Fishbowl Inventory

Software Development Kit

Table of Contents

(All text in blue is a hyperlink to elsewhere in the text)

| <u> </u> | | Introduction | |
|----------|----------|--------------|----------------------------------|
| | i | | What is an API? |
| | ii | | Fishbowl's API |
| | iii | | Support Information |
| | | API Objects | |
| | <u> </u> | | Available Objects |
| | li | | Available requests and responses |
| | iii | | Format |
| 111 | | Tools | |
| | i | | Status Code Library |





Introduction

Just as Fishbowl Inventory integrates with QuickBooks, we at Fishbowl Inventory allow developers to integrate their own software with Fishbowl Inventory. The Fishbowl Inventory API allows the logging in of users from third-party applications. These applications can run certain procedures when connected to the Fishbowl Inventory Server. This provides developers with the connection they need to customize applications to meet your business' specific needs.

What is a SDK?

An Application Programming Interface allows third-party software to interact with existing software. It also has the responsibility to validate and process the requests that are sent to it from the third-party integrated applications. It is the entity that sends the response back to the integrated application. Requests are sent as XML statements directly to the request processor.

XML – Extensible Markup Language: Used to transport and store data. For more info visit: http://w3schools.com/xml/default.asp

Fishbowl's SDK

The Fishbowl API provides integration with the data and objects stored on the Fishbowl Server. When scoping out a potential application, it would be beneficial to browse the list of objects below to verify that the data and requests you need are accessible through the API. Then, choose the links that will take you to the need details and syntax. All of the following documentation and examples were obtained by using the example Fishbowl database (EXAMPLE.FDB) and the Tester (Included with an FDN membership). All elements of an object must appear in the order in which they are displayed.

Support Information

SDK Objects

Available Object Classes

| Object | Syntax | Description |
|---------------------|--------------------|---|
| Account | Account | Contains information on accounts in the database |
| Address | Address | An object containing information about an address. |
| Carton | Carton | Stores information about a carton. |
| Carrier | Carrier | This object just contains the carrier's name. |
| Contacts | Contacts | Object that contains Contact Information. |
| Contact Information | ContactInformation | Contains information about a contact. |
| Credit Card | CreditCard | Contains credit card information |
| Customer | Customer | Contains Customer information. |
| Custom Field | CustomField | Stores the details about a Fishbowl custom field. |
| Custom List | CustomList | A list of Custom Items. |
| Custom List Item | CustomListItem | Stores Custom Items. |
| Discount | Discount | Stores discount information. |
| Location | Location | Represents a Location. |
| Location Group | LocationGroup | Compacts Location Group name and ID into one object. |
| Memo | Memo | Stores additional notes on requests and objects. |
| Order History | OrderHistory | This is a storage object for Order History. |
| Parameter | Parameter | Contains name and values module parameters. |
| Part | Part | Stores information about a part. |
| Payment | Payment | Contains payment information. |
| Pick | Pick | Stores all the information associated with a pick. |
| Pick Item | PickItem | Stores information about items that are involved in a pick. |
| Product | Product | Contains information about a Product |
| Purchase Order | PurchaseOrder | Object used to store data concerning a Purchase Order. |





| Receipt | Receipt | Contains receipt information. |
|---------------------|-------------------|---|
| Report | Report | Contains report information. |
| Report Tree | ReportTree | Contains report tree information. |
| Sales Order | SalesOrder | Stores sales order information. |
| Sales Order Item | SalesOrderItem | Stores sales order item information. |
| Shipping | Shipping | Contains the details about a shipment. |
| Tag | Tag | A number that helps describe a location. |
| Tax Rate | TaxRate | Stores tax rate information. |
| Tracking | Tracking | This simply contains the TrackingItem objects. |
| Tracking Item | TrackingItem | This object contains the information being tracked. |
| Transfer Order | TransferOrder | Contains information about a transfer order. |
| Transfer Order Item | TransferOrderItem | Stores information about items in a transfer order. |
| UOM | UOM | Contains Unit of Measure details. |
| UOM Conversion | UOMConversion | Stores conversion information for a Unit of Measure. |
| User | User | User details. |
| Vendor | Vendor | Contains all the vendor information and details. |
| Vendor Part Number | VendorPartNumber | Object that contains the Vendor Part Number. |
| Work Order | WO | Contains all the work order information and details. |
| Work Order Item | WOItem | Stores information about an item found in a work order. |

Available Requests

| Request | Syntax | Brief Description |
|-------------------------|------------------------|--|
| Add Invetory | AddInventoryRq | Adds initial inventory of a part. |
| Add SO Item | AddSOItemRq | Adds an item to an SO. |
| Adjust Inventory | AdjustInventoryRq | Adjust the inventory in a tag. |
| Calculate SO | CalculateSORq | Returns a potential order summery (unsaved) |
| Carrier List | CarrierListRq | Returns the shipping carriers stored in the database |
| Close Short SO | CloseShortSORq | This request is used to close short a sales order |
| Customer Get | CustomerGetRq | Returns the information for a specific customer |
| Customer List | CustomerListRq | Returns every customers information |
| Customer Name List | CustomerNameListRq | Returns the names of all customers |
| Customer Save | CustomerSaveRq | Save new and updated customer information |
| Cycle Count | CycleCountRq | Used to correct inventory amounts. |
| Delete SO | DeleteSORq | This request is sued to delete a sales order |
| Export List | ExportListRq | Returns a list of available exports |
| Export | ExportRq | Returns export data of specified export type |
| Get Account Balance | GetAccountBalanceRq | Returns Quickbooks value for the specified account. |
| Get Account List | GetAccountListRq | Returns a list of all Quickbooks accounts |
| Get Next Number | GetNextNumberRq | Returns the next order numerically |
| Get Part List | GetPartListRq | Returns a list of parts based on advanced search. |
| Get Pick | GetPickRg | Return the information on a specified pick |
| Get PO List | GetPOListRq | Returns all PO from a given location |
| Get Receipt | GetReceiptRq | Returns receipt information. |
| Get Ship List | GetShipListRq | Request a list of Shipments. |
| Get Shipment | GetShipmentRq | Returns the shipment details about a specified shipment. |
| Get Ship Now List | GetShipNowListRq | Requests a list of Shipments ready to ship. |
| Get SO List | GetSOListRq | Returns a list of SOs based on the search parameters. |
| Get System Property | GetSystemPropertyRq | Returns the details about a specified system property. |
| Get Total Inventory | GetTotalInventoryRq | Returns the number of an item at a specific location. |
| Get Transfer Order List | GetTransferOrderListRq | Returns a list of Transfer Order Numbers |
| Get User Property | GetUserPropertyRq | Returns information about the specified property. |
| Get Work Order | GetWorkOrderRq | Returns a Work Order object. |
| Import List | ImportListRq | Returns a list of your import options. |
| Import | ImportRq | Request allows you to import data |
| Inventory Quantity | InvQtyRq | Returns details and quatity of a specified part or list of parts |
| Issue SO | IssueSORq | Issues an SO. |
| Light Part List | LightPartListRq | Returns a simple list of parts. |
| Load SO | LoadSORq | Returns information on a Sales Order. |
| Load Transfer Order | LoadTransferOrderRq | Returns all the information about a TO |





Object Classes

Account

Description: Contains information relevant to one of the financial accounts in the Fishbowl database.

Address

<u>Description:</u> An object containing information about an address. There are no fields that are essential for the use of an address object. Use only those fields that you need.

Carton

Description: Stores information about a carton.





Carrier

<u>Description:</u> This object just contains the carrier's name.

Contacts

Description: Contains Contact Information.

Contact Information

<u>Description:</u> Stores a detail about a contact. There are no fields that are essential for the use of a Contact Information object. Use only those fields that you need.

Credit Card

Description: Stores the information about a credit card.

Customer

<u>Description:</u> Stores the details about a Customer. You must include the JobDepth field. There are no other fields that are essential for the use of a Customer object. Use only those fields that you need.

Custom Field

Description: Stores the details about a Fishbowl custom field.

Custom List

Description: A list of Custom Items.

Custom List Item

Description: Stores Custom Items.

Discount

Description: Stores Discount information.

Location

Description: Represents a Location.

Location Group

Description: Used to compact a Location Group name and ID into one object.

Memo

Description: Stores additional notes on requests and objects.





| Page

Order History

Description: This is a storage object for Order History

Parameter

<u>Description:</u> Contains name and values module parameters.

Part

Description: Stores information about a part.

Payment

Description: Contains payment information.

Pick

<u>Description:</u> Stores all the information associated with a pick.

Pick Item

Description: Stores information about items that are involved in a pick.

Product

Description: Contains information about a Product

Purchase Order

Description: Object used to store data concerning a Purchase Order.

Receipt

Description: Contains receipt information.

Report

Description: Contains the details about a report.

Report Tree

Description: Contains the details about a report tree.

Sales Order

Description: Stores sales order information.





| Page

Sales Order Item

Description: Stores sales order item information.

Shipping

Description: Contains the details about a shipment.

Tag

Description: A number that helps describe a location.

Tax Rate

Description: Stores tax rate information.

Tracking

<u>Description:</u> This simply contains the TrackingItem objects which contain the information being tracked.

Tracking Item

Description: This object contains the information being tracked.

Transfer Order

Description: Contains information about a transfer order.

Transfer Order Item

Description: Stores information about items in a transfer order.

UOM

Description: Contains Unit of Measure details.

UOM Conversion

Description: Stores conversion information for a Unit of Measure.

User

Description: User details.

Vendor

Description: Contains all the vendor information and details.





Page

Vendor Part Number

<u>Description:</u> Contains the number that a vendor uses to refer to a part that you may reference differently. A value is required in order to create a valid object.

Work Order

Description: Contains all the work order information and details.

Work Order Item

Description: Stores information about an item found in a work order.

Back to Object Classes

Requests

Add Inventory

Description: Adds an item to a Sales Order.

Added: 2011.4

Add SO Item

Description: Adds an item to a Sales Order.

Added: 2012.3

Adjust Inventory

Description: Adjust the inventory in a tag.

Added: 2011.4

Calculate SO

<u>Description:</u> This generates a shipping order that is completely ficticious. You would use this request to <u>calculate</u> the cost ets. If you want to actually process this order you need to use the Save.

Carrier List

Description: Returns the names of all Carriers that are listed in your database.

CloseShort

Description: This request is used to close short a sales order

Customer Get

Description: This returns a customer object from your database with all the data associated with that customer





Customer List

<u>Description:</u> Returns a list of all the <u>customers</u> in your database with their details.

Customer Name List

Description: Returns a list of the names of all the customers in your database.

Customer Save

<u>Description:</u> This request allows you to edit and create customer objects and have them save within your database. To have a new customer appear in your client you must include the ActiveFlag element as true.

Cycle Count

<u>Description:</u> Used to correct inventory amounts. Including Tracking information in optional.

Delete SO

Description: This request is used to delete a sales order

Export List

Description: Returns all available export options

Export

Description: Returns export data of specified export type

Get Account Balance

<u>Description:</u> Returns the account information for the specified account. Account refers to the name of the Quickbooks account. Use Get Account List to see your Quickbooks account options.

Get Account List

Description: Returns a list of all Quickbooks accounts complete with IDs, types, and balances.

Get Next Number

<u>Description:</u> Requests for and returns the number of the next order that is available for use. This requires auto numbering module option to be turned on. The type of order is specified within the request. Order Types: PO (Purchase Order), SO (Sales Order), or WO (Work Order).

Get Part List

Description: Returns a list of parts based on advanced search.





Get Pick

Description: This request will return the information on a specified pick.

Get PO List

Description: Returns all purchase order queued in the specified location.

Get Receipt

<u>Description:</u> Returns receipt information.

Get Ship List

<u>Description:</u> Request a list of Shipments. This includes all those that have been shipped. Be sure to include more specifics on what you want to see. Note: You cannot use Order Number in conjunction with Order Type and Carrier. Order Number returns the history of the use of that number, see Example 2. Also, to merit a response you must include the RecordCount field.

Get Shipment

<u>Description:</u> Returns the shipment details about a specified shipment. This is the ID of the shipment requested. We use the ID because it is the only thing totally uniquie for a shipment. To find a specific SO or PO, go to the appropriate data table and find it's OrderID. Use that in the SHIP table to find the ShipID.

Get Ship Now List

Description: Returns a list of orders that are packed and ready to ship.

Get SO List

<u>Description:</u> Returns a detailed list of SOs (Sales Orders) based on the search parameters.

Get System Property

<u>Description:</u> Returns the details about a specified system property.

Get Total Inventory

<u>Description:</u> Returns the total number of the inquired item at a specific location.

Get Transfer Order List

<u>Description:</u> This request allows you to retrieve a list of order numbers that are to be transferred. Although this call can be very complicated including dates, sort orders, custom fields, etc., the only thing required in this request is a count. So if you specify just a count the response will contain the first transfer orders in the list, up to the specified count.

Get User Property





Get Work Order

Description: Returns a Work Order object.

Import List

<u>Description:</u> This request returns a list of your import options.

Import

<u>Description:</u> This request allows you to import data. The example uses the import to edit/add a vendor. Data coloumbs can be blank, but each data coloumb must be represented in the request. Do not include a row for the coloumb headers!

Inventory Quantity

Description: Returns details and quatity of a specified part or list of parts modified within the given date range.

Issue SO

Description: Will issue a SalesOrder.

Light Part List

Description: Returns a simple list of parts.

Load SO

Description: This will return information about the specified sales order.

Load Transfer Order

<u>Description:</u> Returns all the information about the chosen transfer order number. It will return information on fulfilled orders as well as partial orders.

Location Group

Description: Returns a list of the location groups.

Location List

Description: Returns a list of locations and their details.

Location Query

<u>Description:</u> Returns information on a location.





Make Payment

<u>Description:</u> Makes a payment on the specified order.

Move

Description: Moves items from one specified location to another.

Part Cost

<u>Description:</u> Use this request to obtain the average cost at which you've previously bought this part.

Part Get

Description: Returns all the information pertaining to a specified part at your default location.

Part Query

<u>Description:</u> Like Part Get, Part Query Returns all the information pertaining to a specified part. However, you can also specify location.

Pick Query

<u>Description:</u> This request will return all the picks that you specify. You can refine your results by it's place in the index (StartIndex in conjunction with RecordCount), pick number, order number, pick type, status, priority, the first date to include, last date to include, whether or not it's fulfillable, or by it's location group. The starting index defines at what point the records you want returned will start, default is 0. Record count is how may records you want returned.

POSave

Description: Object used to store data concerning a Purchase Order.

Print Report

Description: Prints the default report for the specified module.

Product Get

<u>Description:</u> Requests detailed information about the product. This includes the product's underlying part, the product's base UOM and its tracking information. GetImage is a flag indicating if the image should be included.

Product Query

<u>Description:</u> Requests information about a product from the database.

Quick Books Export

Description: Exports customers and their financial transactions to Quick Books.





Quick Ship

Description: Will do an automatic pick, pack, and ship on a Sales Order that has already been issued (Work Orders tied to the SO must be fulfilled also). Fishbowl automatically picks the best tracking available. FulfillServiceItems indicates if the service items on the SO should be fulfilled during ship.

Receiving List

Description: Returns information about orders in the receiving module. You can narrow your search by filling in as many of the controls as you wish. It will return all orders that contain the specified details. Note: To get a response the order number specified must be a receiving order!

Save Discount

Description: Saves and updates discounts.

Save Pick

Description: This request enables you to make changes to and fulfill picks.

Save Receipt

Description: Updates receipt stored data.

Save Report

Description: Saves report data.

Save Shipment

Description: Save shipment data.

Save UPC

<u>Description:</u> Request permints the change of a product UPC (Universal Product Code).

Save Work Order

Description: Implements that adjustments made to a WO.

Set Def Part Loc

Description: Enables you to change the default location of a part. Use the database to find all the details for the Location object that you want to use as the default location.

Set System Property





Save Tax Rate

<u>Description:</u> Saves and updates tax rates. Note: The percent that is entered must be entered in decimal format (i.e. 10 percent is entered as ".1").

Set User Property

Description: Allows you to change existing user properties.

Ship

Description: Ships an order. Note: Order Number must be written with an S in front.

SOSave

Description: Saves a sales order.

Transfer Order Save

<u>Description:</u> Saves new and changes to Transfer Orders.

UOM

Description: Requests a list of UOMs.

Vendor Get

Description: Retreives a vendor object.

Vendor List

Description: Requests a list of all vendors.

Vendor Name List

Description: Requests a list of all vendor names.

Vendor Save

Description: This request is used to create or change vendor objects.

Void SO

Description: This request is used to void sales orders





Work Order List

Description: Returns a list of basic information about the work orders in the database.

Tools

Status Code Library

| Codo | Fare | | |
|------|--|--|--|
| Code | Error | | |
| 1000 | Success! | | |
| 1001 | Unknown message received. | | |
| 1002 | Connection to Fishbowl server was lost. | | |
| 1003 | Some requests had errors. | | |
| 1004 | There was an error with the database. | | |
| 1009 | Fishbowl server has been shut down. | | |
| 1010 | You have been logged off the server by an administrator. | | |
| 1011 | Not found. | | |
| 1012 | General error. | | |
| 1013 | Dependencies need to be deleted | | |
| 1100 | Unknown login error occurred. | | |
| 1109 | This integrated application registration key is already in use. | | |
| 1110 | A new integrated application has been added to Fishbowl. Please contact the Fishbowl administrator to approve this integrated application. | | |
| 1111 | This integrated application registration key does not match. | | |
| 1112 | This integrated application has not been approved by the Fishbowl administrator. | | |
| 1120 | | | |
| 1130 | Invalid ticket passed to Fishbowl server. | | |
| 1131 | Invalid ticket key passed to Fishbowl server. | | |
| 1140 | Initialization token is not correct type. | | |
| 1150 | Request was invalid. | | |
| 1161 | Response was invalid. | | |
| 1162 | The login limit has been reached for the server's key. | | |
| 1200 | Custom field is invalid. | | |
| 1300 | Was not able to find the memo | | |
| 1301 | The memo was invalid. | | |
| 1400 | Was not able to find the order history. | | |
| 1401 | The order history was invalid. | | |
| 1500 | The import was not properly formed. | | |
| 1501 | That import type is not supported. | | |
| 1502 | File not found. | | |
| 1503 | That export type is not supported. | | |
| 1504 | Unable to write to file. | | |
| 1505 | The import data was of the wrong type. | | |
| 1600 | Unable to load the user. | | |
| 1601 | Unable to find the user. | | |
| 2000 | Was not able to find the part . | | |
| 2001 | The part was invalid. | | |
| 2002 | Was not able to find a unique part. | | |
| 2003 | BOM had an error on the part. | | |
| 2100 | Was not able to find the product | | |
| 2101 | The product was invalid. | | |
| 2102 | The product is not unique. | | |
| 2120 | The kit item was invalid. | | |
| 2121 | The associated product was invalid. | | |
| 2200 | Yield failed. | | |
| 2201 | Commit failed. | | |
| 2202 | Add initial inventory failed. | | |







2203

2204

2205

2206

2207

2208 2209

2210

2300 2301

2302

Cannot adjust committed inventory.

Quantity must be greater than zero.

Serial number _____ already committed.

Not enough available quantity in ______.

Was not able to find the tag number _____.

Part _____ is not an inventory part.

Invalid quantity.

Move failed.

Cycle count failed.

The tag was invalid.

The tag move failed.



The following parts were not added to the purchase order. They have no default vendor:



4007





5112

5200

The item must be picked from

Shipment invalid.

