

Release Notes, QuickBooks SDK 6.0 R3

01/26/07

Welcome to the QuickBooks Software Development Kit (SDK) Version 6.0 R2. This software is designed for use with US editions of QuickBooks 2007 and QuickBooks Merchant Service. In addition, selected features of this software can be used with US editions of QuickBooks 2002, 2003, 2004, 2005, 2006, QuickBooks Online Edition, and Canadian and UK editions of QuickBooks (2003 and later).

The system requirements for the QuickBooks SDK are the same as those for the version of QuickBooks that is running. QuickBooks 2007 will run on Microsoft Windows 2000, Windows XP, and Windows Vista. QuickBooks 2006 will run on Windows 2000 and Windows XP. QuickBooks 2005 and 2004 will run on Microsoft Windows 98, 2000, Me, or XP operating systems. QuickBooks 2002 and 2003 will run on Windows NT, 98, 2000, Me, or XP operating systems. (The SDK does not run in unattended mode—that is, with automatic login—on Windows 98, First Edition; it does run in unattended mode on Windows 98 Second Edition on QuickBooks 2005 and earlier.)

Changes Made in the 6.0 R3 Release

The main purpose of the R3 release is to fix an installer bug in the R2 release where updates an existing installation did not occur properly.

Also, we would like to note that if you use our merge modules, there is a dependency on both C++ 7.0 and C++ 8.0. The C++ 8.0 merge modules from Microsoft are:

- Microsoft_VC80_CRT_x86.msm
- policy_8_0_Microsoft_VC80_CRT_x86.msm
- Microsoft_VC80_MFC_x86.msm
- policy_8_0_Microsoft_VC80_MFC_x86.msm

Or these can be installed with an installer (vcredist_x86.exe), which is available for download **from Microsoft**.

Changes Made in the 6.0 R2 Release

The main purpose of the R2 release is to fix the QBXMLRP2 merge module and the installers that use it so they enable your applications to work correctly with QuickBooks versions earlier than QuickBooks 2007 and also work more smoothly on Windows Vista. You may distribute these merge modules and installers but please do not distribute those from the original QuickBooks SDK 6.0 [R1] release.

- New QBXMLRP2 merge modules/installers:
QBXMLRP2.msm, QBXMLRP2Installer.exe, QBFC5_0Installer.exe, QBFC6_0Installer.exe

A new version of the QBOE Connector is also being released to address a few small bugs. You are encouraged to use and redistribute this R2 version of the QBOE connector rather than the one shipped with QuickBooks SDK 6.0 R1.

- New QBOEConnector merge modules/installers:
QBOEConnector.msm, QBOEConnectorInstaller.exe

The R2 release also provides new material related to the QuickBooks Web connector (QBWC):

- Two new web service samples for QBWC:
A C# sample that subscribes to QB events and handles them
A Java web service sample that shows how to implement the interfaces in Java
- Provides an updated version of the QBWC Programmer's Guide, which documents the enhanced Authenticate interface supported by QBWC 1.5, which allows the web service to specify the number of seconds before a QBWC update occurs again for that web service, and the minimum allowed update interval.
- Note: the QBWC web method interface "sendRequestXML" formerly required the Country parameter if the Style was set to Document or RPC. Now, the parameter name that must be used is always qbXMLCountry.

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Support for QuickBooks Products

The following table of QuickBooks versions and supported qbXML and QBFC versions takes precedence over any other such tables in QB SDK documentation.

The following table lists the different versions of QuickBooks and the corresponding versions of the qbXML specifications that support them. (*Note:* QuickBooks Mac, QuickBooks Basic, UK Simple Start edition, and the Canadian QuickBooks Easy Start Edition do not support the SDK.)

Version of QuickBooks	qbXML Specification Version
QuickBooks 2007 and Enterprise 7.0 (Using QBXMLRP2)	6.0, 5.0, 4.1 4.0, 3.0, 2.1, 2.0, 1.1, 1.0
QuickBooks 2006 and Enterprise 6.0 (Using QBXMLRP2)	5.0, 4.1 4.0, 3.0, 2.1, 2.0, 1.1, 1.0
QuickBooks 2005 and Enterprise 5.0 (R5 and later) (using QBXMLRP2)	4.1, 4.0, 3.0, 2.1, 2.0, 1.1, 1.0
QuickBooks 2005 (and Enterprise 5.0) (using QBXMLRP2)	4.0, 3.0, 2.1, 2.0, 1.1, 1.0
QuickBooks 2004 (and Enterprise 4.0) (using QBXMLRP2)	3.0, 2.1, 2.0, 1.1, 1.0
QuickBooks 2003, Enterprise 3.0* (R7 and above) and all later versions of QuickBooks using QBXMLRP	2.1, 2.0, 1.1, 1.0
QuickBooks 2003 (and Enterprise 2.0)*	2.0, 1.1, 1.0
QuickBooks 2002 (R2 and above) (and Enterprise)*	1.1, 1.0
QuickBooks 2002 (R1)*	1.0
QuickBooks Online Edition	6.0, 5.0, 4.1, 4.0, 3.0, 2.1, 2.0
QuickBooks 2004-2007 Canadian (using QBXMLRP2)	CA3.0, CA2.0
QuickBooks 2004-2006 UK Editions (using QBXMLRP2)	UK3.0, UK2.0
QuickBooks 2003, Canadian and UK Editions, CA2.0. UK2.0)* and all later versions of these through QuickBooks 2006	CA2.0. UK2.0
<small>*Earlier releases of QuickBooks will work with either version of the Request Processor (QBXMLRP2 or QBXMLRP). We recommend you upgrade existing applications to use QBXMLRP2. SDK 3.0 and greater features are available only with QBXMLRP2; in addition, this Request Processor solves some problems found in the older Request Processor.</small>	

The following table lists the different versions of the QuickBooks Foundation Class (QBFC) Library and the versions of the qbXML specification that support them.

<i>QBFC Library</i>	<i>qbXML Specification Version</i>
QBFC6 (including support for QuickBooks Online Edition)	6.0, 5.0, 4.1, 4.0, 3.0, 2.1, 2.0, 1.1, 1.0 Does NOT support: CA3.0, CA2.0, UK3.0, UK2.0
QBFC5 (including support for QuickBooks Online Edition and Canadian Editions of QuickBooks)	5.0, 4.1, 4.0, 3.0, 2.1, 2.0, 1.1, 1.0, CA3.0, CA2.0, UK3.0, UK2.0
QBFC4 (including support for QuickBooks Online Edition and Canadian Editions of QuickBooks)	4.0, 3.0, 2.1, 2.0, 1.1, 1.0, CA3.0, CA2.0
QBFC3 (including support for QuickBooks Online Edition and Canadian Editions of QuickBooks)	3.0, 2.1, 2.0, 1.1, 1.0
QBFC2_1 (including support for QuickBooks Online Edition)	2.1, 2.0, 1.1, 1.0
QBFC2	2.0, 1.1, 1.0
QBFC2CA	CA2.0
QBFC	1.1, 1.0

Changed Behavior We'd Like to Highlight

Some of the following items may be listed elsewhere in the release notes, but are listed again here to highlight them.

- The various country-specific qbXML specs (US, Canadian & UK) are being merged into one single superset spec. For that reason, the OSR may show, in some cases, certain features applicable to one country-version but not others. These features will be marked as county-specific in the OSR. For example the Canadian-supported SalesTaxCode may show up in the OSR for US QuickBooks, but will be identified as not supported for QBD (US version). The new unified OSR, which is included in SDK 6.0 as a beta, solves this problem nicely, if you want to take a look at that.
- While the currently available CA QB 2003-2007 supports qbXML CA3.0 & CA2.0 and the currently available UK QB 2003-2006 supports qbXML UK 3.0 & UK2.0, these qbXML specs will NOT be supported by any future CA or UK QB release. Instead those future releases will support qbXML 1.0 through 6.0.
- The single merged qbXML specs for US, CA, and UK impacts QBFC6 especially, in the country parameter for CreateMsgSet. For more details, see "New or Modified Files of Interest".
- In previous releases of the SDK, if QuickBooks threw an unhandled exception while processing an SDK request, the SDK would just catch the exception, log the internal error, and let QuickBooks continue to run. This led to several and unexpected side effects during subsequent QuickBooks activity, for example, ghost processes which prevented the closing of QuickBooks, and so forth. Starting with QuickBooks 2007, the request processor will allow QuickBooks to close down as it should and gracefully handle the exception so the client SDK application continues to run
- Starting with SDK 6.0/Quickbooks 2007, more than one application can be logged on in QuickBooks in single user mode.
- A new and improved unified OSR is available: you'll want to check this out. Because it is a beta, in this release it is accessible from a link within the older, classic OSR. Please let us know what you think, at the *IDN OSR forum*.
- QuickBooks Enterprise Solutions (QBES) 7.0 includes support for enhanced list limits, enabling businesses using QBES 7.0 to add tens of thousands* of inventory items, customers and vendors as their business grows. (There is no change between QuickBooks 2006 and QuickBooks 2007 in the list limits for QuickBooks Premier, Pro or SimpleStart.)
*Performance testing was optimized at 100,000 list elements. You may

see performance degradation as you add more than 100,000 items, customers, or vendors.

- For the Customer requests and responses (the only qbXML 6.0 calls that will handle full credit card numbers) there's no change to the SDK code but the business logic has changed for QuickBooks 2007 so that if the SDK application has been granted access to sensitive data but the logged in QuickBooks user does not have Sensitive Accounting Activities permission, a masked credit card number will be returned.

New file locations for QuickBooks 2007

Those of you who have been using QuickBooks and the QuickBooks SDK are probably used to certain default locations for .QBW files and QuickBooks log files. In order to work with the forthcoming Windows Vista operating system, files that QuickBooks writes to have been moved. By default, QuickBooks 2006 and earlier put new company files in c:\program files\Intuit\QuickBooks along with the QuickBooks program files.

In QuickBooks 2007 we now suggest c:\documents and settings\All Users\Shared Documents\Intuit\QuickBooks\Company Files and if you are upgrading from a previous version of QuickBooks (thereby replacing the previous version of QuickBooks) the install process will offer to move existing company files and the files associated with the company to the new recommended location.

This means that if you have stored the path to the user's company file in your application, it may no longer be correct! We only move company files out of the c:\Program Files hierarchy, so if your stored path does not include the program files hierarchy it will not change as a result of installing QuickBooks 2007. Similarly, the log and ini files, in particular the qbsdklog.txt file that is often needed for troubleshooting issues with SDK-based applications, have moved. The log files are now be written to c:\documents and settings\<current user>\Local Settings\Application Data\Intuit\QuickBooks\log while the qbsdk.ini file is in c:\Documents and Settings\All Users\Application Data\COMMON FILES\Intuit\QuickBooks.

Do You Integrate With QBMS?

If your application integrates with the QuickBooks Merchant Service, be sure to take a look at some of the important changes in this area. Check the [IDN website](#) for more information about these changes.

Summary of New or Changed Features

This summary is divided into two parts. The first part provides an overview of the new features in QuickBooks SDK version 6.0. The second part provides a detailed listing of changes at the message and element level.

Note: Except as indicated below, none of the new features listed below apply to QBOE.

Part One: Features New or Changed in QB SDK 6.0

The following transaction-related features are new in QB SDK 6.0:

- BillPaymentCheckMod
- CheckMod
- CreditCardChargeMod
- CreditCardCreditMod
- Ability to create Invoices (InvoiceAdd) from Sales Orders
- JournalEntryMod
- ReceivePaymentMod
- TimeTrackingMod
- VehicleMileageAdd and Query
- Ability to set and query "IsToBeEmailed" field on Invoices & Estimates (in Query, Add, and Mod operations)
- Support for "Other", "Other1" and "Other2" fields in all query, add & mod transactions
- Change TimeTracking to use BillableStatus enum in place of IsBilled & IsBillable (to enable indicating that time added has already been billed). This change applies to QBOE as well.

The following list-related features are new in QB SDK 6.0:

- AccountMod
- VehicleAdd/Mod/Query
- BillingRateAdd/Query
- Ability to query and modify the 5th address line: this feature allows you to specify a block of address lines (Addr1 through Addr5) rather than using the City, State, etc. fields. Notice that you'll get both representations back in the response unless you use IncludeRetElement

to filter out the unwanted ones.

- SpecialAccountAdd, which allows you to create certain special accounts "on the fly": AccountsPayable, AccountsReceivable, CostOfGoodsSold, UndepositedFunds, etc.
- SpecialItemAdd to allow you to create special items as you need them: FinanceCharge, ReimbursableExpenseGroup, ReimbursableExpenseSubtotal

The following credit card transaction-related features are new in QB SDK 6.0:

- Accept only "masked" credit card numbers in SalesReceiptAdd, ReceivePaymentAdd, & ARRefundCreditCardAdd transactions
- Enable identification of credit card present ("swipe") transactions
- Provide a ClientTransactionID field for future use by the QBMS reconciliation feature

Part Two: What Changed in SDK 6.0

The following sections contain details on new request and response messages as well as on new and changed elements within response aggregates. See the updated *Onscreen Reference* for complete listings of all messages. Also see the example file *qbxmlops60.xml*.

Table 1: New Requests/Responses in SDK 6.0

Request	Category
AccountMod	List
BillingRateAdd	List
BillingRateQuery	List
BillPaymentCheckMod	Transaction
CheckMod	Transaction
CreditCardChargeMod	Transaction
CreditCardCreditMod	Transaction
JournalEntryMod	Transaction
ReceivePaymentMod	Transaction
SpecialAccountAdd	List
SpecialItemAdd	List
TimeTrackingMod	Transaction

VehicleAdd	List
VehicleMileageAdd	Transaction
VehicleMileageQuery	Transaction
VehicleMod	List
VehicleQuery	List

Table 2: Aggregates/Elements Added/Changed in Requests in SDK 6.0

The following items are not listed in the tables because they are almost universal and would obscure other important changes if they were listed separately:

- In the CreditCardTxnInfo subaggregates, the following max string lengths have been changed: :
 - CreditCardPostalCode (from 41 to 18)
 - CommericalCardCode (from 50 to 24)
 - ResultMessage (from 500 to 60)

Request	Element Added or Changed
AccountAdd	Desc field max character limit increased to 200.
ARRefundCreditCardAdd/ Query	Added Addr5 and Note elements to Address aggregate. Added TransactionMode to the CreditCardTxnInputInfo aggregate. For the CreditCardTxnResultInfo aggregate, reduced the max characters from 500 to 60 in the ResultMessage and added the ClientTransID.
CheckAdd/Query	Added Addr5 and Note elements to BillAddress and ShipAddress aggregates.
CreditMemoAdd/Mod/ Query	Added Addr5 and Note elements to BillAddress and ShipAddress aggregates. Added IsToBeEmailed element. Added Other, Other1, and Other2 elements.
CustomerAdd/Mod/Query	Added Addr5 and Note elements to BillAddress and ShipAddress aggregates.
EmployeeAdd/Mod/Query	Added BillingRateRef element.

EstimateAdd/Mod/Query	<p>Added Addr5 and Note elements to BillAddress and ShipAddress aggregates.</p> <p>Added Other1 and Other2 elements.</p>
HostQuery	<p>Added a new aggregate, IncludeListMetaData, and new element within the aggregate, IncludeMaxCapacity. The HostQueryRet returns a separate MaxCapacity value for each supported List type.</p> <p>Applications should use this feature (if qbXML 6.0 is available) to determine the max # of elements for each list type.</p>
InvoiceAdd/ModQuery	<p>Added Addr5 and Notes elements to BillAddress and ShipAddress aggregates.</p> <p>Added Other1 and Other2 elements</p>
OtherNameAdd/Mod/Query	<p>Added Addr5 and Note elements to OtherNameAddress aggregate.</p>
PurchaseOrderAdd/Mod/Query	<p>Added Addr5 and Note elements to BillAddress and ShipAddress aggregates.</p> <p>Added IsToBeEmailed element.</p> <p>Added Other, Other1, and Other2 elements.</p> <p>Added TransactionMode to the CreditCardTxnInputInfo aggregate.</p> <p>For the CreditCardTxnResultInfo aggregate, , reduced the max characters from 500 to 60 in the ResultMessage and added the ClientTransID.</p>
ReceivePaymentAdd/Query	<p>Added Addr5 and Note elements to BillAddress and ShipAddress aggregates.</p> <p>Added IsToBeEmailed element.</p> <p>Added Other, Other1, and Other2 elements.</p> <p>Added TransactionMode to the CreditCardTxnInputInfo aggregate.</p> <p>For the CreditCardTxnResultInfo aggregate, , reduced the max characters from 500 to 60 in the ResultMessage and added the ClientTransID.</p>

SalesOrderAdd/Mod/Query	Added Addr5 and Note elements to BillAddress and ShipAddress aggregates. Added IsToBeEmailed element. Added Other1 and Other2 elements.
SalesReceiptAdd/Mod/Query	Added Addr5 and Note elements to BillAddress and ShipAddress aggregates. Added IsToBeEmailed element. Added Other, Other1, and Other2 elements. Added TransactionMode to the CreditCardTxnInputInfo aggregate. For the CreditCardTxnResultInfo aggregate, , reduced the max characters from 500 to 60 in the ResultMessage and added the ClientTransID.
TimeTrackingAdd and Query (ret)	The new BillableStatus enum replaces 1. "IsBillable" in TimeTrackingAdd 2. "IsBillable" and "IsBilled" in TimeTrackingRet
VendorAdd/Mod/Query	Added Addr5 and Note elements to VendorAddress aggregate. Added BillingRateRef aggregate.

Table 4: Enumeration Changes in SDK 6.0

Enum Type	Enum Value Added
ListDelType	BillingRate, Vehicle
TxnDelType	VehicleMileage

Table 5: Summary of Changes to Reports in SDK 6.0

Change	Report or Filter Type

Deprecated Features or Features No Longer Supported

The TimeTracking IsBillable and IsBilled fields are replaced by the BillableStatus enum in qbXML spec 6.0.

Developers should always use and install the latest request processor (QBXMLRP2). You should not be using and calling the original request processor (QBXMLRP) because this is likely to be dropped from future versions of QuickBooks. This is even more important for products designed to work with non-U.S. editions of QuickBooks. (Using a new version of QBXMLRP2 will not prevent an application from communicating with older versions of QuickBooks.)

QBFC Applications and qbXML Spec Version 6.0

The qbXML specs for US, CA, and UK have been merged into one spec in qbXML 6.0. There will be no CA 6.0 spec or UK 6.0 spec. Canadian and UK editions of QuickBooks 2004 through 2007 continue to use qbXML CA3.0 or UK3.0. Canadian and UK editions of QuickBooks 2008 and later are expected to support qbXML 6.0, but will not support qbXML CA3.0, CA2.0, UK3.0, or UK 2.0.

This impacts QBFC6 and later especially, in the country and major version parameters for CreateMsgSet. For QBFC6 and beyond, if you supply a country value of "CA" or "UK", the only valid major version value is "6" or greater.

How do you get an application to work with CA and UK at the older spec levels (CA2/UK 2.0, CA/UK3.0)? You need to specifically use QBFC5Lib or older. For a sample that works with both QBFC6 US (qbXML spec 6.0) and CA/UK3.0, see the sample program
QBSDK6.0\samples\qbdt\vb\qbfc\US_CDN_UK_CustomerQuery.

While QBFC3 and later use QBXMLRP2, early versions of QBFC (QBFC2_1, QBFC2, QBFC2CA, and the original QBFC) all use QBXMLRP. Therefore, we strongly encourage developers using QBFC to install and use the latest available version of QBFC* and that when you release a new version of software you should particularly avoid using these early versions of QBFC (QBFC2_1, QBFC2, QBFC2CA, and the original QBFC).

*Caveat: QBFC5 is the last QBFC version that will support Canadian & UK versions of QuickBooks 2006 and earlier.

Known Bugs and Workarounds

- During installation of QB SDK on a system without QuickBooks installed you may encounter this error during the execution of dotnetfxSp1.exe:

"The upgrade patch cannot be installed by the Windows Installer service because the program to be upgraded may be missing, or the upgrade patch may update a different version of the program. Verify that the program to be upgraded exists on your computer and that you have the correct upgrade patch."

To solve this, install .NET from the Microsoft web site and retry the installation.

- The various country-specific qbXML specs (US, Canadian & UK) are being merged into one single superset spec. For that reason, the OSR may show, in some cases, certain features applicable to one country-version but not others. These features will be marked as county-specific in the OSR. For example the Canadian-supported SalesTaxCode may show up in the OSR for US QuickBooks, but will be identified as not supported for QBD (US version). The new unified OSR, which is included in SDK 6.0 as a beta, solves this problem nicely, if you want to take a look at that.
- If you perform a CustomerQuery that returns the ShipAddress from a QuickBooks 2007 or 2006 company, performance can be slower than in previous releases. (The ShipAddress data is returned by default.) You can workaround this problem by using IncludeRetElement in the CustomerQuery to ask only for the data you need, and don't include the ShipAddress in the return data. You can get the ShipAddress from that customer later when or if you need it.
- The following is actually not a bug, but is worthy of note here all the same. QuickBooks Simple Start does not support multi-user mode. Accordingly, if an integrated application invokes BeginSession and specifies multi-user mode, the RequestProcessor will return error code 0x80040436, with the message "This application requires Multi User file access mode, but QuickBooks Simple Start does not support Multi User access." If the application specifies "Do Not Care", they will get single-user mode when working with SimpleStart.
- During SDK installation, you may see a message informing you that the UI and eBay sample could not be installed. You can safely ignore and dismiss this message as it has no effect and the installation will proceed successfully.
- The bug mentioned in this workaround was fixed in SDK 4.0. However this workaround is included here for those applications that need to work with

older QuickBooks versions for which the bug fix is not available. In previous versions of the SDK, if you send an InventoryAdjustmentAddRq with a ValueAdjustment that contains only a NewValue element, then the resulting QuantityDifference will incorrectly get set to "blank", which QuickBooks interprets as "1". The workaround for this is to include the NewQuantity element in the request, setting the value to the same as the previous quantity on hand for that inventory item.

- If you use DeliveryPolicy in both a DataEventSubscription and a UIEventSubscription, you could set one to DeliverAlways and the other to DeliverOnlyIfRunning. In that case, QB will cache your application's COM pointer if the first event for this application in a company file session is associated with the DeliverAlways policy.
- If a user installs a copy of Convertible QuickBooks 2006 but does not select one of the available editions (Premier, Accountant, Contractor edition, etc), and an SDK application is subsequently started, QuickBooks will prompt the user to select an edition. The application's call to BeginSession will fail while QuickBooks is being configured for the selected edition. The workaround is to have the user finish the process of selecting the desired edition and then restart the SDK application.
- QuickBooks Canada does not currently return values stored in the Company Data Extension fields. The bug affects QuickBooks Canada versions 2004 through 2007 and may affect QuickBooks UK versions 2004 through 2006.
- The order of some columns in reports may be different in QuickBooks 2007 than they were for QuickBooks 2006. This is not a bug, just a heads-up: the SDK documentation has always warned about assuming any column order.
- QuickBooks caches the latest Refnumber for each transaction type. If you try to save a transaction using the default Refnumber from the UI, the UI will warn you if someone else already saved transaction with the same refnumber and give you the opportunity to change it to the new latest Refnumber. In the SDK, it simply gets used and you wind up with two transactions with the same refnumber.
- In QuickBooks Simple Start edition 2006, it is possible for an SDK application to create a subitem for a given item. It is not possible to do this in the UI, because the UI for creating items does not allow a subitem to be specified. You should avoid doing this in your application when running against Simple Start.
- An event is received an event time is generated. This event time should match the the time that the event was received. However, in the case of some events, the event time is not the modification time of the object but

the previously stored time that the object was created or modified. The objects for which the event time is reported correctly are those objects whose modification times do not get updated when they are changed such as Customer Balance, Inventory adjustments. It is a known limitation that event times will not always be accurate.

- If QuickBooks Verify is running and an SDK application issues a request, the request will not complete until the verify finishes.
- QuickBooks 2007 includes a new Unit of Measure (UOM) feature that is not available via the SDK. The result of this is that the SDK will behave as if the UOM feature is turned off. Therefore, there could be some visible discrepancies between data in QuickBooks UI forms and the way it is represented in the data from the SDK requests.
- If QuickBooks 2007 and later is running non hosted, SDK applications starting QuickBooks in DoNotCare mode will open QuickBooks in single-user mode.

Bugs Fixed in This Release

- In previous releases, if QuickBooks threw an unhandled exception while processing an SDK request, the SDK would just catch the exception, log the internal error, and let QuickBooks continue to run. This led to several and unexpected side effects during subsequent QuickBooks activity, for example, ghost processes which prevented the closing of QuickBooks, and so forth. Starting with QuickBooks 2007, the request processor will allow QuickBooks to close down as it should and gracefully handle the exception so the client SDK application continues to run.
- This item is not a bug per se, but is put here due to its importance. In QuickBooks 2005 and 2006, if one application logged into QuickBooks in single user mode, no other application could log in. This had some unwanted side effects when it came to applications monitoring QuickBooks events. Starting with QuickBooks 2007, more than one application can be logged on in single user mode.
- The NameRangeFilter in queries was affected by the sort order used by the QuickBooks user, which yielded unexpected results during the iteration through query returns. This occasionally resulted in queries that didn't return all the data that should have been returned. This has been fixed.
- In the ItemFixedAssetMod request, if the request contained a PurchaseDate and does not also contain the FixedAssetSalesInfoMod aggregate, you could experience a NULL pointer exception. This has been

fixed.

- In QuickBooks 2006, some extraneous error messages were being written to the log file qbsdklog.txt. For example, "CListsNotify::OnNotify(const CNotifyDataEdListElement*)invalid CNotify msg enum". This has been fixed in QuickBooks 2007.

Installation Instructions

IMPORTANT

During SDK 6.0 installation, if the eBay SDK has previously been installed on your system, the SDK 6.0 installer may report a failure registering ebay.SDK.tlb. This error can safely be ignored and the installation will proceed normally.

To install the SDK using the installer, execute *QBSDK60.exe*. The installer also adds a menu (*Start>Programs>QuickBooks SDK 6.0>*) that provides convenient access to SDK tools, samples, and documentation (including the *Onscreen Reference*). You can also access the qbXML Validator and qbXML Test applications through the "Send To" context menu for files.

Installing on a System that Doesn't Have QuickBooks

During installation of QB SDK on a system without QuickBooks installed you may encounter this error during the execution of dotnetfxSp1.exe:

"The upgrade patch cannot be installed by the Windows Installer service because the program to be upgraded may be missing, or the upgrade patch may update a different version of the program. Verify that the program to be upgraded exists on your computer and that you have the correct upgrade patch."

To solve this, install .NET from the Microsoft web site and retry the installation.

Registering an Application for QuickBooks Online Edition

Before an application can connect with QuickBooks Online Edition using the SDK, it must be registered with the Intuit Developer Network. To register your application and obtain an application ID, please follow the instructions in

Chapter 2 of the *QuickBooks SDK Programmer's Guide* and visit <http://appreg.intuit.com> to register your application.

Importing the Correct Library

For Visual C++ applications (if you are not using the QBFC Library), you need to import the library named *qbxmlrp2.dll*, which is installed in *C:\Program Files\Common Files\Intuit\QuickBooks*. For Visual Basic applications, select Project > References from within your VB project. Find "QBXMLRP2 1.0 Type Library" in the list and check the box next to it, then click OK. If you don't find the entry in the list, you can browse to it.

New or Modified Files of Interest

This release includes documentation, tools, and samples. The following files and directories may be of particular interest to you:

- This release includes .NET Primary Interop Assemblies (PIAs) for QBXMLRP2, QBFC6, QBFC5, QBFC4, QBFC3, and QBFC2.1. These assemblies are included in the redistributable installers and merge modules for each library. If you have previously built a local interop assembly for use with your .NET integrations, please be sure to update them to use the primary interop assemblies included with this release instead.
- *doc\qbxmlrps60.xml*, *doc\qbmsxmlrps20.xml*, *doc\qbmsxmliso20.xml* & *doc\qbxmliso60.xml*
The sample files containing all qbXML and qbmsXML requests/responses, and their SignonMsgs requests and responses.
- *OSR\OnscreenRef*
The Onscreen Reference for SDK 6.0.
- *The New Unified OSR\OnscreenRef*
The beta version of the new unified Onscreen Reference for SDK 6.0 and later.

All samples require the QBXMLRP2 Request Processor, QuickBooks, and the QuickBooks sample product-based company file. Samples new in this release may require the latest QuickBooks version (currently QuickBooks 2007). The QBXMLRP2 Request Processor is installed in a variety of ways: automatically by QuickBooks 2007 and by the redistributable QBXMLRP2_Installer.exe installer and QBXMLRP2.msm merge module. The SDK also installs the request processor.

Documentation

A new and improved unified OSR is available: you'll want to check this out. Because it is a beta, in this release it is accessible from a link within the older, classic OSR.

This release includes one new document: the QuickBooks Web Connector Programmer's Guide, which is a new document describing how to develop web services that work with the QuickBooks web connector. The other documents are updated versions of previous documents: the Developer's Guide for QBMS documents the QBMS features in the SDK offering, the QB SDK Programmer's Guide is a comprehensive treatment of QB SDK programming, and the Technical Overview provides a high level overview of the functionality provided in SDK. All documents are available in both PDF and HTML. Along with the other major features in the SDK, the manuals and the *Onscreen Reference* can be conveniently accessed through the Start menu.

Tools

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The **qbXML Validator** tool contains new functionality that allows you to verify qbXML requests that correspond to these combinations:

- qbXML 6.0, 5.0, 4.1, 4.0, 3.0, 2.1, 2.0, 1.1, 1.0 for U.S. editions of QuickBooks
- qbXML 6.0, 5.0, 4.1, 4.0, 3.0, 2.1, and 2.0 for QuickBooks Online Edition
- qbmsXML 1.0 for QuickBooks Merchant Service
- qbXML CA3.0 and CA2.0 for Canadian editions of QuickBooks
- - qbXML UK3.0 and UK2.0 for UK editions of QuickBooks

The Validator is installed automatically as part of the SDK installation.

The file *tools\SDKTest\SDKTestPlus3.exe* is an enhanced version of SDKTest that uses QBXMLRP2 and allows the user to control every aspect of the connection to QuickBooks and can be used to send XML request files to QuickBooks. It supports sending subscription request XML as well as data integration XML. The source code for this tool is in *samples\qbdt\vb\qbxml\SDKTestPlus3*.

The file *tools\SubscriptionManager\SubView.exe* is a tool for viewing and removing application subscriptions from QuickBooks.

Samples

The Samples directory contains a *readme.html* (which can be accessed from *Start > Programs > QuickBooks SDK 6.0 > Samples*). This file lists each sample and provides links to open the project directory, the project itself, and the executable form of the application.

The SDK installer verifies that the MSXML4.0SP2 API from Microsoft is installed on your system. If MSXML is not present, the SDK installer will install it for you. This API is used by the SDK's Validator tool and several samples.

Some samples require .NET 2.0. This can be downloaded from the Microsoft website.

Downloading MSXML 4.0

If you want to run the sample applications on a system that does not have MSXML installed (for example, if you want to use Remote Data Sharing from a system that does not have the SDK installed), you will need to install MSXML. In addition, if your application is dependent on MSXML Core Services, you will need to redistribute that software in your installer. The MSXML Core Services software is available from [Microsoft](#)

Building the C++ Samples

The `#import "qbxmlrp2.dll"` statement in the C++ samples allows these applications to use the COM interface supported by the QuickBooks SDK. This statement will cause an error when you are building the samples in Microsoft

Visual Studio if the Include path is not set to include the location of this DLL. The DLL is installed with QuickBooks and resides in the QuickBooks common directory, currently defined as

C:\Program Files\Common Files\Intuit\QuickBooks. Add this directory to the Include path by choosing the Tools menu, Options command, and the Directories tab in Visual Studio.

UIandEventTest Samples

In order to build the EventHandler C++ sample, you will need to specify the QuickBooks executable path for the sample project. The method for doing this is different for Visual Studio 6.0 and Visual Studio .NET.

For Visual Studio 6.0, select "Options" from the "Tools" menu. Select the "Directories" tab and then select "Executable Files". Add the QuickBooks executable path to the list of directories here.

For Visual Studio .NET, select "Properties" from the "Project" menu. Under the "C/C++" options, select "General" and add the QuickBooks executable path to the "Additional Include Directories". Under the "MIDL" options, also select "General" and add the QB path to "Additional Include Directories".

All of these C++ samples also use *QBXMLRP2.DLL* in the QuickBooks "common" directory. The project files currently specify this path as *C:\Program Files\Common Files\Intuit\QuickBooks*. If this path is different on your machine, you will need to change it in the project files.

Known Problems in VB Sample Applications

The Visual Basic sample applications allow you to view a response from QuickBooks. If you try to view a response that is greater than 32K, you will receive an "Out of memory" error. This happens because the VB sample applications use a TextBox control, which has a 32K limit, rather than a RichTextBox control. In a Windows 98 or Windows Me environment, this can corrupt memory, and the application might not terminate properly.

There is a known issue (not related to qbXML) with the AddReceivePayment sample application. The MS Visual Studio application must be installed before you can run AddReceivePayment, or you will receive the following error

message when you run the application: "Class not registered. You need the following file to be installed on your machine. MSSTDFMT.DLL."

Using Payroll Reports

If your application is accessing a company file that is currently signed up for a subscription to a payroll service, you can generate payroll reports and query `PayrollNonWageItems`.

To test this feature, you can use one of Intuit's sample company files (even though it will not be signed up for a subscription to a payroll service). Please be aware that QuickBooks will record an artificial creation date to any test data that you add to a sample company file.

Future Considerations for UK/Canada Applications

- In the future, we will provide a way for applications to make a single set of QuickBooks SDK calls that will work with U.S., Canadian and UK versions of QuickBooks. This may have the result that code written to work with current or past versions of Canadian or UK editions of QuickBooks (for example, dealing with sales tax and/or multi-currency support) may need to be rewritten for these future versions

Deprecation Policy

- You may notice that some items in the OSR are marked as deprecated. Deprecated items supported for the release in which they are deprecated, in the next major release they will be removed from the spec and their functionality will not be available.

If You Have Questions . . .

For IDN support, please visit <http://developer.intuit.com/support>.

For community support, visit <http://idnforums.intuit.com>.