



FeneTech® Accounting Interface

FeneTech QuickBooks SDK Interface Manual

Introduction	1
Flow Charts	1
<i>Import</i>	1
<i>Export</i>	1
Setup	2
Database Deployment	2
Accounting Installation	2
QuickBooks SDK Company File	2
QuickBooks Settings	3
<i>General Settings</i>	3
<i>System Settings</i>	3
Account Mappings	3
Creating Test Company File	4
Connecting to QuickBooks.....	4
Testing.....	6
Troubleshooting	6
Appendix A – Field Mappings.....	8

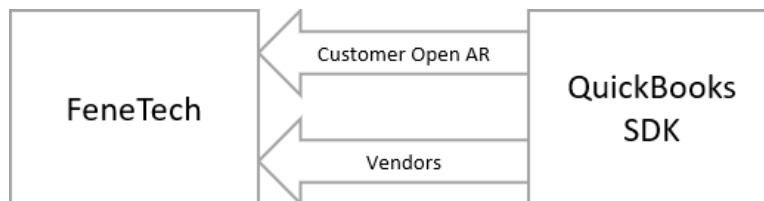
Introduction

This document describes the process of deployment and setup for the QuickBooks SDK interface which includes: database deployment, accounting installation, setting configuration, account mapping, and functional testing.

Flow Charts

Visualization of the flow of accounting data.

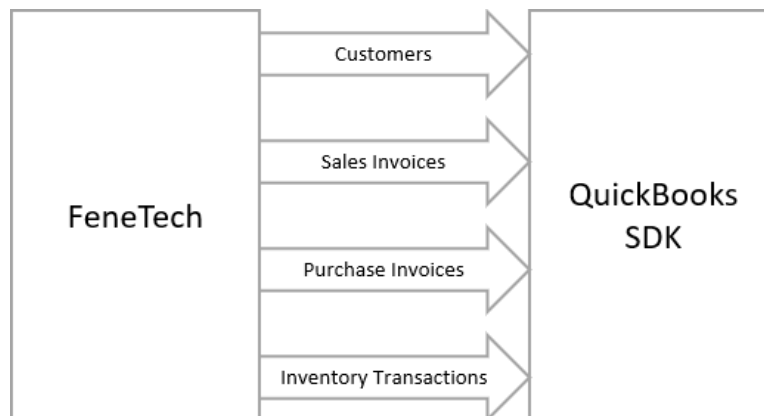
Import



Export



FeneTech® Accounting Interface



Setup

Setup of the interface within the FeneTech software will be completed by the FeneTech implementation team with assistance the customer to setup the QuickBooks software with a valid QuickBooks company file.

Database Deployment

QuickBooks uses communication between the FeneTech database and the QuickBooks software, which will use a company file, normally found on the production server, to store data for the QuickBooks software. To deploy the QuickBooks interface into the FeneTech database, the SQL scripts provided for the corresponding FeneTech software version should be run against the FVMaster database. The SQL scripts can be obtained by FeneTech employees and can be found in the QuickBooks specific accounting folder in the FeneTech software version that the customer will be running (\\fenstore\Archives\FeneVision\{SOFTWARE VERSION}\Accounting\QuickBooks GL\).

These SQL scripts will ensure that the proper tables and procedures are deployed to the FeneTech database. The FVMaster script will deploy/update several database objects including:

- Updates to the interfaces tables to enable the interface and import/export screens within the software.
- Updates the setup tables with the QuickBooks specific parameters that are listed below in the QuickBooks Settings section of this document.
- Updates the tab and column visibility tables to show only what is necessary mappings for the QuickBooks interface.
- Updates the required mappings table allow the process of staging to ensure that tables that are required to be mapped are or if the user needs to specify the account mapping before staging can occur.
- Updates the inventory export types table to allow specific inventory adjustment types to be staged and exported through the inventory transaction export.

Accounting Installation

A FeneTech software version specific accounting install will accompany the scripts that are to be run against the FVMaster database. This install should be run on all Core client machines, which includes the production server and any terminal servers that are running Core. The QuickBooks install can be obtained by FeneTech employees and can be found in the QuickBooks specific accounting folder in the FeneTech software version that the customer will be running (\\fenstore\Archives\FeneVision\{SOFTWARE VERSION}\Accounting\QuickBooks).

QuickBooks SDK Company File

The QuickBooks SDK interface uses a connection between the FeneTech software and a company file that is laid down by the QuickBooks SDK software. This company file should be in a location that is accessible over the network if there will be



FeneTech® Accounting Interface

multiple users importing and exporting to accounting. This company file must be accessible because both the FeneTech software and QuickBooks software will reference this file.

Prior to FeneTech software version 14.1, the file path is specified in a parameter within the Accounting Setup screen. However, in version 14.1 and later, the parameter has been deprecated and the company file assignment has moved to the Location Mapping tab of setup to support multiple company files based on location.

QuickBooks Settings

Within the FVMaster database, there are settings that are configured in the UI and through the database. These settings can be master data settings (settings for all accounting interfaces) which can be found in the FeneTech Accounting Parameters. However, there are also QuickBooks specific settings that are listed below. Be sure to review each setting during setup as some may not be configured as expected by the customer.

General Settings

The General Settings display as the first tab in the Setup screen located on the Accounting tab of Core. Below is a list of QuickBooks specific parameters that display within this screen. For information regarding these and other parameters within this screen that are part of the FeneTech software master data, please refer to the FeneTech Accounting Parameters spreadsheet found in SharePoint.

- CustomerExportDisableCreationOfNewCustomers
- CustomerExportPrimaryContactType
- CustomerUseCustomerIDAsQuickBooksCustomerName
- IncludeContactNameInCustomerBillingAddress
- IncludeContactNameInCustomerShippingAddress
- LetQuickBooksRecalculateTax
- QuickBooksCustomerIDUserDefNumber
- QuickBooksVendorIDUserDefNumber
- SalesInvoiceExportAutoCreateShipVia
- SalesInvoiceSendLineItemsAsItemCodes
- SalesInvoiceHeaderUserDef
- UseReceiptExportForFeneVisionPOInvoices

System Settings

The System Settings parameters are accounting parameters that configured within the act.SystemSetup table in the FVMaster database. There is no UI for these parameters. Below is a list of QuickBooks specific parameters within this table. For information regarding these and other parameters within this screen that are part of the FeneTech software master data, please refer to the FeneTech Accounting Parameters spreadsheet found in SharePoint.

- CACurrencyCulture
- InterfaceMode (1=IIF, 2=Desktop, 3=Online)
- USCurrencyCulture
- UseTaxItemForSalesInvoice

Account Mappings

Account mappings are required for any successful export. These accounts are mapped on various tabs that can be found in the Accounting Setup screen. For information regarding each possible account mapping please refer to the Accounting Master Document.

To complete this guide, it is required that mappings for the following testing section be configured. For the test, please configure valid accounts for all available account mappings on the Currency Mapping, Part Mapping and Tax Title Mapping



FeneTech® Accounting Interface

tabs. On the Part Mappings tab, add mappings to the first row and use the fill down (Ctrl + D) functionality to copy those mappings to all parts. The account mappings will be fine-tuned during interface implementation.

Note: If any other accounts are required to be mapped, a message will appear when attempting to stage that should be resolved by adding a valid value to that account mapping in the setup screen.

Creating Test Company File

It is recommended that before going live with QuickBooks, the testing that will be completed in the document as well as the Implementation & Testing guide should be done against a test company file. Once the interface is ready to go live, the product version of the company file can be used.

To create a test company file, copy and paste the original company file with a different name that indicates it is the test file. Then in the accounting setup screen, on the locations tab, set the Account System Locations mapping to the network location of the test file for the location that will be testing QuickBooks. If the FeneTech Software version is 14.1 or older, configure the QuickBooksCompanyFile parameter, in the accounting setup screen, with the network file location of the test file.

Connecting to QuickBooks

QuickBooks must be installed on any computer running the interface. QuickBooks must be open and log into the company file that FeneTech software will be communicating with. QuickBooks requires that the exact same path is used in both the QuickBooks application and in the FeneVision setup screen (path, not file). If QuickBooks is opened to [\\server\path\file.qbw](#), then FeneVision needs to use [\\server\path\file.qbw](#) for its parameter. Likewise, if QuickBooks is opened to Z:\path\file.qbw, then FeneVision needs to use Z:\path\file.qbw. If they are mismatched (even if the paths resolve to the same file), users will get an error that looks like this:

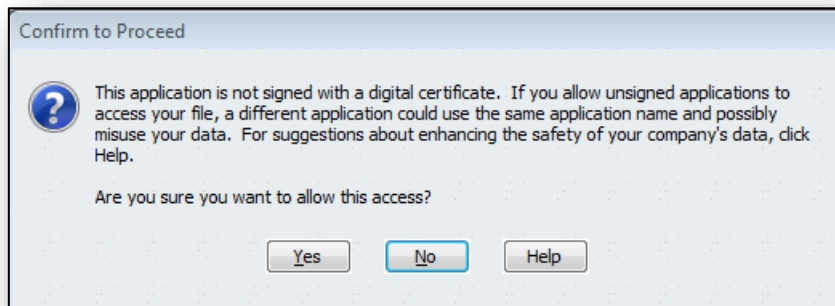
```
System.Runtime.InteropServices.COMException (0x8004040A): A QuickBooks company data file is already open and it is different from the one requested or there are multiple company files open.
```

The first time the interface connects with the QuickBooks company file the user will need to grant permission to the FeneVision interface. The user logging into QuickBooks must have sufficient permissions to grant the FeneTech software access to QuickBooks, typically an administrator account is used. Complete the following steps to properly grant access to QuickBooks:

1. Open QuickBooks and log in.
2. Open Core.
3. Initiate any of the imports or exports. QuickBooks will display the following notification:



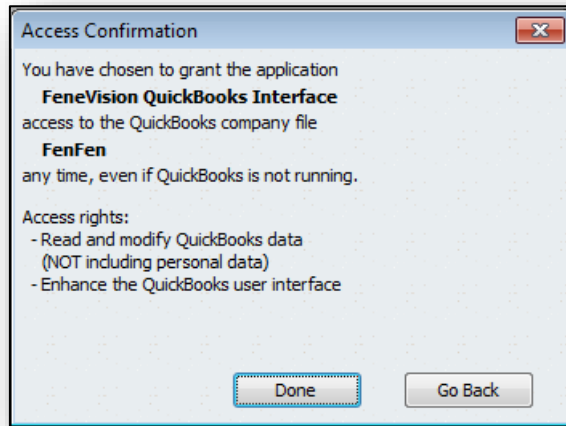
4. Select “Yes” to allow the software to access the company file. This interface does not need access to personal data. Select “Continue...”
5. QuickBooks will then display a warning stating the application is not digitally signed. Select “Yes” to allow access.



6. QuickBooks will then show a final confirmation.



FeneTech® Accounting Interface



7. Select “Done” to finish the QuickBooks configuration.

Testing

This section will include testing to make sure that the deployment and setup of the interface works, but does not include testing of accounts, values, balancing, etc. This testing should simply include making sure that imports and exports work and that the connection to the QuickBooks company file is being made.

1. Open the Imports menu on the accounting tab.
2. Select the Customer Open AR import button.
 - a. Verify that any customer configured in both QuickBooks and the FeneTech software receive the correct open AR value.
 - b. If an error occurs that suggest the connection the company file is made but the information couldn't be brought over due to a missing customer, that is enough for this test.
 - c. If an error occurs that does not indicate the connection the company file is being made, those issues must be resolved before moving forward.
3. Create a test Invoice Only order.
4. Invoice the order.
5. Post the invoice.
6. Attempt to export the invoice.
 - a. Verify that a message appears indicating that the accounts mapped do not match those configured in QuickBooks. This indicates the connection is being made properly.
 - b. If an error occurs that does not indicate the connection the company file is being made, those issues must be resolved before moving forward.

Troubleshooting

The import and export results prompt after completing an action will display a helpful error if one occurs that will help point the user in the direction of resolving the issue. Also, within the Setup screen is a tab called Account Log that displays information displayed on any successful or failed attempt to import or export that can help a user figure out where to begin resolving an issue.

QuickBooks needs to use the exact same path in both the QuickBooks application and in the FeneVision setup screen. Notice the use of path, not file. If QuickBooks is opened to [\\server\path\file.qbw](#), then FeneVision needs to use [\\server\path\file.qbw](#) for its parameter. Likewise, if QuickBooks is opened to Z:\path\file.qbw, then FeneVision needs to



FeneTech® Accounting Interface

use Z:\path\file.qbw. If they are mismatched (even if the paths resolve to the same file), users will get an error that looks like this:

```
System.Runtime.InteropServices.COMException (0x8004040A): A QuickBooks company data file is already open and it is different from the one requested or there are multiple company files open.
```

Add helpful tips for future implementations.



FeneTech® Accounting Interface

Appendix A – Field Mappings

Customers (Export)

FeneVision Field	QuickBooks field	Notes
Customer Name / CustomerID	Name	Depends on setting CustomerUseCustomerIDAsQuickBooksCustomerName. If 1 then use FeneVision CustomerID else use FeneVision Customer Name. Only customers in FeneVision that have the same CustomerID and SiteID will be processed.
Customer Name	CompanyName	
Customer Name	Bill Address 1	
Bill Contact Name	Bill Address 2	Depends on setting IncludeContactNameInCustomerShippingAddress and whether or not the contact name is set in FeneVision. If the setting is not 1, or the name is blank, then shift the addresses up by one (i.e. FV Addr1 = QB Addr2 and FV Addr2 = QB Addr3) and leave QB Addr4 blank
Bill Address 1	Bill Address 3	
Bill Address 2	Bill Address 4	
Bill Address City	Bill Address City	
Bill Address State	Bill Address State	
Bill Address Zip Code	Bill Address Postal Code	
Bill Address Country	Bill Address Country	
Customer Name	Ship Address 1	
Ship Contact Name	Ship Address 2	Depends on setting IncludeContactNameInCustomerShippingAddress and whether or not the contact name is set in FeneVision. If the setting is not 1, or the name is blank, then shift the addresses up by one (i.e. FV Addr1 = QB Addr2 and FV Addr2 = QB Addr3) and leave QB Addr4 blank
Ship Address 1	Ship Address 3	
Ship Address 2	Ship Address 4	



FeneTech® Accounting Interface

Ship Address City	Ship Address City	
Ship Address State	Ship Address State	
Ship Address Zip Code	Ship Address Postal Code	
Ship Address Country	Ship Address Country	
Contact Name	Contact	Depends on setting CustomerExportPrimaryContactType to determine if this is the primary main, bill, or ship contact
Contact Phone Number	Phone	Depends on setting CustomerExportPrimaryContactType to determine if this is the primary main, bill, or ship contact
Contact Fax Number	Fax	Depends on setting CustomerExportPrimaryContactType to determine if this is the primary main, bill, or ship contact
Contact Email Address	Email	Depends on setting CustomerExportPrimaryContactType to determine if this is the primary main, bill, or ship contact
Credit Limit	Credit Limit	Will clear the value in QuickBooks if the amount is 0 in FeneVision (indicates no credit limit)
Accounting Currency Mapping	Currency	Only used when QuickBooks has multicurrency enabled Mapped currency should match name in QuickBooks
Customer UserDef1	Customer Type	Only set if not blank in FeneVision
Terms	Terms	Only set if not blank in FeneVision This is not a mapped value. The Terms in FeneVision must match directly to the Terms in QuickBooks.

Open AR (Import)

FeneVision Field	QuickBooks field	Notes
Customer Name / CustomerID	Name	Depends on setting CustomerUseCustomerIDAsQuickBooksCustomerName. If 1 then use FeneVision CustomerID else use FeneVision Customer Name.



FeneTech® Accounting Interface

		Only customers in FeneVision that have the same CustomerID and SiteID will be processed.
Open Orders	Total Balance	
Customer Has Past Due Invoices (customer policy)		Check whether there are unpaid invoices in QuickBooks where the due date is more than X days past due, where X is the setting SalesInvoiceDaysPastDueToApplyHold (default 30 days)

(Sales) Invoices – todo ship via

FeneVision Field	QuickBooks field	Notes
Accounting Tax Schedule Mapping	Invoice Item Sales Tax	Only set if not blank in FeneVision Only set when this is a US edition of QuickBooks.
See notes	Customer Sales Tax Code	In order, this field is: Skipped if sales tax is disabled in QuickBooks Set to the parameter DefaultNonTaxableSalesTaxCodeName, falling back to the QB System default if the parameter is blank, if the invoice tax total is \$0 Set to Accounting Tax Schedule Mapping if this is a Canadian edition of QuickBooks Set to the parameter DefaultTaxableSalesTaxCodeName, falling back to the QB System default if the parameter is blank otherwise