | logical   |
| quantity   | decimal   |
| qtyunvail  | decimal   |
| opendt     | date      |
| expired    | date      |
| reasunavty | character |

# ION API Technical Documentation

## **API Call:** *sxapiWTGetSerialList*

**Purpose:** Retrieve Serial Records for Warehouse Transfer Shipping and Receiving

### **Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                                |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set)         |
| type             | Input          | Type - <S>hipping or <R>eceiving                                       |
| warehouse        | Input          | Whse   |
| productCode      | Input          | Product  |
| orderNumber      | Input/Optional | Order Number   |
| orderSuffix      | Input/Optional | Order Suffix   |
| lineNumber       | Input/Optional | Line No  |
| sequenceNumber   | Input/Optional | Sequence No  |
| companyNumber2   | Input/Optional | Cono2  |
| shipToWarehouse  | Input          | Ship To Whse   |
| t-infieldvalue   | Input          | t-infieldvalue   |
| t-serialdata     | Output         | t-serialdata   |
| t-outfieldvalue  | Output         | Table t-outfieldvalue  |
| errorMessage     | Output         | Error message – Any error messages will be returned in this parameter. |

### **Notes:**

Shipping returns available serials. Receiving returns the serials shipped on the current WT.

When Order Information is included, it will look for serials reserved against that order. Order information is required for Receiving.

Cono 2 – CSD handles intercompany transfers. Storeroom shouldn't be doing this so leave zero or pass in the current company

Ship To Whse – Used for shipping, if a serial exists in the ship from warehouse and the ship to warehouse it will be excluded from the list being returned

Whse – In shipping it is the “from” warehouse. In receiving it is the “to” whse.

This runs the API call Create-WT-Serial-Entry-TT.

The “t-serialdata” collection contains the following fields:

| Field Name | Data Type |
|------------|-----------|
| Serialno   | character |
| statustype | character |
| receiptdt  | date      |
| comment    | character |
| binloc     | character |
| selectfl   | logical   |
| reasunavty | character |

# ION API Technical Documentation

## **API Call:** *sxapiWTGetListOfTransferOrders*

**Purpose:** Retrieve List of WTs based on input criteria

### **Parameters:**

| REST Params             | Direction      | Description  |
|-------------------------|----------------|--|
| companyNumber           | Input/required | Company #  |
| operatorInit            | Input/required | SASO operator for the company specified  |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)   |
| shipFromWhse            | Input/Optional | The optional Ship From Whse  |
| shipToWhse              | Input/Optional | The optional Ship To Whse  |
| shipFromCompanyNumber   | Input/Optional | The optional Ship From Company # (if zero is passed, it will use the global company #)   |
| shipToCompanyNumber     | Input/Optional | The optional Ship To Company # (if zero is passed, it will use the global company #). The Ship From Company # or the Ship To Company # must be the global company #.             |
| transactionTypes        | Input/Optional | The optional list of transaction types, separated by a comma (possible choices are "WT" or "DO").  |
| productCode             | Input/Optional | The optional product #. Those WT orders that contain this product # (based on other selection criteria) will be selected.  |
| shipVias                | Input/Optional | The optional list of ship via's, separated by a comma.   |
| warehouseTransferNumber | Input/Optional | The optional single WT order#. If specified, all other selection criteria will be ignored.   |
| startStage              | Input/Optional | The optional beginning stage. If specified, all WT orders between (inclusive) this stage will be selected.   |
| endStage                | Input/Optional | The optional ending stage. If specified, all WT orders between (inclusive) this stage will be selected. The selection logic will not retrieve any cancelled (stage 9) transfers. |
| sort1                   | Input/Optional | Sort1 – see below  |
| sort2                   | Input/Optional | Sort2 – see below  |
| startEnterDate          | Input/Optional | Beginning Enter Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                                     |
| endEnterDate            | Input/Optional | Ending Enter Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected  |
| startOrderDate          | Input/Optional | Beginning Order Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                                     |
| endOrderDate            | Input/Optional | Ending Order Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected  |
| startDueDate            | input/Optional | Beginning Due Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                                       |
| endDueDate              | Input/Optional | Ending Due Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected  |
| startRequestedShipDate  | Input/Optional | Beginning Req Ship Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                                  |
| endRequestedShipDate    | Input/Optional | Ending Req Ship Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                                     |
| startPrintedDate        | Input/Optional | Beginning Printed Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                                   |

# ION API Technical Documentation

|                      |                |  |
|----------------------|----------------|--|
| endPrintedDate       | Input/Optional | Ending Printed Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                          |
| startShipDate        | Input/Optional | Beginning Ship Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                          |
| endShipDate          | Input/Optional | Ending Ship Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                             |
| startReceiptDate     | Input/Optional | Beginning Receipt Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                       |
| endReceiptDate       | Input/Optional | Ending Receipt Date – This is an optional selection field. If it's not blank, all WT orders between (inclusive) this range will be selected                          |
| lateOnlyFlag         | Input/Required | Late Orders Only – This selection field can be used to retrieve only those orders that are late (wteh.reqshipdt < today).  |
| backorderOnlyFlag    | Input/Required | Backordered Orders Only – This selection field can be used to retrieve only those orders that are backorders (wteh.borefl = yes).                                    |
| rushOnlyFlag         | Input/Required | Rush Orders Only – This selection field can be used to retrieve only those orders that have Rush line items (wteh.rushfl = yes).                                     |
| nonstockOnlyFlag     | Input/Required | Non Stock Orders Only – This selection field can be used to retrieve only those orders that have a non-stock or special order line item.                             |
| enteredStageOnly     | Input/Required | Entered Stage Only – This selection field can be used to retrieve those orders that are in "Entered" (zero) stage only.  |
| recordLimit          | Input/Optional | Record Limit – This is an optional parameter that can be used to limit the number of OE orders selected. If this field is zero, no record count limiting will occur. |
| errorMessage         | Output         | Error message – Any error messages will be returned in this parameter.   |
| moreRecordsAvailable | Output         | More records flag – are there additional records in the database that qualify but are not shown due to the record limit.   |
| totalLineAmount      | Output         | Total Line Amount of the orders collected  |
| totalOrderedAmount   | Output         | Total Ordered Amount of the orders collected   |
| t-wtord              | Output         | The t-wtord collection   |

## Notes:

Sort options:

- A – Ship From Whse
- B – Ship To Whse
- C – Stage
- D – WT #
- E – Trans Type
- F – Enter Date

The t-wtord collection contains one record for each WT order selected. It contains the following fields:

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Wtno              | integer          |
| Wtsuf             | integer          |
| Cono              | integer          |
| Cono2             | integer          |
| Duedt             | date             |
| Enterdt           | date             |
| Orderdt           | date             |

# ION API Technical Documentation

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|               |           |
|---------------|-----------|
| Pickeddt      | date      |
| Printeddt     | date      |
| Receiptdt     | date      |
| Shipdt        | date      |
| Shipfmwhse    | character |
| Shiptowhse    | character |
| Shipviaty     | character |
| Shipviatydesc | character |
| Stagecd       | integer   |
| Stagecdwords  | character |
| Totcubes      | decimal   |
| Totlineamt    | decimal   |
| Totordamt     | decimal   |
| Totrcvamt     | decimal   |
| Totshipamt    | decimal   |
| Totweight     | decimal   |
| Transtype     | character |
| Sortfld       | character |



# ION API Technical Documentation

## **API Call:** *sxapiWTGetSingleTransferOrder*

**Purpose:** Get the data (Header, Line Items) for a single WT order

### **Parameters:**

| REST Params             | Direction      | Description   |
|-------------------------|----------------|---|
| companyNumber           | Input/required | Company #   |
| operatorInit            | Input/required | SASO operator for the company specified   |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)  |
| warehouseTransferNumber | Input/Required | The required WT#  |
| warehouseTransferSuffix | Input/Required | The required WT Suffix  |
| lineSort                | Input/Required | Line sort (see below)   |
| includeHeaderData       | Input/Required | Header data retrieval flag (true/false)   |
| includeTotalData        | Input/Required | Total data retrieval flag   |
| includeLineData         | Input/Required | Line Item data retrieval flag   |
| singleLineNumber        | Input/Optional | Single Line # to be retrieved in the line item collection.  |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.                                    |
| t-fieldlist             | Output         | t-fieldlist collection – containing header / total data (see note below)                                  |
| t-wtlineitem            | Output         | t-wtlineitem collection – containing line item data if the Line Item data retrieval flag was set to “yes” |

### **Notes:**

The Line Sort field should be set as follows:

“a” – Line #

“b” – Product

“c” – Description 1 and 2

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be returned. The following is a list of the possible values (based on the input parameter flags above that control what section of data should be returned):

| Level  | Field Name  | Field Value          |
|--------|-------------|----------------------|
| Header | wtno        | wteh.wtno            |
| Header | wtsuf       | wteh.wtsuf           |
| Header | transtype   | wteh.transtype       |
| Header | stage       | wteh.stagecd (words) |
| Header | shipfmwhse  | wteh.shipfmwhse      |
| Header | shiptowhse  | wteh.shiptowhse      |
| Header | cono        | wteh.cono            |
| Header | cono2       | wteh.cono2           |
| Header | createdby   | wteh.createdby       |
| Header | duedt       | wteh.duedt           |
| Header | enterdt     | wteh.enterdt         |
| Header | orderdt     | wteh.orderdt         |
| Header | pickedby    | wteh.pickedby        |
| Header | printeddt   | wteh.printeddt       |
| Header | receiptdt   | wteh.receiptdt       |
| Header | refer       | wteh.refer           |
| Header | reqshipdt   | wteh.reqshipdt       |
| Header | rushfl      | wteh.rushfl          |
| Header | shipdt      | wteh.shipdt          |
| Header | shipinstr   | wteh.shipinstr       |
| Header | shiptoaddr1 | wteh.shiptoaddr[1]   |
| Header | shiptoaddr2 | wteh.shiptoaddr[2]   |
| Header | shiptocity  | wteh.shiptocity      |
| Header | shiptonm    | wteh.shiptonm        |
| Header | shiptost    | wteh.shiptost        |

# ION API Technical Documentation

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|                      |                            |
|----------------------|----------------------------|
| Header shiptozip     | wteh.shiptozip             |
| Header shipviaty     | wteh.shipviaty             |
| Header shipviatydesc | sasta.descrip              |
| Header stagearea     | wteh.stageareas            |
| Header name          | icsd.name (for shipfmwhse) |
| Header addr1         | icsd.addr[1]               |
| Header addr2         | icsd.addr[2]               |
| Header city          | icsd.city                  |
| Header state         | icsd.state                 |
| Header zipcd         | icsd.zipcd                 |
|                      |                            |
| Total actfreight     | wteh.actfreight            |
| Total addonamt1      | wteh.addonamt[1]           |
| Total addonamt2      | wteh.addonamt[2]           |
| Total addonnet1      | wteh.addonnet[1]           |
| Total addonnet2      | wteh.addonnet[2]           |
| Total addontype1     | wteh.addontype[1]          |
| Total addontype2     | wteh.addontype[2]          |
| Total jrnlno         | wteh.jrnlno                |
| Total jrnlno2        | wteh.jrnlno2               |
| Total jrnlno3        | wteh.jrnlno3               |
| Total totcubes       | wteh.totcubes              |
| Total totlineamt     | wteh.totlineamt            |
| Total totordamt      | wteh.totordamt             |
| Total totqtyact      | wteh.totqtyact             |
| Total totqtyord      | wteh.totqtyord             |
| Total totqtyrcv      | wteh.totqtyrcv             |
| Total totqtyshp      | wteh.totqtyshp             |
| Total totrcvamt      | wteh.totrcvamt             |
| Total totshipamt     | wteh.totshipamt            |
| Total totweight      | wteh.totweight             |
| Total wtauth         | wteh.wtauth                |

The t-wtlineitem collection is defined as follows:

| Field Name | Type      |
|------------|-----------|
| Approvety  | character |
| Bono       | integer   |
| Duedt      | date      |
| Lineno     | integer   |
| Netamt     | decimal   |
| Netord     | decimal   |
| Netrcv     | decimal   |
| Nonstockty | character |
| Ordertype  | character |
| Orderaltno | integer   |
| Tiedorder  | character |
| Prodcost   | decimal   |
| Proddesc   | character |
| Proddesc2  | character |
| Qtyord     | decimal   |
| Qtyrcv     | decimal   |
| Qtyship    | decimal   |
| Shipprod   | character |
| Stkqtyord  | decimal   |
| Stkqtyrcv  | decimal   |
| Stkqtyship | decimal   |
| Unit       | character |
| Unitconv   | decimal   |

# ION API Technical Documentation

Sortfld

character

# ION API Technical Documentation

## **API Call:** *sxapiWTGetSingleTransferOrderV2*

**Purpose:** Get the data (Header, Line Items) for a single WT order

### **Parameters:**

| REST Params             | Direction      | Description   |
|-------------------------|----------------|---|
| companyNumber           | Input/required | Company #   |
| operatorInit            | Input/required | SASO operator for the company specified   |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)  |
| warehouseTransferNumber | Input/Required | The required WT#  |
| warehouseTransferSuffix | Input/Required | The required WT Suffix  |
| lineSort                | Input/Required | Line sort (see below)   |
| includeHeaderData       | Input/Required | Header data retrieval flag (true/false)   |
| includeTotalData        | Input/Required | Total data retrieval flag   |
| includeLineData         | Input/Required | Line Item data retrieval flag   |
| singleLineNumber        | Input/Optional | Single Line # to be retrieved in the line item collection.  |
| t-infieldvalue          | Input/Optional | t-infieldvalue collection   |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.                                      |
| t-fieldlist             | Output         | t-fieldlist collection – containing header / total data (see note below)                                    |
| t-wtlineitem            | Output         | t-wtlineitemv2 collection – containing line item data if the Line Item data retrieval flag was set to “yes” |

### **Notes:**

The Line Sort field should be set as follows:

- “a” – Line #
- “b” – Product
- “c” – Description 1 and 2

The t-fieldlist collection is a “value pair” style collection with one record for each data element to be returned. The following is a list of the possible values (based on the input parameter flags above that control what section of data should be returned):

| Level              | Field Name | Field Value          |
|--------------------|------------|----------------------|
| Header wtno        |            | wteh.wtno            |
| Header wtsuf       |            | wteh.wtsuf           |
| Header transtype   |            | wteh.transtype       |
| Header stage       |            | wteh.stagecd (words) |
| Header shipfmwhse  |            | wteh.shipfmwhse      |
| Header shiptowhse  |            | wteh.shiptowhse      |
| Header cono        |            | wteh.cono            |
| Header cono2       |            | wteh.cono2           |
| Header createdby   |            | wteh.createdby       |
| Header duedt       |            | wteh.duedt           |
| Header enterdt     |            | wteh.enterdt         |
| Header orderdt     |            | wteh.orderdt         |
| Header pickedby    |            | wteh.pickedby        |
| Header printeddt   |            | wteh.printeddt       |
| Header receiptdt   |            | wteh.receiptdt       |
| Header refer       |            | wteh.refer           |
| Header reqshipdt   |            | wteh.reqshipdt       |
| Header rushfl      |            | wteh.rushfl          |
| Header shipdt      |            | wteh.shipdt          |
| Header shipinstr   |            | wteh.shipinstr       |
| Header shiptoaddr1 |            | wteh.shiptoaddr[1]   |
| Header shiptoaddr2 |            | wteh.shiptoaddr[2]   |
| Header shiptocity  |            | wteh.shiptocity      |
| Header shiptonm    |            | wteh.shiptonm        |

# ION API Technical Documentation

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|                      |                            |
|----------------------|----------------------------|
| Header shiptost      | wteh.shiptost              |
| Header shiptozip     | wteh.shiptozip             |
| Header shipviaty     | wteh.shipviaty             |
| Header shipviatydesc | sasta.descrip              |
| Header stagearea     | wteh.stageareas            |
| Header name          | icsd.name (for shipfmwhse) |
| Header addr1         | icsd.addr[1]               |
| Header addr2         | icsd.addr[2]               |
| Header city          | icsd.city                  |
| Header state         | icsd.state                 |
| Header zipcd         | icsd.zipcd                 |
|                      |                            |
| Total actfreight     | wteh.actfreight            |
| Total addonamt1      | wteh.addonamt[1]           |
| Total addonamt2      | wteh.addonamt[2]           |
| Total addonnet1      | wteh.addonnet[1]           |
| Total addonnet2      | wteh.addonnet[2]           |
| Total addontype1     | wteh.addontype[1]          |
| Total addontype2     | wteh.addontype[2]          |
| Total jrnlno         | wteh.jrnlno                |
| Total jrnlno2        | wteh.jrnlno2               |
| Total jrnlno3        | wteh.jrnlno3               |
| Total totcubes       | wteh.totcubes              |
| Total totlineamt     | wteh.totlineamt            |
| Total totordamt      | wteh.totordamt             |
| Total totqtyact      | wteh.totqtyact             |
| Total totqtyord      | wteh.totqtyord             |
| Total totqtyrcv      | wteh.totqtyrcv             |
| Total totqtyshp      | wteh.totqtyshp             |
| Total totrcvamt      | wteh.totrcvamt             |
| Total totshipamt     | wteh.totshipamt            |
| Total totweight      | wteh.totweight             |
| Total wtauth         | wteh.wtauth                |

The t-wtlineitemV2 collection is defined as follows:

| Field Name  | Type      |
|-------------|-----------|
| Approvety   | character |
| Bono        | integer   |
| Duedt       | date      |
| Lineno      | integer   |
| Netamt      | decimal   |
| Netord      | decimal   |
| Netrcv      | decimal   |
| Nonstockty  | character |
| Ordertype   | character |
| Orderaltno  | integer   |
| Tiedorder   | character |
| Prodcost    | decimal   |
| Proddesc    | character |
| Proddesc2   | character |
| Prodinrcvfl | logical   |
| Qtyord      | decimal   |
| Qtyrcv      | decimal   |
| Qtyship     | decimal   |
| Shipprod    | character |
| Stkqtyord   | decimal   |
| Stkqtyrcv   | decimal   |
| Stkqtyship  | decimal   |

# ION API Technical Documentation

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|              |           |
|--------------|-----------|
| Unit         | character |
| Unitconv     | decimal   |
| Sortfld      | character |
| Rcvunavailfl | logical   |

# ION API Technical Documentation

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**API Call:** *sxapiWTHheaderUpdate*

**Purpose:** Updates select fields for an open WT order

**Parameters:**

| REST Params      | Direction      | Description  |
|------------------|----------------|--|
| companyNumber    | Input/required | Company #  |
| operatorInit     | Input/required | SASO operator for the company specified                        |
| operatorPassword | Input/optional | SASO operator password (only required if business rule is set) |
| wtno             | Input/required | WT #   |
| wtsuf            | Input          | WT suffix  |
| wthdrupdate      | Input          | Array containing values to change                              |
| Infieldvalue     | Input          | Array containg custom data                                     |
| Outfieldvalue    | Output         | Array containing custom data                                   |
| Errormessage     | Output         | Field containg error messages                                  |

**Notes:**

The wthdrupdate array is defined as follows:

| Field Name | Type |
|------------|------|
| Seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

When a fieldname is drdeldt, drdeltm, shipviaty, or user1 thru user24, then the fieldvalue should contain the data to update in the corresponding data field for the order specified

The Infieldvalue array is defined as follows: This array is currently not used.

| Field Name | Type |
|------------|------|
| level      | char |
| lineno     | int  |
| seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

The outfieldvalue array is defined as follows: This array is currently not used.

| Field Name | Type |
|------------|------|
| level      | char |
| lineno     | int  |
| seqno      | int  |
| Fieldname  | char |
| Fieldvalue | char |

# ION API Technical Documentation

## **API Call:** *sxapiWTTransferCountsByCategory*

**Purpose:** Retrieve a count of open transfers by stage and a list of transfer counts by various grouping categories.

### **Parameters:**

| Params # | Direction      | Description  |
|----------|----------------|--|
| 1        | Input/Optional | Transaction Types – A comma separated list of transaction types to be selected. If left blank (or passed as “all”), then all transaction types will be read. |
| 2        | Input/Optional | An optional Ship From Whse   |
| 3        | Input/Optional | An optional Ship To Whse   |
| 4        | Input/Required | The required From Stage  |
| 5        | Input/Required | The required To Stage  |
| 6        | Input/Required | Level – Must be “h” (header) or “l” (Line item)  |
| 7        | Output         | Error message – Any error messages will be returned in this parameter.   |
| 8        | Output         | Count Requested – A count of the WT orders in Requested (0) stage  |
| 9        | output         | Count Ordered – A count of the WT orders in Ordered (1) stage  |
| 10       | Output         | Count Picked – A count of the WT orders in Picked (2) stage  |
| 11       | Output         | Count Shipped – A count of the WT orders in Shipped (3) stage  |
| 12       | Output         | Count Preceived – A count of the WT orders in Prereceived (4) stage  |
| 13       | Output         | Count Exception – A count of the WT orders in Exception (5) stage  |
| 14       | Output         | Count Total – A summary of the other counts  |
| 15       | Output         | The date the counts were generated (as of date)  |
| 16       | Output         | The time the counts were generated (as of time)  |
| 17       | Output         | The WT transfer counts collection t-wtcntsbycat.   |

### **Notes:**

The t-wtcntsbycat collection contains 1 record for each grouping category. The following is a list of the fields in this collection:

| <b>Field Name</b> | <b>Data Type</b> |
|-------------------|------------------|
| Category          | character        |
| Description       | character        |
| Count-total       | integer          |

There are currently 5 records written to this collection for the following grouping categories:

Transfers that are late  
New transfers for today  
Transfers that are backordered  
Rush Transfers  
Transfers that have non-stock ./ special line items



# ION API Technical Documentation

**API Call:** *sxapiWTTransferDeleteOrCancel*

**Purpose:** Delete or cancel a given WT order

**Parameters:**

| REST Params             | Direction      | Description   |
|-------------------------|----------------|---|
| companyNumber           | Input/required | Company #   |
| operatorInit            | Input/required | SASO operator for the company specified   |
| operatorPassword        | Input/optional | SASO operator password (only required if business rule is set)  |
| warehouseTransferNumber | Input/Required | The required WT #   |
| warehouseTransferSuffix | Input/Required | The Required WT Suffix  |
| deleteTransferFlag      | Input/Required | The delete flag. If this parameter is set to "yes", then the WT order will be deleted – otherwise it will be cancelled. |
| errorMessage            | Output         | Error message – Any error messages will be returned in this parameter.  |

**Notes:**

# ION API Technical Documentation

## **API Call:** *sxapiWTTTransferOrderMnt*

**Purpose:** Create or change a given WT order

### **Parameters:**

| REST Params                           | Direction      | Description  |
|---------------------------------------|----------------|--|
| companyNumber                         | Input/required | Company #  |
| operatorInit                          | Input/required | SASO operator for the company specified                                |
| operatorPassword                      | Input/optional | SASO operator password (only required if business rule is set)         |
| retrieveChangeWarehouseTransferNumber | Input/Optional | Retrieve WT# (0 to create WT or the WT # to change)                    |
| retrieveChangeWarehouseTransferSuffix | Input/Optional | Retrieve WT suf (0 to create WT or the WT suf to change)               |
| t-inwtmntheader                       | Input/Optional | Input Header array – only provided for an ADD                          |
| t-inwtmntline                         | Input/Required | Input Line Item array – only provided for an ADD                       |
| errorMessage                          | Output         | Error message – Any error messages will be returned in this parameter. |
| createdWarehouseTransferNumber        | Output         | Newly created WT #   |
| createdWarehouseTransferSuffix        | Output         | Newly created WT suf   |
| t-outwtmntheader                      | Output         | Output Header array  |
| t-outwtmntline                        | Output         | Output Line array.   |
| t-messages                            | Output         | Error array.   |

### **Notes:**

#### Adding a WT:

When creating a new WT, parameters **retrieveChangeWarehouseTransferNumber** & **retrieveChangeWarehouseTransferSuffix** must be zero and both the Header Array and the Item array must be populated. The **newrecordfl** on item array should be set to true.

#### Changing a WT:

When changing a WT, parameters **retrieveChangeWarehouseTransferNumber** & **retrieveChangeWarehouseTransferSuffix** must be provided. The header array only needs to contain those values which will be changed. Any value that is zero or blank will be ignored. A new line item may be added as part of a change but an existing line may NOT be changed or deleted.

Header Array (input and output):

| FieldName   | Data Type |
|-------------|-----------|
| addonamt1   | decimal   |
| addonamt2   | decimal   |
| addonamt3   | decimal   |
| addonamt4   | decimal   |
| addoncty    | character |
| addonety    | character |
| addoncapfl1 | logical   |
| addoncapfl2 | logical   |
| addoncapfl3 | logical   |
| addoncapfl4 | logical   |
| addonno1    | logical   |
| addonno2    | logical   |
| addonno3    | logical   |
| addonno4    | logical   |
| addontype1  | logical   |
| addontype2  | logical   |
| addontype3  | logical   |
| addontype4  | logical   |
| boty        | character |
| confirmty   | character |
| countrycd   | character |

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|             |           |                    |
|-------------|-----------|--------------------|
| createdby   | character |                    |
| divno       | integer   |                    |
| duedt       | date      |                    |
| enterdt     | date      |                    |
| fobty       | character |                    |
| ignoreltty  | character |                    |
| manaddr1    | character |                    |
| manaddr2    | character |                    |
| mancity     | character |                    |
| manname     | character |                    |
| manstate    | character |                    |
| manzipcd    | integer   |                    |
| notesdata   | character |                    |
| orderaltno  | integer   |                    |
| orderaltsuf | integer   |                    |
| orderdisp   | character |                    |
| orderdt     | date      |                    |
| refer       | character |                    |
| transdt     | date      |                    |
| reqshipdt   | date      |                    |
| resalety    | character |                    |
| rushty      | character |                    |
| shipinstr   | character |                    |
| shiptoaddr1 | character |                    |
| shiptoaddr2 | character |                    |
| shiptocity  | character |                    |
| shiptonm    | character |                    |
| shiptost    | character |                    |
| shiptozip   | character |                    |
| shipviaty   | character |                    |
| subty       | character |                    |
| transtype   | character |                    |
| whse        | character | (Required for ADD) |
| towhse      | character | (Required for ADD) |
| user1       | character |                    |
| user2       | character |                    |
| user3       | character |                    |
| user4       | character |                    |
| user5       | character |                    |
| user6       | decimal   |                    |
| user7       | decimal   |                    |
| user8       | date      |                    |
| user9       | date      |                    |

Line Item Array (input and output)

| <b>FieldName</b> | <b>DataType</b> |                                  |
|------------------|-----------------|----------------------------------|
| lineno           | integer         | (Required)                       |
| newrecordfl      | logical         | (set to true when adding a line) |
| deleterecordfl   | logical         | (NOT CURRENTLY USED)             |
| changerecordfl   | logical         | (NOT CURRENTLY USED)             |
| origshipprod     | character       |                                  |
| commentdata      | character       |                                  |
| cubes            | decimal         |                                  |
| duedt            | date            |                                  |
| enterdt          | date            |                                  |
| ignoreltty       | character       |                                  |
| nonstockty       | character       |                                  |
| price            | decimal         |                                  |

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|            |           |            |
|------------|-----------|------------|
| printty    | character |            |
| prodcats   | character |            |
| proddesc   | character |            |
| proddesc2  | character |            |
| qtyord     | decimal   |            |
| qtyunavail | decimal   |            |
| reasunavty | character |            |
| reqprod    | character |            |
| approvedt  | date      |            |
| shipprod   | character | (Required) |
| unit       | character |            |
| unitconv   | decimal   |            |
| warrantyty | character |            |
| weight     | decimal   |            |
| user1      | character |            |
| user2      | character |            |
| user3      | character |            |
| user4      | character |            |
| user5      | character |            |
| user6      | decimal   |            |
| user7      | decimal\  |            |
| user8      | date      |            |
| user9      | date      |            |