Rotman School of Management
UNIVERSITY OF TORONTO

RIT User Application and RTD Installation Instructions

The RIT User App and RTD links will be available on all workstations in the FRT-Lab so will be accessible during classes. This guide will show you how to install those resources on your own computer for practice outside the FRT-Lab.   Below, we guide you for:

1.   Installing the RIT User App and the RTD links.

2.   Referencing RIT in VBA

3.   The RTD update (throttle) interval in Excel

1.   **RIT User Application** and **Real-Time-Data (RTD) Links**

Step 1: To install the RIT User App on your computer, go to:

> https://inside.rotman.utoronto.ca/financelab/rit-downloads/

> to download the msi file and install the RIT User App on your computer.

Step 2: Before installing the real-time-date (RTD) link:

Note that when installing a new version of the RTD.API Data Link, it is highly recommended that you uninstall any previous versions.

There are 2 files, 32bit and 64bit, you need to install the file according to your Excel version. Please note that you can have a 32bit Office version even if your OS is 64bit.

Under the Download Instructions – Step 3, click on the correct version of the RTD Links depending on the version of Excel that you have on your computer.

Step 3: To install the RTD.API Data Link on your computer:

Once you click on the link described in Step 1, go to Step 3 to download the appropriate .msi file:

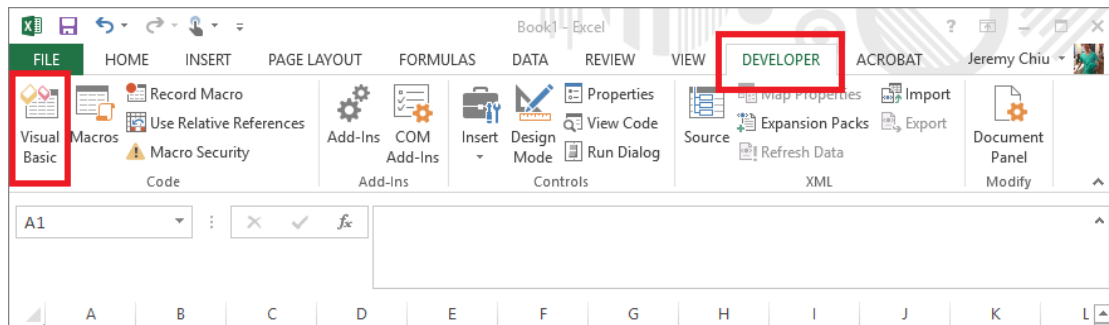> "RIT2.RTD.API.Link.x64" for the 64-bit version of the RTD links

or

> "RIT2.RTD.API.Link"   for the 32-bit version of the RTD links

Double click on it, select "Run" and follow the installation instructions.
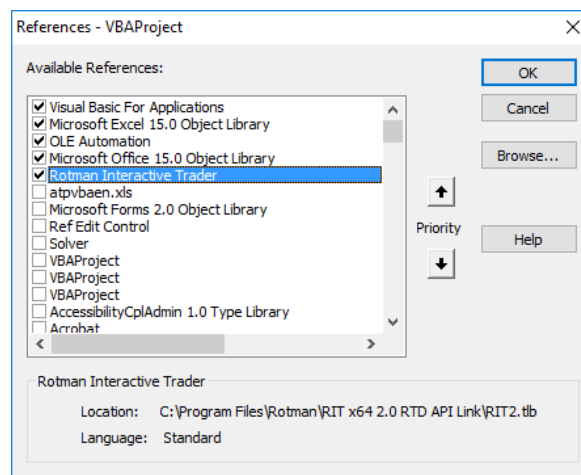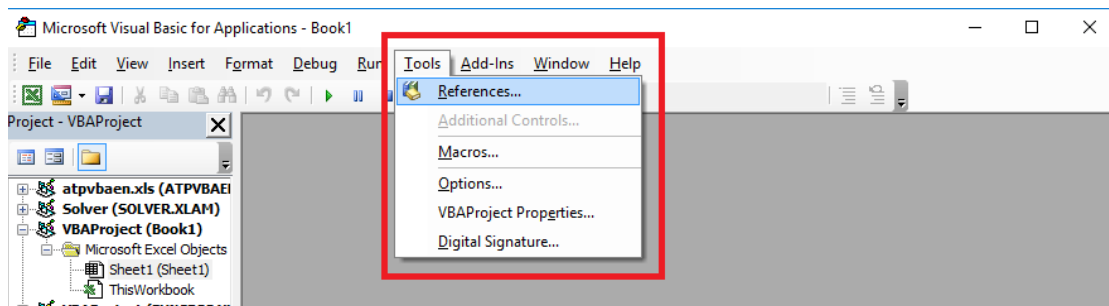
2. Referencing RIT in VBA

Step 1

After installing the new Excel RTD.API Links, open Excel and navigate to the **Developer** tab and open the **Visual Basic Editor**.

Step 2

On the toolbar, choose **Tools > References** and ensure that **Rotman Interactive Trader** is checked off or add it by browsing to **C:\Program Files\Rotman** or **C:\Program Files (x86)\Rotman** as needed.

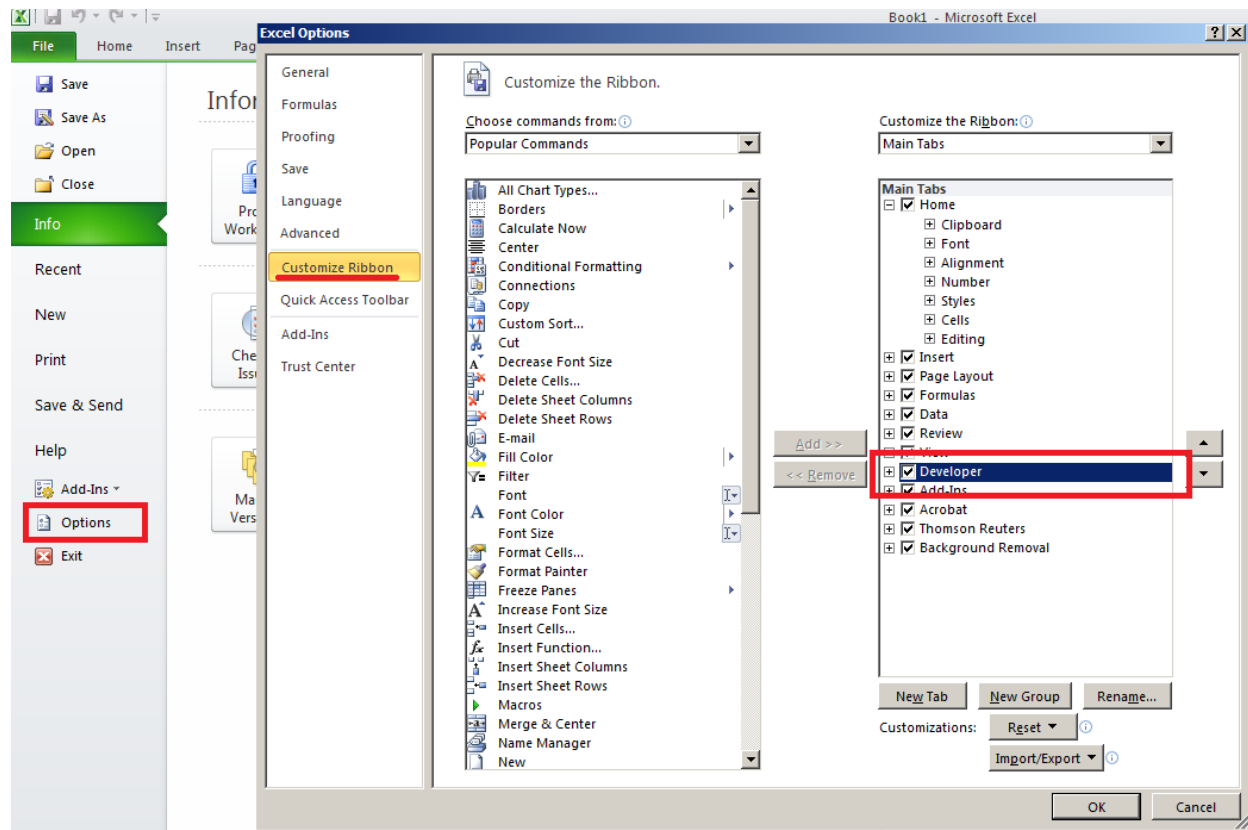### 3. The RTD update (throttle) interval in Excel

Once you install the RTD Links as instructed above, you may need to set up the RTD Throttle Interval which is the refresh rate of how often the RTD links are updated in your Excel. For example, if the interval is set to 1000, it means that the RTD links are updated every 1000 milliseconds (which is one second). By default, most Excel versions have it set at 2000 and we recommend setting it at 1000 for convenience and easy coding.

Please note that your instructor may have a separate recommendation for the value depending on the type of class, and also note that making it too low (closer or equal to zero) may result in your system crash or failure as Excel will continuously update values and run calculations.

In order to set the RTD Throttle Interval, you'll need to follow the instructions below.

Step 1

Open your Excel and click Developer – Visual Basic. If you do not have the Developer tab available in your Excel, first ensure that it is turned on by clicking on "File" on the top-left corner of the screen, then click on "Options". Once the "Excel Options" window is opened, choose "Customize Ribbon" on the left menu bar, and ensure that "Developer" on the right side is checked. Once this is checked, the Developer Tab will appear in the original list of Excel tabs as shown below.

You can access the VBA editor by clicking on the "Visual Basic" icon within the Developer tab.

Hint: You can access this at any time with the shortcut Alt+F11

<u>Step 2</u>

As shown in the screenshot below, click (1) View and choose (2) Immediate Window. You'll see a blank window displayed at the bottom.

In this window, you can type the following command (3) in order to query the current RTD refresh rate. As mentioned earlier, this value is usually set to 2000 by Microsoft.
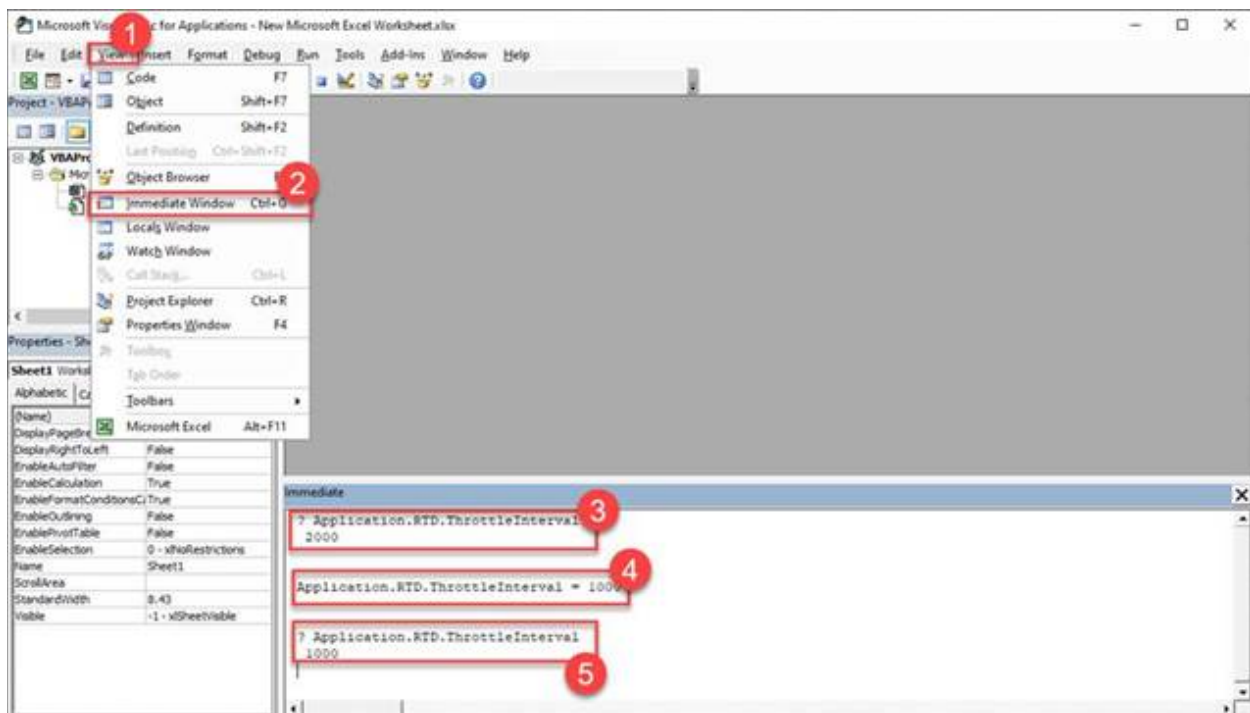
        ? Application.RTD.ThrottleInterval

Once you hit enter, you'll see that the value is displayed below the command.

In order to change this value, simply type in the following command (4). In this case, we're setting the value to 1000 (millisecond) which corresponds to one second.

        Application.RTD.ThrottleInterval = 1000

You may query the (3) command again to check this as shown in the screenshot below (5).

You are now ready to use the Rotman Interactive Trader and link real-time data in Excel!