# TI-Innovator™ Sketch Update Detailed Directions

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#### **Overview**

The sketch is the software on the TI-Innovator<sup>™</sup> Hub that communicates with the graphing calculator, processes the commands and controls external components. Keeping your sketch up to date ensures that you have the latest capabilities and support for your TI-Innovator<sup>™</sup> Hub.

There are two primary steps to go through in updating the TI-Innovator<sup>™</sup> Hub. If you already know that the TI-Innovator<sup>™</sup> Hub needs updating and how to connect it to the computer, you can jump to Part B.

## Part A:

Get the TI-Innovator™ Hub ready to update

Step 1: Check version number of TI-Innovator™ Hub

Step 2: Connect your TI-Innovator Hub™ to your computer

#### What you need:

USB Unit-to-Unit (Mini-A to Mini-B) cable

# Part B:

Install Tools and Update the TI-Innovator™ Hub

Step 1: Install browser extension

Step 2: Install TI Cloud Agent application

Step 3: <u>Update sketch</u>

#### What you need:

- USB Standard A to Micro cable

 Internet-connected Windows<sup>®</sup> or Mac<sup>®</sup> computer meeting the <u>system</u> <u>requirements</u> for updating the sketch.



# Part A: Get the TI-Innovator™ Hub ready to update

#### Step 1: Check version number of TI-Innovator™ Hub

Connect graphing calculator to the DATA USB port of the TI-Innovator™ Hub.

A. Identify the "B" connector on the USB Unit-to-Unit (Mini-A to Mini-B) cable. Each end of this cable is embossed with a letter



B. Insert the Mini-B connector into the PWR port at the bottom of the TI-Innovator™ Hub



C. Insert the free end of the cable (the "A" connector) into the USB port on the graphing calculator



D. Run program to query the version number of the sketch from the TI-Innovator™ Hub

#### **TI-Nspire™ CX Program:**

Create a program to query the sketch version. See <u>Appendix A</u> for details on how to create program or download the HubVersion.tns file that has the program pre-created to run from your TI-Nspire<sup>™</sup> CX technology

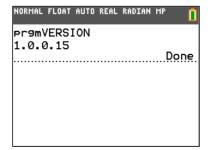
Execute the Program to view version number



#### TI-84 Plus CE Program:

Create a program to query the sketch version. See <u>Appendix B</u> for details on how to create program or download the VERSION.8xp file that has the program pre-created to run from your TI-84 Plus CE graphing calculator

Execute the Program to view version number

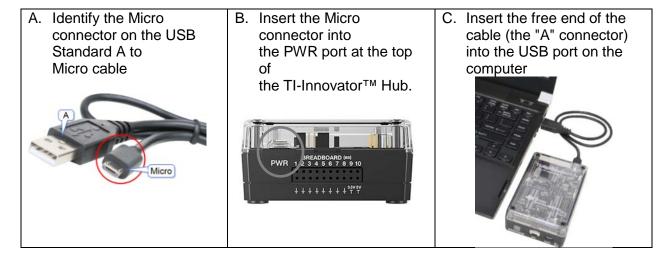




# Part A: Get the TI-Innovator™ Hub ready to update

## Step 2: Connect your Tl-Innovator™ Hub

Connect your computer to the Power (PWR) port on your TI-Innovator™ Hub using the micro-USB cable



Two green LEDs on the TI-Innovator<sup>™</sup> Hub show that the TI-Innovator<sup>™</sup> Hub is receiving power and is connected to the correct USB port for updating the sketch

You are now ready for Part B.



# Part B: Install Tools and Update the Tl-Innovator™ Hub

#### Step 1: Install browser extension

Installing the browser extension steps will vary slightly based on the web browser you are using.

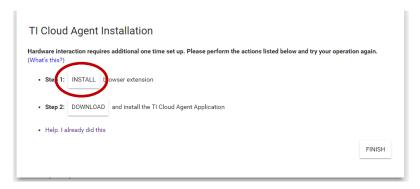
A. From sketch update page select the button to Download Sketch.

Download Sketch

The TI Cloud Agent Installation window will open.

Note: Steps 1 and 2 are only required the first time you update your TI-Innovator™ Sketch. If these steps have been previously completed on your computer when you select the "Download Sketch" button you will be jumped directly to <a href="Step 3: Update">Step 3: Update</a> Sketch.

**B.** Select to install the browser extension by selecting the "Install" button



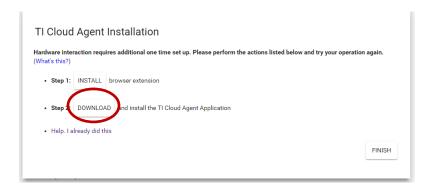
Follow the prompts for installing the browser extension. The installation of the browser extension will differ by type of browser. For specific direction by browser type, see <a href="Appendix C">Appendix C</a>.



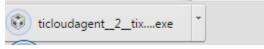
# Part B: Install Tools and Update the Tl-Innovator™ Hub

## Step 2: Install TI Cloud Agent

A. Select to download the TI Cloud Agent application by selecting the "Download" button.



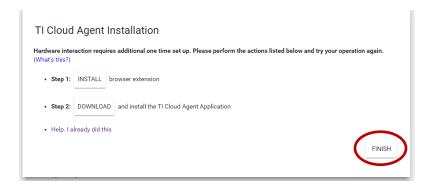
B. The .exe file will download. Select to run the ticloudagent\_2\_tixds110.exe



**C.** The installer dialog will open. Follow prompts to install on the computer.



**D.** After installer is complete, return to the web page. Select Finish.





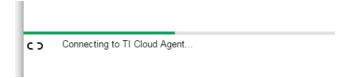
# Part B: Install Tools and Update the Tl-Innovator™ Hub

## Step 3: Update TI-Innovator™ sketch

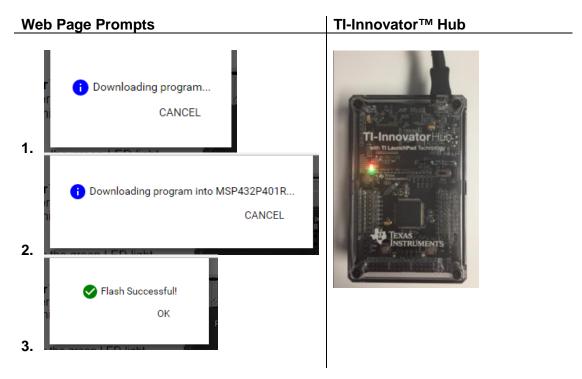
**A.** From the sketch update page select the button to Download Sketch.

Download Sketch

**B.** During the sketch update, the web page will first connect to the TI Cloud Agent. This status is shown at the bottom of the web page.



**C.** The status of the update is reflected in several dialogs. In addition, the TI-Innovator<sup>™</sup> Hub has a red LED that blinks to indicate that the sketch software is being received.



Once you see the "Flash Successful!" dialog, you are done!



# **Troubleshooting**

#### Why do I get an error when I try to update the TI-Innovator™ Sketch?

- For sketch updating, make sure you are using the USB Standard A to Micro cable, not the USB Standard A to Mini-B cable. Connect the micro end of the cable to the PWR connector at the top of the Hub.
- Make sure you are using one of the Web browsers required for updating.

#### My TI-Innovator™ Hub is showing it gets power but will not talk to the update tool.

- This could be a cable issue. Some USB cables are only for power, not for data. Make sure you use the cable that comes with the TI-Innovator™ Hub.
- Make sure you are using the micro-USB port (marked PWR) on the TI-Innovator™ Hub.

#### Do I need admin privileges on my computer to upgrade the sketch?

Yes. The initial use of the process to upgrade the sketch requires installation of hardwarespecific drivers on your computer. This step requires admin privileges on the computer. Subsequent use of the upgrade mechanism does not require admin privileges.

#### Do we require an extension to be installed?

Yes. The process installs a browser extension called the TI Cloud Agent Bridge. The extension is needed to enable the browser to communicate with the main application.

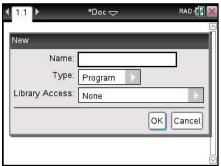


# **Appendices**

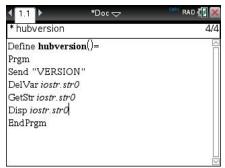
# Appendix A – Check TI-Innovator™ Sketch version using TI-Nspire™ Technology

- 1. Open a New Document
- 2. Add a Calculator app
- In the Calculator app, start a new program by selecting: menu > Functions & Programs > Program Editor> New...
- 4. In the Name: field, type the name of your program, hubversion, and select enter.

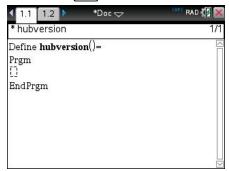
  (Note: Leave the Type as Program and the Library Access as None.)



- 5. Enter the Send Version command
  - a. Press down arrow to move cursor to the line below Prgm
  - b. Press menu > Hub > Manage
  - c. Select **Send** "**VERSION**" to paste into the program the commands to query the version of the TI-Innovator™ Sketch



- 6. Store the program to memory
  - To store the program select menu >
     Check Syntax & Store> Check
     Syntax & Store
- 7. Run the Program
  - a. Add a Calculator app.
  - b. Press var and select hubversion



c. Press enter



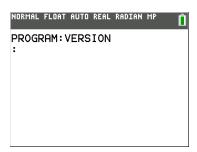


# Appendix B - Check Tl-Innovator™ Sketch version using Tl-84 Plus CE graphing calculator

- 1. Open a new program
  - a. Press prgm
  - b. Use right arrow to select highlight **NEW**
  - c. Press enter



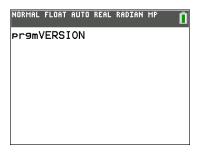
2. Type in program name VERSION and press [enter]



- 3. Enter in command to query the version
  - a. Press prgm
  - b. Use right arrow to select **HUB**
  - c. Scroll down to select **Manage** and pressenter
  - d. Scroll down to selectVERSION"):Get(Stro):Disp and pressenter



- 4. Press 2nd [quit] to close the program editing screen
- 5. Execute Program VERSION
  - a. Press [prgm]
  - b. Select the program VERSION and press enter
  - c. prgmVERSION will be pasted onto the screen.



d. Press enter to execute

NORMAL	FLOAT	AUTO	REAL	RADIAN	MP 📋
Pr9m\		ON			
1.1.0	1.16				Done



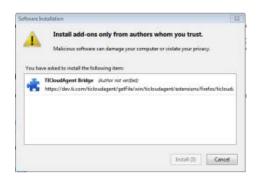
## Appendix C – Installing browser extension: Specific browser directions

The specific steps to install the Browser Extension will vary depending on the browser that is being used. Check the system requirements to ensure you are using a supported browser.

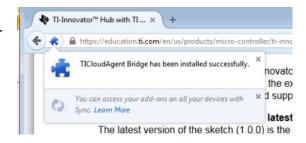
Specific directions for  $\mathsf{Firefox}^{^{^{!\!\!\mathsf{o}}}}$  and  $\mathsf{Chrome}^{^{^{\top\!\!\mathsf{o}}}}$  are below.

#### Firefox®:

A. A dialog box to install the add-on will open. Select to install.

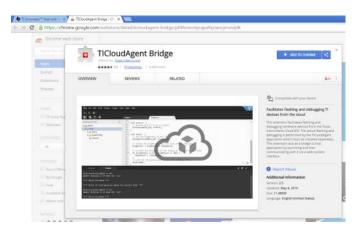


B. Once installation is complete, a pop-up in the upper left-hand corner will appear

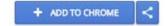


#### Chrome<sup>™</sup>:

A. A new tab will open in the web browser showing the TICloudAgent Bridge

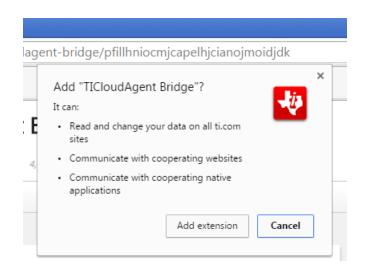


B. Select the "+ Add to Chrome" button





C. A pop-up dialog will appear. Select to "Add extension"



D. Button in upper right-hand corner will indicate that the extension has been added to Chrome<sup>™</sup>. Continue the process by going back to the other tab "TI-Innovator™ Hub".

