Informatica® Cloud Data Integration

QuickBooks V2 Connector

Informatica Cloud Data Integration QuickBooks V2 Connector
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Preface

Use *Quickbooks V2 Connector* to learn how to read from or write to Quickbooks by using Cloud Data Integration. Learn to create a Quickbooks V2 connection and run synchronization tasks in Cloud Data Integration.

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Introduction to QuickBooks V2 Connector

This chapter includes the following topics:

QuickBooks V2 Connector Overview

You can use QuickBooks V2 Connector to securely connect to QuickBooks from Data Integration. Use QuickBooks V2 to read data from and write data to QuickBooks.

QuickBooks is an accounting software application, which is available in on premise and cloud-based versions. You can use QuickBooks to accept business payments, manage and pay bills, and payroll functions. Information can be integrated between QuickBooks and other applications such as SalesForce, NetSuite, and other on premise or cloud applications.

Note: QuickBooks V2 Connector does not support QuickBooks online version.

QuickBooks V2 Supported Objects and Task Operations

You can perform read, insert, update, delete, and data preview operations on the QuickBooks application.

The following table shows the objects and task operations that QuickBooks V2 supports:

Objects	Read/Query	Insert	Update	Delete	Data Preview
Accounts	Yes	Yes	Yes	Yes	Yes
BillExpenseItems	Yes	Yes	Yes	Yes	Yes
BillLineItems	Yes	Yes	Yes	Yes	Yes

Objects	Read/Query	Insert	Update	Delete	Data Preview
BillPaymentChecks	Yes	Yes	Yes	Yes	Yes
BillPaymentChecksAppliedTo	Yes	Yes	Yes	Yes	Yes
BillPaymentCreditCards	Yes	Yes	NA	Yes	Yes
BillPaymentCreditCardsAppliedTo	Yes	Yes	Yes	Yes	Yes
Bills	Yes	Yes	Yes	Yes	Yes
BuildAssemblies	Yes	NA	NA	Yes	Yes
BuildAssemblyLineItems	Yes	Yes	NA	NA	Yes
CheckExpenseItems	Yes	Yes	Yes	Yes	Yes
CheckLineItems	Yes	Yes	Yes	Yes	Yes
Checks	Yes	Yes	Yes	Yes	Yes
Class	Yes	Yes	Yes	Yes	Yes
CreditCardChargeExpenseItems	Yes	Yes	Yes	Yes	Yes
CreditCardChargeLineItems	Yes	Yes	Yes	Yes	Yes
CreditCardCharges	Yes	Yes	Yes	Yes	Yes
CreditCardCreditExpenseItems	Yes	Yes	Yes	Yes	Yes
CreditCardCreditLineItems	Yes	Yes	Yes	Yes	Yes
CreditCardCredits	Yes	Yes	Yes	Yes	Yes
CreditMemoLineItems	Yes	Yes	Yes	Yes	Yes
CreditMemos	Yes	Yes	Yes	Yes	Yes
Currency	Yes	Yes	Yes	Yes	Yes
SalesOrderLinkedTransactions	Yes	NA	NA	NA	Yes
Templates	Yes	NA	NA	NA	Yes

Objects	Read/Query	Insert	Update	Delete	Data Preview
Transactions	Yes	NA	NA	NA	Yes
VendorCreditLinkedTransactions	Yes	NA	NA	NA	Yes

Objects	Read/Query	Insert	Update	Delete	Data Preview
CustomerMessages	Yes	Yes	NA	Yes	Yes
Customers	Yes	Yes	Yes	Yes	Yes
CustomerShippingAddresses	Yes	Yes	Yes	Yes	Yes
DateDrivenTerms	Yes	Yes	NA	Yes	Yes
DepositLineItems	Yes	Yes	Yes	Yes	Yes
Deposits	Yes	Yes	Yes	Yes	Yes
EmployeeEarnings	Yes	Yes	Yes	Yes	Yes
Employees	Yes	Yes	Yes	Yes	Yes
EstimateLineItems	Yes	Yes	Yes	Yes	Yes
Estimates	Yes	Yes	Yes	Yes	Yes
InventoryAdjustmentLineItems	Yes	Yes	NA	NA	Yes
InventoryAdjustments	Yes	Yes	NA	Yes	Yes
InventorySites	NA	NA	NA	NA	NA
InvoiceLineItems	Yes	Yes	Yes	Yes	Yes
Invoices	Yes	Yes	Yes	Yes	Yes
ItemLineItems	Yes	Yes	Yes	Yes	Yes
ItemReceiptExpenseItems	Yes	Yes	Yes	NA	Yes
ItemReceiptLineItems	Yes	Yes	Yes	Yes	Yes
ItemReceipts	Yes	Yes	Yes	Yes	Yes
Items	Yes	Yes	Yes	Yes	Yes
JournalEntries	Yes	Yes	Yes	Yes	Yes
JournalEntryLines	Yes	Yes	Yes	Yes	Yes
OtherNames	Yes	Yes	Yes	Yes	Yes

Objects	Read/Query	Insert	Update	Delete	Data Preview
PaymentMethods	Yes	Yes	NA	Yes	Yes
PriceLevelPerItem	Yes	Yes	NA	NA	Yes
PriceLevels	Yes	Yes	NA	Yes	Yes
BillLinkedTransactions	Yes	NA	NA	NA	Yes
CompanyInfo	Yes	NA	NA	NA	Yes
CreditMemoLinkedTransactions	Yes	NA	NA	NA	Yes
EstimateLinkedTransactions	Yes	NA	NA	NA	Yes
InvoiceLinkedTransactions	Yes	NA	NA	NA	Yes
ItemReceiptLinkedTransactions	Yes	NA	NA	NA	Yes

Objects	Read/Query	Insert	Update	Delete	Data Preview
PurchaseOrderLineItems	Yes	Yes	Yes	Yes	Yes
PurchaseOrders	Yes	Yes	Yes	Yes	Yes
ReceivePayments	Yes	Yes	Yes	Yes	Yes
ReceivePaymentsAppliedTo	Yes	Yes	Yes	Yes	Yes
SalesOrderLineItems	Yes	Yes	Yes	Yes	Yes
SalesOrders	Yes	Yes	Yes	Yes	Yes
SalesReceiptLineItems	Yes	Yes	Yes	Yes	Yes
SalesReceipts	Yes	Yes	Yes	Yes	Yes
SalesReps	Yes	Yes	Yes	Yes	Yes
ShippingMethods	Yes	Yes	NA	Yes	Yes
StandardTerms	Yes	Yes	NA	Yes	Yes
TimeTracking	Yes	Yes	Yes	Yes	Yes
TransferInventory	Yes	NA	NA	Yes	Yes
TransferInventoryLineItems	Yes	Yes	NA	NA	Yes
UnitOfMeasure	Yes	Yes	NA	Yes	Yes

Objects	Read/Query	Insert	Update	Delete	Data Preview
UnitOfMeasureDefaultUnits	Yes	Yes	NA	Yes	Yes
UnitOfMeasureRelatedUnits	Yes	Yes	NA	Yes	Yes
VehicleMileage	Yes	Yes	NA	Yes	Yes
VendorCreditExpenseItems	Yes	Yes	Yes	Yes	Yes
VendorCreditLineItems	Yes	Yes	Yes	Yes	Yes
VendorCredits	Yes	Yes	Yes	Yes	Yes
Vendors	Yes	Yes	Yes	Yes	Yes
ItemSites	Yes	NA	NA	NA	Yes
Preferences	Yes	NA	NA	NA	Yes
PurchaseOrderLinkedTransactions	Yes	NA	NA	NA	Yes
ReportAging	Yes	NA	NA	NA	Yes
ReportBalanceSheet	Yes	NA	NA	NA	Yes
ReportProfitAndLoss	Yes	NA	NA	NA	Yes

Enabling QuickBooks V2 Connector

Enable the QuickBooks V2 Connector before you create the QuickBooks connection.

To enable QuickBooks V2 Connector, contact Informatica support or an Informatica representative. After you enable QuickBooks V2 Connector, the Secure Agent might take a few minutes to download.

For more information on installing a Secure Agent, see Installing Informatica Secure Agent.

Note: $LastRunTime filter requires the QuickBooks application to run in local time zone.

Setting up a Remote Connector

Set up a remote connector before you create a QuickBooks V2 connection. The remote connector integrates the QuickBooks V2 Connector with QuickBooks application.

Perform the following steps to set up a remote connector:

1. Run the `RemoteConnector.exe` file.

    The Remote Connector dialog box appears.

    Note: You can find the `RemoteConnector.exe` file in the following directory: `<Secure Agent installation directory>\downloads\<latest connector zip package>\package\plugins\<plugin ID>`, or you can perform an OS search.

2. Click **Users**.

3. Enter **Username** and **Password** to create a Remote Connector user.

4. Click **Add User**.

    A new user account is created.

    Note: You need login credentials to create a QuickBooks V2 connection in Data Integration. For more information on Quickbooks V2 connection properties, see " QuickBooks V2 Connection Properties" on page 14.
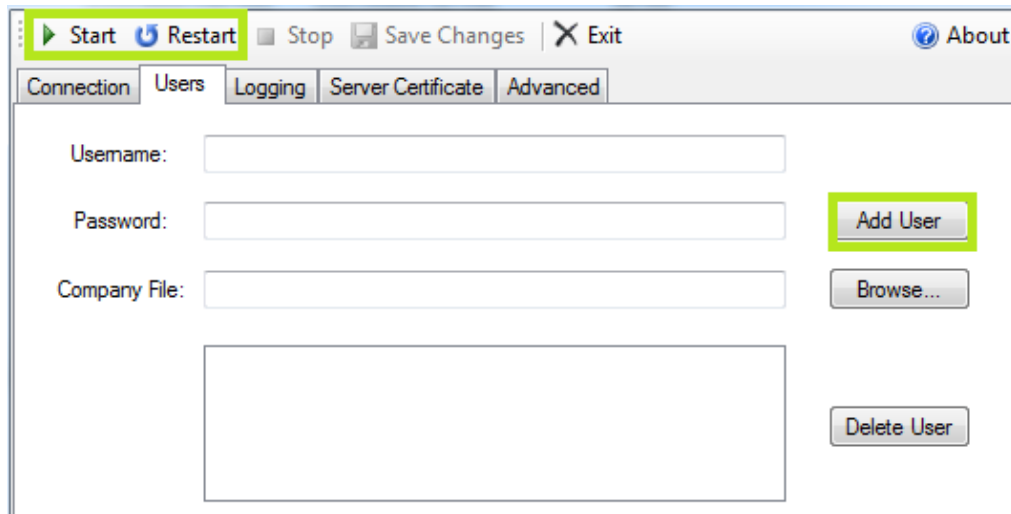
    Note: To access QuickBooks application, you do not need remote connector login credentials.
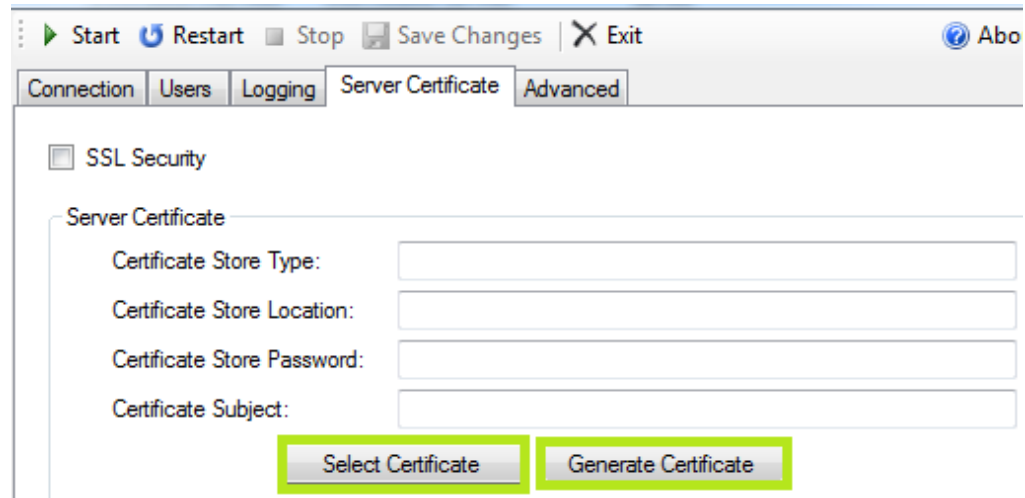
5. Click **Start** to activate the remote connector.

Generating Server Certificate (Optional)

Perform the following steps to generate a Server Certificate:

1. In Remote Connector application, click **Server Certificate**.

   The Server Certificate tab appears.

2. Enter the required details.

3. Click **Generate Certificate**.

4. If you have already generated the server certificate, click **Select Certificate** to choose an existing server certificate.

Granting Access to QuickBooks Application

While creating a QuickBooks V2 connection, the following dialog box might appear when you test the connection for the first time:
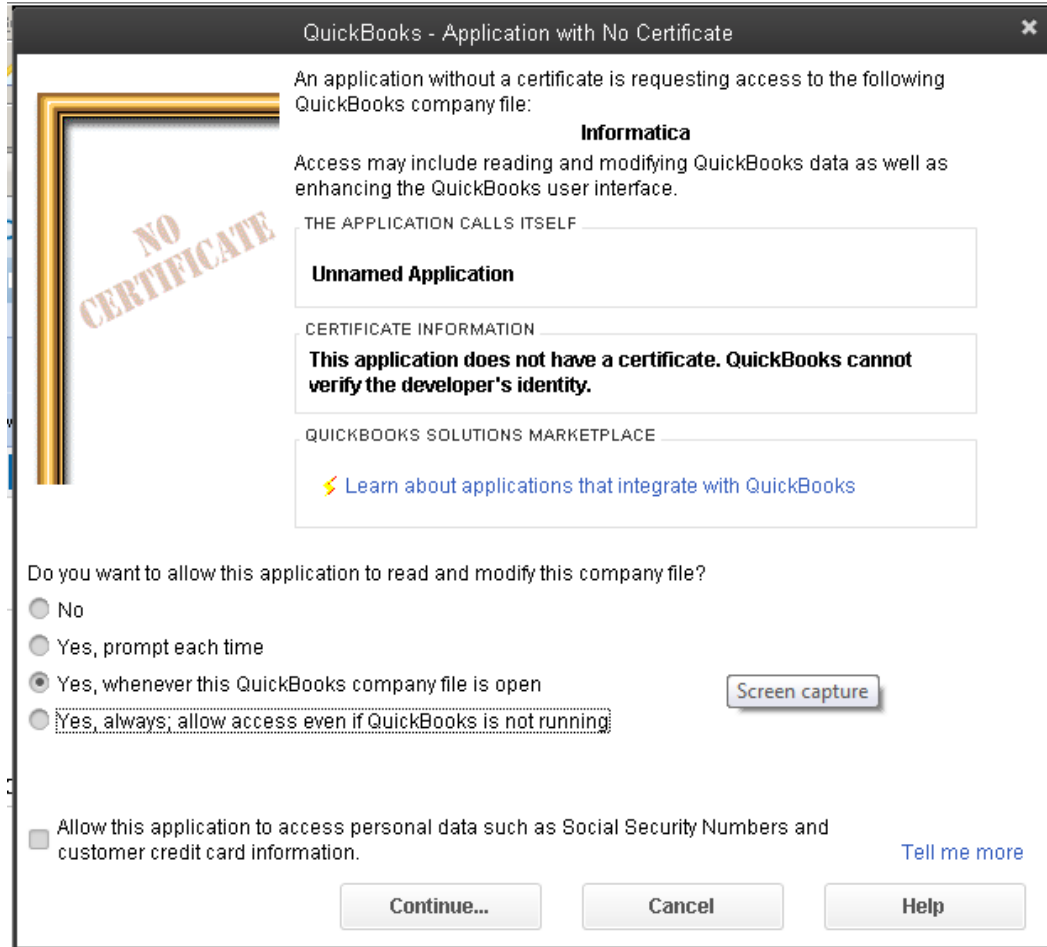
Perform the following steps to grant access to QuickBooks application:

1. Select **Yes, whenever this QuickBooks company file is open**.

2. Click **Continue** and then specify QuickBooks V2 connection properties.

    For more information on QuickBooks V2 connection properties, see <u>" QuickBooks V2 Connection Properties" on page 14</u>.

CHAPTER 2

QuickBooks V2 Connections

This chapter includes the following topic:

QuickBooks V2 Connection Properties

When you set up a QuickBooks V2 connection, you must configure the connection properties.

The following table describes the QuickBooks V2 connection properties:

Connection Property	Description
Username	Username of the QuickBooks account.
Password	Password of the QuickBooks account.
Connection URL	The Connection URL to connect to the QuickBooks application.
Schema	The value of Schema is set to default automatically.
QBXML version	QBXML version of the QuickBooks. The default QBXML version is 6.0.
Enable Logging	Enable logging to see the session logs of tasks.

QBXML Version

You require a QBXML version while creating a connection.

A corresponding version of the QuickBooks SDK is released with each release of QuickBooks. For example, with QuickBooks 2009 version, a corresponding 8.0 version of the QuickBooks SDK was also released.

Each release of QuickBooks support all earlier versions of the SDK, which means, requests using version 1.1 of the QuickBooks SDK are supported by all versions of QuickBooks.

It is recommended that you set the **QBXMLVersion** property to the corresponding version of QuickBooks you are using.

The following table shows the QBXML versions and their corresponding QuickBooks version:

QuickBooks Version	QBXML Version
QuickBooks 2002	1.0, 1.1
QuickBooks 2003	2.0
QuickBooks 2004	3.0
QuickBooks 2005	4.0, 4.1
QuickBooks 2006	5.0
QuickBooks 2007	6.0
QuickBooks 2008	7.0
QuickBooks 2009 and 2010	8.0
QuickBooks 2017	12.0

For more information on QBXML versions, see "Recommended QBXML Versions for Objects" on page 34.

Connection Parameters

Before creating a QuickBooks V2 connection, you can modify the connection parameters in the `connectionparameters.ini` file.

You can modify the `connectionparameters.ini` file in the following locations:

- `<Secure Agent installation directory>\downloads\<latest connector zip package>\package\plugins\<Plugin ID>`

- `<Secure Agent installation directory>\downloads\<latest connector zip package>\package\rdtm\javalib\<Plugin ID>`

Note: Modify the connection parameters at one file location, and copy the modified file to other location.

The following table describes the parameters in the `connectionparameters.ini` file:

Parameters	Description
ApplicationId	Enter the assigned application ID by Intuit. You have to register the application with QuickBooks to obtain the Application ID.
ApplicationName	Enter the application name. QuickBooks displays the name and prompts the user to grant or refuse access to the application.
CompanyFile	Enter the company file name. Do not set CompanyFile when QuickBooks is open. **Note:** It is mandatory to assign the CompanyFile property in Remote Connector if QuickBooks is connected through Remote connector.

Parameters	Description
ConnectionTicket	Enter the connection ticket. The ticket is applicable for QuickBooks Online Edition. Connection ticket is permanently valid. If user has not enabled session authentication ("login security"), it is enough to specify the connection ticket, application name, and online login.
DelayAfterClose	Enter the delay in milliseconds, to be applied each time a connection to QuickBooks is closed. When you get internal errors, setting this delay to a positive value may solve the problem.
FirewallPassword	Enter the password, if authentication is required to connect through firewall. When Firewall Server is specified, it is mandatory to specify the Firewall User and Firewall Password to authenticate the firewall.
FirewallPort	Enter the TCP port for the firewall port server. Example, FirewallPort : 400. QuickBooks connector sets the Firewall Port to default port associated with the specified Firewall Type.
FirewallServer	Enter the Firewall server IP address to authenticate connection. When Firewall server is set to a domain name, a DNS request is initiated and the name is translated to the corresponding IP address.
FirewallType	Enter the type of firewall required for connection. For more information, see "Firewall Types" on page 17.
FirewallUser	Enter the Firewall user name. When Firewall Server is specified, it is mandatory to specify the Firewall User and Firewall Password properties to authenticate the firewall.
IncludeLineItems	Select **True** to request Line Item responses. Default is False. You can select whether to request Line Item responses or not, when retrieving base transaction, such as Invoices. Setting this value to false will typically result in better performance.
IncludeLinkedTxns	Select **True** to request Linked Transactions. Default is False. You can select whether to request Linked Transactions responses or not, when retrieving base transaction, such as Invoices. Setting this value to false will typically result in better performance.
OnlineLogin	Enter your user login for QuickBooks online edition. For example, OnlineLogin : AABSC. The Online Login is applicable only to QuickBooks Online Edition.
Other	A semicolon-separated list of name-value pairs used in connection parameters specific to a data source. For more information, see "Other Property" on page 18. Parameters that connect to data source. Example, username and password, when applicable.
ProxyAuthScheme	Enter the proxy server authorization scheme. The value may be BASIC, DIGEST, NONE, NTLM, or PROPRIETARY
ProxyAutoDetect	Enter "True" to use the default system proxy settings. Otherwise enter "False" to use custom proxy settings. Indicate whether to use the default system proxy settings or not.
ProxyPassword	Enter the proxy password, if you are authenticating the connector using proxy server. When you use a proxy server, the proxy user and proxy password properties are required to authenticate against the firewall.

Parameters	Description
ProxyPort	Enter the TCP port for the proxy server. The default value is set to 80.
ProxyServer	If you enter the proxy server address, then the HTTP request is sent to the proxy instead of the server, otherwise specified. When the proxy server is set to a domain name, a DNS request is initiated and the name is translated to the corresponding IP address.
ProxySSLType	Enter the SSL type to use while connecting to proxy server. The value may be AUTO, ALWAYS, NEVER, or TUNNEL.
ProxyUser	Enter proxy username, if authentication is required over proxy. When you specify proxy server, the proxy user and proxy password properties are required to authenticate against the firewall.
SessionTicket	Optional. Enter the session ticket for a single session. Session ticket is valid only for sixty minutes after its last use. If you require session authentication, you must obtain the value offline before connecting to QuickBooks.
SSLAcceptCertServer	Mention SSL certificate used by remote connector. The Base-64-encoded certificate used by the Remote Connector.
SSLCert	Mention the certificate to be accepted from the server when connecting using SSL. When using an SSL connection, SSLCert used to specify the SSL certificate to be accepted from the server.
Timeout	Mention the time-out in seconds. Default value is 30 seconds. When timeout is set to 0, task operations do not time out and complete successfully or encounter an error condition.

Firewall Types

The following table shows the firewall types:

Type	Firewall Port
TUNNEL	80
SOCKS4	1080
SOCKS5	1080

Other Property

The following table shows the other connection properties:

Name	Value
CachePartial	True/False. Select "True" to cache only a subset of columns which you can specify in your query. Otherwise select "False".
QueryPassthrough	True/False. Select "True" to pass the query to the cache database allowing you to use the full syntax of the cache database. Otherwise select "False".
RecordToFile	Filename. Records the underlying socket data transfer to the specified file.

Connection Parameters in INI File

The following table shows the connection parameters and their values:

Parameter Name	Value
ApplicationId	String
ApplicationName	String
CompanyFile	String
ConnectionTicket	String
DelayAfterClose	Time
FirewallPassword	String
FirewallPort	String
FirewallServer	String
FirewallType	Firewall Types. For more information, see *Firewall Types*.
FirewallUser	String
IncludeLineItems	True/False
IncludeLinkedTxns	True/False
OnlineLogin	String
Other	Other Property. For more information, see *Other Property*.
ProxyAuthScheme	BASIC, DIGEST, NONE, NTLM, or PROPRIETARY.
ProxyAutoDetect	True/False

Parameter Name	Value
ProxyPassword	String
ProxyPort	Default value is 80.
ProxyServer	String
ProxySSLType	AUTO, ALWAYS, NEVER, or TUNNEL.
ProxyUser	String
SessionTicket	String
SSLAcceptCertServer	String
SSLCert	String
Timeout	Default value is 30 (secs)

Note: You can create a connection parameter in the following format: **<Parameter_Name>=<Value>**. For example, **IncludeLineItems=True/False**.

For more information, see "Connection Parameters" on page 15.

CHAPTER 3

Synchronization Tasks with QuickBooks V2 Connector

This chapter includes the following topics:

Creating a QuickBooks Synchronization Task

Consider the task operation Insert to perform a synchronization task.

Perform the following steps to create a synchronization task in Data Integration:

1. Click **Data Integration** > **New** > **Tasks**. Select **Synchronization Task** and click **Create**.

    The **Definition** tab appears.

2. Enter the **Task Name**, provide a **Description** and select the Task Operation **Insert**.
3. Click **Next**.

The **Source** tab appears.

4. Select the source **Connection**, **Source Type** and **Source Object** to be used for the task.

5. Click **Next**.

   The **Target** tab appears.

6. Select the target **Connection** and **Target Object** required for the task.

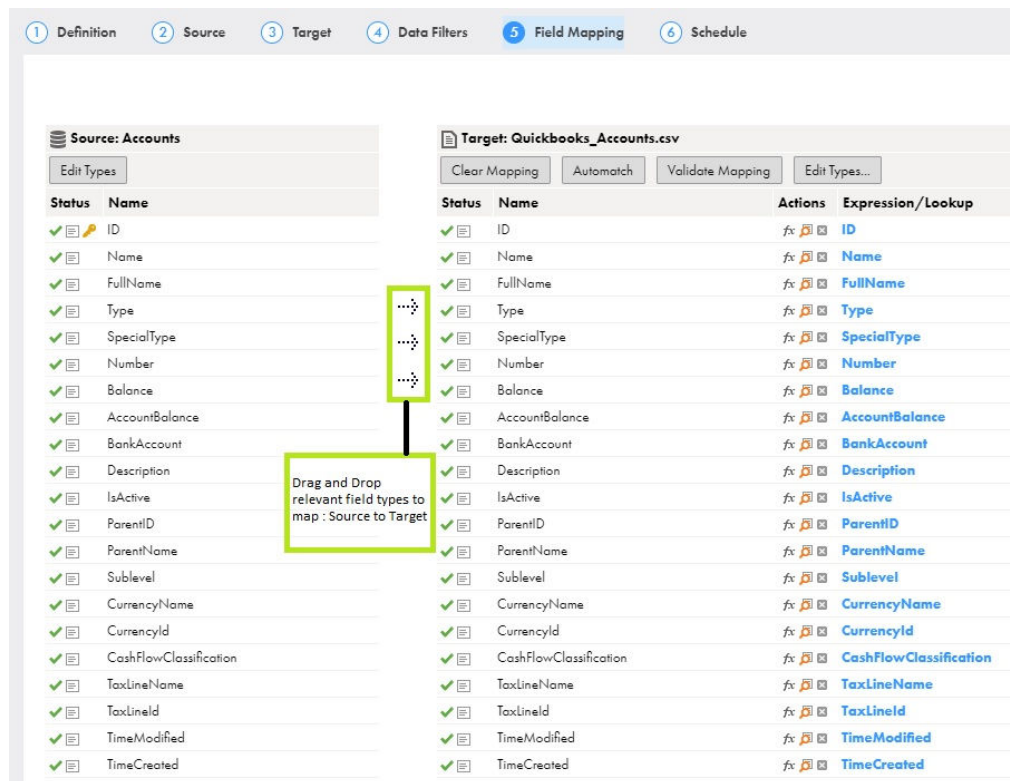7. Click **Next**.

The **Data Filters** tab appears.

8. By default, **Process all rows** is chosen.

    For more information, see "Data Filters" on page 23

9. Click **Next**.

    The **Field Mapping** tab appears.

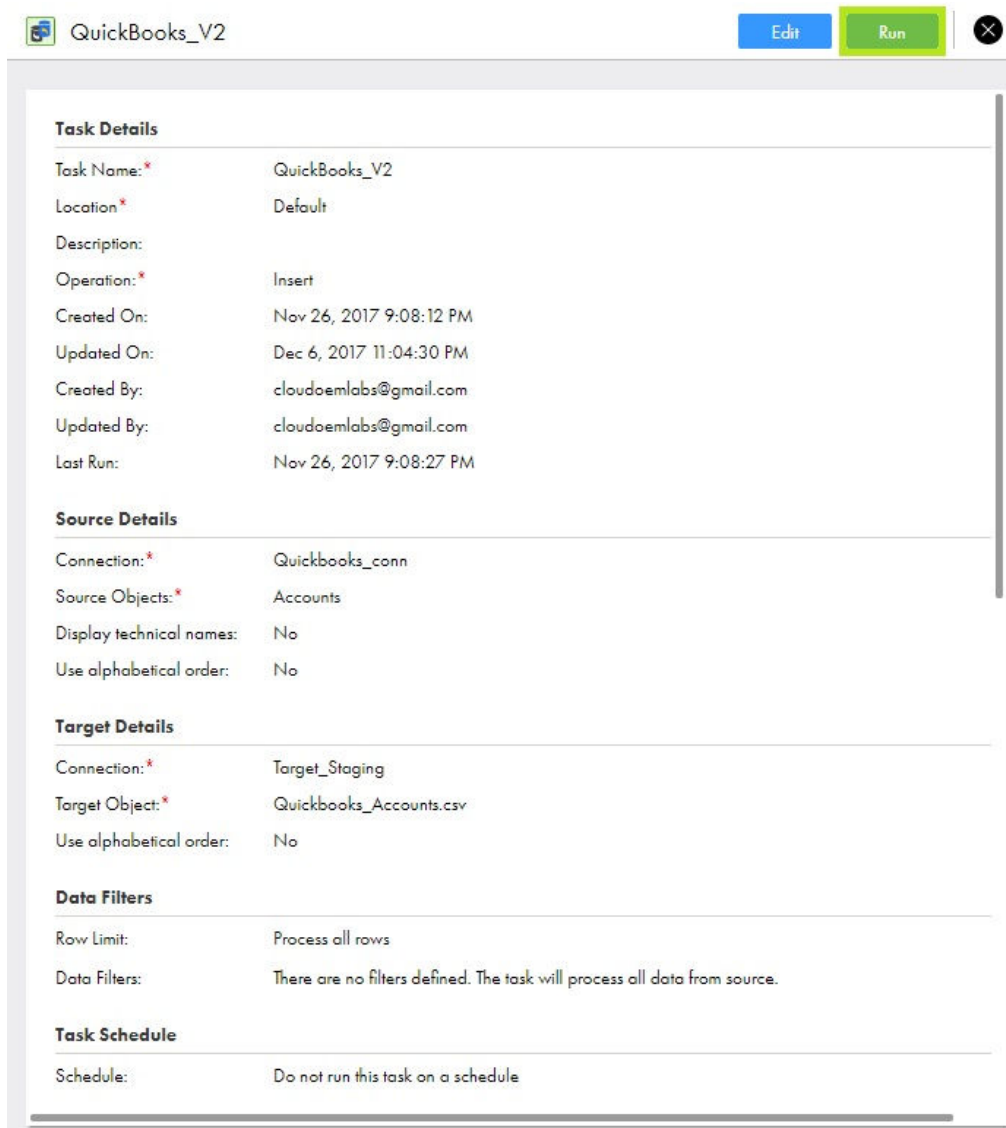10. Map the source fields to target fields accordingly.

11. Click **Next**.

    The **Schedule** tab appears.

12. Schedule the task if needed, and then save the task.

13. If you do not want to schedule the task, click **Run**.

Data Filters

Data filters helps in fetching specific data of a particular object. The synchronization task processes the data based on the filter field assigned to the object.

In data filters, all the objects might not support certain filter fields. You can not apply filters to all the available fields. For more information on supported filter fields, see "Filter Fields" on page 25.

Note: Run the synchronization task to know if filters are applicable on the selected field or not.

Perform the following steps to use data filters in a Synchronization task:

1. Click **Data Filters**.

   The **Data Filters** tab appears.

2. Click **New** as shown in the following image:
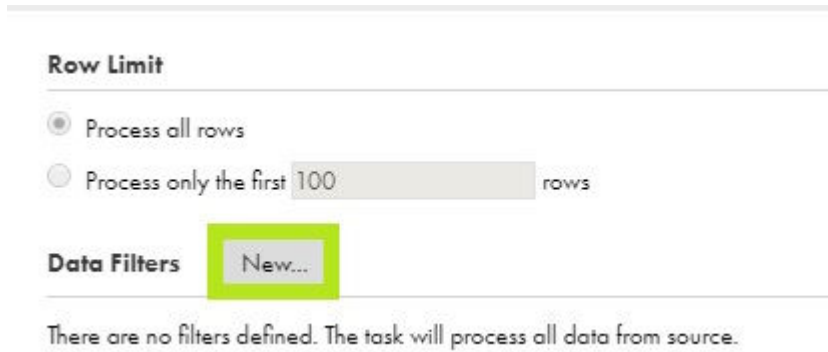
   The Data Filter dialog box appears.
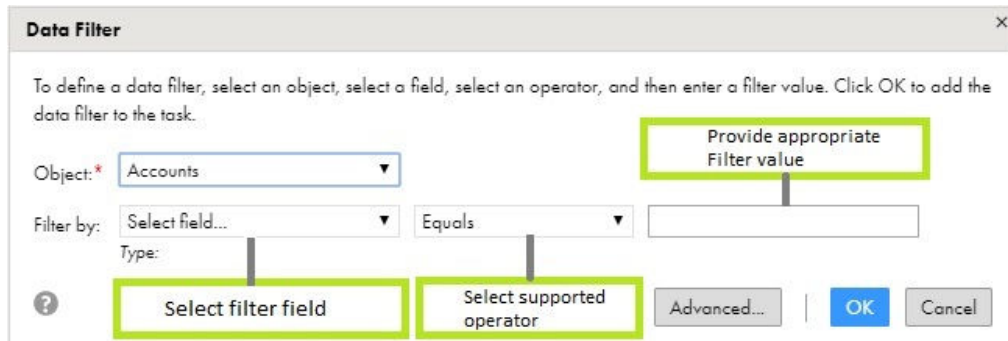
   The following table describes the details for each field type:

Field Type	Description
Object	Select Object for which you want to assign filter fields.
Filter By	Select the Filter Field.
Operator	Select the corresponding operator.
Filter Value	Enter the Filter value.

3. Click **OK** to add data filter to the task.

   For more information, see "Unsupported Filter Fields" on page 35.

Filter Fields

The following table shows various filter fields available for objects:

Object	Filters	Operators
Accounts	ID	=
	Name	=,startswith, endswith, contains
	Type	=
	IsActive	=
	TimeModified	=,>, >=, <, <=
BillExpenseItems, BillLineItems, Bills, BillLinkedTransactions	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	VendorName	=
	VendorId	=,>, >=, <, <=
	AccountsPayable	=
	AccountsPayableId	=
	IsPaid	=
	TimeModified	=,>, >=, <, <=
BillPaymentChecks, BillPaymentChecksAppliedTo, BillPaymentCreditCards, BillPaymentCreditCardsAppliedTo	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	PayeeName	=
	PayeeId	=
	AccountsPayable	=
	AccountsPayableId	=
	IsPaid	=
	TimeModified	=,>, >=, <, <=
CheckExpenseItems, CheckLineItems, Checks	ID	=
	Date	=,>, >=, <, <=

Object	Filters	Operators
	ReferenceNumber	=,startswith, endswith, contains
	PayeeName	=
	PayeeId	=
	Account	=
	AccountId	=
	IsPaid	=
	TimeModified	=,>, >=, <, <=
Class	ID	=
	Name	=,startswith, endswith, contains
	IsActive	=
CreditCardChargeExpenseItems, CreditCardChargeLineItems, CreditCardCharges, CreditCardCreditExpenseItems, CreditCardCreditLineItems, CreditCardCredits	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	Account	=
	AccountId	=
	TimeModified	=,>, >=, <, <=
CreditMemoLineItems, CreditMemos	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	CsutomerName	=
	CustomerId	=
	AccountRecieveable	=
	AccountsReceivableId	=
	TimeModified	=,>, >=, <, <=
Customers	ID	=
	Date	=,>, >=, <, <=
	IsActive	=,startswith, endswith, contains

Object	Filters	Operators
	Balance	=,>, >=, <, <=
	TimeModified	=,>, >=, <, <=
DateDrivenTerms	Name	=,startswith, endswith, contains
	IsActive	=
	TimeModified	=,>, >=, <, <=
DepositLineItems, Deposits	ID	=
	Date	=,>, >=, <, <=
	DepositToAccount	=
	DepositToAccountId	=
	TimeModified	=,>, >=, <, <=
EmployeeEarnings, Employees,	ID	=
	Name	=,startswith, endswith, contains
	IsActive	=
	TimeModified	=,>, >=, <, <=
EstimateLineItems, Estimates	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	CustomerName	=
	CustomerId	=
	TimeModified	=,>, >=, <, <=
InventoryAdjustmentLineItems, InventoryAdjustments,	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	CustomerName	=
	CustomerId	=
	Account	=
	AccountId	=

Object	Filters	Operators
	TimeModified	=,>, >=, <, <=
InvoiceLineItems, Invoices	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	CustomerName	=
	CustomerId	=
	Account	=
	AccountId	=
	IsPaid	=
	TimeModified	=,>, >=, <, <=
ItemLineItems, Items,	ID	=
	Name	=,startswith, endswith, contains
	Type	=
	IsActive	=
	TimeModified	=,>, >=, <, <=
ItemReceiptExpenseItems, ItemReceiptLineItems, ItemReceipts,	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	VendorName	=
	VendorId	=
	Payee	=
	PayeeId	=
	Account	=
	AccountId	=
	IsPaid	=
	TimeModified	=,>, >=, <, <=
JournalEntries, JournalEntryLines,	ID	=

Object	Filters	Operators
	Date	=,>, >=, <, <=
	TimeCreated	=
	VendorName	=
	VendorId	=
	LineEntityName	=
	LineEntityId	=
	LineAccount	=
	LineAccountId	=
	IsPaid	=
	TimeModified	=,>, >=, <, <=
PurchaseOrderLineItems, purchaseOrders	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	VendorName	=
	VendorId	=
	TimeModified	=,>, >=, <, <=
ReceivePayments, ReceivePaymentsAppliedTo, SalesReceiptLineItems, SalesReceipts,	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	CustomerName	=
	CustomerId	=
	DepositToAccountName	=
	DepositToAccountId	=
	TimeModified	=,>, >=, <, <=
SalesOrderLineItems, SalesOrders,	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains

Object	Filters	Operators
	CustomerName	=
	CustomerId	=
	TimeModified	=,>, >=, <, <=
SalesReps, ShippingMethods, StandardTerms	ID	=
	Name	=,startswith, endswith, contains
	IsActive	=
	TimeModified	=,>, >=, <, <=
TimeTracking	ID	=
	Date	=,startswith, endswith, contains
	EmployeeName	=
	EmployeeId	=
	TimeModified	=,>, >=, <, <=
Transfer Inventory, TransferInventoryLineItems	ID	=
	TXNDate (TXN: Transaction)	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	TimeModified	=,>, >=, <, <=
VehicleMileage,Vendors	ID	=
	Name	=,startswith, endswith, contains
	TimeModified	=,>, >=, <, <=
VendorCreditExpenseItems, VendorCreditLineItems, VendorCredits,	ID	=
	Date	=,>, >=, <, <=
	ReferenceNumber	=,startswith, endswith, contains
	VendorName	=
	VendorId	=
	AccountsPayableId	=
	AccountsPayableName	=
	TimeModified	=,>, >=, <, <=

For more information, see "Recommended QBXML Versions for Objects" on page 34.

Advanced Filters

Advanced data filers help you to further filter data by offering more customizable and multiple filtering options at one instance.

In data filters, all the objects might not support certain filter fields. You can not apply filters to all the available fields.

For more information on supported filter fields, see "Filter Fields" on page 25.

Perform the following steps to define advanced data filters in Data Filter dialog box:

1. Click **Advanced**.

    The Advanced Data Filter dialog box appears.

2. Enter the **Filter Expression** you want.

3. Click **OK**.

You can apply multiple filters at one instance, as shown in the image. For example, Name Like '%Accountant%' AND TimeModified<='1/25/2014' AND ID= '8000002F-1390458673'

The mentioned filter expression contains three specific filters separated by conjunction filter **AND**.

Note: Only AND conjunction filter is supported by advanced data filters.

The following list shows the supported advanced data filter operators:

*   Like
*   =
*   >
*   >=
*   <
*   <=
*   %<Value>%

C H A P T E R 4

Troubleshooting

This chapter includes the following topics:

Increasing the Secure Agent Memory

To increase performance and avoid runtime environment memory issues, perform the following steps:

1. In Administrator, select **Runtime Environments**.
2. Select the Secure Agent for which you want to increase memory from the list of available Secure Agents.
3. In the upper-right corner, click **Edit**.
4. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Service.
5. Edit **JVMOption1** as **-Xms4056m** and **JVMOption2** as **-Xmx4056m**.

   The following image shows the **Details** page:

6. In the **System Configuration Details** section, select the **Type** as **TomCatJRE**
7. Edit **INFA_memory** as **-Xms256m -Xmx512m**.

The following image shows the **Agent Details** page:

Note: The minimum and maximum values for the Java heap size are given as an example. Specify the size according to your requirements.

8. Restart the Secure Agent.

Known Issues

- When you perform query operation for Employees object, you might get invalid data for few fields. For example, Gender value as "gFemale" even if the value in QuickBooks application is 'female' for same field.
- When you perform synchronization task for few objects, the update task operation might provide result as null, in such cases data will not be updated.
- Though the task operation update is supported by StandardTerms, when you run the task operation, the resultset is null.
- Objects having more than 65 character length are not supported.
- You cannot execute multiple tasks simultaneously with the QuickBooks V2 Connector.

APPENDIX A

Recommendations

This appendix includes the following topics:

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Recommended QBXML Versions for Objects

Some objects in QuickBooks are supported only by specific versions of QBXML.

The following table shows the suggested QBXML versions for specific objects:

Objects	Suggested QBXML Version
PriceLevelPerItem, PriceLevels	4.0
Accounts	6.0 or higher
BillPaymentCheck, BillPaymentChecksAppliedTo (only for update task operation)	6.0
Class (Update task operation)	8.0 or higher
Currency	8.0
CustomerShippingAddresses	12.0
Deposit (Update task operation)	7.0 or higher
ReceivePayments, ReceivePaymentsAppliedTo (Update task operation)	6.0
Unit of Measure, UnitOfMeasureRelatedUnits, UnitOfMeasureDefaultUnits	7.0
Vehicle Mileage	6.0

Note: Inventory Sites are only available in QuickBooks Enterprise 2010 version.

Unsupported Filter Fields

The following list shows the unsupported filter fields:

- BuildAssemblies
- BuildAssemblyLineItems
- Currency
- CustomerMessages
- CustomerShippingAddresses
- InventorySites
- OtherNames
- PaymentMethods
- PriceLevelPerItem
- PriceLevels
- UnitOfMeasure
- UnitOfMeasureDefaultUnits
- UnitOfMeasureRelatedUnits
- CompanyInfo
- CreditMemoLinkedTransactions
- EstimateLinkedTransactions
- InvoiceLinkedTransactions
- ItemReceiptLinkedTransactions
- ItemSites
- Preferences
- PurchaseOrderLinkedTransactions
- ReportAging
- ReportProfitAndLoss
- SalesOrderLinkedTransactions
- Templates
- Transactions
- VendorCreditLinkedTransactions

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