

# QuestradeReconcile Python Script

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## 1 Introduction

The QuestradeReconcile macro is python code that uses the Questrade application programming interface (API) to fetch account, position, balance, equity, 30 day activity, and dividend data into a LibreOffice spreadsheet file. This script is meant to be run infrequently to help provide a dashboard view when, for example, re-balancing a portfolio. It is not meant to track real time market conditions and will raise an error when invoked too frequently.

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## 1.1 Reconcile a Spreadsheet with Questrade

Open the Sample spreadsheet and press the **[Reconcile]** button. Inspect the newly updated values in the Accounts, Balances, Positions, Equities, Activities, and Dividends sheets.

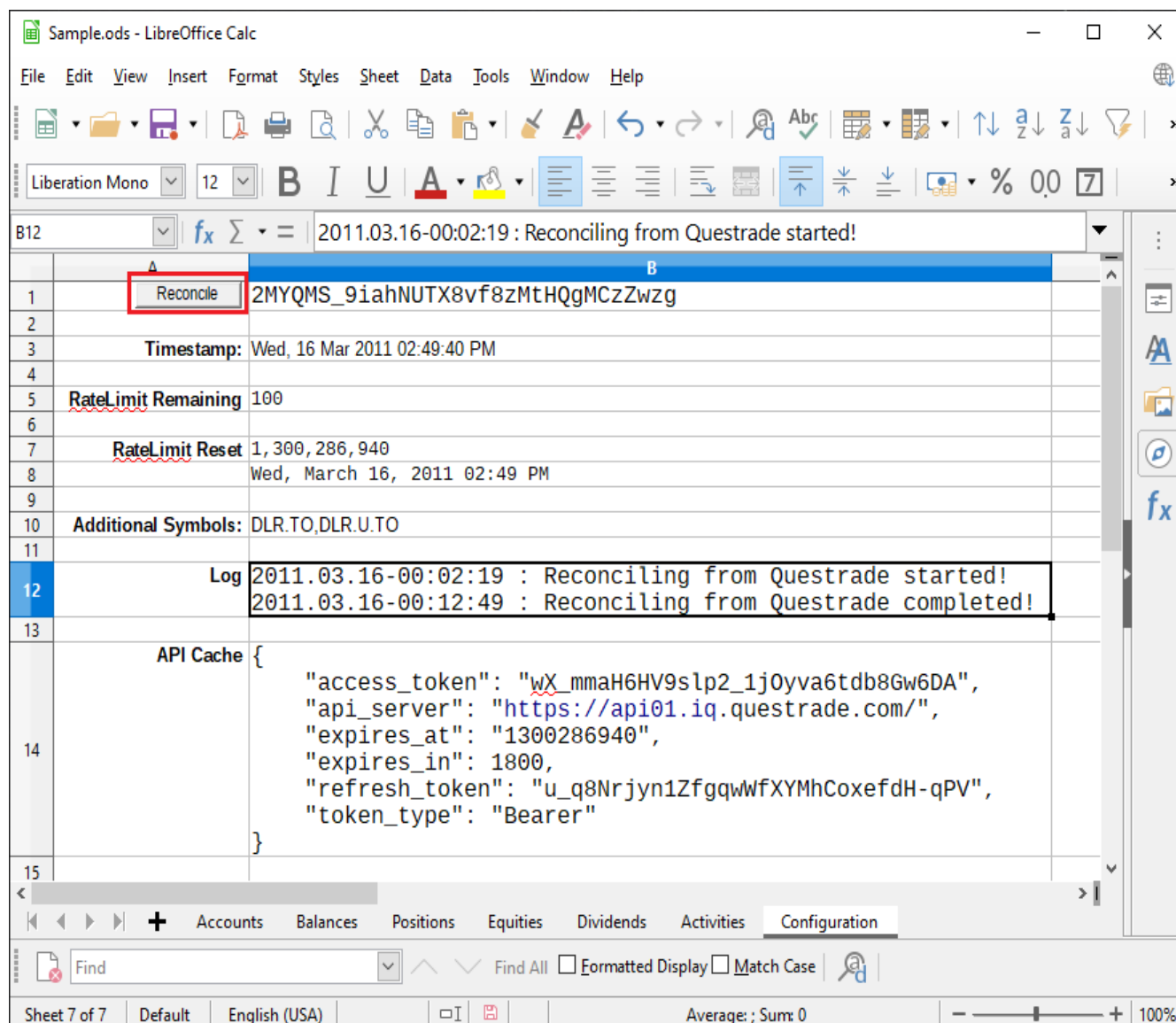


Figure 1: Run the QuestradeReconcile Python Macro

Table 1: Configuration Properties

Label	Reference	Description
Reconcile	<b>\$Configuration.B1</b>	<p>This value is generated by, then copied from, the Questrade user interface as described in section 2.3 Questrade API Activation.</p> <p>It is used to bootstrap the authentication engine which stores updated authentication credentials in the <b>API Cache</b> described below.</p> <p>If this value is rejected by the Questrade server then the 2.3 Questrade API Activation procedure must be used to generate a new value.</p>
Timestamp	<b>\$Configuration.B3</b>	Running the QuestradeReconcile macro updates this value with the Questrade server time.
RateLimit Remaining	<b>\$Configuration.B5</b>	<p>The Questrade API implements a rate limiting system for all authenticated connections. The purpose of this functionality is to protect servers from abuse and to provide a clear indication of the remaining metered API usage.</p> <p>Running the QuestradeReconcile macro updates this value with the number of remaining requests allowed against the current limit.</p>
RateLimit Reset	<b>\$Configuration.B7</b>	Time value when the remaining limit of metered requests will renew (Unix timestamp).
Additional Symbols	<b>\$Configuration.B10</b>	<p>A comma separated list of equity symbols.</p> <p>The equities on the positions sheet is sourced directly from the Questrade API.</p> <p>Equity values for these symbols are appended to the 1.2.4 Equities Sheet in addition to those already referenced by the 1.2.3 Positions Sheet sheet.</p>
Log	<b>\$Configuration.B12</b>	A text cell for logging macro status. This cell is overwritten with each invocation of the macro and records any errors encountered when running the script. When a reconcile operation doesn't complete as expected then check here for more information!
API Cache	<b>\$Configuration.B14</b>	<p>QuestradeReconcile stores authentication state here. It is overwritten as needed with each invocation of the macro.</p> <p>This state information is negotiated with the Questrade server and must be saved when the spreadsheet is closed.</p> <p>If the connection fails then the value is cleared.</p> <p>As a fallback the existing 2.3 Questrade API Activation value is used instead, however that token is likely to fail if it had previously been used to authenticate a connection. Instead a new one must be generated.</p>

## 1.2 Spreadsheet Fields and Formatting

This legend lists the field type, 's' for example for strings, and the corresponding spreadsheet formatting applied to that type of value. These field types are used internally by the python script and are only included here to help document the corresponding columns.

*Table 2: Spreadsheet Formatting Codes*

Description	Field Type	Calc Format
String	s	@
Date	d	MMM D, YYYY
Boolean	b	BOOLEAN
General	n	General
Number with 1 Decimal Place	n0	#,##0;[RED]-#,##0
Number with 2 Decimal Places	n1	#,##0.0;[RED]-#,##0.0
Number with 3 Decimal Places	n2	#,##0.00;[RED]-#,##0.00
Number with 4 Decimal Places	n3	#,##0.000;[RED]-#,##0.000
Number with 5 Decimal Places	n4	#,##0.0000;[RED]-#,##0.0000
Number with 6 Decimal Places	n5	#,##0.00000;[RED]-#,##0.00000

The following sections list the supported data fields and their formatting for each sheet.

## 1.2.1 Accounts Sheet

<https://www.questrade.com/api/documentation/rest-operations/account-calls/accounts>

Table 3: Accounts Sheet Column Definitions

Column Name	Field Type	Description
number	n	Eight-digit account number (e.g., "26598145").
type	s	Type of the account (e.g., "Cash", "Margin"). See <b>Account Type</b> section for all allowed values.
clientAccountType	s	Type of client holding the account (e.g., "Individual"). See <b>Client Account Type</b> for full list of values.
status	s	Status of the account (e.g., Active). See <b>Account Status</b> for full list of values.
isPrimary	b	Whether this is a primary account for the holder.
isBilling	b	Whether this account is one that gets billed for various expenses such as inactivity fees, market data, etc.

### 1.2.1.1 Account Type

Table 4: Account Type Column Values

type	Description
Cash	Cash account.
Margin	Margin account.
TFSA	Tax Free Savings Account.
RRSP	Registered Retirement Savings Plan.
SRRSP	Spousal RRSP.
LRRSP	Locked-In RRSP.
LIRA	Locked-In Retirement Account.
LIF	Life Income Fund.
RIF	Retirement Income Fund.
SRIF	Spousal RIF.
LRIF	Locked-In RIF.
RRIF	Registered RIF.
PRIF	Prescribed RIF.
RESP	Individual Registered Education Savings Plan.
FRESP	Family RESP.

### 1.2.1.2 Client Account Type

The following table specifies all supported account client types.

*Table 5: Client Account Type Column Values*

<b>clientAccountType</b>	<b>Description</b>
Individual	Account held by an individual.
Joint	Account held jointly by several individuals (e.g., spouses).
Informal Trust	Non-individual account held by an informal trust.
Corporation	Non-individual account held by a corporation.
Investment Club	Non-individual account held by an investment club.
Formal Trust	Non-individual account held by a formal trust.
Partnership	Non-individual account held by a partnership.
Sole Proprietorship	Non-individual account held by a sole proprietorship.
Family	Account held by a family.
Joint and Informal Trust	Non-individual account held by a joint and informal trust.
Institution	Non-individual account held by an institution.

### 1.2.1.3 Account Status

The following table specifies all supported account status values.

*Table 6: Account Status Column Values*

<b>status</b>
Active
Suspended (Closed)
Suspended (View Only)
Liquidate Only
Closed



## 1.2.2 Balances Sheet

<https://www.questrade.com/api/documentation/rest-operations/account-calls/accounts-id-balances>

Table 7: Balances Sheet Column Definitions

Column Name	Field Type	Description
balanceType	s	The type of balance is one of <b>perCurrencyBalances</b> , or <b>combinedBalances</b> .
account	n	Eight-digit account number (e.g., "26598145").
accountType	s	Type of the account (e.g., "Cash", "Margin"). See <b>Client Account Type</b> section for all values.
currency	s	Currency of the balance figure (e.g., "USD" or "CAD").
cash	n2	Balance amount.
marketValue	n2	Market value of all securities in the account in a given currency.
totalEquity	n2	Equity as a difference between cash and marketValue properties.
buyingPower	n2	Buying power for that particular currency side of the account.
maintenanceExcess	n2	Maintenance excess for that particular side of the account.
isRealTime	b	Whether real-time data was used to calculate the above values.

### 1.2.3 Positions Sheet

<https://www.questrade.com/api/documentation/rest-operations/account-calls/accounts-id-positions>

Table 8: Positions Sheet Column Definitions

Column Name	Field Type	Description
account	n	Eight-digit account number (e.g., "26598145").
accountType	s	Type of the account (e.g., "Cash", "Margin"). See <b>User Account Type</b> section for all allowed values.
currency	s	Currency of the equity (e.g., "USD" or "CAD").
symbol	s	Equity symbol.
symbolId	n	Internal symbol identifier.
openQuantity	n3	Position quantity remaining open.
currentPrice	n2	Current price of the position symbol.
currentMarketValue	n2	Market value of the position (quantity x price).
averageEntryPrice	n3	Average price paid for all executions constituting the position.
totalCost	n2	Total cost of the position.
openPnl	n2	Unrealized profit/loss on this position.
dayPnl	n2	Unrealized profit/loss on this position based on open current prices.
closedQuantity	n3	Portion of the position that was closed today.
closedPnl	n2	Realized profit/loss on this position.
isUnderReorg	b	Designates whether a symbol is currently undergoing a reorg.
isRealTime	b	Designates whether real-time quote was used to compute PnL.

## 1.2.4 Equities Sheet

<https://www.questrade.com/api/documentation/rest-operations/market-calls/symbols-id>

Table 9: Equities Sheet Column Definitions

Column Name	Field Type	Description
account	n	Eight-digit account number (e.g., "26598145").
accountType	s	Type of the account (e.g., "Cash", "Margin"). See <b>User Account Type</b> section for all allowed values.
currency	s	Currency of the equity (e.g., "USD" or "CAD").
symbol	s	Equity symbol name.
symbolId	n	Internal symbol identifier.
description	s	Symbol description (e.g., "Microsoft Corp.").
listingExchange	s	Primary listing exchange. See <b>Listing Exchange</b> section for the list of all listing exchanges.
securityType	s	Security type (e.g., "Stock"). See <b>Security Type</b> section for all allowed values.
prevDayClosePrice	n2	Closing trade price from the previous trading day.
yield	n4	Dividend yield (dividend / prevDayClosePrice).
pe	n4	Trailing 12-month price to earnings ratio.
eps	n4	Trailing 12-month earnings per share.
outstandingShares	n0	Total number of shares outstanding.
marketCap	n0	Market capitalization (outstandingShares * prevDayClosePrice).
averageVol20Days	n0	Average trading volume over trailing 20 days.
averageVol3Months	n0	Average trading volume over trailing 3 months.
dividend	n4	Dividend amount per share.
dividendDate	d	Dividend declaration date.
exDate	d	Dividend ex-date.
lowPrice52	n2	52-week high price.
highPrice52	n2	52-week high price.
tradeUnit	b	Smallest number of units that can be traded.

#### 1.2.4.1 Listing Exchange

The following table specifies all supported listing exchanges.

*Table 10: Listing Exchange Column Values*

<b>listingExchange</b>	<b>Description</b>
TSX	Toronto Stock Exchange.
TSXV	Toronto Venture Exchange.
CNSX	Canadian National Stock Exchange.
MX	Montreal Exchange.
NASDAQ	NASDAQ.
NYSE	New York Stock Exchange.
NYSEAM	NYSE AMERICAN
ARCA	NYSE ARCA.
OPRA	Option Reporting Authority.
PinkSheets	Pink Sheets.
OTCBB	OTC Bulletin Board.

#### 1.2.4.2 Security Type

The following table specifies all supported security types.

*Table 11: Security Type Column Values*

<b>securityType</b>	<b>Description</b>
Stock	Common and preferred equities, ETFs, ETNs, units, ADRs, etc.
Option	Equity and index options.
Bond	Debentures, notes, bonds, both corporate and government.
Right	Equity or bond rights and warrants.
Gold	Physical gold (coins, wafers, bars).
MutualFund	Canadian or US mutual funds.
Index	Stock indices (e.g., Dow Jones).

## 1.2.5 Activities Sheet

Account activities, including cash transactions, dividends, trades, etc.

<https://www.questrade.com/api/documentation/rest-operations/account-calls/accounts-id-activities>

Table 12: Activities Sheet Column Definitions

Column Name	Field Type	Description
account	n	Eight-digit account number (e.g., "26598145").
accountType	s	Type of the account (e.g., "Cash", "Margin"). See <b>User Account Type</b> section for all allowed values.
currency	s	Currency of the equity (e.g., "USD" or "CAD").
transactionDate	d	Transaction date.
symbol	s	Equity symbol name.
symbolId	n	Internal symbol identifier.
type	s	Activity Type
action	s	No documentation from Questrade.
quantity	n3	The quantity
price	n4	The price
grossAmount	n2	Gross amount
commission	n2	The commission
netAmount	n2	Net Amount
tradeDate	d	Trade date
settlementDate	d	Settlement date
description	s	No documentation from Questrade.

## 1.2.6 Dividends Sheet

Here you'll find dividend information and dividend paying stocks with complete payout histories, increase announcements, growth, yield and much more.

Source TSX: <https://dividendhistory.org/>

Source NASDAQ, BATS, ARCA: <https://www.nasdaq.com>

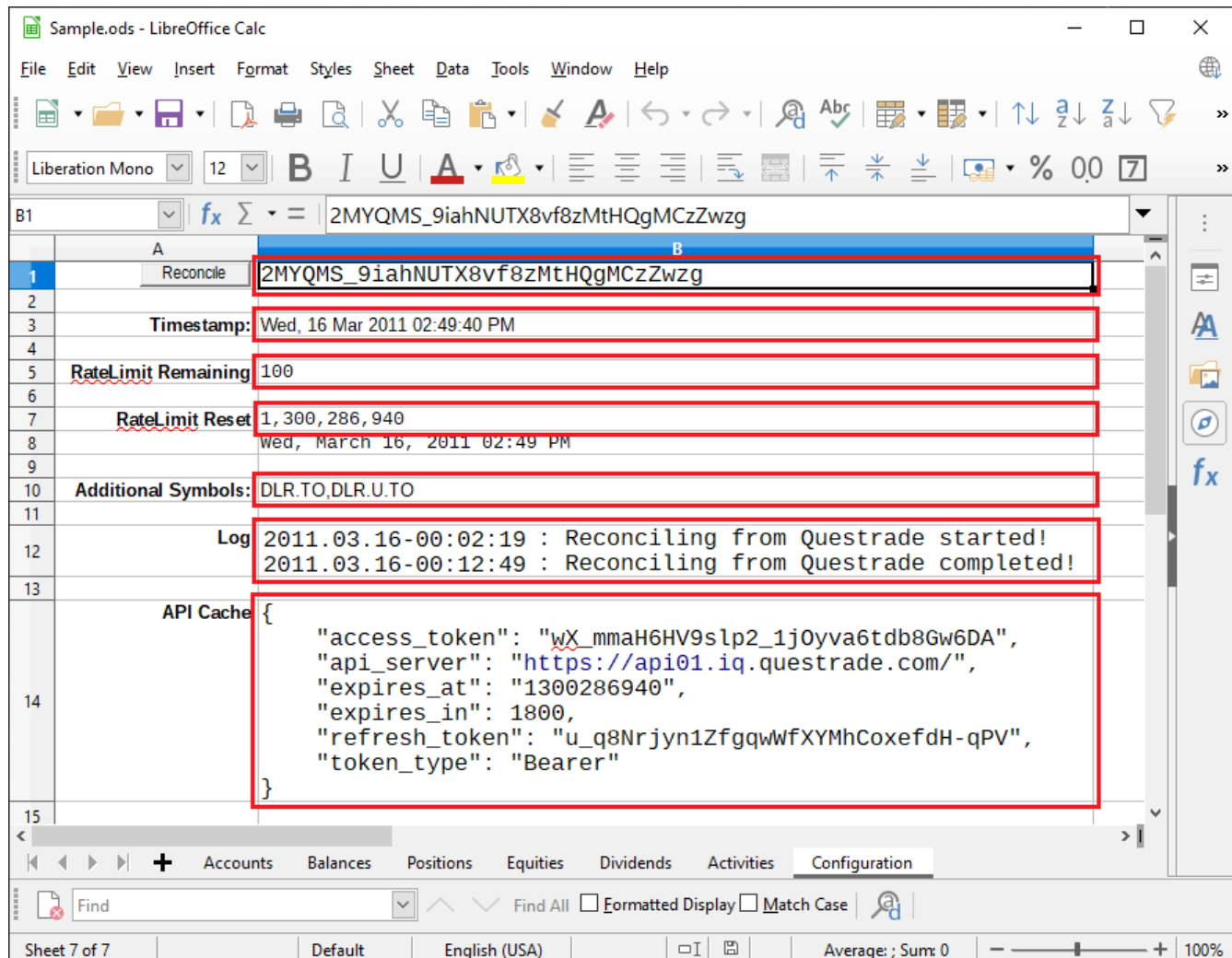
Table 13: Dividends Sheet Column Definitions

Column Name	Field Type	Description
account	n	Eight-digit account number (e.g., "26598145").
accountType	s	Type of the account (e.g., "Cash", "Margin"). See <b>User Account Type</b> section for all allowed values.
symbol	s	Equity symbol name.
symbolId	n	Internal symbol identifier.
currency	s	Currency of the equity (e.g., "USD" or "CAD").
dividend	d	Dividend declaration date.
payout	d	Dividend ex date.
amount	n6	Dividend amount per share.
note	s	TSX: ** indicates unconfirmed/estimated NASDAQ, BATS, ARCA: Type of dividend (i.e., Cash)
quantity	n3	Beginning of current month plus two months ahead this column is assigned from positions openQuantity. Other rows are left empty.
income	n2	Beginning of current month plus two months ahead this column multiplies quantity by dividend amount. Other rows are left empty.

## 2 Installation and Configuration

The spreadsheet file must have seven sheets with the following names: Accounts, Positions, Balances, Equities, Activity, Dividends and Configuration. Except for the Configuration sheet any existing data on these sheets will be cleared when the QuestradeReconcile python macro is run. Data from the Questrade on-line platform will be used to update these sheets. The sheets can be moved within the file: sheet order does not affect anything. Any other sheets in the file are ignored.

The Configuration sheet must have the following cells defined for the QuestradeReconcile macro to function correctly. In the Sample spreadsheet file the adjacent cells to the left are used as labels. The labels are not required by the macro. Add these cells to your custom spreadsheet. See Table 1: Configuration Properties.



The screenshot shows the LibreOffice Calc application window with the 'Sample.ods' file open. The 'Configuration' sheet is active, and several cells are highlighted with red boxes. The cells contain the following data:

Row	Label	Value
1	Reconcile	2MYQMS_9iahNUTX8vf8zMtHQgMCzZwzg
3	Timestamp:	Wed, 16 Mar 2011 02:49:40 PM
5	RateLimit Remaining	100
7	RateLimit Reset	1,300,286,940
8		Wed, March 16, 2011 02:49 PM
10	Additional Symbols:	DLR.TO,DLR.U.TO
12	Log	2011.03.16-00:02:19 : Reconciling from Questrade started! 2011.03.16-00:12:49 : Reconciling from Questrade completed!
14	API Cache	{ "access_token": "wX_mmaH6HV9slp2_1j0yva6tdb8Gw6DA", "api_server": "https://api01.iq.questrade.com/", "expires_at": "1300286940", "expires_in": 1800, "refresh_token": "u_q8Nrjyn1ZfgqWfXYMhCoxefDH-qPV", "token_type": "Bearer" }

The configuration items can be changed to different pages or cell locations by modifying the python code. See **config** values at the top of the `QuestradeReconcile.py` macro file. The file can be modified by using a Windows text editor such as Notepad or Write.

```
config_token = '$Configuration.B1'  
config_timestamp = '$Configuration.B3'  
config_remaining = '$Configuration.B5'  
config_reset = '$Configuration.B7'  
config_equities = '$Configuration.B10'  
config_log = '$Configuration.B12'  
config_apicache = '$Configuration.B14'
```

The following sections describe the installation steps necessary to run the QuestradeReconcile python macro from within the Sample or any other LibreOffice Calc spreadsheet.



## 2.1 LibreOffice Installation

Go to <https://www.libreoffice.org/download/download/> to download and find installation instructions for the LibreOffice suite.



Figure 2: LibreOffice Download at [www.libreoffice.org](http://www.libreoffice.org)

When LibreOffice installation is complete verify:

- Directory **C:\Program\Files\LibreOffice\program** exists and the **python.exe** file can be found there.
- Launch LibreOffice Calc using whatever method you like.

## 2.2 LibreOffice Macro Security Configuration

LibreOffice macros must be enabled to run the QuestradeReconcile python script. Open the Calc Sample spreadsheet and navigate to the **[Tools → Options]** dialog or press **[Alt+F12]**.

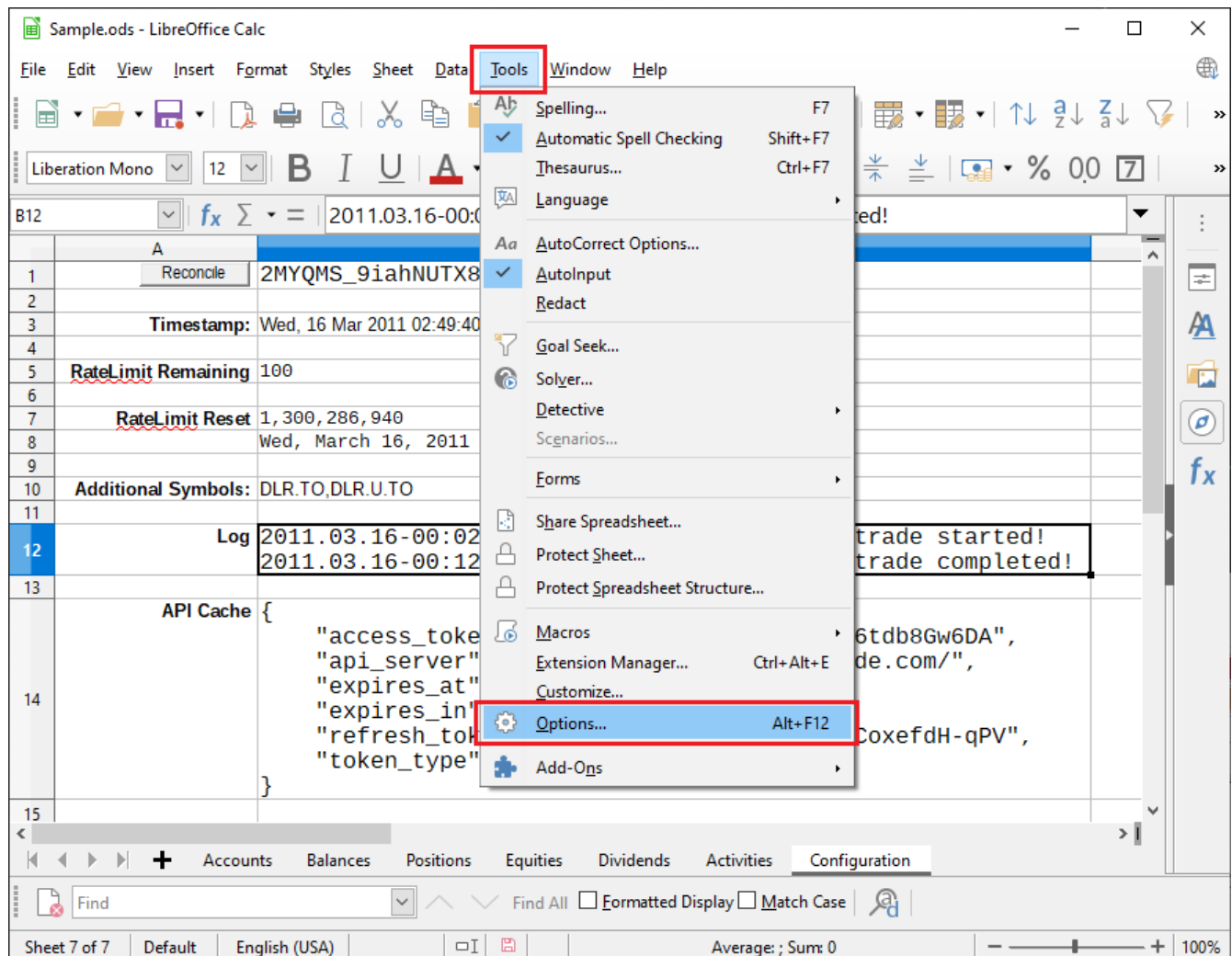


Figure 3: LibreOffice Tools Options

Set security to **Medium** to require confirmation before the QuesttradeReconcile python macro will run.

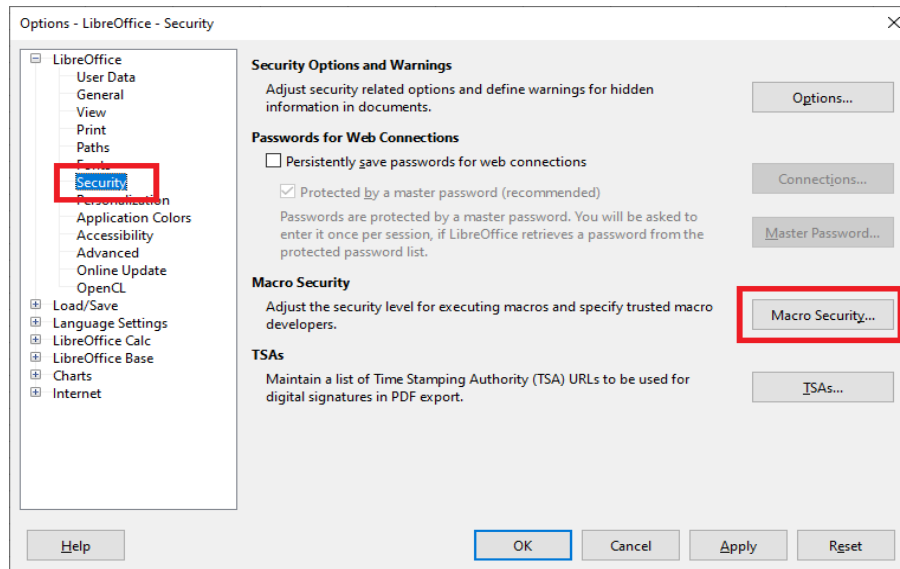


Figure 4: LibreOffice Macro Security

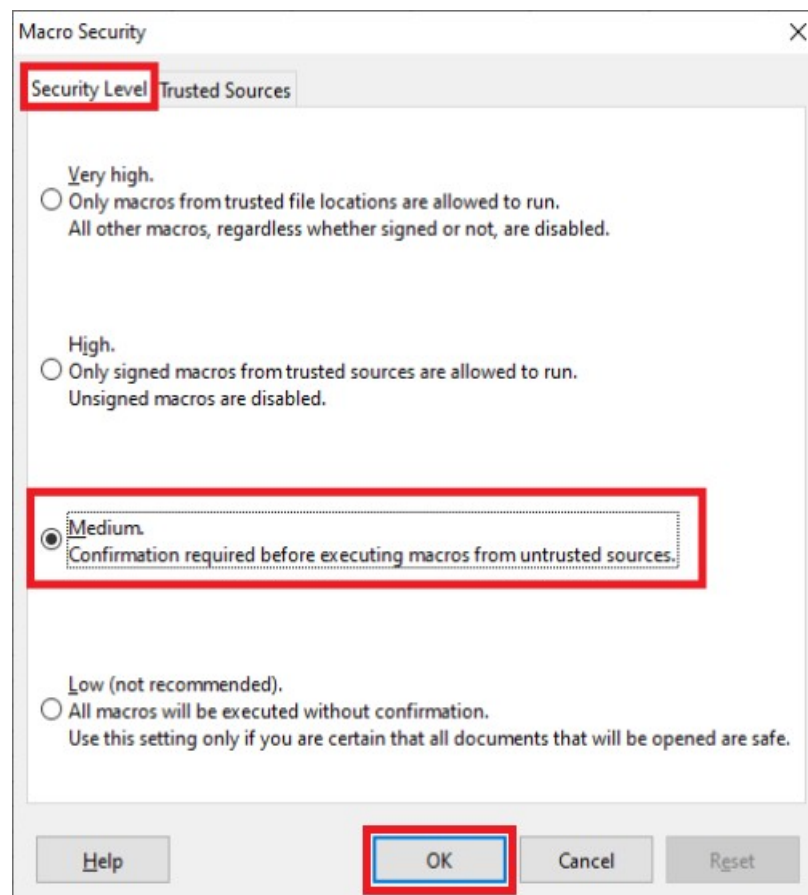
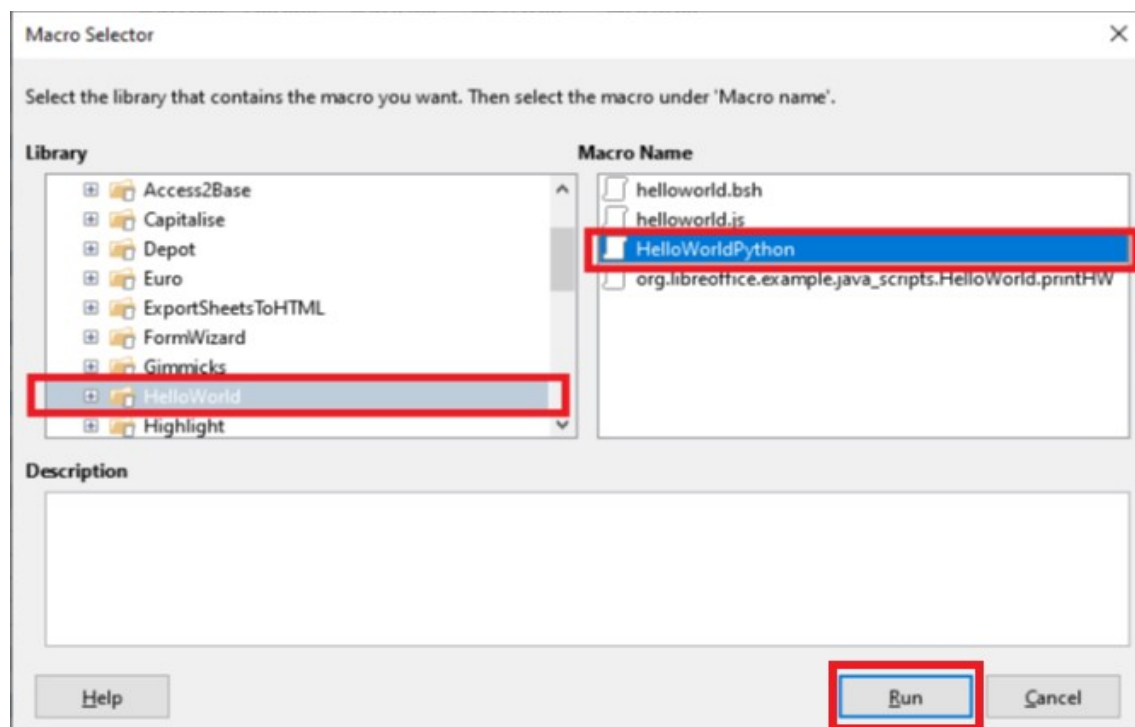


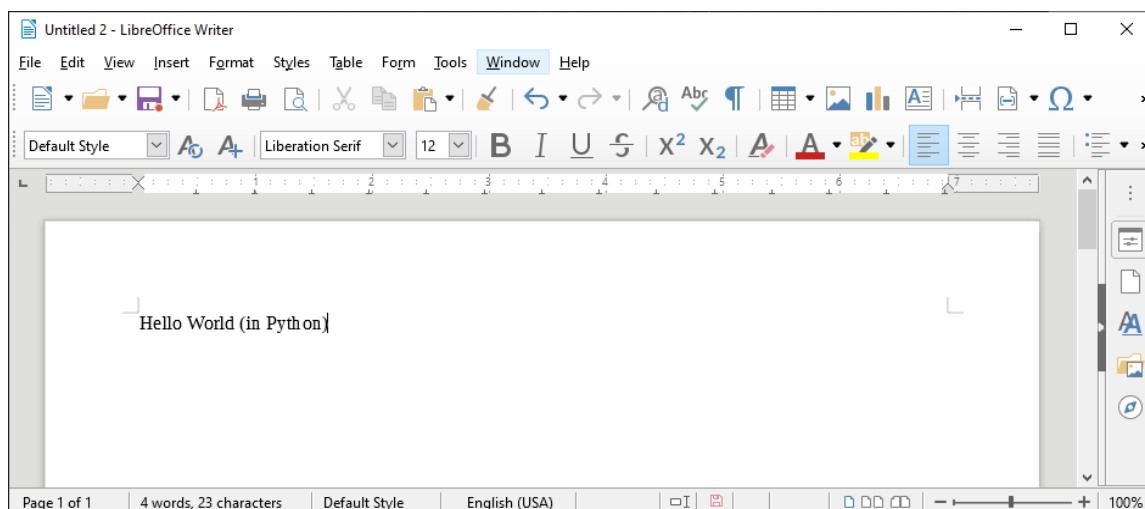
Figure 5: LibreOffice Medium Security Level

When security settings have been updated then proceed to verify that python macros are enabled by choosing the **[Tools → Macros → Run Macro]** menu option from within LibreOffice Calc, then run **HelloWorldPython** from the **HelloWorld** Library.



*Figure 6: LibreOffice Run HelloWorldPython*

The **HelloWorldPython** macro will open a LibreOffice Writer document showing “Hello World (in Python)” when successful.



*Figure 7: LibreOffice HelloWorld (in Python)*

## 2.3 Questrade API Activation

The Questrade platform implements security measures as defined by the OAuth 2.0 protocol. To allow QuestradeReconcile to be authorized by the Questrade platform a refresh token is needed. This token is obtained by registering the QuestradeReconcile application and then by generating a time limited authorization token within the Questrade web portal.

### 2.3.1 Create Questrade Token

First, log into Questrade web portal and navigate to settings from the **[Client Name]** pull-down menu.

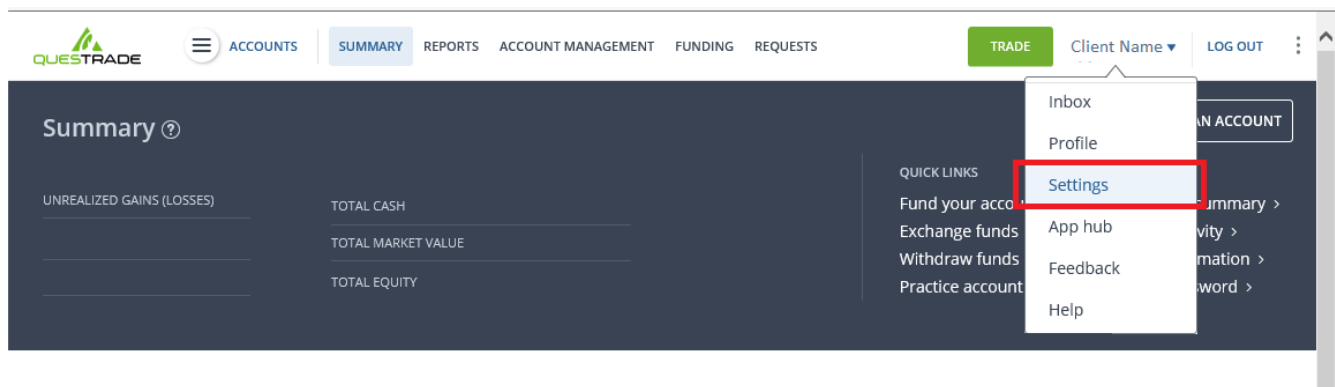


Figure 8: Questrade Launch Settings Menu

Read the Questrade API terms and conditions and agree that you wish to enable authenticated connections from QuestradeReconcile. Rejecting the terms and conditions means the macro will not be permitted to access the Questrade API and the QuestradeReconcile macro will fail.

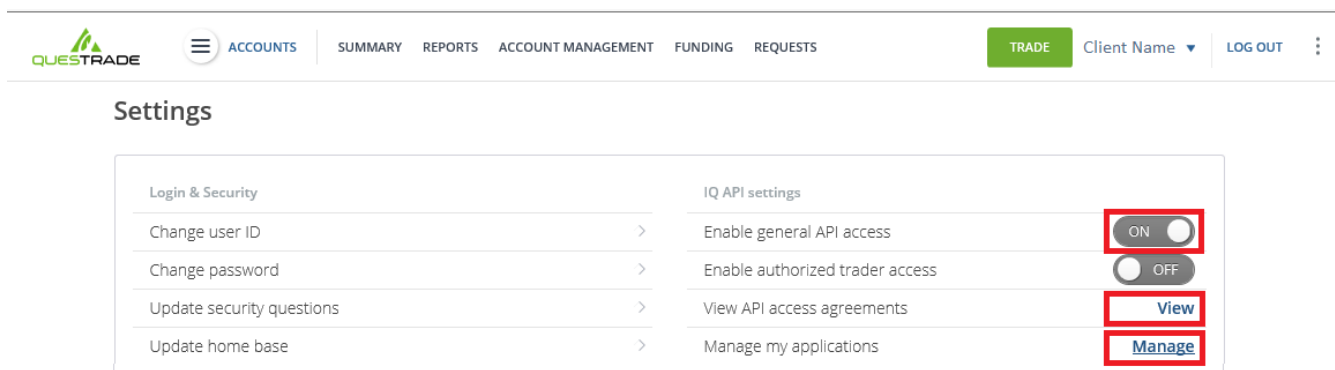


Figure 9: Questrade Settings Dialog

Register QuestradeReconcile as a personal application.

**Edit personal application**

**Basic information**

Name: QuestradeReconcile

Description: The QuestradeReconcile macro is python code that uses the Questrade platform API to fetch account, position, balance, equity, 30 day activity, and dividend data into a LibreOffice spreadsheet file. This script is meant to be run infrequently to help provide a dashboard view when re-balancing a portfolio. It is not meant to track anything in near real time.

**Security settings**

OAuth scopes:

- Retrieve balances, positions, orders and executions ☒
- Retrieve delayed and real-time market data ☒

Call back URLs:

**SAVE** Cancel

Figure 10: QuestradeReconcile Security Dialog

Generate a refresh token. **DON'T CLOSE THE POP-UP WINDOW**. Read the next step before proceeding.

**My apps**

Show personal apps

Search

**REGISTER A PERSONAL APP**

**Personal apps**

QuestradeReconcile

Authorizations

Device	Authorized by	Last time used	Expires on
Manual authorization	Client Name	Jan 1, 1998	Jan 14, 1998

+ New device

Generate new token Delete

Figure 11: Questrade Security Token Dialog

Copy the token from the Questrade pop-up window into the Sample spreadsheet or within your own customized spreadsheet then close the Questrade pop-up window.

The only guaranteed method of copying the token is to select it as a text block in the browser, then copy using the right-click context menu, then paste into the spreadsheet cell. Don't close the pop-up window until you've verified the copied text is identical.

The pop-up window is the only permanent record of the token so closing the window without first copying means the token is lost forever and a new one must be generated.

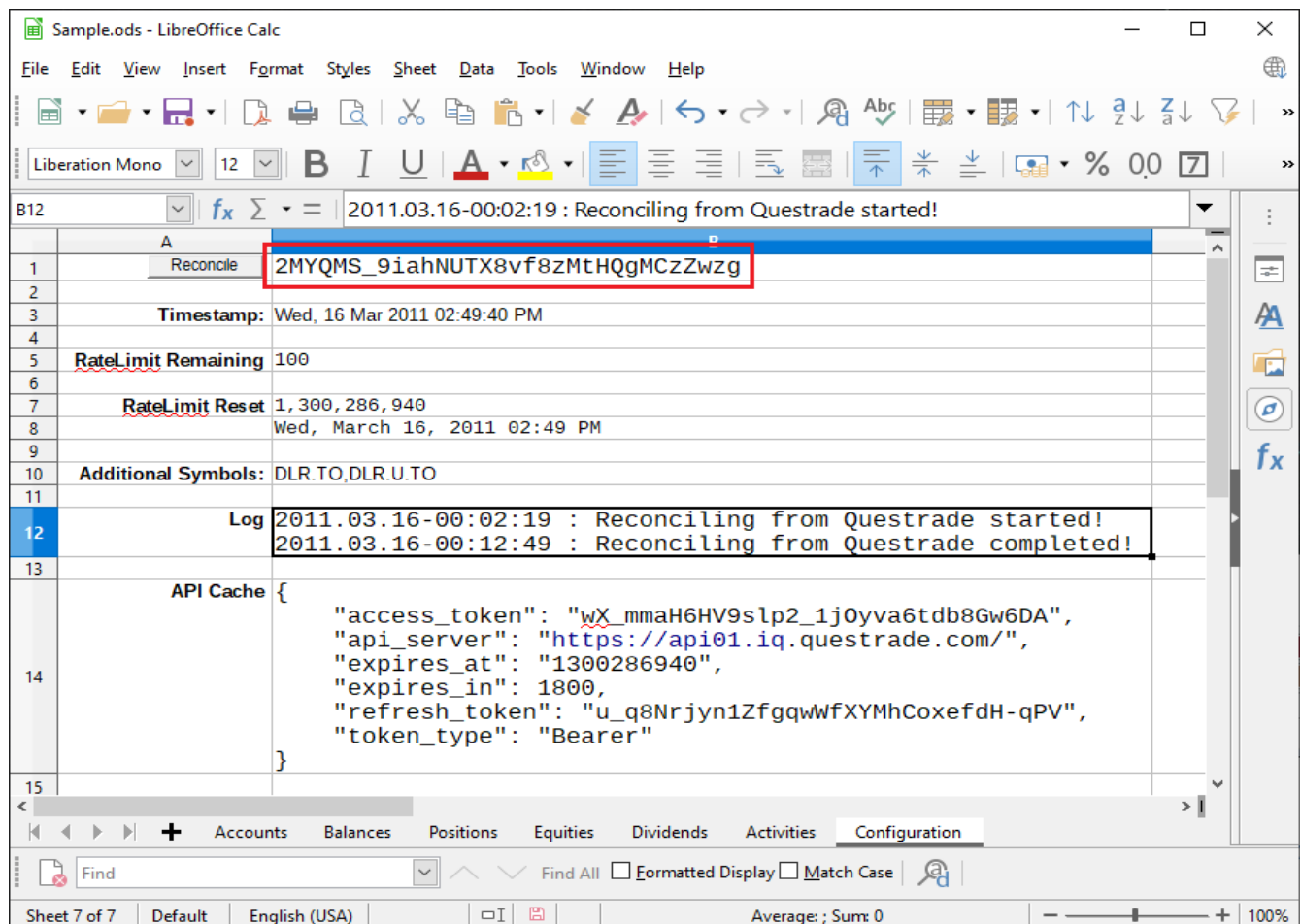


Figure 12: LibreOffice QuestradeReconcile Security Token Configuration

To revoke authorization at any time click Delete within the Questrade Personal apps menu shown above.

## 2.5 Python Questrade Macro Installation

The QuestradeReconcile macro must be installed into the LibreOffice python Scripts directory and the Questrade API wrapper goes into the LibreOffice python site-packages directory.

First download the ZIP file from <https://github.com/kerouac01850/questrade-reconcile>.

Click on **[Clone or Download]** button then select **[Download ZIP]** to download **questrade-reconcile-master.zip** into your download directory.

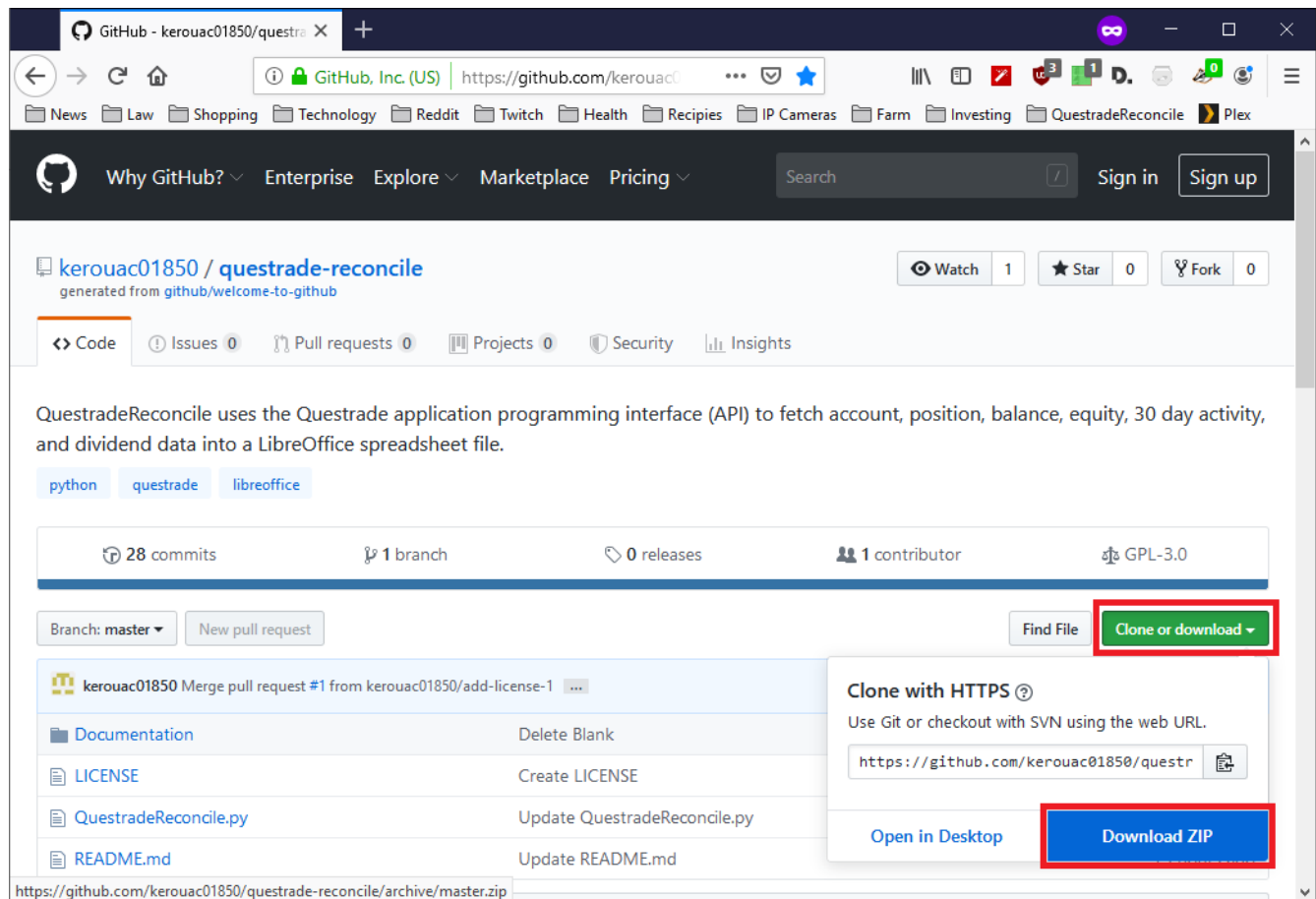


Figure 13: questrade-reconcile-master Download Zip

Next, download the **questrade-api-master.zip** ZIP file from <https://github.com/kerouac01850/questrade-api>.

Click on **[Clone or Download]** button then select **[Download ZIP]** to download **questrade-api-master.zip** into your download directory.

From the download directory select the **questrade-reconcile-master.zip** file and then use the right-click Windows context menu to extract all files from the ZIP archive into the download directory.



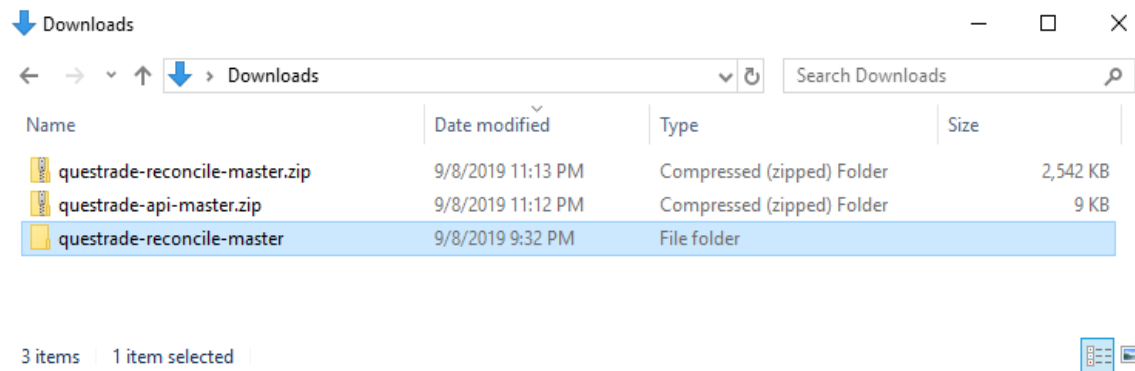


Figure 14: Downloads and Extracted questrade-reconcile-master Folder

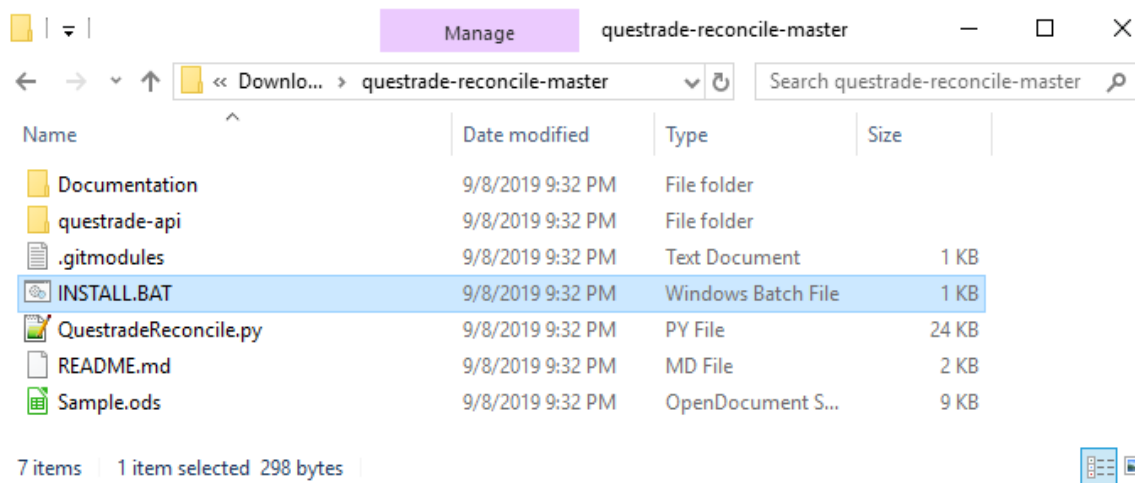
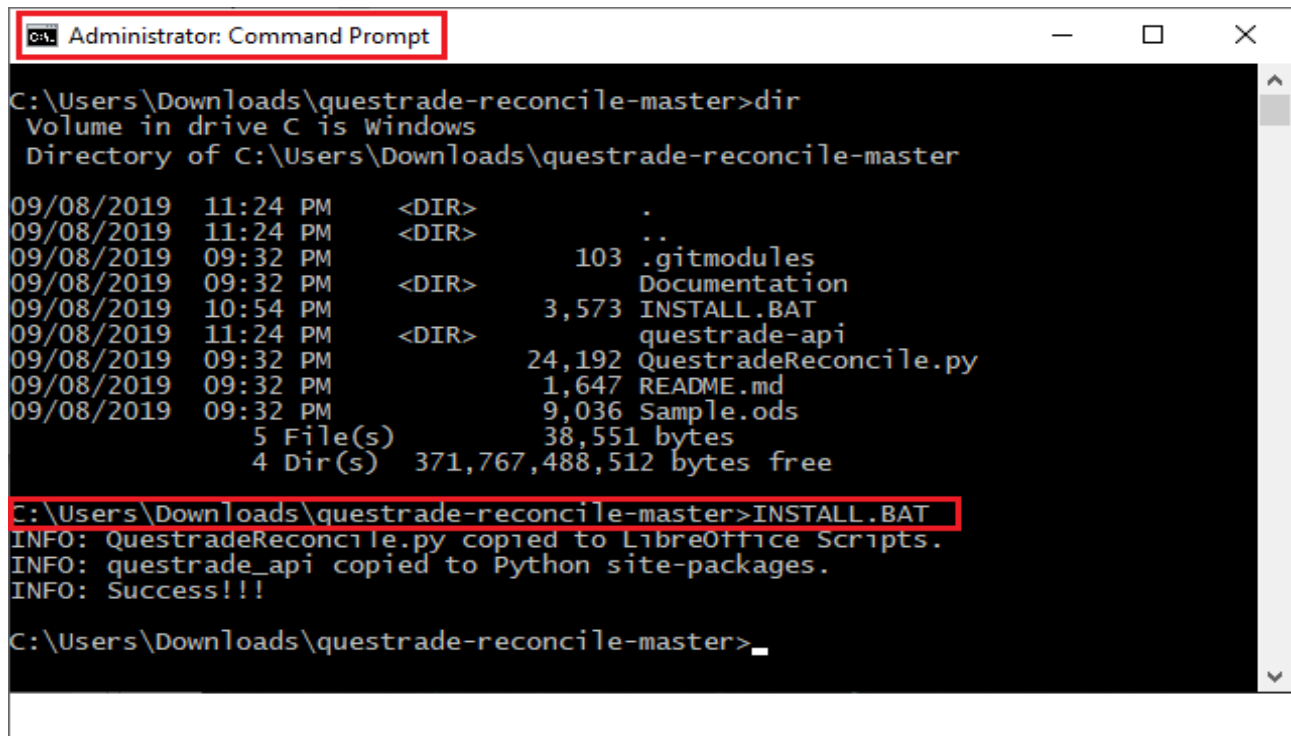


Figure 15: Contents of Extracted questrade-reconcile-master Folder

Open an Administrator command prompt window and navigate to the Downloads directory. Run INSTALL.BAT.



```
Administrator: Command Prompt
C:\Users\Downloads\questrade-reconcile-master>dir
Volume in drive C is Windows
Directory of C:\Users\Downloads\questrade-reconcile-master

09/08/2019  11:24 PM    <DIR>          .
09/08/2019  11:24 PM    <DIR>          ..
09/08/2019  09:32 PM             103 .gitmodules
09/08/2019  09:32 PM    <DIR>          Documentation
09/08/2019  10:54 PM             3,573 INSTALL.BAT
09/08/2019  11:24 PM    <DIR>          questrade-api
09/08/2019  09:32 PM            24,192 QuestradeReconcile.py
09/08/2019  09:32 PM             1,647 README.md
09/08/2019  09:32 PM             9,036 Sample.ods
                    5 File(s)              38,551 bytes
                    4 Dir(s)  371,767,488,512 bytes free

C:\Users\Downloads\questrade-reconcile-master>INSTALL.BAT
INFO: QuestradeReconcile.py copied to LibreOffice Scripts.
INFO: questrade_api copied to Python site-packages.
INFO: Success!!!

C:\Users\Downloads\questrade-reconcile-master>
```

Figure 16: Administrator Window INSTALL.BAT

Installation Done. Proceed to 1.1 Reconcile a Spreadsheet with Questrade.