THINKDATA INC.

Clarion Third Party Add-Ons

qbFUSE User Guide

qbFUSE 1.3 User Guide

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Introduction

Overview

T he qbFUSE product provides a native COM (Component Object Model) automation interface to Intuit's QuickBooks Foundation Classes (QBFC) SDK using Clarion 5.5 and Clarion 6. It relies on the Plugware COM classes which encapsulate the major portions of the COM Application Programming Interface (API) specification as designed by Microsoft. The Plugware COM classes usher in a new era of stability and performance when writing COM automation interfaces in Clarion. Full source code to these classes has been provided along with detailed examples demonstrating how to use the qbFUSE product. This gives the developer/end-user an opportunity to understand the underlying principles of COM while providing an open and stable platform from which to develop additional automation interfaces. The example applications included demonstrate early bound interface functionality to QuickBooks and are in no way intended to be an exhaustive demonstration of the power of the QuickBooks COM object model.

Intuit has announced that they have no plans to make any further major improvements to .iif files which have been used to create integrations with previous versions of QuickBooks. With the qbXML spec, Intuit is committed to providing much more consistent and seamless methods of integrating third-party applications with QuickBooks, for the benefit of developers and customers alike. The QBFC wraps the qbXML specification so you can write applications which share data with QuickBooks without having to build and parse qbXML in your code. Using QBFC you can manipulate the COM objects rather than raw qbXML yet still have access to all the functionality of qbXML. This makes qbFUSE the only Clarion product in the world capable of supporting the very latest technology for QuickBooks from Intuit.

Prerequisites

The QBFC (QuickBooks Foundation Classes) SDK can be downloaded from the Intuit web site via the following link: http://developer.intuit.com/downloads/

You must install the QBFC SDK before using qbFUSE and running the included demo application. With qbFUSE you can write applications to integrate with any of the following QuickBooks products:

- QuickBooks Pro 2003

- QuickBooks Premier 2003

- QuickBooks 2003 Canadian Edition

- QuickBooks Pro 2002

- QuickBooks Premier 2002

- QuickBooks Premier: Accountant Edition 2002

We recommend reading the Intuit Developer Network Getting Started Guide to get a good understanding of what is provided in the QBFC SDK. You can view it at Intuit's web site: http://developer.intuit.com/Downloads/quickbooks/sdk/doc/gsidn.pdf

This manual is targeted at intermediate Clarion 5.5 programmers with some Win32 programming experience and a basic understanding of COM. It is not intended to be a primer on COM – for that we recommend the following reading list.

Inside COM by Dale Rogerson.
> This book discloses the secrets of COM programming for the advanced engineer. It includes many sample programs on CD-ROM. (Microsoft Press, ISBN 1-57231-349-8)

Essential COM by Don Box
> This text covers the motivation for the design of COM and its distributed aspects. It shows how COM works and contains coverage of the core concepts of distributed COM including detailed descriptions of COM theory and remote servers. It also offers a thorough explanation of COM's basic vocabulary. (Addison Wesley ISBN 0-201-63446-5)

The Plugware COM classes and qbFUSE product are written entirely in Clarion 5.5. Earlier versions of Clarion are not currently supported because of improvements in the compiler to support interfaces.

Installation

To install qbFUSE, simply execute the supplied qbfuse.exe file and follow the instructions in the installation program. qbFUSE consists of Clarion source files, documentation and example applications. The default installation directory (\C55) is located based on your Clarion 5.5 installation. If you choose \C55 as the installation directory the installer will place files in the following order:

\C55\Libsrc – The following source files for the Plugware COM classes and the QuickBooks QBFC SDK 2.1 wrapper will default to this directory:

```
pwapi.inc
pwapifnc.inc
pwcomdef.inc
pwcom.inc
pwcom.clw
pwheap.inc
pwheap.clw
qbf.inc
qbf.clw
qbf1.inc
qbf1.clw
qbf2.inc
qbf2.clw
qbf3.inc
qbf3.clw
qbf4.inc
qbf4.clw
qbf5.inc
qbf5.clw
qbf6.inc
qbf6.clw
qbf7.inc
qbf7.clw
qbf8.inc
qbf8.clw
qbf9.inc
qbf9.clw
qbf10.inc
qbf10.clw
qbfdef.inc
qbfint.inc
qbfiid.inc
```

\C55\Docs\qbFUSE – qbFUSE documentation including:

```
qbfuse.pdf
```

\C55\Examples\qbFUSE – Source files for the example applications including:

```
qbfuse.clw
qbfuse.prj
qbfuse.exe
qbfapp.app
qbfapp.dct
qbfapp.exe
thinkdata.ico
```

The demo executables in \C55\Examples\qbFUSE have been compiled with the QuickBooks SDK v2.1 wrapper under Clarion 5.5H.

Plugware COM Overview

The Plugware COM classes, written by Plugware Solutions.com Ltd., provide the Clarion developer with a set of classes to encapsulate the COM API natively in Clarion. Now, for the first time ever, any developer can write pure Clarion source code to interface with COM objects using native early or late binding without worrying about stability, performance, or flexibility. The first major section of this manual will be spent documenting the features and design of the Plugware COM classes while the second major section will discuss the specific features of the qbFUSE wrappers and

example applications. So without further ado let us explore the Plugware COM classes!

The Plugware COM classes ship as seven files in the installation set included with qbFUSE. These files are:

pwapi.inc – Contains a large number of the Win32 API data types and constants. It is included by the pwcomdef.inc file.

pwapifnc.inc – Contains a large number of the Win32 API function prototypes for Clarion. It is included by the pwcomdef.inc file.

pwcomdef.inc – Contains the common interfaces (IUnknown, IDispatch, ITypeInfo), common data types for implementing COM automation, and the function prototypes for Win32 API calls used by the COM classes. It is included by the pwcom.inc file.

pwcom.inc – Contains the class definitions for the early and late binding implementations of generic COM objects including COM string classes, variant factory object and dispatch interface wrapper.

pwcom.clw – Contains the source implementation of the classes defined in pwcom.inc.

pwheap.inc – Contains the class definition for the PWHeap class which is used by the string classes to allocate memory properly. It is included by the pwcom.clw file.

pwheap.clw – Contains the source implementation of the class defined in pwheap.inc.

String Classes

There are four classes provided to deal with strings in COM. Figure 1.1 shows the inheritance relationships of these classes.
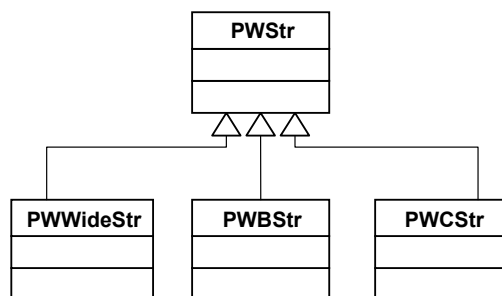
FIGURE 1.1 The relationship between the parent PWStr class and the derived classes PWWideStr, PWBStr (BSTR or binary string support in COM) and PWCStr

The PWStr is the parent class of the three other classes. It contains a virtual destructor which calls the PWStr.Release method to handle freeing the memory for the string. The PWWideStr class is used internally by the PWBStr class to allocate memory and map a character string to a wide-character (Unicode) string. The two classes of interest to the developer are the PWBStr and PWCStr classes.

The PWBStr class was written to support the COM BSTR data type. A BSTR is a pointer to a wide character string and is sometimes referred to as a Basic string or binary string. The PWBStr can take a Clarion cstring or string in its initialization method and the PWBStr.GetStr() method will be called when the developer wishes to pass a BSTR to a COM object. Please see page 13 for an example of how to use BSTRs in qbFUSE.

The PWCStr class is designed to retrieve a Clarion cstring from a PWBStr object. It will be used frequently to retrieve string output parameters from calls to COM objects. It operates in the reverse of the PWWideStr by calling the WideCharToMultiByte API function to map a wide-character (Unicode) string to a character string. Please see page 21 for an example of how to use PWCStr in qbFUSE.

Helper Classes

There are four classes provided for making the process of interfacing to the Win32 COM API easier. The first is the PWCOMIniter which should be the first object declared for each thread using the Plugware COM classes. It calls the Win32 API function CoInitialize() to initialize COM for that thread. When its destructor is called the CoUnInitialize() API function is called. The example application shows proper use of the PWCOMIniter by declaring it before any of the other Plugware COM classes.

The PWCOMError class is responsible for translating COM errors returned as HRESULTs into something readable to the developer or end user. The example application contains a procedure called *ShowCOMError* which demonstrates proper use of the PWCOMError.GetError method.

The PWDateTime class converts Clarion dates and times into values compatible with COM objects. The GetAsCOleDateTime method will be used whenever you wish to pass a Clarion date/time to a COM object. The example applications show how to use the PWDateTime class to pass dates to QuickBooks and to retrieve dates from QuickBooks and format them as Clarion dates.

Finally, the PWInvokeHelper class is used in late binding automation to handle parameter passing to COM object methods. Some COM objects have methods which take large numbers of parameters and the PWInvokeHelper will be when the COM

object method takes more than 10 parameters. The uses of the PWInvokeHelper will be covered in the section on Late Binding.

Early Binding Automation

The PWCOMObject class defined in pwcom.clw is responsible for handling the low level instantiation of COM objects and the proper release of those interfaces once the developer is finished using them. The PWDispatch class used in Late Binding Automation is actually derived from the PWCOMObject and will be covered in the next section.
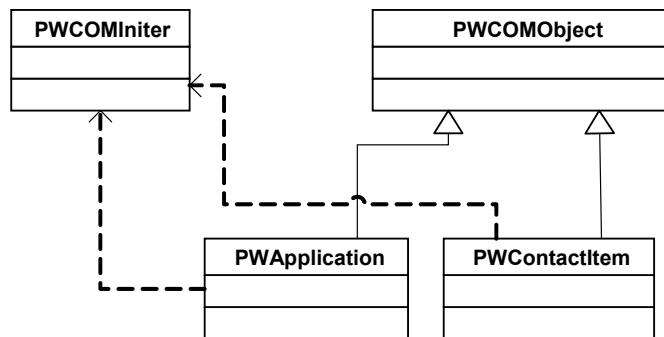

FIGURE 1.2 The relationship between the PWCOMObject and two of the Outlook COM objects, PWApplication and PWContactItem. The dotted arrows indicate that the child objects are reliant on a PWCOMIniter being instantiated for the current thread.

The methods of interest to the developer inside the PWCOMObject class are:

PWCOMObject.AttachExisting procedure(RCLSID rclsid, REFIID riid) - Attaches the object to an existing instance of the CLSID passed in, if it exists, and attaches itself to the IID passed as the second parameter.

PWCOMObject.CreateInstance procedure(REFCLSID rclsid, REFIID riid, long dwClsContext = CLSCTX_ALL) – Uses the CoCreateInstance API call to create an instance of the CLSID passed in. It attaches itself to the IID passed as the second parameter. The third parameter is the context in which the code that manages the newly created object will run in. It is taken from the CLSCTX itemized equates defined in pwcomdef.inc.

PWCOMObject.GetInterface procedure(long pInterface, REFIID riid, *long pvObject, short fRelease) – This method returns an interface from a pointer to an IDispatch or IUnknown interface. The first parameter contains the long pointer to the IDispatch interface passed in. The second parameter contains the IID of the interface we wish to get back from the internal call to QueryInterface. The third parameter will contain a pointer to the output interface. The fourth parameter is a true/false flag where a true will cause the internally referenced IUnknown to release. This method

will be used most frequently in the early binding automation when a procedure call returns a pointer to an IDispatch. An example of using the GetInterface method is contained in the demo application olfuse.clw in the procedure *NewContactEarlyBound.*

PWCOMObject.QueryInterface procedure(REFIID riid, *long pvObject) – This method calls QueryInterface on the object wrapped in the current PWCOMObject. This might be used when attaching PWCOMObject to IUnknown interfaces to determine what kind of interface is contained in the object.

PWCOMObject.AddRef procedure – This is equivalent to calling IUnknown.AddRef and is used internally by the PWCOMObject class.

PWCOMObject.Release procedure – This method releases the interface contained in the PWCOMObject and is equivalent to calling IUnknown.Release. It maintains an internal reference count to ensure that the object is released at the proper time.

PWCOMObject.Attach procedure(long pUnk, short fNoAddRef = false) – This method attaches the object to a passed pointer to an IUnknown interface. The first parameter contains the long pointer to the IUnknown interface we wish to attach to. The second parameter determines whether we should call IUnkown.AddRef on this interface.

Late Binding Automation

The PWDispatch class defined in pwcom.clw is the derived late bound version of the PWCOMObject class. It encapsulates much of the functionality of working with IDispatch interfaces. PWDispatch has been designed to abstract complexity away from the development of COM automation solutions by providing a simple interface with functions to perform type conversions and variant parameter passing. Figure 1.3 shows the relationship between PWDispatch and the classes it relies upon to get its job done.
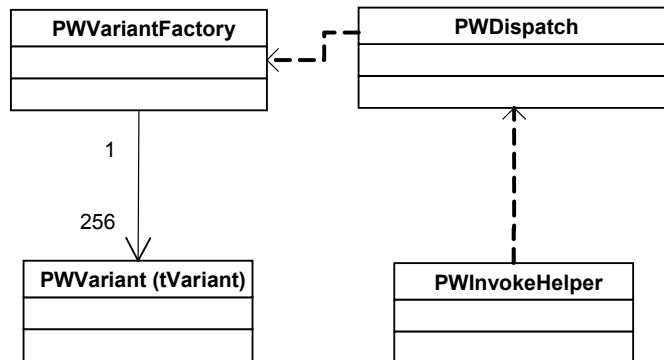
FIGURE 1.3 The PWVariantFactory object is a dependency of the PWDispatch class because variants are cached in the global PWVariantFactory when handling the Invoke calls to the COM object inside PWDispatch. PWVariantFactory can have a maximum of 256 cached variants at a time. PWInvokeHelper can be used independently of the PWVariantFactory to prepare parameter lists and call Invoke on them.

PWVariantFactory is a class used by a global helper function called _vt. The _vt function will convert Clarion data types into variants suitable for passing to COM objects. The PWVariantFactory is globally instantiated and it is responsible for caching the variants created when _vt is called. The PWVariantFactory stores a maximum of 256 cached variants to conserve memory (this can be edited in the PWVariantFactory.Construct method in pwcom.clw) so you will see references to PWVariantFactory.Release() in the examples to clear the cache for re-use.

The PWDispatch class relies on internal PWInvokeHelper objects inside its Invoke methods to handle initializing the parameter lists before calling IDispatch.Invoke. There are four versions of the PWDispatch.Invoke class which are of particular note. They take 0, 1, 5, and 10 variant parameters respectively. This allows the COM developer to pass optional parameters to procedures which take a long list. For those rare instances in which you will need to pass more than 10 parameters to a COM procedure you will need to instantiate your own PWInvokeHelper and use the self.SetParam method similarly to the way it is used in the PWDispatch.Invoke method for 10 parameters declared in pwcom.inc.

The methods of interest to the developer inside the PWDispatch class are:

PWDispatch.CreateInstance procedure(*cstring szObject) – Take a passed cstring containing the name of the object to instantiate (i.e. 'Outlook.Application' for Microsoft Outlook) and handles the internal calls into the COM API to call CoCreateInstance on the proper CLSID.

PWDispatch.CreateInstance procedure(*cstring szProgID, long flags) – An overloaded version of the CreateInstance above which takes a second parameter containing the context in which the code that manages the newly created object will run in. It is taken from the CLSCTX itemized equates defined in pwcomdef.inc.

PWDispatch.AttachExisting procedure(RCLSID rclsid) - Attaches the object to an existing instance of the CLSID passed in, if it exists. The PWDispatch will then be attached to the IDispatch interface of the object referenced by the CLSID.

PWDispatch.AttachExisting procedure(*cstring szProgID) – An overloaded version of the AttachExisting above which takes a cstring containing the name of the existing instance of an object to attach to (i.e. 'Outlook.Application' will attach to an existing instance of Microsoft Outlook).

PWDispatch.Attach procedure(long pIDisp, short fNoAddRef) – This method attaches the object to a passed pointer to an IDispatch interface. The first parameter

contains the long pointer to the IDispatch interface we wish to attach to. The second parameter determines whether we should call IDispatch.AddRef on this interface.

<u>PWDispatch.Attach procedure(*tVariant vtDisp, short fNoAddRef)</u> – An overloaded version of the Attach above which takes a variant parameter containing an IDispatch interface instead of a long pointer to the interface. This allows us to attach a PWDispatch to an output parameter from a call to PWDispatch.Invoke.

<u>PWDispatch.Attach procedure(*IDispatch IDisp, short fNoAddRef)</u> – An overloaded version of the Attach above which takes an IDispatch interface parameter rather than a long pointer or a variant.

We alluded to the Invoke methods on page 7 and discussed the fact that there are several different versions depending on the number of parameters the COM method may take. Optional parameters are handled easily with the variant vtMissing declared globally in the Plugware COM classes. vtMissing can be used to pass empty or optional parameters to the COM methods. The next section covers the use of the PWDispatch.Invoke method (which is a wrapper around the IDispatch.Invoke COM method) and gives examples of using the vtMissing variant to pass empty or optional parameters.

<u>PWDispatch.Invoke procedure(*cstring szMember, long wFlags, *tVariant vtRet, short fDispatchPut)</u> – This version of PWDispatch.Invoke takes no input parameters. The first parameter is a cstring containing the name of the member method or property to invoke. The second parameter is a flag for IDispatch::Invoke and can be one of the following constants declared in pwcomdef.inc:

DISPATCH_METHOD – This Member is a COM object method to execute
DISPATCH_PROPERTYGET – This Member is a property we wish to retrieve
DISPATCH_PROPERTYPUT – This Member is a property we wish to put
DISPATCH_PROPERTYPUTREF – This Member is a property we wish to but by reference, not by value

The third parameter is a variant output parameter from the Invoke call. It will contain the return value from the call to IDispatch.Invoke once it has completed. The fourth parameter is a true/false flag and should be set to true only when the COM object expects a put-by-reference rather than a put-by-value. An example call is listed below:

```
szMember = 'Count'
hr = DispInboxItems.Invoke(szMember, DISPATCH_PROPERTYGET, vtIDisp)
```

<u>PWDispatch.Invoke procedure(*cstring szMember, long wFlags, *tVariant vtParam1, *tVariant vtRet, short fDispatchPut = false)</u> – This version of PWDispatch.Invoke is identical to the one above except it takes one input parameter called vtParam1. The other parameters are treated the same as the version which takes no input parameters. An example call is listed below:

```
szMember = 'GetDefaultFolder'
hr = DispNamespace.Invoke(szMember, DISPATCH_METHOD, _vt(lolFolderInbox), vtIDisp)
```

PWDispatch.Invoke procedure(*cstring szMember, long wFlags, long nParams, *tVariant vtParam1, *tVariant vtParam2, *tVariant vtParam3, *tVariant vtParam4, *tVariant vtParam5, *tVariant vtRet, short fDispatchPut) – This version of PWDispatch.Invoke is identical to the one above except it takes five input parameters called vtParam1, vtParam2, vtParam3, vtParam4, and vtParam5. This method can be used for procedures which take between 1 and 5 parameters because we can pass a vtMissing for parameters which we wish to omit. An example call listed below uses this version to call a method requiring only one parameter:

```
szMember = 'GetDefaultFolder'
hr = DispNamespace.Invoke(szMember, DISPATCH_METHOD, _vt(lolFolderInbox), _vt(vtMissing), _vt(vtMissing),
_vt(vtMissing), _vt(vtMissing), vtIDisp)
```

PWDispatch.Invoke procedure(*cstring szMember, long wFlags, long nParams, *tVariant vtParam1, *tVariant vtParam2, *tVariant vtParam3, *tVariant vtParam4, *tVariant vtParam5, *tVariant vtParam6, *tVariant vtParam7, *tVariant vtParam8, *tVariant vtParam9, *tVariant vtParam10, *tVariant vtRet, short fDispatchPut) – This version of PWDispatch.Invoke is identical to the one above except it takes ten input parameters called vtParam1, …, vtParam10. This method can be used for procedures which take between 1 and 10 parameters using the vtMissing variant.

qbFUSE Overview

qbFUSE consists of generated wrapper classes for the QuickBooks Foundation Classes (QBFC) SDK version 2.1. The source files encapsulate the interfaces and data types for QuickBooks automation.

The source files which form the qbFUSE product and the early bound version of the QBFC COM object model are:

qbfiid.inc – Contains the definitions for the CLSID and IID values for the entire QBFC object model. It is included by the qbfint.inc file.

qbfint.inc – Contains the QBFC object model interfaces defined with Clarion compatible prototypes. It is included by the qbf.inc.

qbfdef.inc – Contains the QBFC object model constants defined as Clarion equates. It is included by the qbfint.inc file.

outlook.inc – Contains the generated Plugware COM classes to implement the interfaces defined in qbfint.inc.

qbf.clw – qbf16.clw – These 17 source files contain the source implementation of the classes defined in qbf.inc – qbf16.inc.

qbf.inc – qbf16.inc – These 17 source files contain the class definitions of the classes implemented in qbf.inc – qbf16.clw.

This manual assumes that you have access to the QuickBooks SDK documentation contained in the installation of the SDK available from Intuit. It will be helpful to refer to to the *QuickBooks Foundation Class (QBFC) Library Programmer Guide* and the *QuickBooks SDK Version 2.1 Reference Manual* when you are developing solutions using qbFUSE.

List of Interfaces

The following table lists the interfaces contained in the qbFUSE product along with their equivalent QuickBooks interface name and their file location. Due to the size of the wrapper and Clarion's limitations with respect to the number of class definitions in each source file, qbFUSE has been split up into many source files with each one having 35 class definitions corresponding to an interface in QuickBooks. Please refer to the QBFC SDK documentation for more details on what each interface accomplishes when automating QuickBooks.

qbFUSE Interface	QuickBooks Interface	Source File
QBFIAccountAdd	IAccountAdd	qbf11.inc
QBFIAccountAdd	IAccountAdd	qbf14.inc
QBFIAccountFilter	IAccountFilter	qbf11.inc
QBFIAccountFilter	IAccountFilter	qbf14.inc
QBFIAccountingPreferences	IAccountingPreferences	qbf11.inc
QBFIAccountingPreferences	IAccountingPreferences	qbf13.inc
QBFIAccountListFilter	IAccountListFilter	qbf11.inc
QBFIAccountListFilter	IAccountListFilter	qbf14.inc
QBFIAccountQuery	IAccountQuery	qbf11.inc
QBFIAccountQuery	IAccountQuery	qbf14.inc
QBFIAccountRet	IAccountRet	qbf11.inc
QBFIAccountRet	IAccountRet	qbf14.inc
QBFIAccountRetList	IAccountRetList	qbf11.inc
QBFIAccountRetList	IAccountRetList	qbf14.inc
QBFIAddress	IAddress	qbf11.inc
QBFIAddress	IAddress	qbf13.inc
QBFIAgingReportQuery	IAgingReportQuery	qbf11.inc
QBFIAgingReportQuery	IAgingReportQuery	qbf13.inc
QBFIAppliedToTxnAdd	IAppliedToTxnAdd	qbf11.inc
QBFIAppliedToTxnAdd	IAppliedToTxnAdd	qbf13.inc

QBFIAppliedToTxnAddList	IAppliedToTxnAddList	qbf11.inc
QBFIAppliedToTxnAddList	IAppliedToTxnAddList	qbf13.inc
QBFIAppliedToTxnRet	IAppliedToTxnRet	qbf11.inc
QBFIAppliedToTxnRet	IAppliedToTxnRet	qbf13.inc
QBFIAppliedToTxnRetList	IAppliedToTxnRetList	qbf11.inc
QBFIAppliedToTxnRetList	IAppliedToTxnRetList	qbf13.inc
QBFIAttributesRqSet	IAttributesRqSet	qbf11.inc
QBFIAttributesRqSet	IAttributesRqSet	qbf14.inc
QBFIAttributesRsSet	IAttributesRsSet	qbf11.inc
QBFIAttributesRsSet	IAttributesRsSet	qbf14.inc
QBFIBasicPropertyType	IBasicPropertyType	qbf11.inc
QBFIBasicPropertyType	IBasicPropertyType	qbf14.inc
QBFIBillAdd	IBillAdd	qbf11.inc
QBFIBillAdd	IBillAdd	qbf13.inc
QBFIBillFilter	IBillFilter	qbf11.inc
QBFIBillFilter	IBillFilter	qbf13.inc
QBFIBillPaymentCheckAdd	IBillPaymentCheckAdd	qbf11.inc
QBFIBillPaymentCheckAdd	IBillPaymentCheckAdd	qbf13.inc
QBFIBillPaymentCheckQuery	IBillPaymentCheckQuery	qbf11.inc
QBFIBillPaymentCheckQuery	IBillPaymentCheckQuery	qbf13.inc
QBFIBillPaymentCheckRet	IBillPaymentCheckRet	qbf11.inc
QBFIBillPaymentCheckRet	IBillPaymentCheckRet	qbf13.inc
QBFIBillPaymentCheckRetList	IBillPaymentCheckRetList	qbf11.inc
QBFIBillPaymentCheckRetList	IBillPaymentCheckRetList	qbf13.inc
QBFIBillPaymentCreditCardAdd	IBillPaymentCreditCardAdd	qbf11.inc
QBFIBillPaymentCreditCardAdd	IBillPaymentCreditCardAdd	qbf13.inc
QBFIBillPaymentCreditCardQuery	IBillPaymentCreditCardQuery	qbf11.inc
QBFIBillPaymentCreditCardQuery	IBillPaymentCreditCardQuery	qbf13.inc
QBFIBillPaymentCreditCardRet	IBillPaymentCreditCardRet	qbf10.inc
QBFIBillPaymentCreditCardRet	IBillPaymentCreditCardRet	qbf13.inc
QBFIBillPaymentCreditCardRetList	IBillPaymentCreditCardRetList	qbf10.inc
QBFIBillPaymentCreditCardRetList	IBillPaymentCreditCardRetList	qbf13.inc
QBFIBillQuery	IBillQuery	qbf10.inc
QBFIBillQuery	IBillQuery	qbf13.inc
QBFIBillRet	IBillRet	qbf10.inc
QBFIBillRet	IBillRet	qbf13.inc
QBFIBillRetList	IBillRetList	qbf10.inc
QBFIBillRetList	IBillRetList	qbf13.inc
QBFIBillToPay	IBillToPay	qbf10.inc
QBFIBillToPay	IBillToPay	qbf13.inc
QBFIBillToPayQuery	IBillToPayQuery	qbf10.inc
QBFIBillToPayQuery	IBillToPayQuery	qbf13.inc
QBFIBillToPayRet	IBillToPayRet	qbf10.inc
QBFIBillToPayRet	IBillToPayRet	qbf13.inc
QBFIBillToPayRetList	IBillToPayRetList	qbf10.inc
QBFIBillToPayRetList	IBillToPayRetList	qbf13.inc

QBFIBSTRList	IBSTRList	qbf11.inc
QBFIBSTRList	IBSTRList	qbf13.inc
QBFICashBackInfoAdd	ICashBackInfoAdd	qbf10.inc
QBFICashBackInfoAdd	ICashBackInfoAdd	qbf13.inc
QBFICashBackInfoRet	ICashBackInfoRet	qbf10.inc
QBFICashBackInfoRet	ICashBackInfoRet	qbf13.inc
QBFIChargeAdd	IChargeAdd	qbf10.inc
QBFIChargeAdd	IChargeAdd	qbf13.inc
QBFIChargeQuery	IChargeQuery	qbf10.inc
QBFIChargeQuery	IChargeQuery	qbf13.inc
QBFIChargeRet	IChargeRet	qbf10.inc
QBFIChargeRet	IChargeRet	qbf13.inc
QBFIChargeRetList	IChargeRetList	qbf10.inc
QBFIChargeRetList	IChargeRetList	qbf13.inc
QBFICheckAdd	ICheckAdd	qbf10.inc
QBFICheckAdd	ICheckAdd	qbf13.inc
QBFICheckQuery	ICheckQuery	qbf10.inc
QBFICheckQuery	ICheckQuery	qbf13.inc
QBFICheckRet	ICheckRet	qbf10.inc
QBFICheckRet	ICheckRet	qbf13.inc
QBFICheckRetList	ICheckRetList	qbf10.inc
QBFICheckRetList	ICheckRetList	qbf13.inc
QBFIClassAdd	IClassAdd	qbf10.inc
QBFIClassAdd	IClassAdd	qbf12.inc
QBFIClassQuery	IClassQuery	qbf10.inc
QBFIClassQuery	IClassQuery	qbf12.inc
QBFIClassRet	IClassRet	qbf10.inc
QBFIClassRet	IClassRet	qbf12.inc
QBFIClassRetList	IClassRetList	qbf10.inc
QBFIClassRetList	IClassRetList	qbf12.inc
QBFIClearedStatusMod	IClearedStatusMod	qbf10.inc
QBFIClearedStatusMod	IClearedStatusMod	qbf12.inc
QBFIColData	IColData	qbf10.inc
QBFIColData	IColData	qbf12.inc
QBFIColDataList	IColDataList	qbf10.inc
QBFIColDataList	IColDataList	qbf12.inc
QBFIColDesc	IColDesc	qbf10.inc
QBFIColDesc	IColDesc	qbf12.inc
QBFIColDescList	IColDescList	qbf10.inc
QBFIColDescList	IColDescList	qbf12.inc
QBFIColTitle	IColTitle	qbf10.inc
QBFIColTitle	IColTitle	qbf12.inc
QBFIColTitleList	IColTitleList	qbf10.inc
QBFIColTitleList	IColTitleList	qbf12.inc
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QBFIJournalEntryQuery	IJournalEntryQuery	qbf5.inc
QBFIJournalEntryQuery	IJournalEntryQuery	qbf7.inc
QBFIJournalEntryRet	IJournalEntryRet	qbf5.inc
QBFIJournalEntryRet	IJournalEntryRet	qbf7.inc
QBFIJournalEntryRetList	IJournalEntryRetList	qbf5.inc
QBFIJournalEntryRetList	IJournalEntryRetList	qbf7.inc
QBFILinkedTxn	ILinkedTxn	qbf5.inc
QBFILinkedTxn	ILinkedTxn	qbf7.inc
QBFILinkedTxnList	ILinkedTxnList	qbf5.inc
QBFILinkedTxnList	ILinkedTxnList	qbf7.inc
QBFIListDataExt	IListDataExt	qbf5.inc
QBFIListDataExt	IListDataExt	qbf7.inc
QBFIListDel	IListDel	qbf5.inc
QBFIListDel	IListDel	qbf6.inc
QBFIListDeletedQuery	IListDeletedQuery	qbf5.inc
QBFIListDeletedQuery	IListDeletedQuery	qbf6.inc
QBFIListDeletedRet	IListDeletedRet	qbf5.inc
QBFIListDeletedRet	IListDeletedRet	qbf6.inc
QBFIListDeletedRetList	IListDeletedRetList	qbf5.inc
QBFIListDeletedRetList	IListDeletedRetList	qbf6.inc
QBFIListDelRet	IListDelRet	qbf5.inc
QBFIListDelRet	IListDelRet	qbf6.inc
QBFIListFilter	IListFilter	qbf5.inc
QBFIListFilter	IListFilter	qbf6.inc
QBFIModifiedDateRangeFilter	IModifiedDateRangeFilter	qbf5.inc
QBFIModifiedDateRangeFilter	IModifiedDateRangeFilter	qbf6.inc
QBFIMsgSetRequest	IMsgSetRequest	qbf13.inc
QBFIMsgSetRequest	IMsgSetRequest	qbf16.inc
QBFIMsgSetResponse	IMsgSetResponse	qbf13.inc
QBFIMsgSetResponse	IMsgSetResponse	qbf16.inc
QBFINameFilter	INameFilter	qbf5.inc
QBFINameFilter	INameFilter	qbf6.inc
QBFINameRangeFilter	INameRangeFilter	qbf5.inc
QBFINameRangeFilter	INameRangeFilter	qbf6.inc

QBFIObjectType	IObjectType	qbf13.inc
QBFIObjectType	IObjectType	qbf16.inc
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QBFIORAccountFilter	IORAccountFilter	qbf6.inc
QBFIORAccountListQuery	IORAccountListQuery	qbf5.inc
QBFIORAccountListQuery	IORAccountListQuery	qbf6.inc
QBFIORApplyPayment	IORApplyPayment	qbf5.inc
QBFIORApplyPayment	IORApplyPayment	qbf6.inc
QBFIORBillQuery	IORBillQuery	qbf5.inc
QBFIORBillQuery	IORBillQuery	qbf6.inc
QBFIORBillToPayRet	IORBillToPayRet	qbf5.inc
QBFIORBillToPayRet	IORBillToPayRet	qbf6.inc
QBFIORCheckPrint	IORCheckPrint	qbf5.inc
QBFIORCheckPrint	IORCheckPrint	qbf6.inc
QBFIORCreditMemoLineAdd	IORCreditMemoLineAdd	qbf4.inc
QBFIORCreditMemoLineAdd	IORCreditMemoLineAdd	qbf6.inc
QBFIORCreditMemoLineAddList	IORCreditMemoLineAddList	qbf4.inc
QBFIORCreditMemoLineAddList	IORCreditMemoLineAddList	qbf6.inc
QBFIORCreditMemoLineRet	IORCreditMemoLineRet	qbf4.inc
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QBFIORCreditMemoLineRetList	IORCreditMemoLineRetList	qbf6.inc
QBFIORCustomerListQuery	IORCustomerListQuery	qbf4.inc
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QBFIORDataExtDefQuery	IORDataExtDefQuery	qbf4.inc
QBFIORDataExtDefQuery	IORDataExtDefQuery	qbf6.inc
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QBFIORDateRangeFilter	IORDateRangeFilter	qbf6.inc
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QBFIORDepositLineAdd	IORDepositLineAdd	qbf6.inc
QBFIORDepositQuery	IORDepositQuery	qbf4.inc
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QBFIOREarnings	IOREarnings	qbf6.inc
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QBFIOREntityFilter	IOREntityFilter	qbf6.inc
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QBFIOREntityRet	IOREntityRet	qbf6.inc
QBFIOREntityRetList	IOREntityRetList	qbf4.inc
QBFIOREntityRetList	IOREntityRetList	qbf6.inc
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QBFIORInventoryAdjustmentQuery	IORInventoryAdjustmentQuery	qbf6.inc
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QBFIORInvoiceLineAdd	IORInvoiceLineAdd	qbf6.inc
QBFIORInvoiceLineAddList	IORInvoiceLineAddList	qbf4.inc
QBFIORInvoiceLineAddList	IORInvoiceLineAddList	qbf5.inc
QBFIORInvoiceLineMod	IORInvoiceLineMod	qbf5.inc
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QBFIORPrice	IORPrice	qbf5.inc
QBFIORPurchaseOrderLineAdd	IORPurchaseOrderLineAdd	qbf4.inc

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QBFIORPurchaseOrderLineAddList	IORPurchaseOrderLineAddList	qbf5.inc
QBFIORPurchaseOrderLineMod	IORPurchaseOrderLineMod	qbf5.inc
QBFIORPurchaseOrderLineModList	IORPurchaseOrderLineModList	qbf5.inc
QBFIORPurchaseOrderLineRet	IORPurchaseOrderLineRet	qbf3.inc
QBFIORPurchaseOrderLineRet	IORPurchaseOrderLineRet	qbf5.inc
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QBFIORReportPeriod	IORReportPeriod	qbf4.inc
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QBFIORSalesOrderLineRet	IORSalesOrderLineRet	qbf4.inc
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QBFIORSalesReceiptLineRet	IORSalesReceiptLineRet	qbf4.inc
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QBFIORToDoListQuery	IORToDoListQuery	qbf4.inc
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QBFIORTxnNoAccountQuery	IORTxnNoAccountQuery	qbf4.inc
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QBFIORTxnQuery	IORTxnQuery	qbf4.inc
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QBFIORTypeAdjustment	IORTypeAdjustment	qbf4.inc
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QBFIORVendorListQuery	IORVendorListQuery	qbf4.inc
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QBFIQBBaseRef	IQBBaseRef	qbf2.inc
QBFIQBBaseRef	IQBBaseRef	qbf3.inc
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QBFIQBENSummarizeColumnsByType	IQBENSummarizeColumnsByType	qbf14.inc
QBFIQBENSummarizeRowsByType	IQBENSummarizeRowsByType	qbf12.inc
QBFIQBENSummarizeRowsByType	IQBENSummarizeRowsByType	qbf14.inc
QBFIQBENSummaryReportBasisType	IQBENSummaryReportBasisType	qbf12.inc
QBFIQBENSummaryReportBasisType	IQBENSummaryReportBasisType	qbf14.inc
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QBFIQBENTimeReportTypeType	IQBENTimeReportTypeType	qbf12.inc
QBFIQBENTimeReportTypeType	IQBENTimeReportTypeType	qbf14.inc
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QBFIQBENTxnDataExtTypeType	IQBENTxnDataExtTypeType	qbf14.inc
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QBFIQBGUIDType	IQBGUIDType	qbf14.inc
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QBFIQBIDType	IQBIDType	qbf14.inc
QBFIQBIntType	IQBIntType	qbf11.inc
QBFIQBIntType	IQBIntType	qbf14.inc
QBFIQBOESessionManager	IQBOESessionManager	qbf16.inc
QBFIQBPercentType	IQBPercentType	qbf11.inc
QBFIQBPercentType	IQBPercentType	qbf14.inc
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QBFIQBPriceType	IQBPriceType	qbf14.inc
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QBFIReceivePaymentAdd	IReceivePaymentAdd	qbf3.inc

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QBFIReceivePaymentQuery	IReceivePaymentQuery	qbf3.inc
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QBFIReceivePaymentRet	IReceivePaymentRet	qbf3.inc
QBFIReceivePaymentRetList	IReceivePaymentRetList	qbf2.inc
QBFIReceivePaymentRetList	IReceivePaymentRetList	qbf3.inc
QBFIReceivePaymentToDepositRet	IReceivePaymentToDepositRet	qbf2.inc
QBFIReceivePaymentToDepositRet	IReceivePaymentToDepositRet	qbf3.inc
QBFIReceivePaymentToDepositRetList	IReceivePaymentToDepositRetList	qbf2.inc
QBFIReceivePaymentToDepositRetList	IReceivePaymentToDepositRetList	qbf3.inc
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QBFIRefNumberFilter	IRefNumberFilter	qbf3.inc
QBFIRefNumberRangeFilter	IRefNumberRangeFilter	qbf2.inc
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QBFIReportAccountFilter	IReportAccountFilter	qbf3.inc
QBFIReportClassFilter	IReportClassFilter	qbf3.inc
QBFIReportData	IReportData	qbf2.inc
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QBFISalesAndPurchaseMod	ISalesAndPurchaseMod	qbf2.inc
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QBFISalesOrderLineAdd	ISalesOrderLineAdd	qbf2.inc
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QBFISalesReceiptQuery	ISalesReceiptQuery	qbf2.inc
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QBFISalesReceiptRetList	ISalesReceiptRetList	qbf2.inc
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QBFISalesRepQuery	ISalesRepQuery	qbf2.inc
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QBFISalesTaxCodeQuery	ISalesTaxCodeQuery	qbf1.inc
QBFISalesTaxCodeQuery	ISalesTaxCodeQuery	qbf2.inc
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QBFISalesTaxPaymentCheckLineRetList	ISalesTaxPaymentCheckLineRetList	qbf2.inc
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QBFISetCreditList	ISetCreditList	qbf1.inc

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QBFIShipMethodRet	IShipMethodRet	qbf1.inc
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QBFISickHours	ISickHours	qbf1.inc
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QBFISignonDesktopRs	ISignonDesktopRs	qbf1.inc
QBFISignonTicketRq	ISignonTicketRq	qbf1.inc
QBFISignonTicketRs	ISignonTicketRs	qbf1.inc
QBFIStandardTermsAdd	IStandardTermsAdd	qbf1.inc
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QBFIStandardTermsRetList	IStandardTermsRetList	qbf1.inc
QBFISubtotalRow	ISubtotalRow	qbf1.inc
QBFITaxLineInfoRet	ITaxLineInfoRet	qbf1.inc
QBFITermsQuery	ITermsQuery	qbf1.inc
QBFITextRow	ITextRow	qbf1.inc
QBFITimeReportQuery	ITimeReportQuery	qbf1.inc
QBFITimeTrackingAdd	ITimeTrackingAdd	qbf1.inc
QBFITimeTrackingEntityFilter	ITimeTrackingEntityFilter	qbf1.inc
QBFITimeTrackingPreferences	ITimeTrackingPreferences	qbf1.inc
QBFITimeTrackingQuery	ITimeTrackingQuery	qbf1.inc
QBFITimeTrackingRet	ITimeTrackingRet	qbf1.inc
QBFITimeTrackingRetList	ITimeTrackingRetList	qbf.inc
QBFITimeTrackingRetList	ITimeTrackingRetList	qbf1.inc
QBFITimeTrackingTxnFilter	ITimeTrackingTxnFilter	qbf.inc
QBFITimeTrackingTxnFilter	ITimeTrackingTxnFilter	qbf1.inc
QBFIToDoAdd	IToDoAdd	qbf.inc
QBFIToDoAdd	IToDoAdd	qbf1.inc
QBFIToDoListFilter	IToDoListFilter	qbf.inc
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QBFITotalBalanceFilter	ITotalBalanceFilter	qbf.inc
QBFITotalRow	ITotalRow	qbf.inc
QBFITxnDataExt	ITxnDataExt	qbf.inc
QBFITxnDateFilter	ITxnDateFilter	qbf.inc
QBFITxnDateRangeFilter	ITxnDateRangeFilter	qbf.inc
QBFITxnDel	ITxnDel	qbf.inc
QBFITxnDeletedQuery	ITxnDeletedQuery	qbf.inc
QBFITxnDeletedRet	ITxnDeletedRet	qbf.inc
QBFITxnDeletedRetList	ITxnDeletedRetList	qbf.inc
QBFITxnDelRet	ITxnDelRet	qbf.inc

QBFITxnFilter	ITxnFilter	qbf.inc
QBFITxnFilterNoAccount	ITxnFilterNoAccount	qbf.inc
QBFITxnFilterWithItemFilter	ITxnFilterWithItemFilter	qbf.inc
QBFITxnLineDetail	ITxnLineDetail	qbf.inc
QBFITxnLineDetailList	ITxnLineDetailList	qbf.inc
QBFITxnVoid	ITxnVoid	qbf.inc
QBFITxnVoidRet	ITxnVoidRet	qbf.inc
QBFIVacationHours	IVacationHours	qbf.inc
QBFIValueAdjustment	IValueAdjustment	qbf.inc
QBFIVendorAdd	IVendorAdd	qbf.inc
QBFIVendorCreditAdd	IVendorCreditAdd	qbf.inc
QBFIVendorCreditQuery	IVendorCreditQuery	qbf.inc
QBFIVendorCreditRet	IVendorCreditRet	qbf.inc
QBFIVendorCreditRetList	IVendorCreditRetList	qbf.inc
QBFIVendorListFilter	IVendorListFilter	qbf.inc
QBFIVendorMod	IVendorMod	qbf.inc
QBFIVendorQuery	IVendorQuery	qbf.inc
QBFIVendorRet	IVendorRet	qbf.inc
QBFIVendorRetList	IVendorRetList	qbf.inc
QBFIVendorTypeAdd	IVendorTypeAdd	qbf.inc
QBFIVendorTypeQuery	IVendorTypeQuery	qbf.inc
QBFIVendorTypeRet	IVendorTypeRet	qbf.inc
QBFIVendorTypeRetList	IVendorTypeRetList	qbf.inc

Example Applications

qbFUSE ships with two demo applications, both of which can be downloaded in a single .zip file for free (including complete source code!) using the following link:

http://www.thinkdata.com/aspwpadmin/stattrack/includes/dltrack.asp?Title=QBFDEMO&File=qbf.zip

NOTE: QuickBooks must be open and running to use the demo applications and any other QBFC enabled application.

The first example application which ships with qbFUSE is qbfuse.exe. It is a Clarion 5.5 source project and you can view the source in its entirety by looking at the qbfuse.clw file (most likely installed in your \C55\Examples\qbFUSE directory). It contains a conversion of all of the QBFC SDK examples included with the installation of the QuickBooks SDK. The examples from Intuit are included in both Visual Basic and Visual C++ so this example is an excellent reference to study when converting COM code from Visual Basic or Visual C++ into Clarion using the Plugware COM Classes. The documentation does not include the source code for this example due to its size. This demo implements the following QuickBooks functionality:

- Adding customers to QuickBooks

- Adding a Bill to QuickBooks for a particular Vendor

- Querying Invoices in QuickBooks using a date range

- Querying Items and setting the number of Items to return in an Item Query

- Adding a ReceivePayment transaction and deleting it if successful

- Sending multiple requests to Add Customer, Add Invoice, and Query Invoice all in the same message set

The second example application which ships with qbFUSE is called qbfapp.exe. It is a Clarion 5.5 application and you can view the source in its entirety by looking at the qbfapp.app file (most likely installed in your \C55\Examples\qbFUSE directory). This example demonstrates importing and exporting data from QuickBooks into Clarion TPS data files and even directly into Microsoft Outlook using our OutlookFUSE product.

- Importing QuickBooks Accounts data into a Clarion TPS file

- Importing QuickBooks Customers data into a Clarion TPS file

- Importing QuickBooks Items data into a Clarion TPS file

- Exporting Outlook Contacts from Microsoft Outlook to QuickBooks Customers using the OutlookFUSE product from ThinkData

- Importing Outlook Contacts from QuickBooks Customers using the OutlookFUSE product from ThinkData

Links

We have provided several links which we found helpful in the development of the qbFUSE product and in its daily use. If you find helpful resources in your development process, or have questions for us related to qbFUSE, we encourage you to submit them to our support forum listed below.

ThinkData Support Forum
http://www.thinkdata.com/forum/

Intuit Developer Network Downloads (get the SDK here!)
http://developer.intuit.com/downloads/

Intuit Developer FAQ
http://developer.intuit.com/quickbooks/faq.asp

Summary

The examples we have shown only scratch the surface of the potential of the qbFUSE product. There are over 500 interfaces defined in the qbFUSE Clarion source files and the entire wrapper contains upwards of 25,000 lines of code. qbFUSE is the only product of its kind for Clarion 5.5 and Clarion 6 providing native early binding to QuickBooks with a stable and efficient COM layer from Plugware Solutions.

qbFUSE wraps the QBFC (QuickBooks Foundation Classes) SDK which in turn wraps the qbXML specification from Intuit. Because of this, you can be assured that qbFUSE puts you on the cutting edge of software development for the QuickBooks platform.

We hope you enjoy qbFUSE and invite you to join ThinkData's support forum to ask questions and get tips on using it to its fullest potential. Thanks for your interest in qbFUSE and keep your eyes open for other COM automation products from our FUSE product line.