

# How to Download the Firmware image over the USB

5/28/2015

# Overview of Kiosk2 tools and firmware

- HidApp.exe – the tool that is used for firmware download (Provide this tool to customer as reference only.)
- Two components of the Firmware
  - File Loader – is a main image that can overwrite the Bootloader.
  - Application Image – this is an image of the firmware that is downloaded over the USB interface. This image makes calls to the USB drivers that are contained in the boot-loader.
- Load file order:
  1. File Loader file. (EC8\_FL\_1\_0\_1\_w\_EC9\_BL\_x\_x\_x.hex)
  2. Main Image. (EC8\_GR2\_x\_x\_Cxx\_-rxxx.hex)

Connect the reader using the USB interface..  
Click on “Detect HID Device”

**Vivotech Hid USBTool**

**VIVOtech**

**Kiosk2 USB Tool**  
V2.0 Copyright (C) 2010 Vivotech

Device Identifier  
Vendor ID: 1D5F  
Product ID: 0100

Report Options  
 Exchange Input/Output Reports  
 Control Transfer Only  
 Exchange Feature Reports

Vivotech Cmds  
Ping command

Write Command Params  
RAM Addr: 40002000  
Flash Addr: 00010000  
Data Size: 00000004  
Data: DEADBEEF  
Quiet: 0  Debug

Test HID Device  
1 Report No.  
Once  
Continuous  
1000 ms Interval

Download File  
CANDIDATE.hex

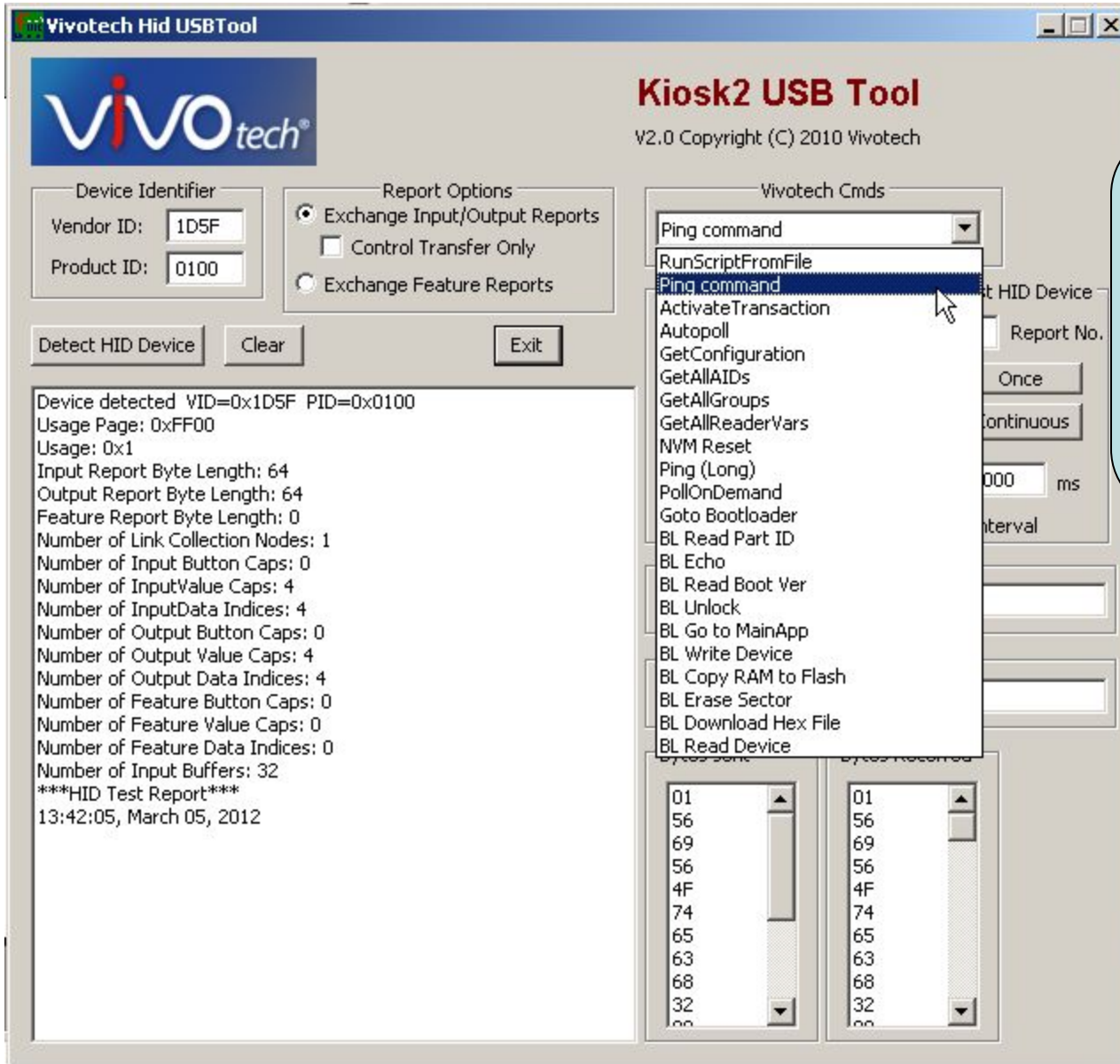
Upoad File  
memory\_dump.txt

Bytes sent  
01  
56  
69  
56  
4F  
74  
65  
63  
68  
32  
00

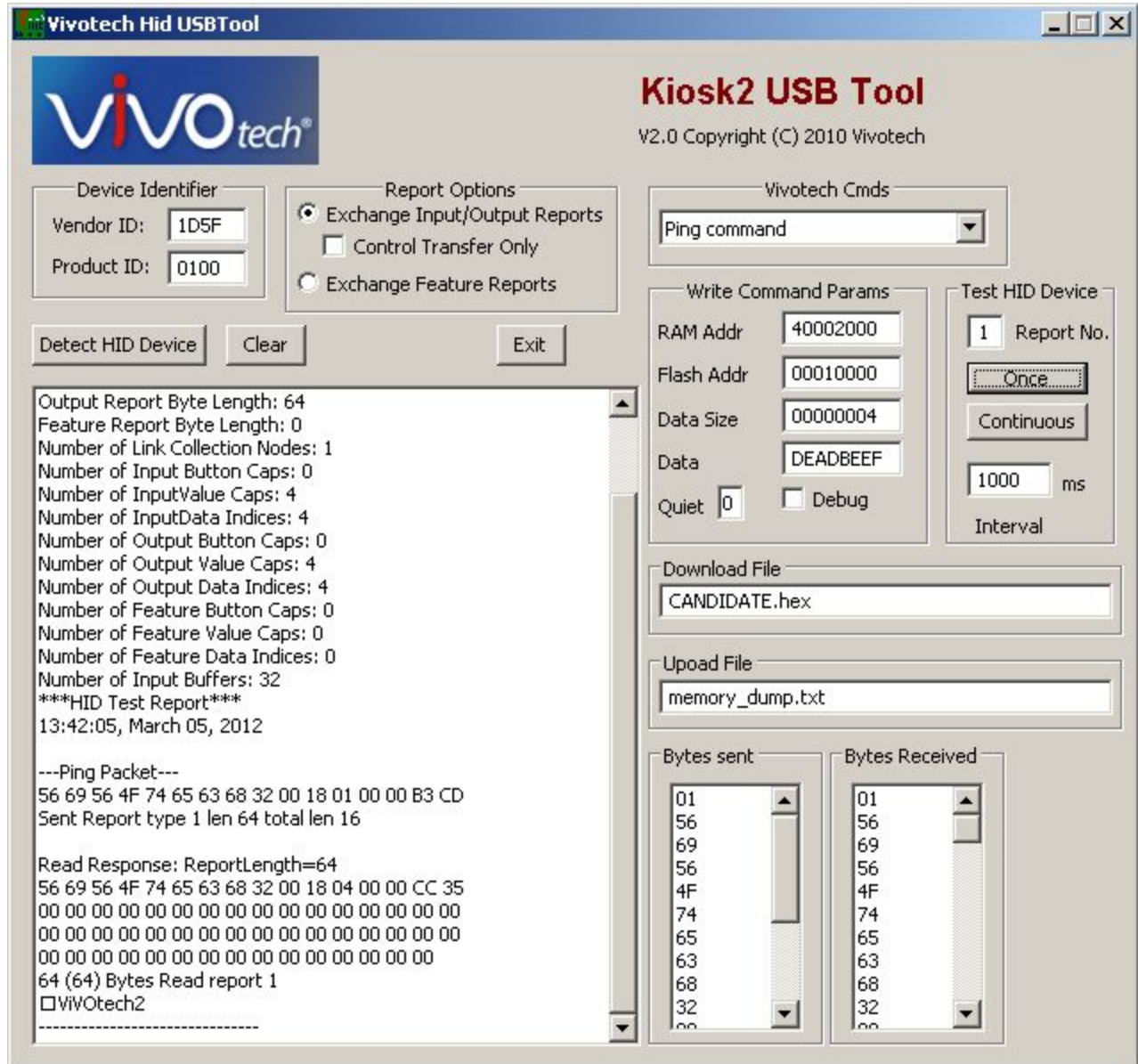
Bytes Received  
01  
56  
69  
56  
4F  
74  
65  
63  
68  
32  
00

Detect HID Device: Clear Exit

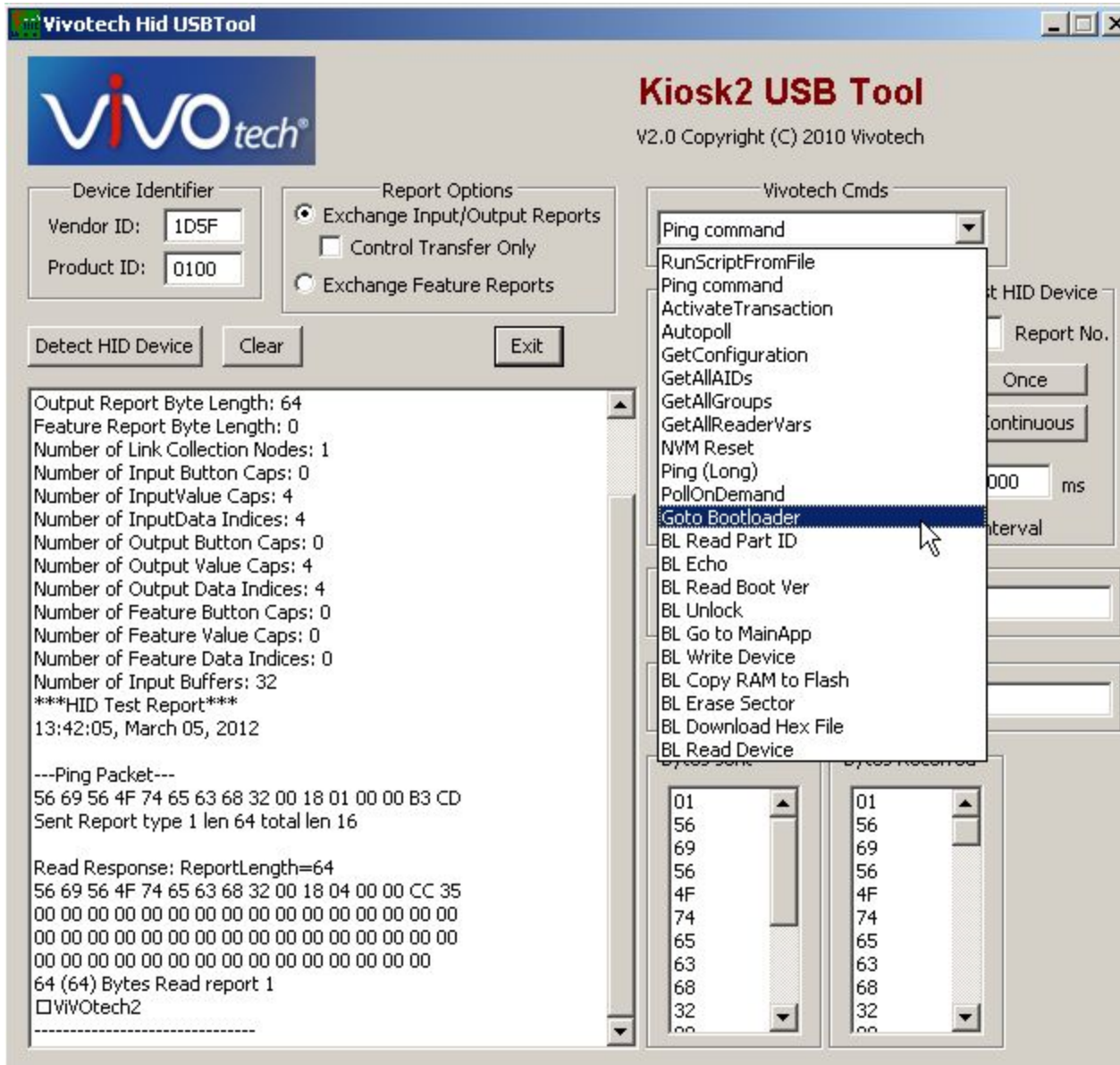
Device detected VID=0x1D5F PID=0x0100  
Usage Page: 0xFF00  
Usage: 0x1  
Input Report Byte Length: 64  
Output Report Byte Length: 64  
Feature Report Byte Length: 0  
Number of Link Collection Nodes: 1  
Number of Input Button Caps: 0  
Number of InputValue Caps: 4  
Number of InputData Indices: 4  
Number of Output Button Caps: 0  
Number of Output Value Caps: 4  
Number of Output Data Indices: 4  
Number of Feature Button Caps: 0  
Number of Feature Value Caps: 0  
Number of Feature Data Indices: 0  
Number of Input Buffers: 32  
\*\*\*HID Test Report\*\*\*  
13:42:05, March 05, 2012



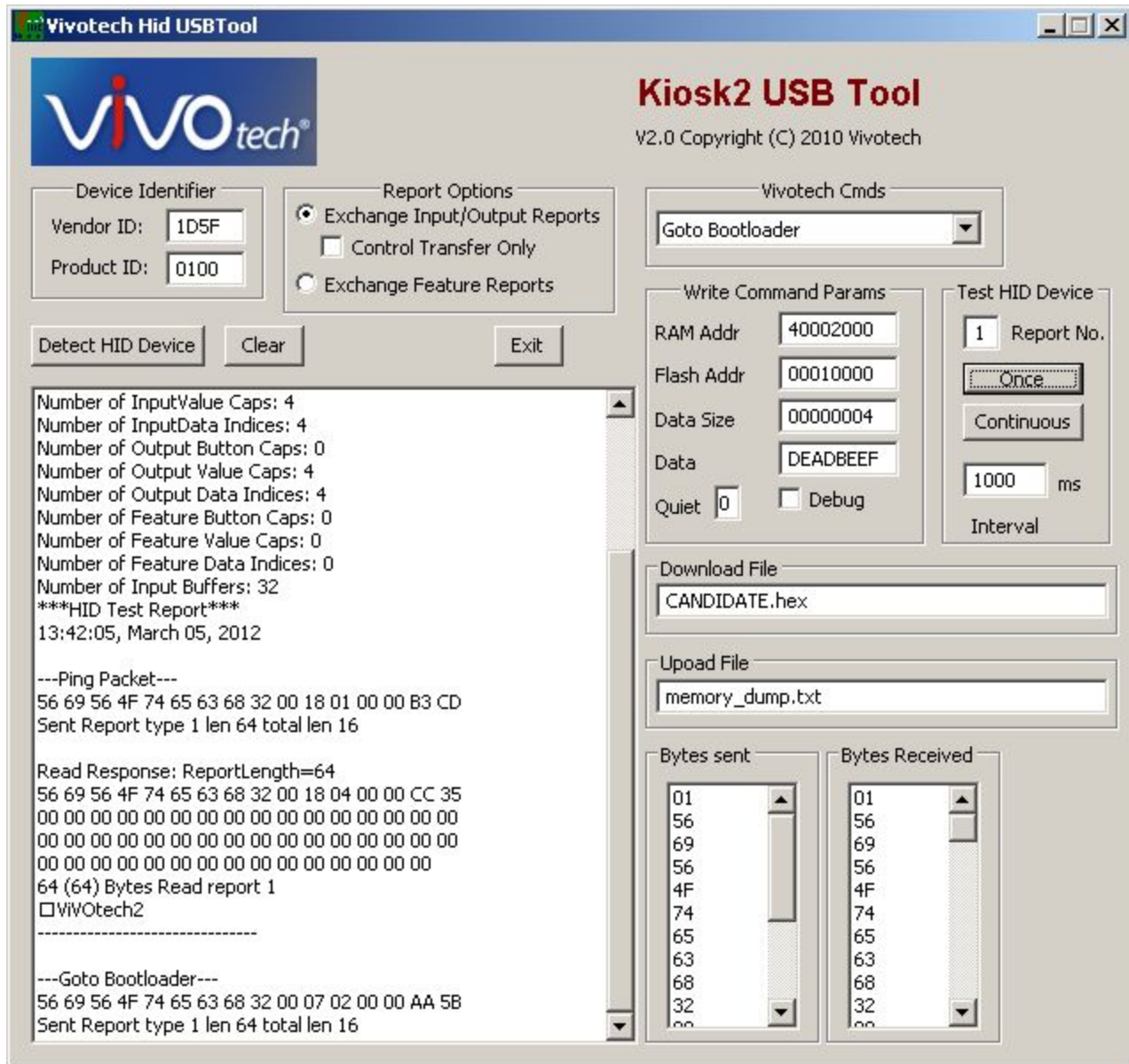
To verify that the reader is communicating, select the “Ping Command” and then click on the “Once” button.



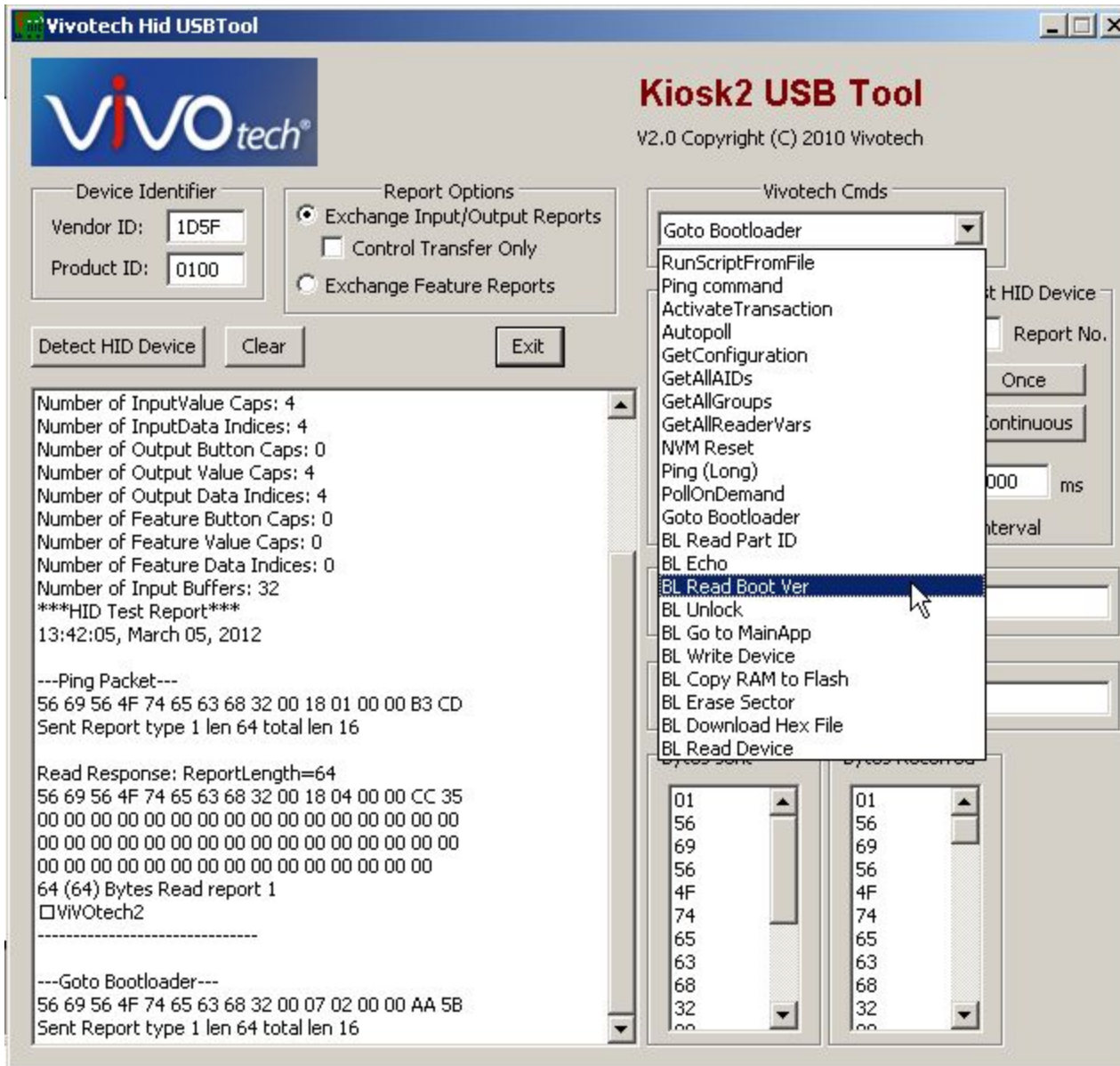
You should see the response to the Ping packet in the window



Select the “Goto Bootloader” command and then click on the “Once” button.



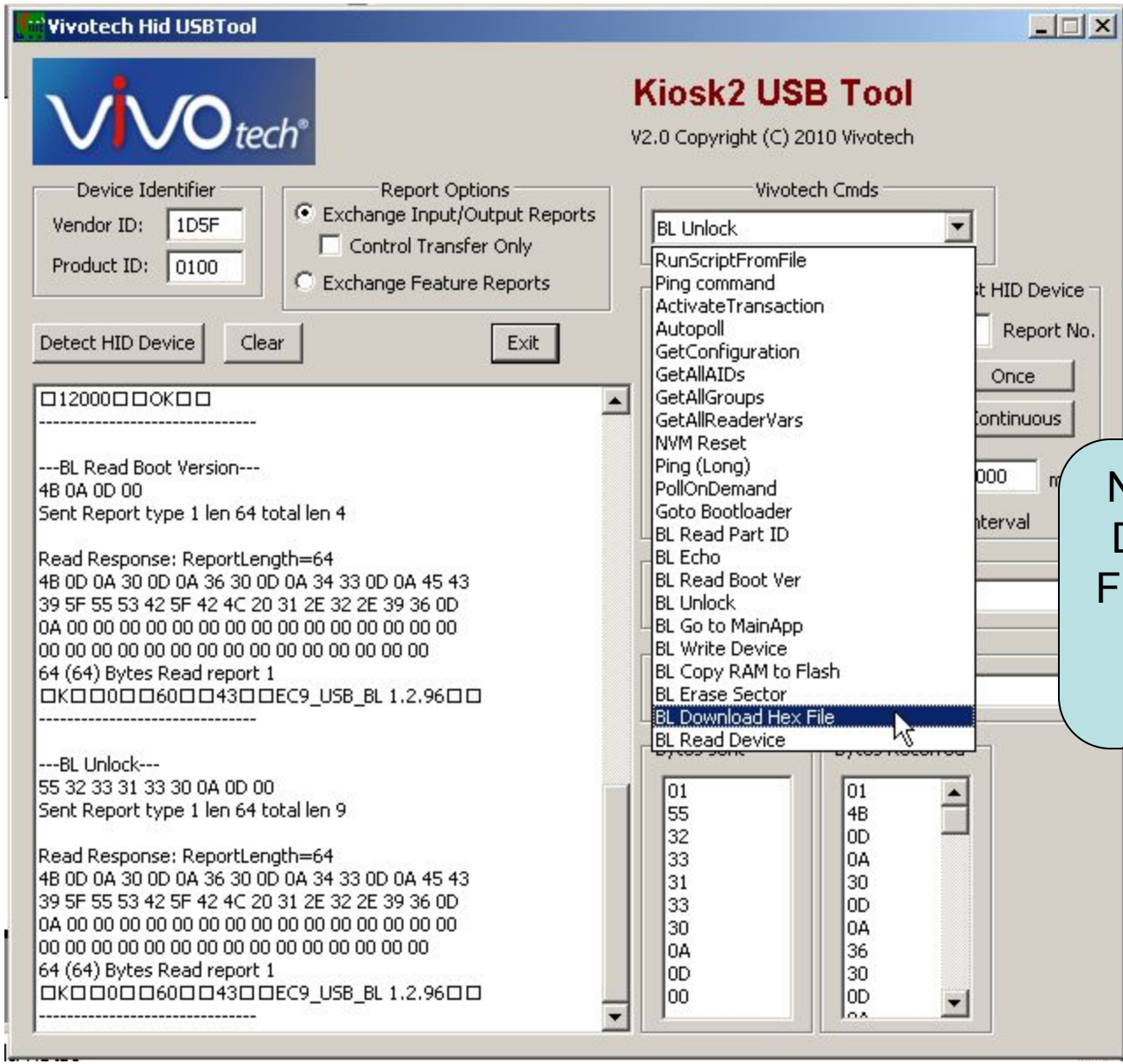
This is what you should see in the window.



2.)To verify that you are communicating with the Bootloader, click on “BL Read Boot Ver.” Then click “Once”

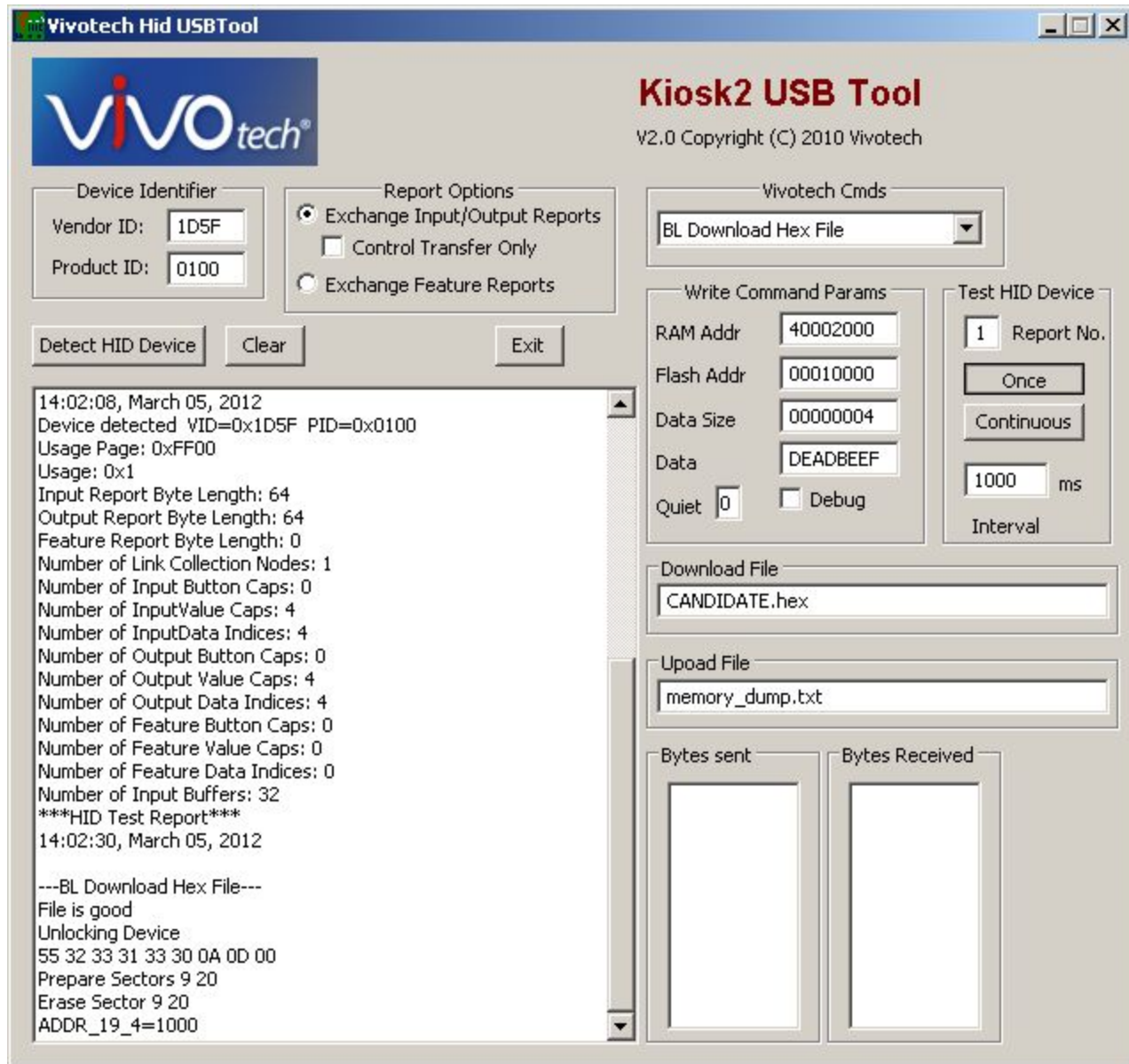




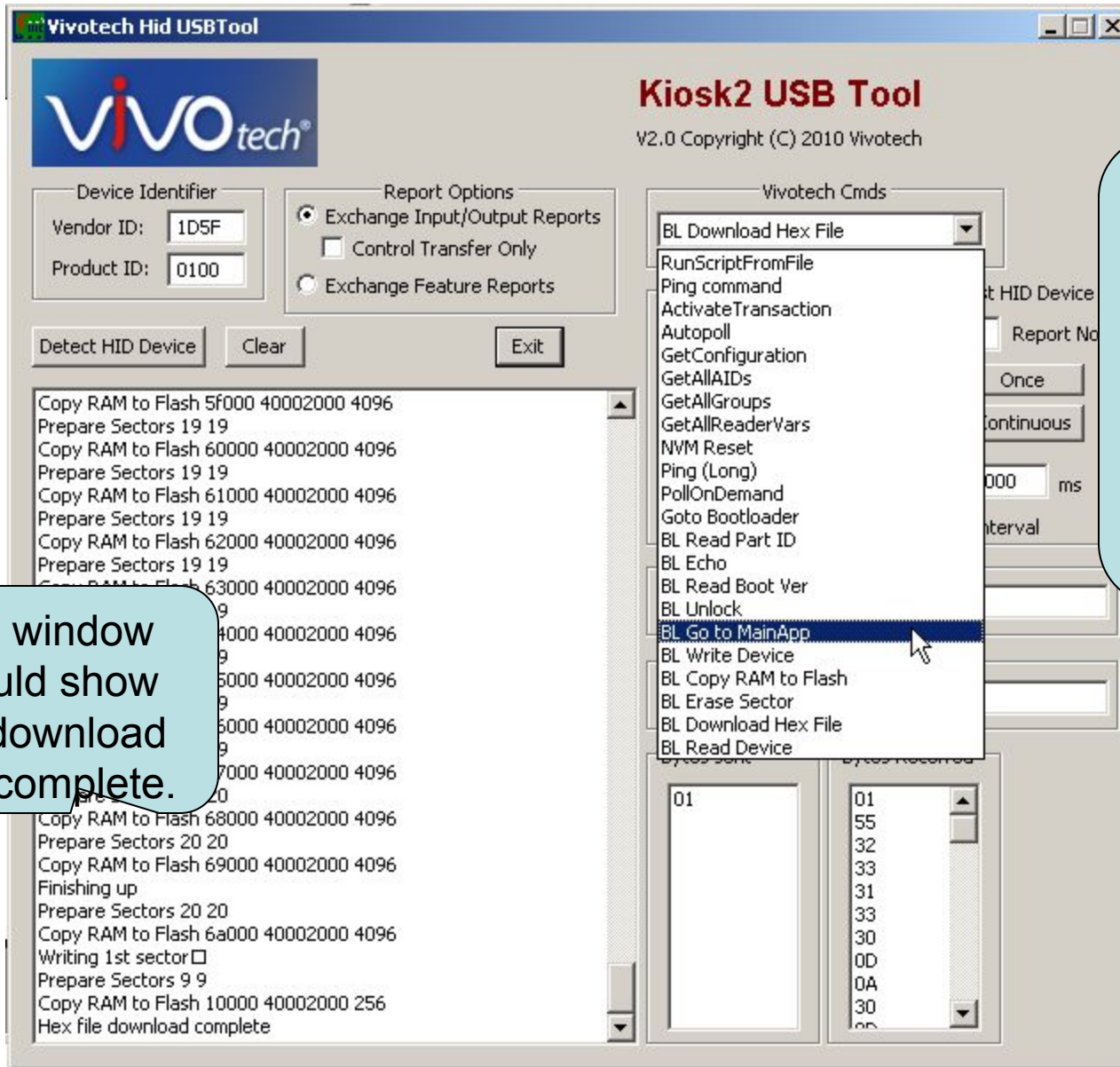


Now select "BL Download Hex File". Then click on the "Once Button".



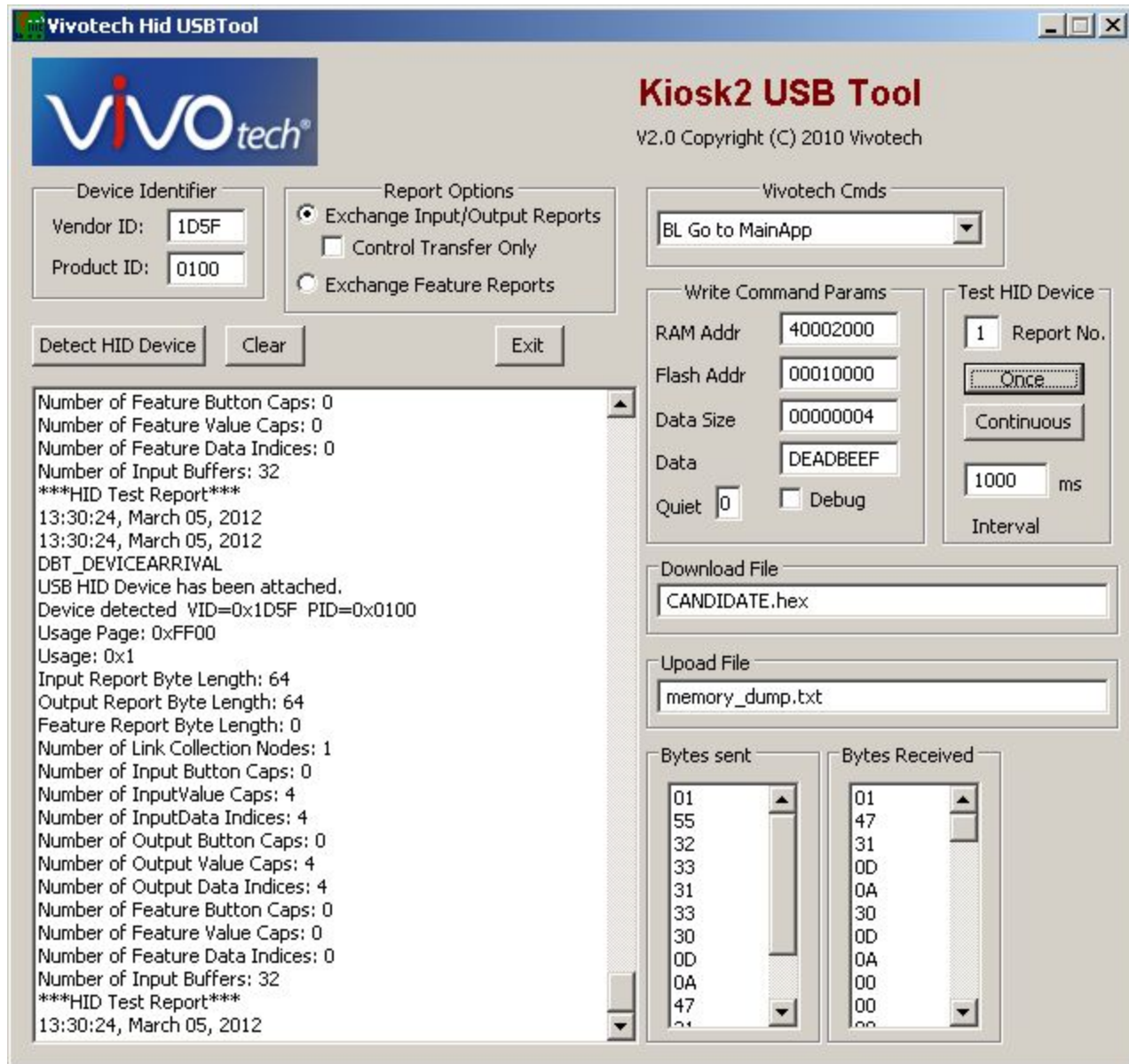


The download should begin as shown in the window. This will take several minutes.

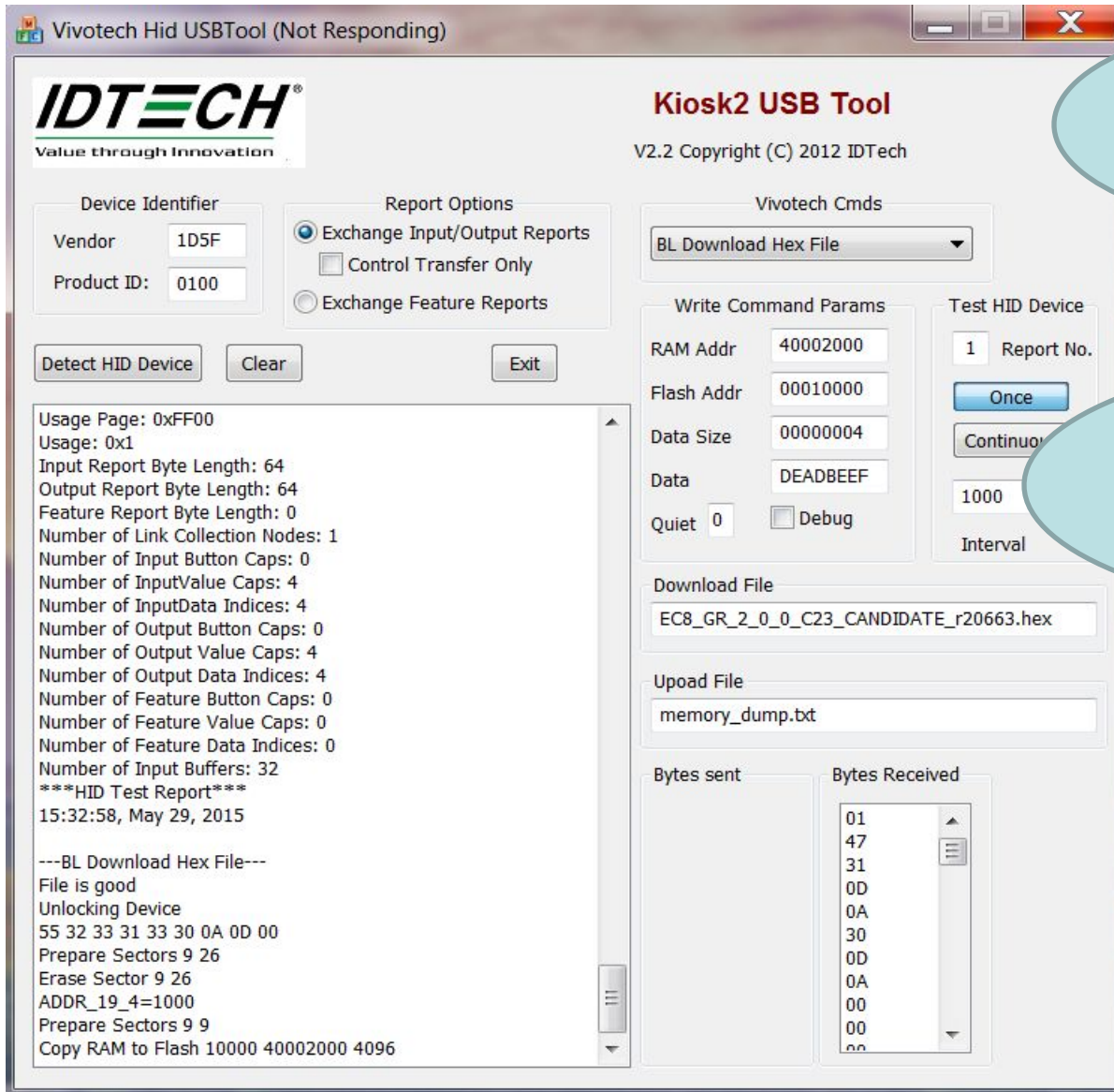


The window should show the download was complete.

Then select "BL\_Go to Main App". Click Once.

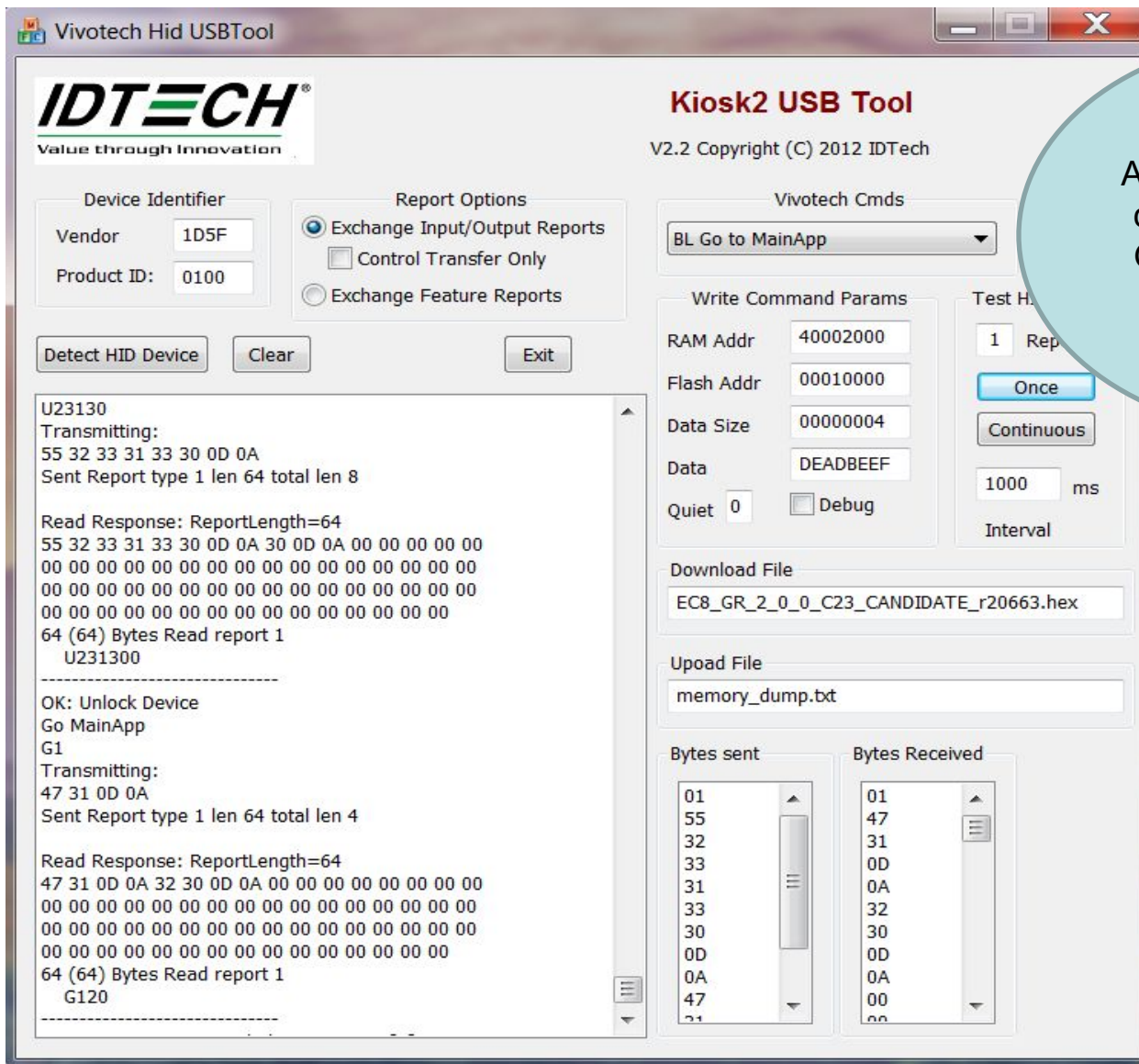


You should hear a **long beep**.and **wait** then the reader device should enumerate, as shown here **or** select “Detect HID Device”



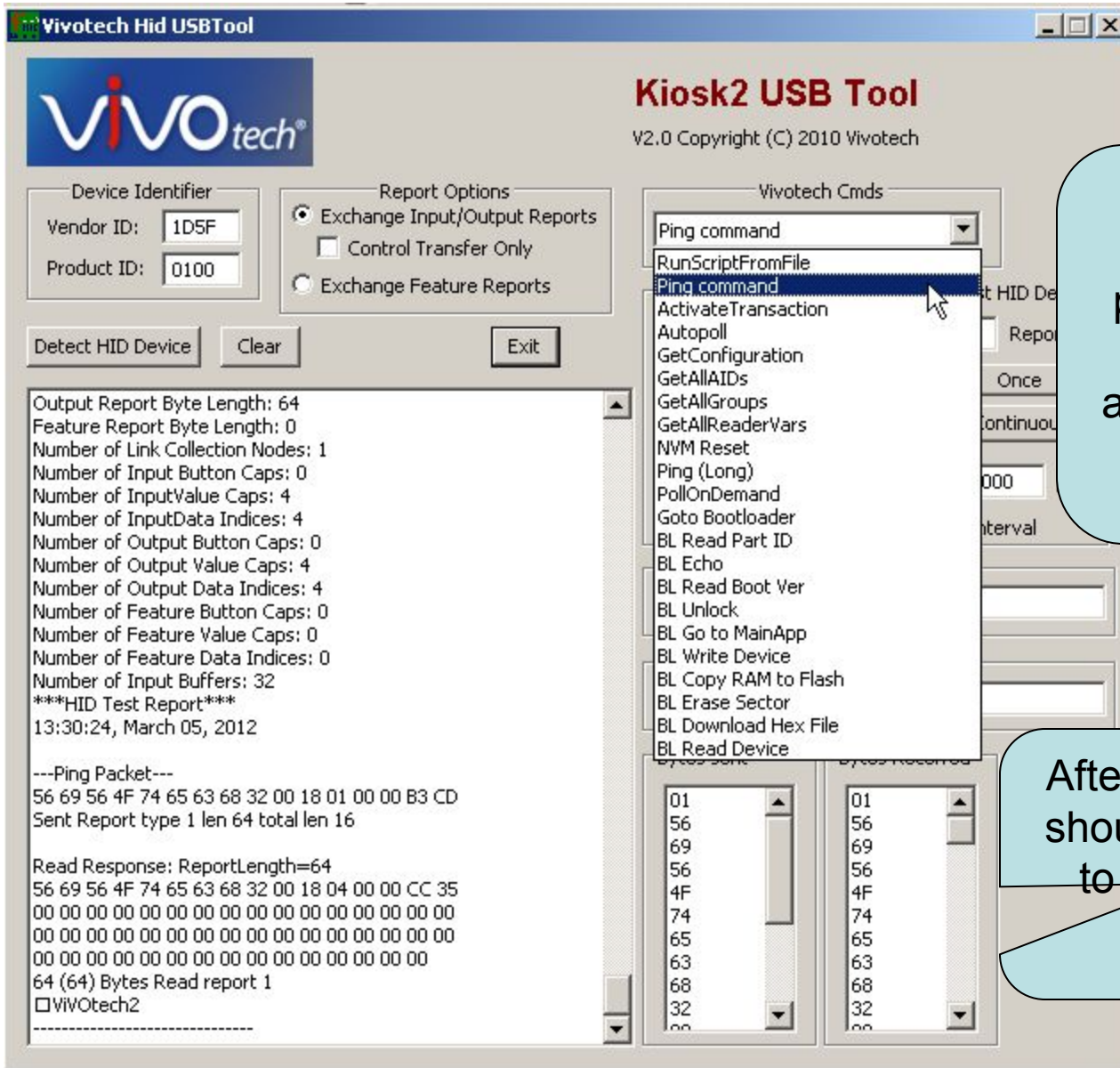
select BL Download Hex File Then Select Once

**SECOND:** en EC8\_GR2.0.0\_Cxx\_ -rxxxx.hex h



After the file download complete. Select BL GoTo MainApp Then Select Once





To make sure the reader is running properly, select the "Ping Command" and click the "Once" button.

After you click once, you should see the response to the Ping as shown here.