



FeneTech® Accounting Interface

Dynamics Business Central Accounting Interface Functional Specification

Introduction

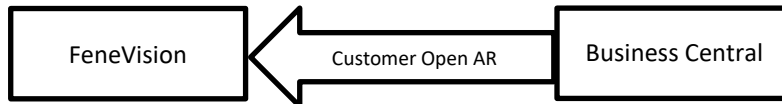
This document describes the functionality of the interface for the FeneTech Dynamics 365 Business Central Accounting Interface. This interface is designed to read from and write directly from Dynamics 365 Business Central.

Flow Charts

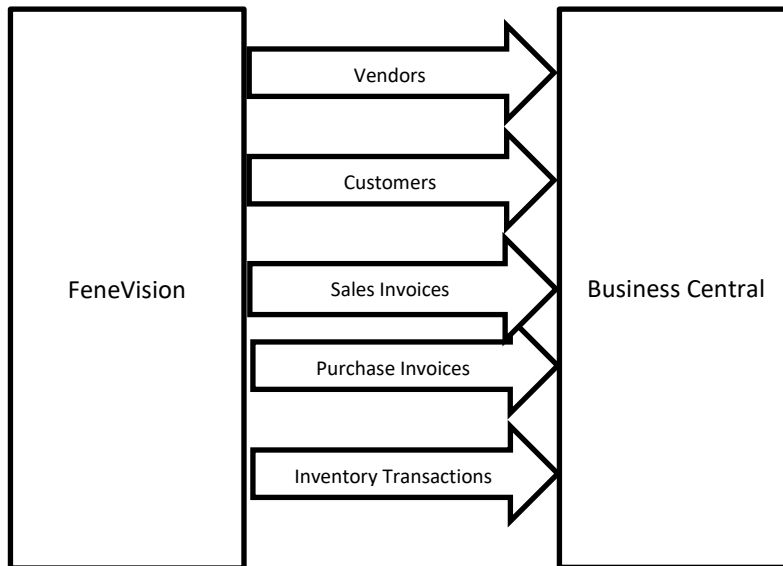
FeneTech Source

Visualization of the flow of accounting data when the environment is configured as the source being FeneTech.

Import



Export



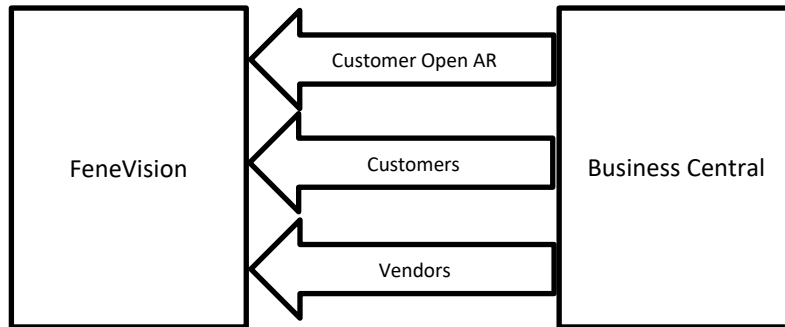


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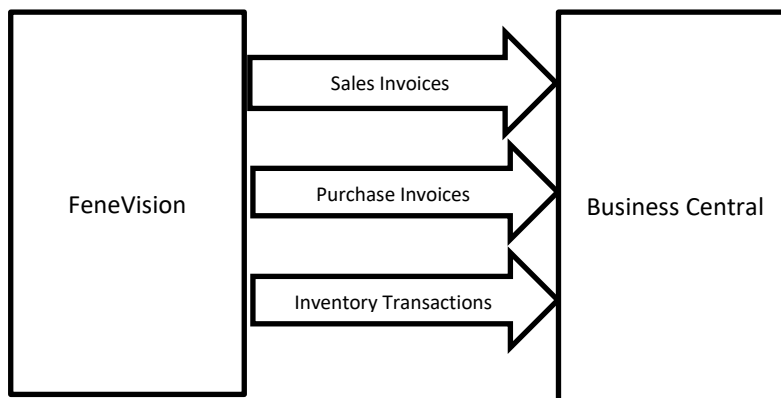
Accounting System as Customers and Vendors Source

Visualization of the flow of accounting data when the Accounting System is configured as the source for Customers and Vendors.

Import



Export



Setup

Setup of the interface within the FeneTech software will be completed by the FeneTech implementation team with assistance of the Dynamics Business Central supplier to set up the Dynamics Business Central software.

Database Deployment

To deploy the Dynamics BC 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 Dynamics BC specific accounting folder in the FeneTech software version that the customer will be running (\\fenstore\Archives\FeneVision\{SOFTWARE VERSION}\Accounting\Dynamics BC\).

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 Dynamics BC specific parameters listed below in this document's Dynamics BC Settings section.
- Updates the tab and column visibility tables to show only what are necessary mappings for the Dynamics BC 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.



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- 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 Dynamics BC install can be obtained by FeneTech employees and can be found in the Dynamics BC specific accounting folder in the FeneTech software version that the customer will be running (\\fenstore\Archives\FeneVision\{SOFTWARE VERSION}\Accounting\Dynamics BC).

Dynamics BC Environment

The Dynamics BC interface uses the standard Business Central APIs to connect to the customer environment.

Customers and Vendors will match up as customer or vendor records. Sales Invoices, PO Invoices, and Inventory Transactions will all be created as journal entries.

Dynamics BC 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 Dynamics BC 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 Dynamics BC 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.

- BusinessCentralCompanyName
- EncryptionKeyFilePath – this just need to be a file path that is accessible by all computers. The software will create the file and the data necessary.
- InventoryAdjustmentJournalBatchName
- InventoryAdjustmentJournalTemplateName
- ProductionJournalBatchName
- ProductionJournalTemplateName
- PurchaseVarianceJournalBatchName
- PurchaseVarianceJournalTemplateName
- PurchasesJournalBatchName
- PurchasesJournalTemplateName
- SalesCostJournalBatchName
- SalesCostJournalTemplateName
- SalesJournalBatchName
- SalesJournalTemplateName

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 Dynamics BC 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.



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- BusinessCentralTenantId
- BusinessCentralUrl – should be in the format `https://api.businesscentral.dynamics.com/v2.0/<tenantid>/<companyname>/api/v2.0` where only the bold sections need changed per implementation
- BusinessCentralAccessITCustomURL – should be in the format `https://api.businesscentral.dynamics.com/v2.0/<tenantid>/<companyname>/api/AccessIT/FNV/v2.0` where only the bold sections need changed per implementation (Needed for sites)
- OAuthClientID
- OAuthClientSecret
- OAuthClientSecretEncrypted

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 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.

Connecting to Dynamics Business Central

The client id, client secret, and tenant id must be filled in from Business Central configuration. The Dynamics Business Central Provider should be able to provide this information. Additionally, the Company Name should also be filled in (although the client should be able to identify this value easily).

Dimensions (Sales & Purchase Invoices)

This enhancement adds support for exporting Business Central dimensions on Sales Invoice and Purchase Invoice exports. Dimension values are applied directly to journal lines using Business Central shortcut dimension fields.

Dimensions are currently applied at the document header level in FeneVision. All journal lines generated for a given invoice share the same dimension values.

Scope

Included:

- Two header-level dimensions on Orders and Purchase Orders
- Employee-based default dimension values
- Validation against allowed dimension values
- Export of dimensions on all generated journal lines

Not included:

- Line-level dimension selection
- Dynamic or rule-based dimension assignment
- Dimension set creation or reuse



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User Interface

Order Entry (OE) and Purchase Order Entry (POE) expose two header fields: Dimension 1 and Dimension 2. The labels and valid values are implementation-specific and align with the configured Business Central shortcut dimensions. Selected values are stored at the document header level and applied to all exported journal lines.

Defaulting

Default dimension values may be configured per employee.

When an order or purchase order is created:

Default dimension values are loaded from employee configuration

Users may override values before posting

Final values persist with the document

Data Model

Dimension data is stored in dedicated tables to avoid expanding core Order and PurchaseOrder schemas and to support future extensibility. Primary tables include:

BusinessCentralDimensions

BusinessCentralAllowedDimensionValues

BusinessCentralEmployeeDefaultDimensionValues

BusinessCentralOrderDimensionValues

BusinessCentralPurchaseOrderDimensionValues

Each dimension is identified internally by DimensionID. Each selectable value maps to a DimensionValueCode, which is the value transmitted to Business Central.

Export Behavior

During Sales Invoice and Purchase Invoice export:

- Dimension values are read from the document header
- Dimension codes are populated on each journal line:
 - shortcutDimension1Code
 - shortcutDimension2Code
- All journal lines generated for a document include the same dimension values

Dimensions are sent as part of the journal line payload and do not rely on separate dimension set APIs.

Validation

Before staging or export, selected dimension values must exist in the allowed values table, and required dimensions must be populated if enforced by configuration. Invalid or missing dimension data will prevent export and error.

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 Business Central is made.

1. Open the Imports menu on the accounting tab.
2. Select the Customer Open AR import button.



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- a. Verify that any customer configured in both Dynamics BC 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 Dynamics BC. 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

Add helpful tips for future implementations.



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APPENDIX A – Mapping Details

- Customers (Import or Export)**

FeneVision Field	Business Central Field	Notes
CustomerID / SiteID	No.	FeneVision will use the same field for CustomerID and SiteID
CustomerName / SiteName	Name	
BillingAddress1	Address	
BillingAddress2	Address 2	
BillingCity	City	
BillingState	State	
BillingZipCode	ZIP Code	
BillingCountry	Country/Region Code	Requires the country in FV to match the Name in BC
BillingPhone	Phone No.	
BillingEmail	Email	
CreditLimit	Credit Limit (\$)	
AcctSystemCurrency	Currency Code	Uses Currency Mapping to match BC value
OpenOrders	Balance Due (LCY)	Import only
AcctSystemTerms	Payment Terms Code	Uses Terms Mapping to match BC value

- Customer Open AR**

FeneVision Field	Business Central Field	Notes
CustomerID / SiteID	No.	FeneVision will use the same field for CustomerID and SiteID
OpenOrders	Balance Due (LCY)	Import only

- Sales Invoices**

FeneVision Field	Business Central Field	Notes
Document Total Journal Line		
InvoiceNumber	Document No.	
"Customer"	Account Type	Hardcoded value
CustomerID	Account No.	This links the document to the customer and to the appropriate AR account
InvoiceTotal	Amount	
InvoiceDate	Posting Date	
GL Entry Journal Line(s)		
InvoiceNumber	Document No.	
"G/L Account"	Account Type	Hardcoded value
GL Account	Account No.	Sales Revenue account for parts, Tax Title sales account for taxes, etc
GL Amount	Amount	
InvoiceDate	Posting Date	

- Sales Costs**

FeneVision Field	Business Central Field	Notes
InvoiceNumber	Document No.	
"G/L Account"	Account Type	Hardcoded value
GL Account	Account No.	COGS, Finished Goods (separate rows for each)



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GL Amount	Amount	
InvoiceDate	Posting Date	

- Inventory Transactions**

FeneVision Field	Business Central Field	Notes
InvTransID	Document No.	
"G/L Account"	Account Type	Hardcoded value
GL Account	Account No.	Raw Material, Finished Goods, etc
GL Amount	Amount	
InvTransDate	Posting Date	

- Purchase Invoices**

FeneVision Field	Business Central Field	Notes
Document Total Journal Line		
InvoiceNumber	Document No.	
"Vendor"	Account Type	Hardcoded value
VendorID	Account No.	This links the document to the vendor and to the appropriate AP account
InvoiceTotal	Amount	
InvoiceDate	Posting Date	
GL Entry Journal Line(s)		
InvoiceNumber	Document No.	
"G/L Account"	Account Type	Hardcoded value
GL Account	Account No.	Raw Material account for parts, Tax Title purchase account for taxes, etc
GL Amount	Amount	
InvoiceDate	Posting Date	

- Vendors (Import or Export)**

FeneVision Field	Business Central Field	Notes
VendorID	No.	
VendorName	Name	
Address1	Address	
Address2	Address 2	
City	City	
State	State	
ZipCode	ZIP Code	
Country	Country/Region Code	Requires the country in FV to match the Name in BC
Phone	Phone No.	
Email	Email	
AcctSystemCurrency	Currency Code	Uses Currency Mapping to match BC value
AcctSystemTerms	Payment Terms Code	Uses Terms Mapping to match BC value