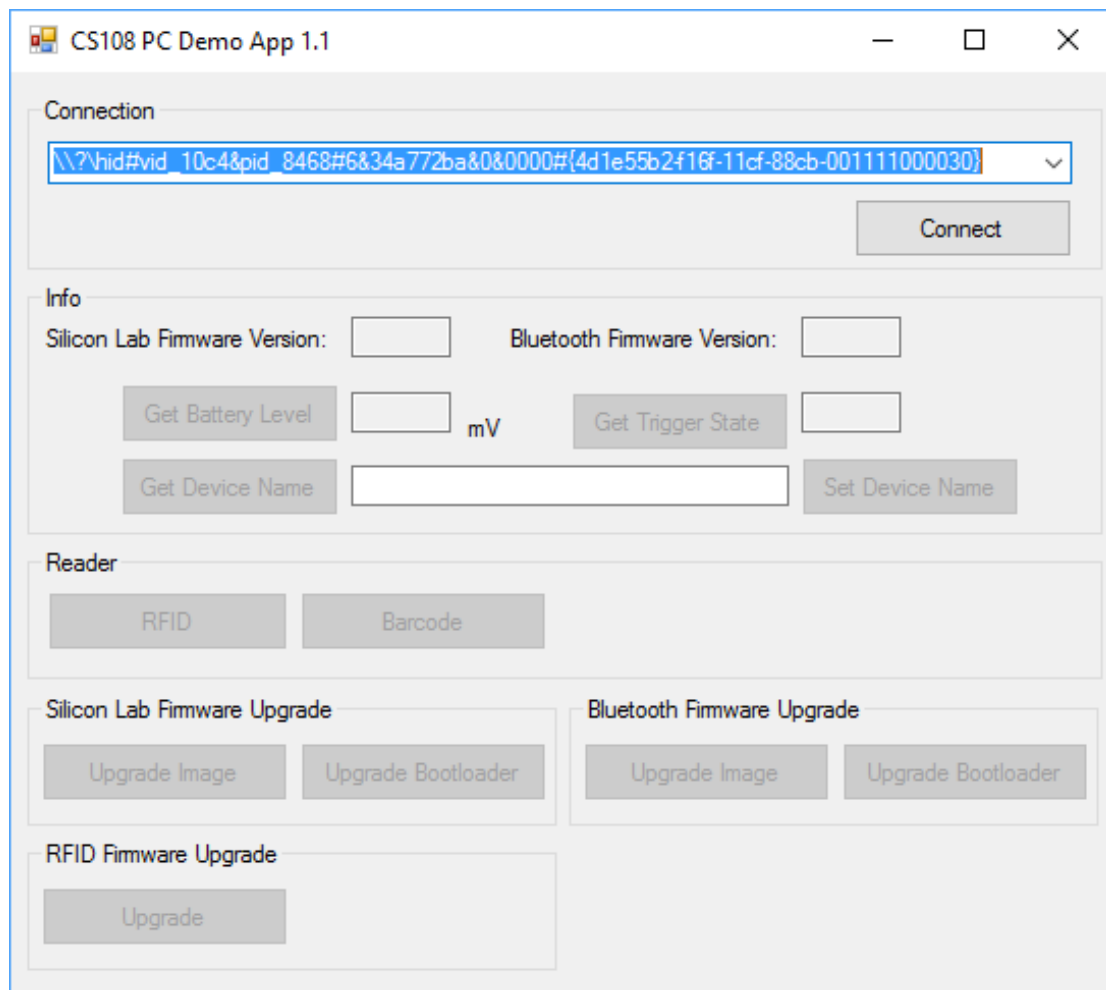


# CS108 Upgrade Manual V1.1

1. Charge up battery of CS108 to at least 90%
2. Connect USB cable from CS108 to PC
3. Run CS108 USB PC Demo App (CS108 PC Demo App.exe) You should see a device connectable.]



4. Press the "Connect" button to connect:

The greyed out buttons now appear black and active:

The screenshot shows the 'CS108 PC Demo App 1.1' window. The 'Connection' section has a dropdown menu showing a device ID and a 'Disconnect' button. The 'Info' section displays 'Silicon Lab Firmware Version: 1.0.7' and 'Bluetooth Firmware Version: 1.0.4'. Below this, the 'Get Battery Level' button is active, followed by a text field showing 'mV'. The 'Get Trigger State' button is also active, followed by a text field. The 'Get Device Name' and 'Set Device Name' buttons are active. The 'Reader' section has 'RFID' and 'Barcode' buttons. The 'Silicon Lab Firmware Upgrade' section has 'Upgrade Image' and 'Upgrade Bootloader' buttons. The 'Bluetooth Firmware Upgrade' section has 'Upgrade Image' and 'Upgrade Bootloader' buttons. The 'RFID Firmware Upgrade' section has an 'Upgrade' button.

CS108 PC Demo App 1.1

Connection

\\?\\hid#vid\_10c4&pid\_8468#6&34a772ba&0&0000#{4d1e55b2f16f-11cf-88cb-001111000030}

Disconnect

Info

Silicon Lab Firmware Version: 1.0.7 Bluetooth Firmware Version: 1.0.4

Get Battery Level mV Get Trigger State

Get Device Name Set Device Name

Reader

RFID Barcode

Silicon Lab Firmware Upgrade

Upgrade Image Upgrade Bootloader

Bluetooth Firmware Upgrade

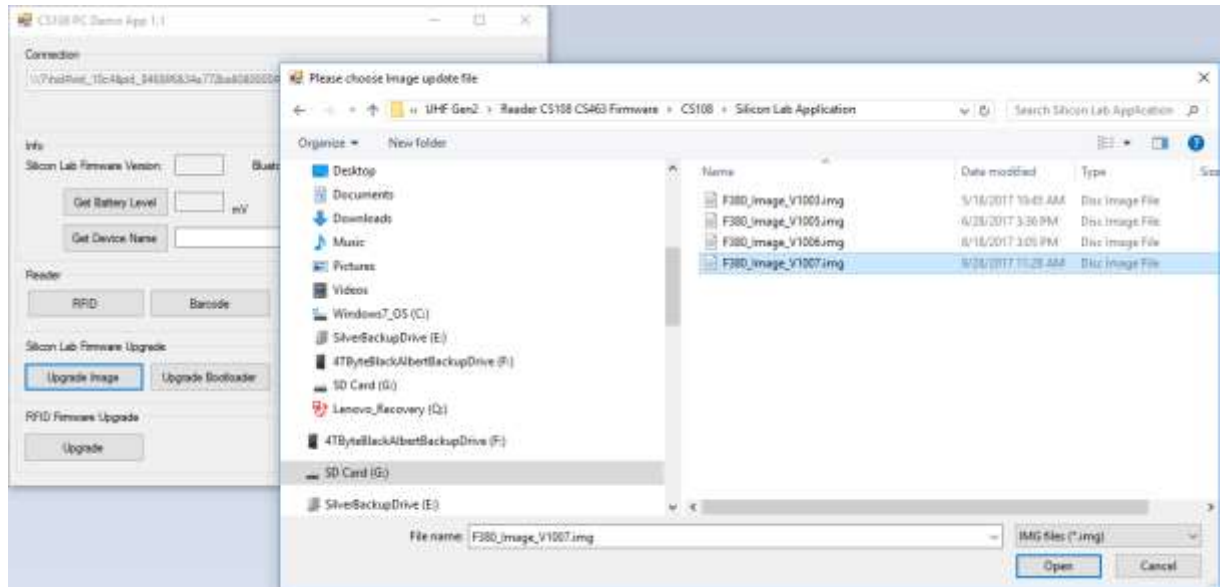
Upgrade Image Upgrade Bootloader

RFID Firmware Upgrade

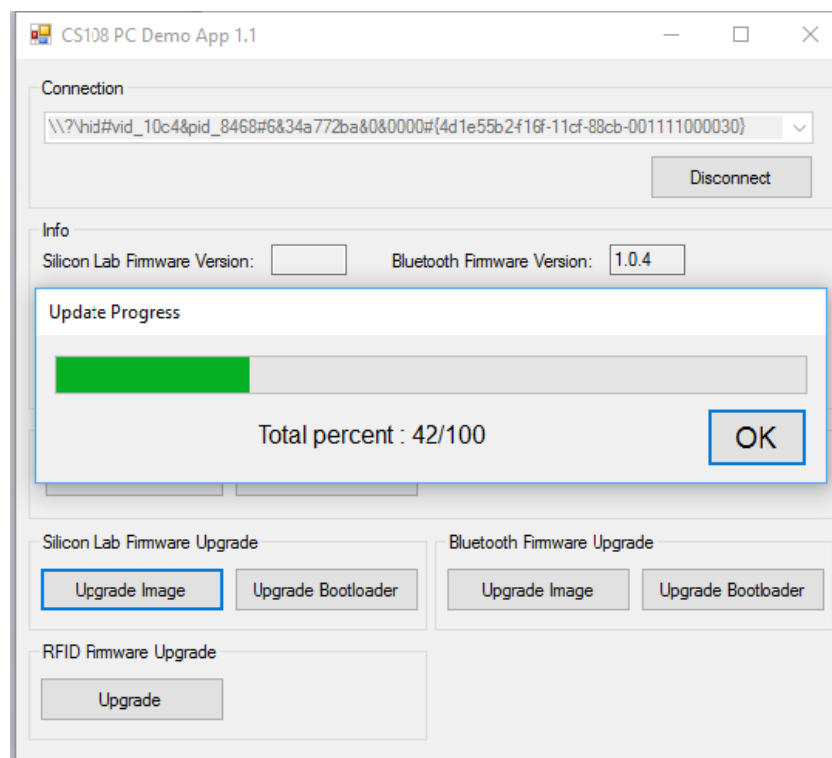
Upgrade

5. For **Silicon Lab firmware upgrade**, press the “Upgrade Image” button in the Silicon Lab Firmware Upgrade box.

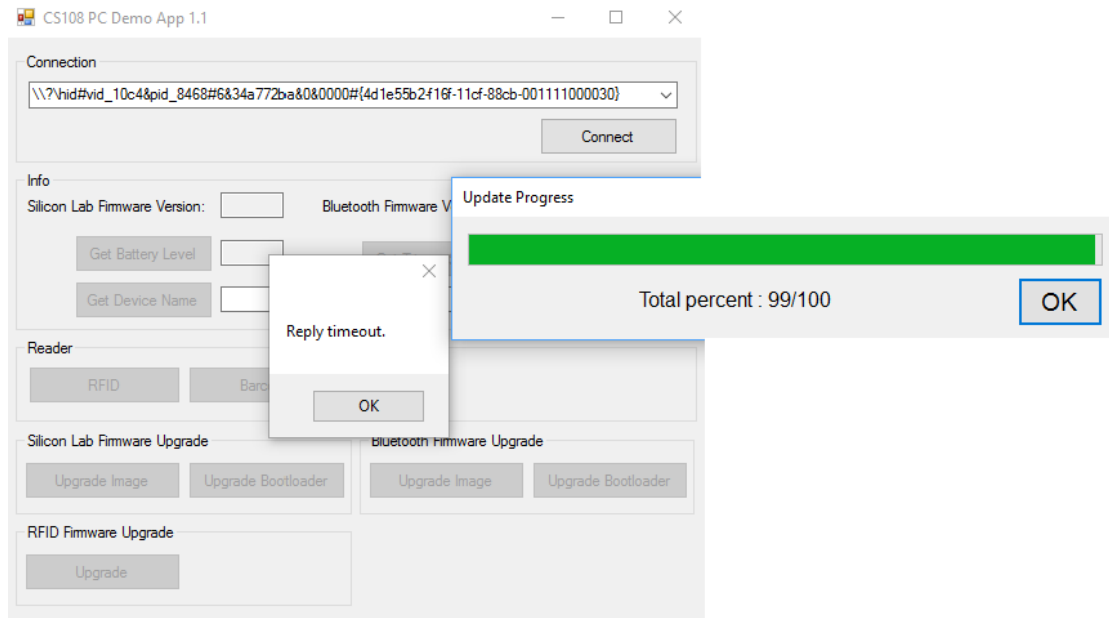
A file opening window will pop out. Select the Silicon Lab image file with a **.img extension** to upgrade and press the “Open” button:



A progress bar will appear:



At the end, a small “Reply timeout” window will pop up. Do not be alarmed. Just press the “OK” button on that small pop up window, then press the “OK” button on the Update Progress window:



After that, the window would show the reader not connected but the device ID again appears available in the Connection box:

CS108 PC Demo App 1.1

Connection

\\?hid#vid\_10c4&pid\_8468#6&34a772ba&0&0000#{4d1e55b2f16f-11cf-88cb-001111000030}

Connect

Info

Silicon Lab Firmware Version:  Bluetooth Firmware Version:

Get Battery Level  mV Get Trigger State

Get Device Name  Set Device Name

Reader

RFID Barcode

Silicon Lab Firmware Upgrade

Upgrade Image Upgrade Bootloader

Bluetooth Firmware Upgrade

Upgrade Image Upgrade Bootloader

RFID Firmware Upgrade

Upgrade

At this point, press the “Connect” button again to connect to the reader:

CS108 PC Demo App 1.1

Connection

\\?hid#vid\_10c4&pid\_8468#6&34a772ba&0&0000#{4d1e55b2f16f-11cf-88cb-001111000030}

Disconnect

Info

Silicon Lab Firmware Version:  Bluetooth Firmware Version:

Get Battery Level  mV Get Trigger State

Get Device Name  Set Device Name

Reader

RFID Barcode

Silicon Lab Firmware Upgrade

Upgrade Image Upgrade Bootloader

Bluetooth Firmware Upgrade

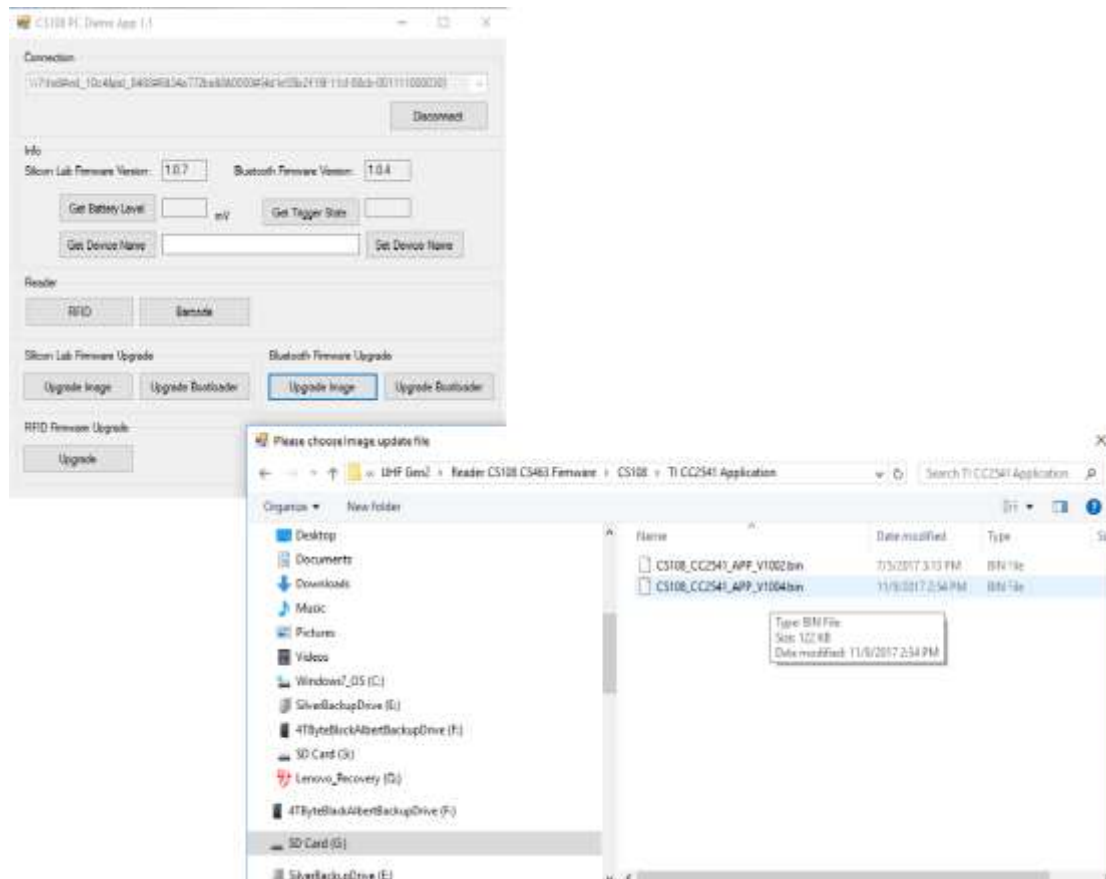
Upgrade Image Upgrade Bootloader

RFID Firmware Upgrade

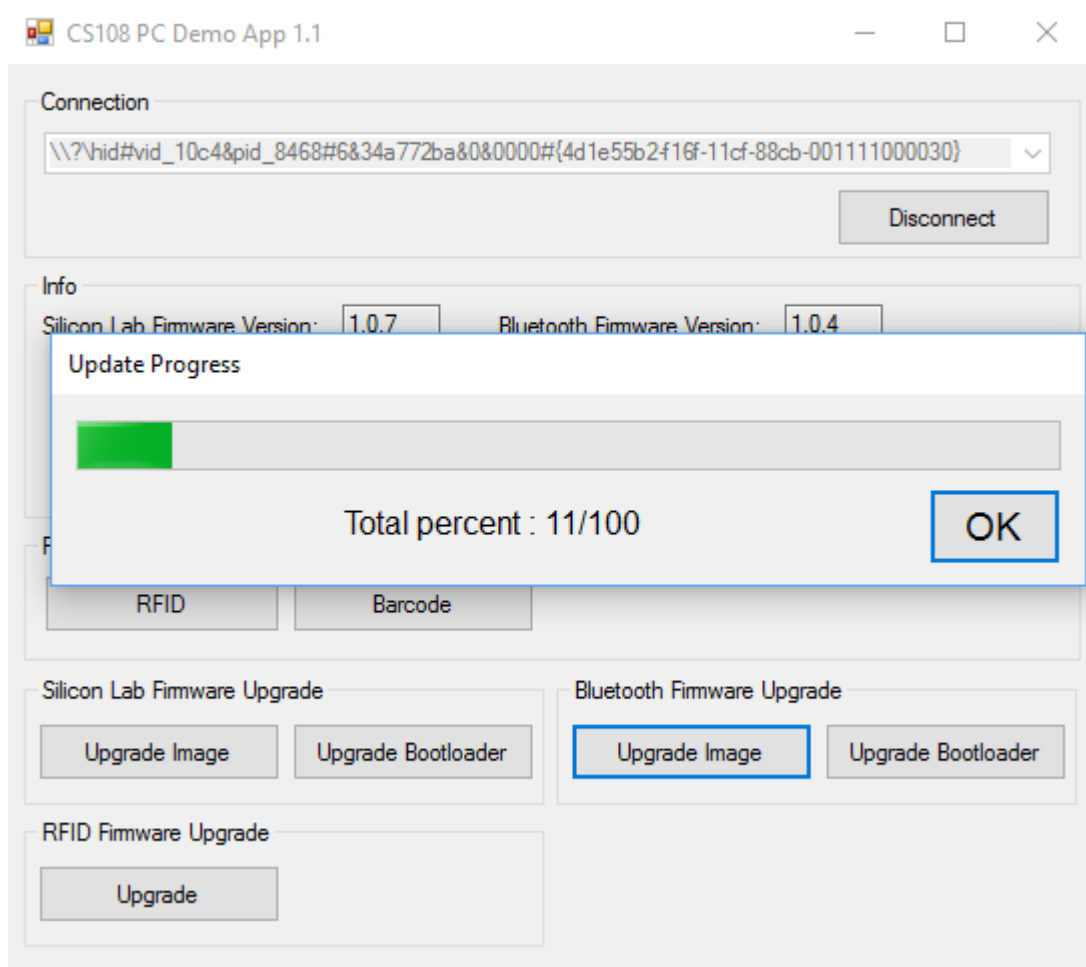
Upgrade



6. To **upgrade Bluetooth firmware**, press the “Upgrade Image” button in the Bluetooth Firmware Upgrade box. A file open window will pop up. Select the appropriate Bluetooth firmware App with a **.bin extension** and press the “Open” button:

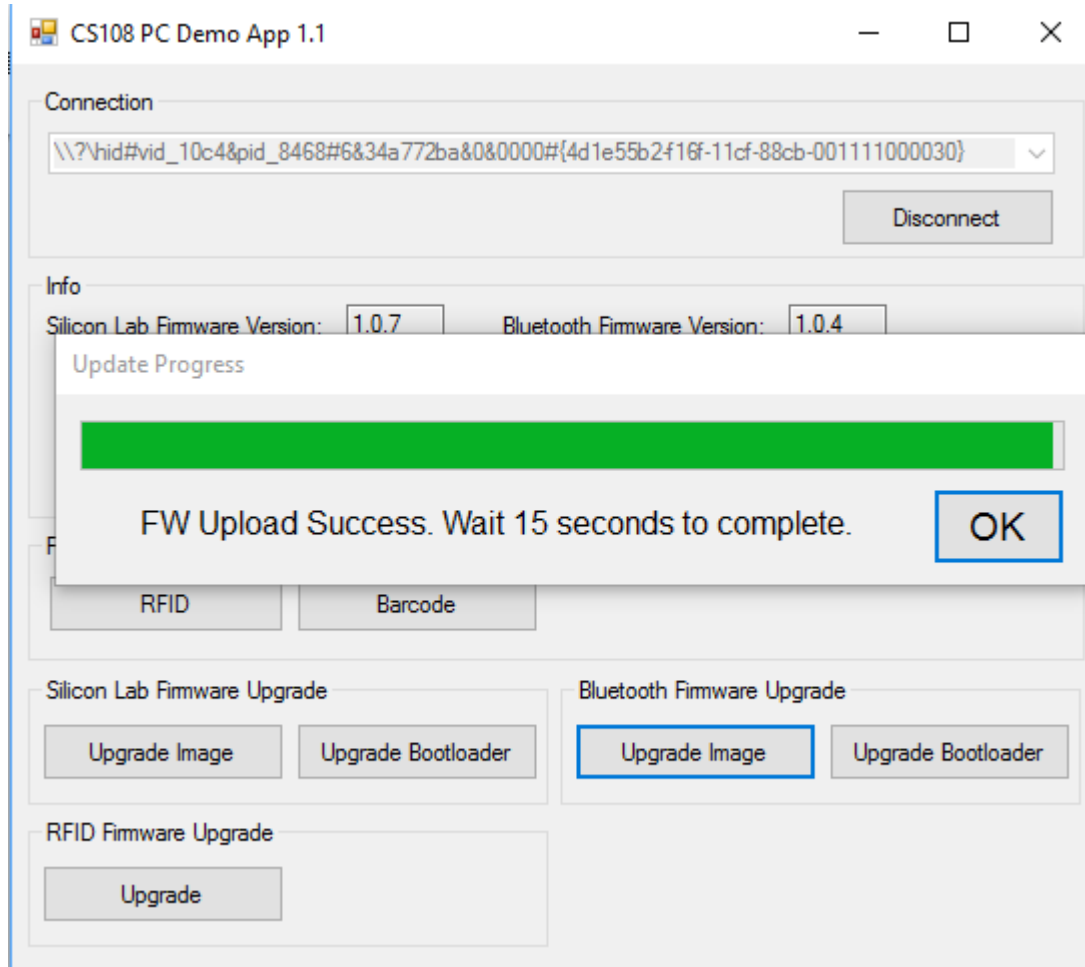


You will then see a progress bar popping up:



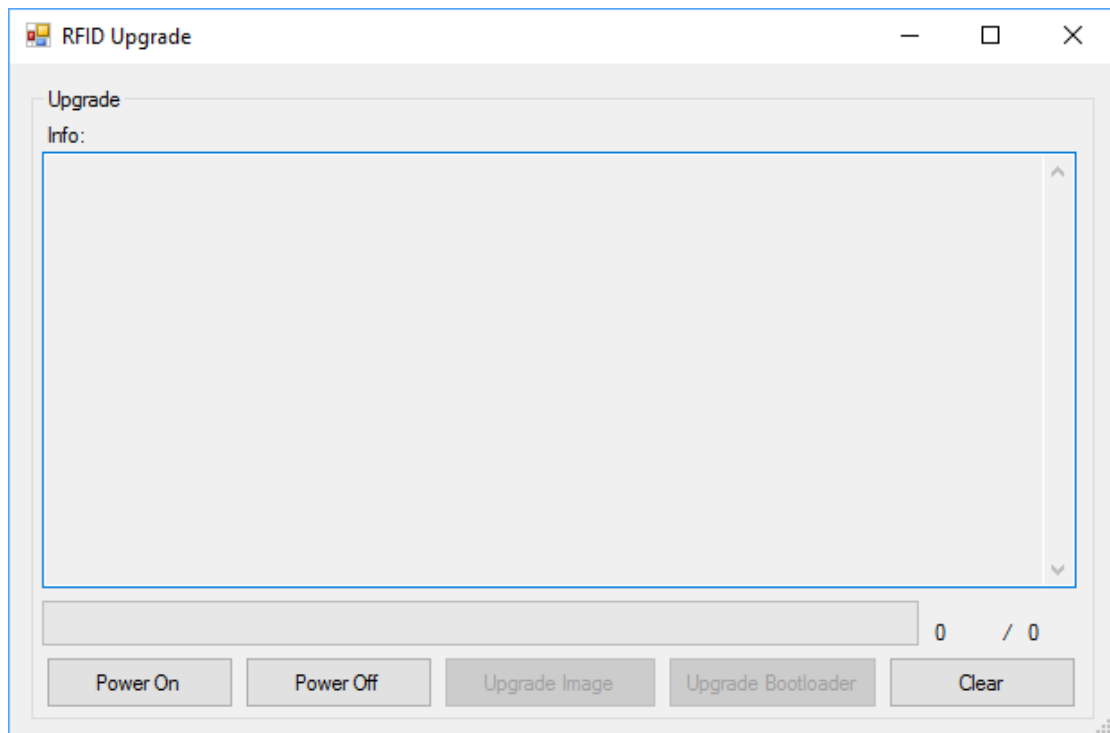
At the end, a window will pop up asking you to wait 15 seconds. Please wait 15 seconds and press the "OK" button:



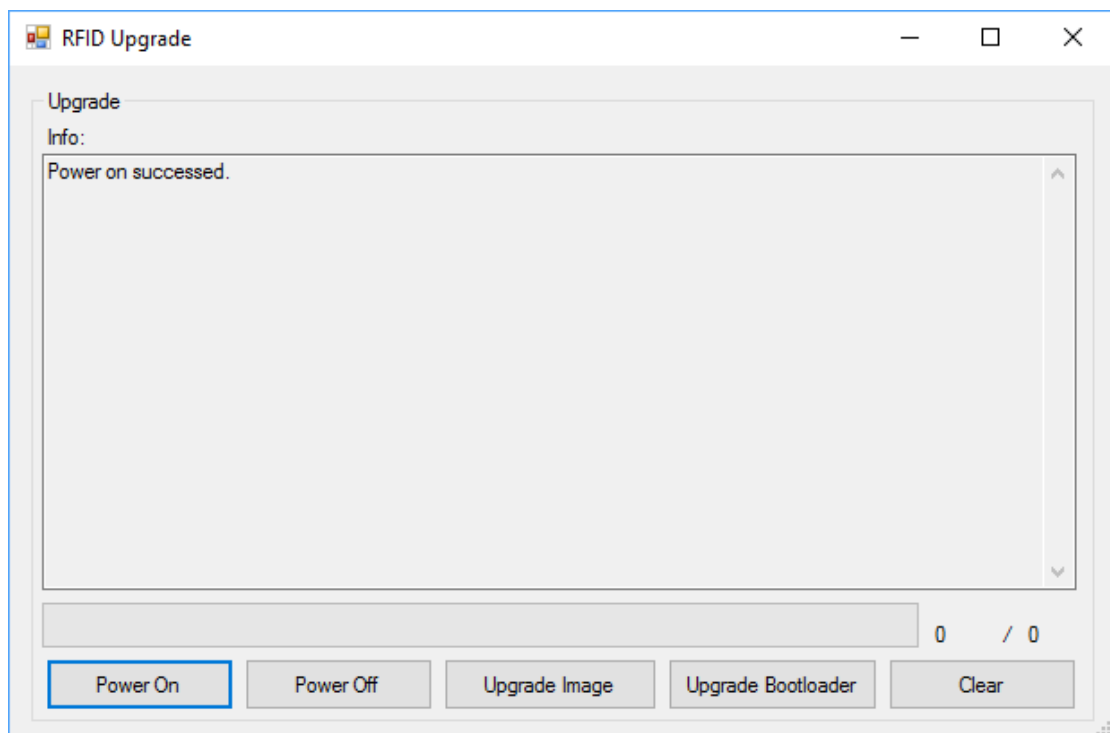


After that, the Bluetooth firmware upgrade is completed. This time, the reader is still connected.

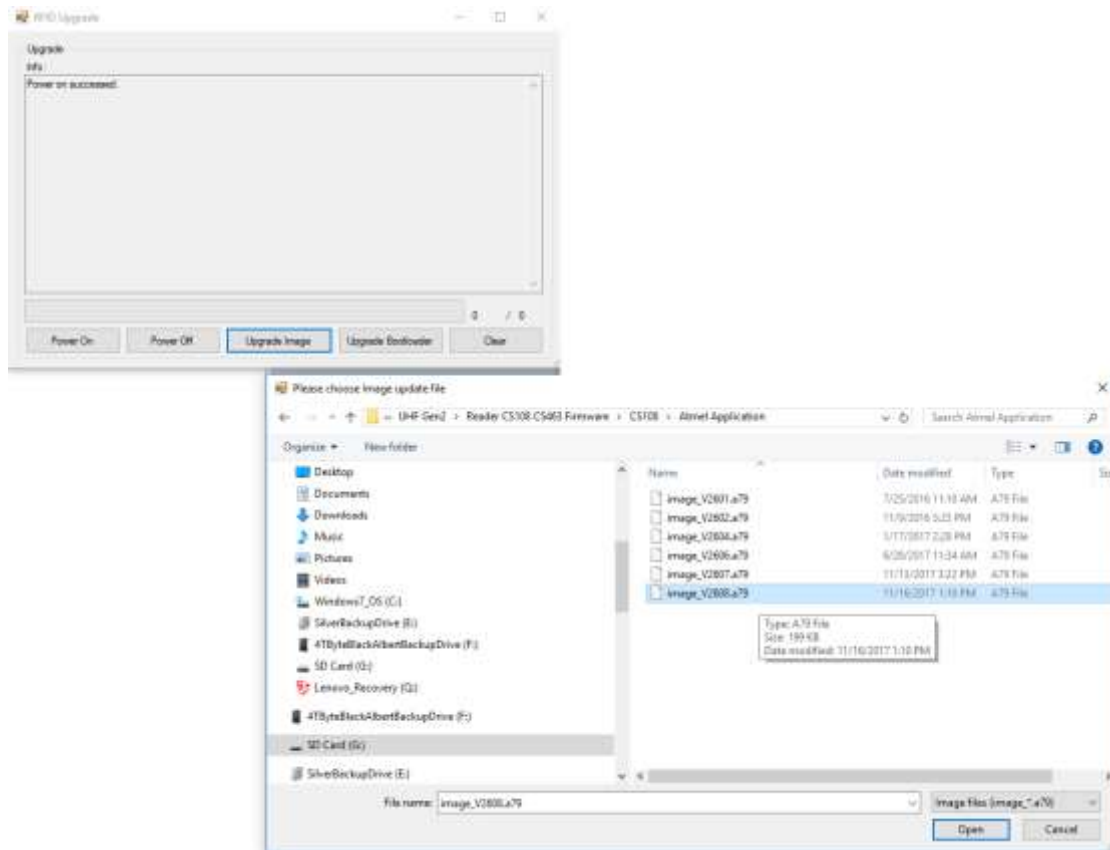
7. To upgrade RFID firmware, press the “Upgrade” button in the RFID Firmware Upgrade box. A separate window pops up:



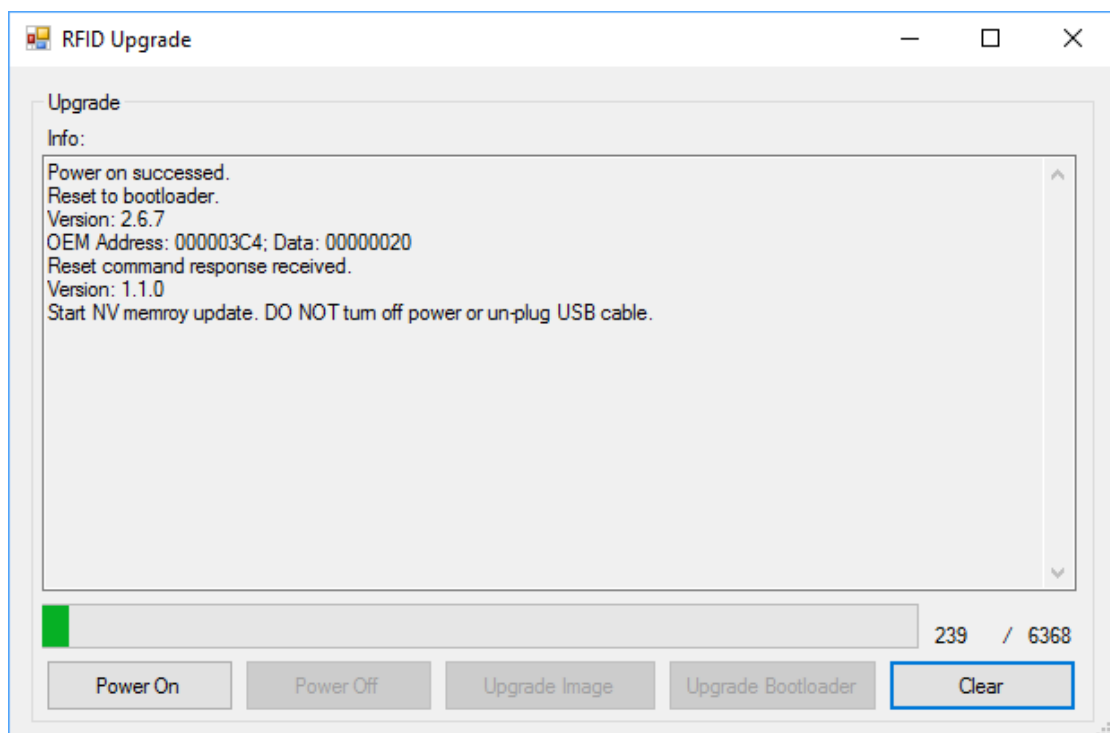
Press the “Power On” button:



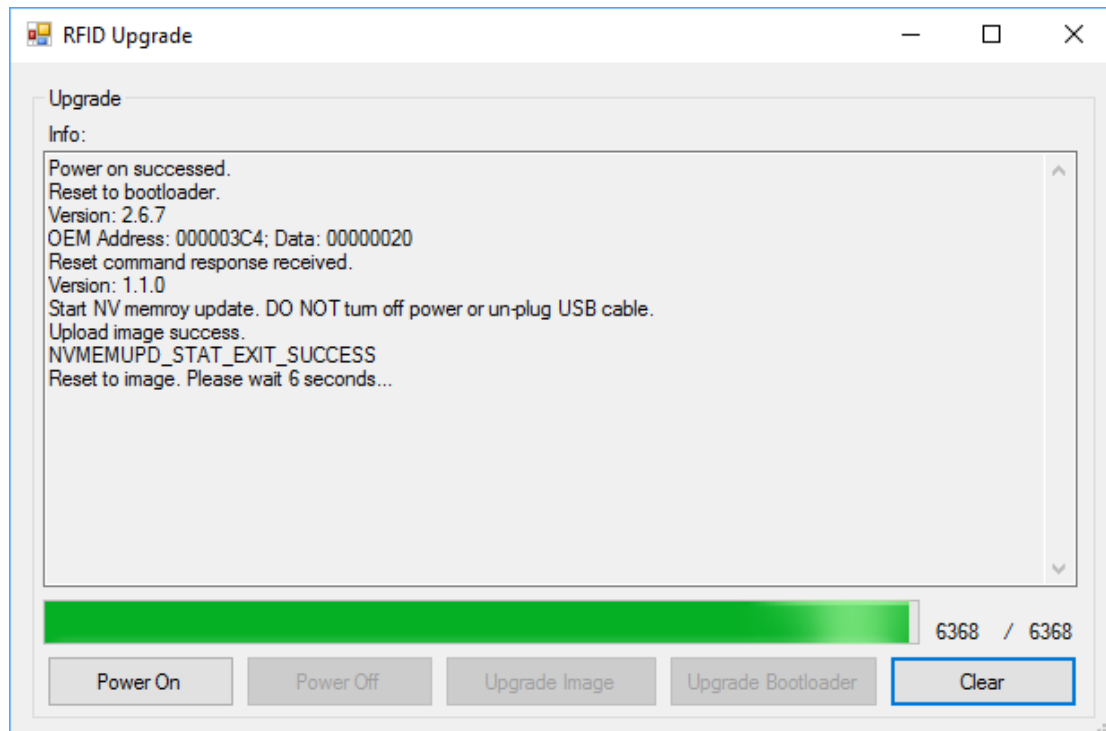
Then press the “Upgrade Image” button, a file open window pops up. Select the RFID firmware with a **.a79 extension** and press the “Open” button:



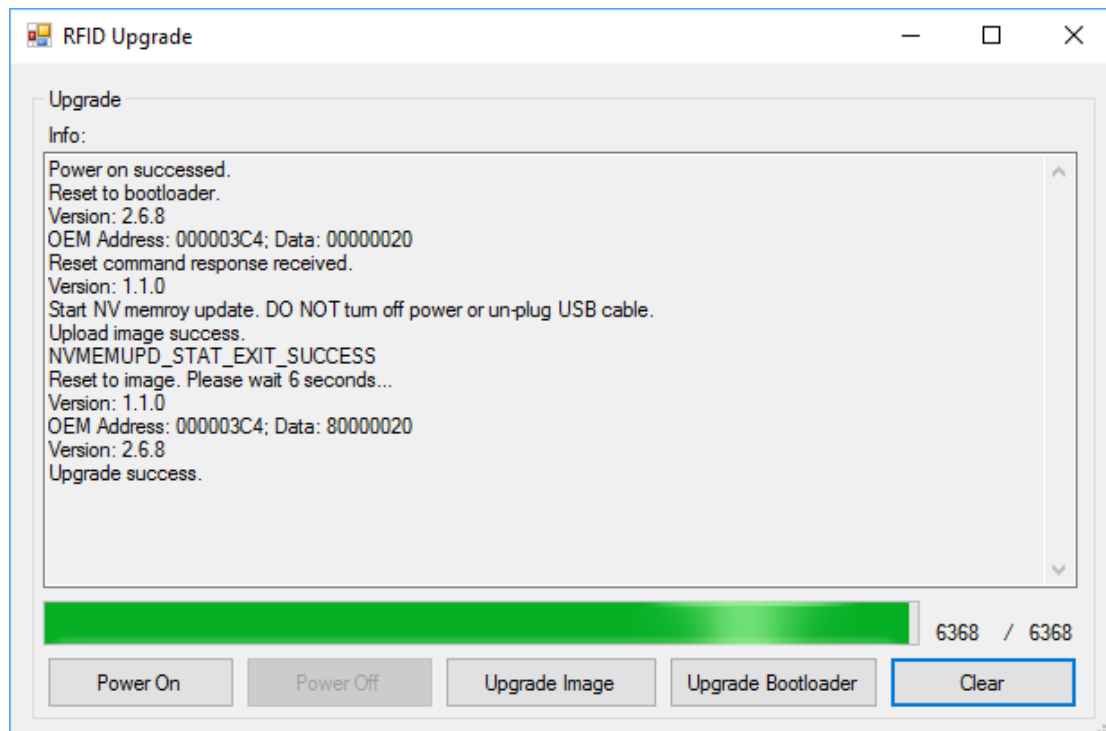
A progress bar appears:



When it is completed, it asks you to wait for 6 seconds. Please wait.



Then finally you will see Upgrade Success message. Press the “X” button at the upper right corner of the window.



This will bring you back to main window and you are still connected to the CS108

reader. Your RFID Application upgrade is now completed:

The screenshot displays the 'CS108 PC Demo App 1.1' window. It features several functional panels:

- Connection:** A dropdown menu showing a USB HID path and a 'Disconnect' button.
- Info:** Displays 'Silicon Lab Firmware Version: 1.0.7' and 'Bluetooth Firmware Version: 1.0.4'. It includes buttons for 'Get Battery Level' (with an adjacent mV field), 'Get Trigger State' (with an adjacent field), 'Get Device Name' (with an adjacent input field), and 'Set Device Name'.
- Reader:** Contains two buttons labeled 'RFID' and 'Barcode'.
- Firmware Upgrade:** Divided into three sections:
  - Silicon Lab Firmware Upgrade:** Includes 'Upgrade Image' and 'Upgrade Bootloader' buttons.
  - Bluetooth Firmware Upgrade:** Includes 'Upgrade Image' and 'Upgrade Bootloader' buttons.
  - RFID Firmware Upgrade:** Includes a single 'Upgrade' button, which is highlighted with a blue border.