

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”

The screenshot shows the Vivotech Hid USBTool application window. The title bar reads "Vivotech Hid USBTool". The main window contains the Vivotech logo and the text "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.

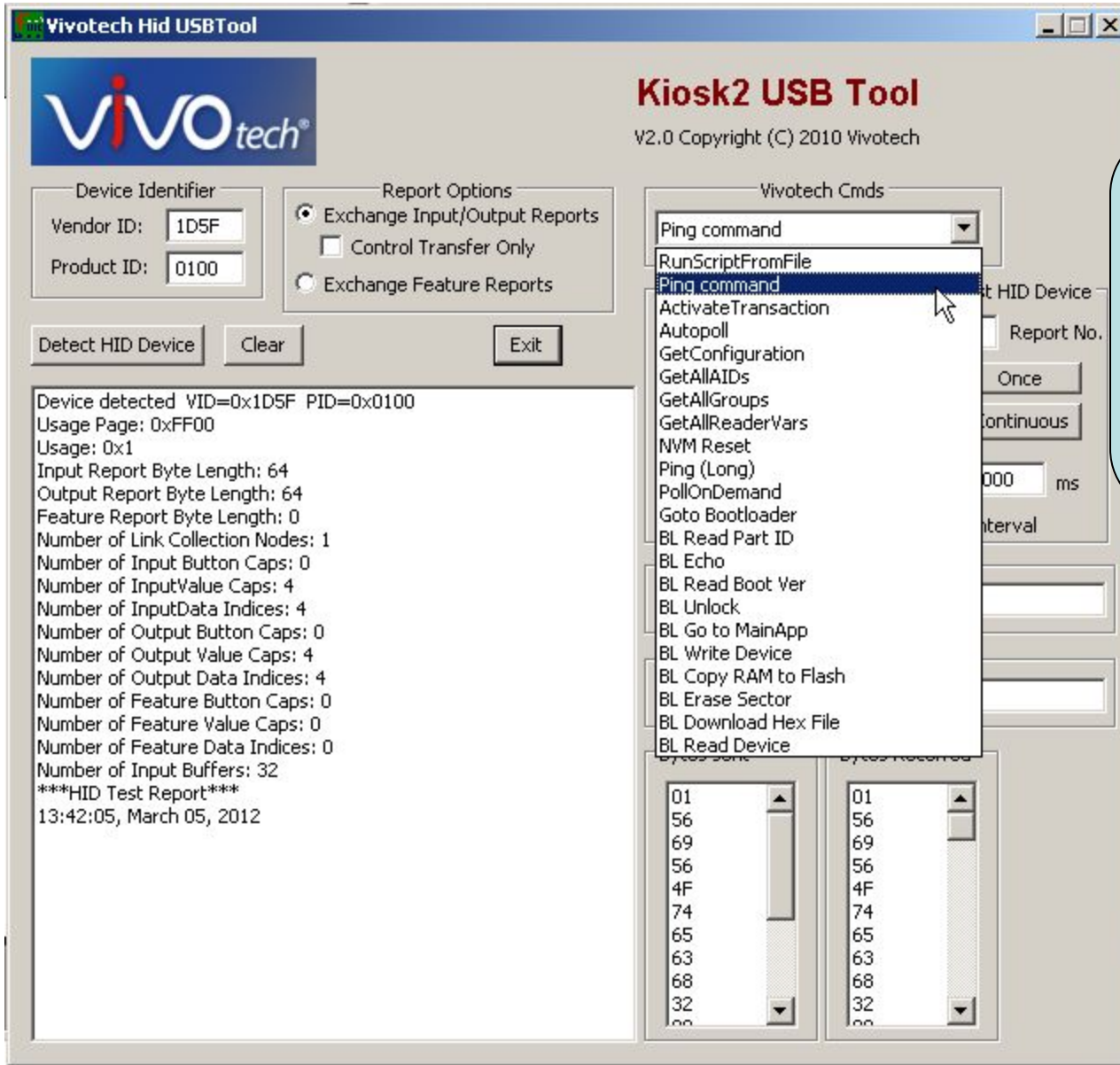
Download File: CANDIDATE.hex

Upoad File: memory_dump.txt

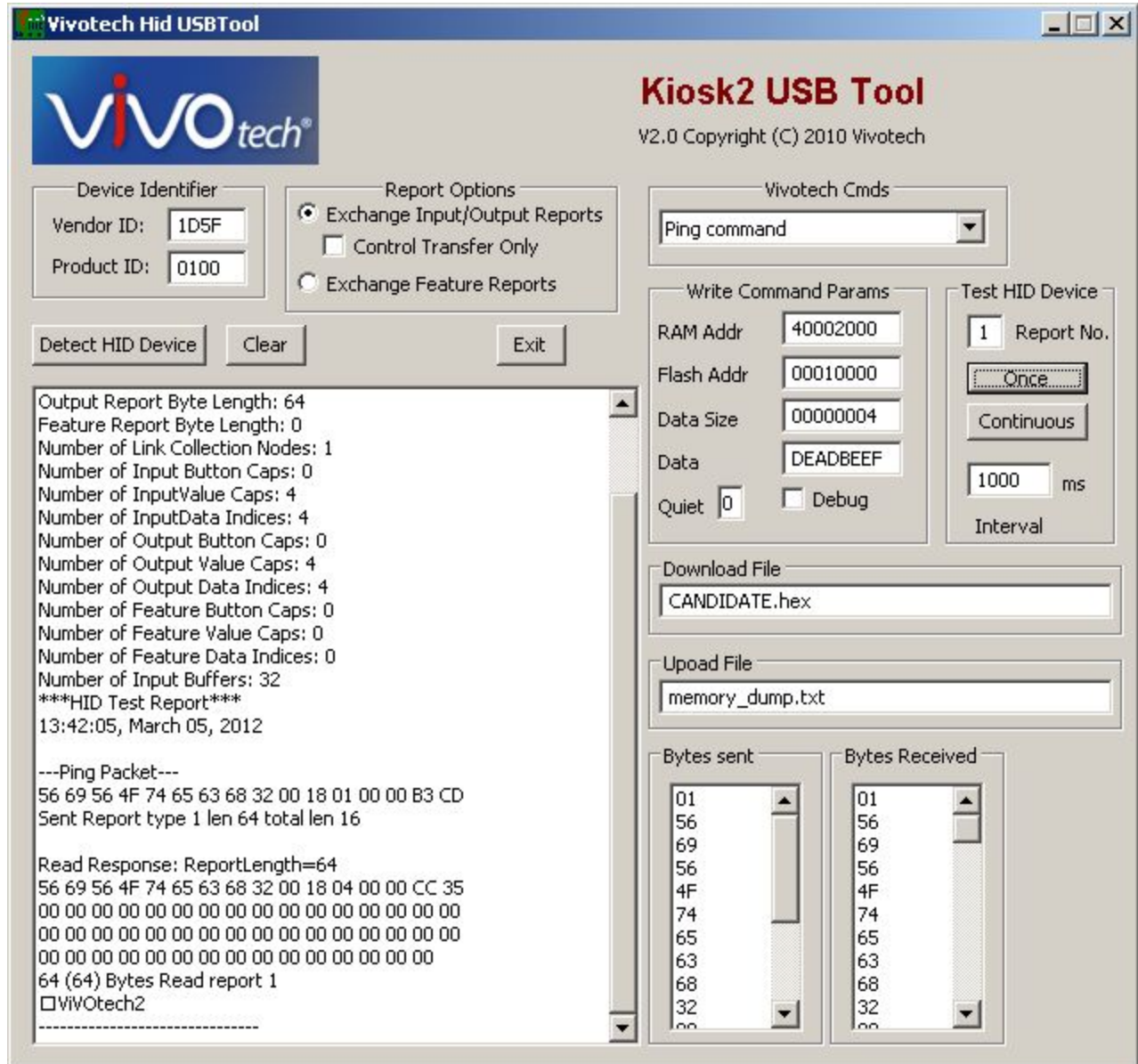
Bytes sent: 01, 56, 69, 56, 4F, 74, 65, 63, 68, 32, 00

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

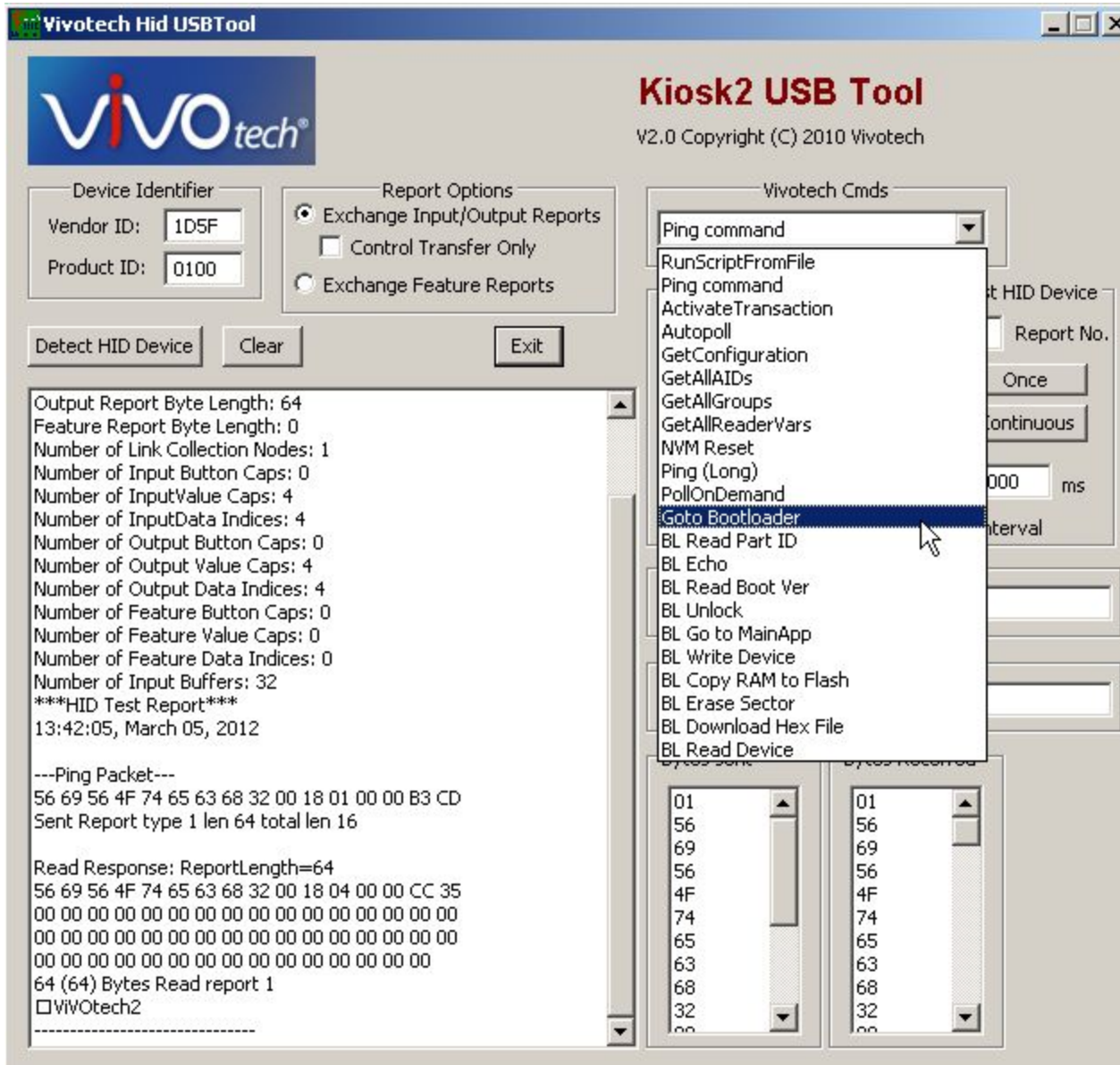
Device detected VID=0x1D5F PID=0x0100
Usage Page: 0xFF00
Usage: 0x1
Input Report Byte Length: 64
Output Report Byte Length: 64
Feature Report Byte Length: 0
Number of Link Collection Nodes: 1
Number of Input Button Caps: 0
Number of InputValue Caps: 4
Number of InputData Indices: 4
Number of Output Button 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



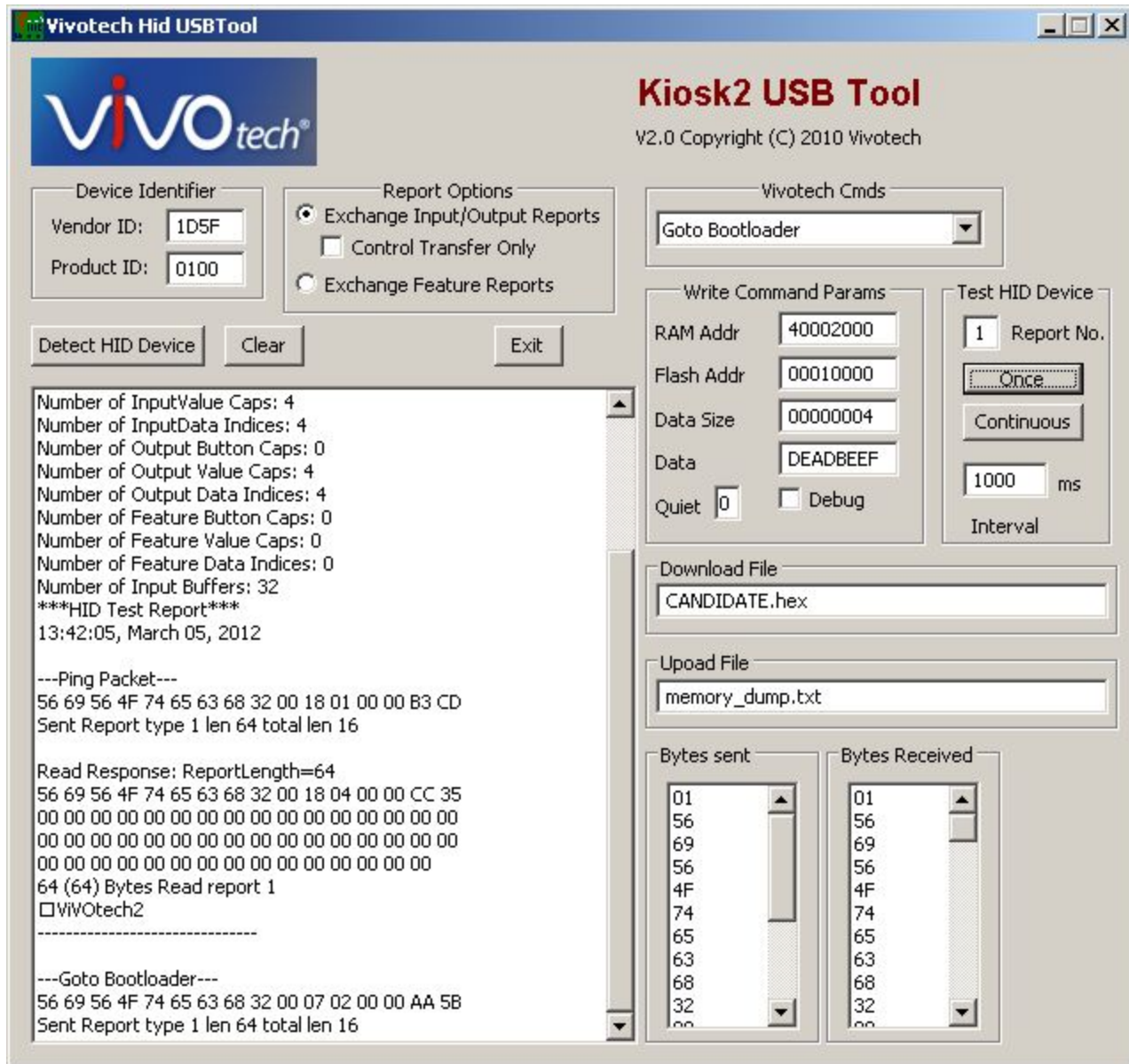
To verify that the reader is communicating, select the “Ping Command” and then click on the “Once” button.



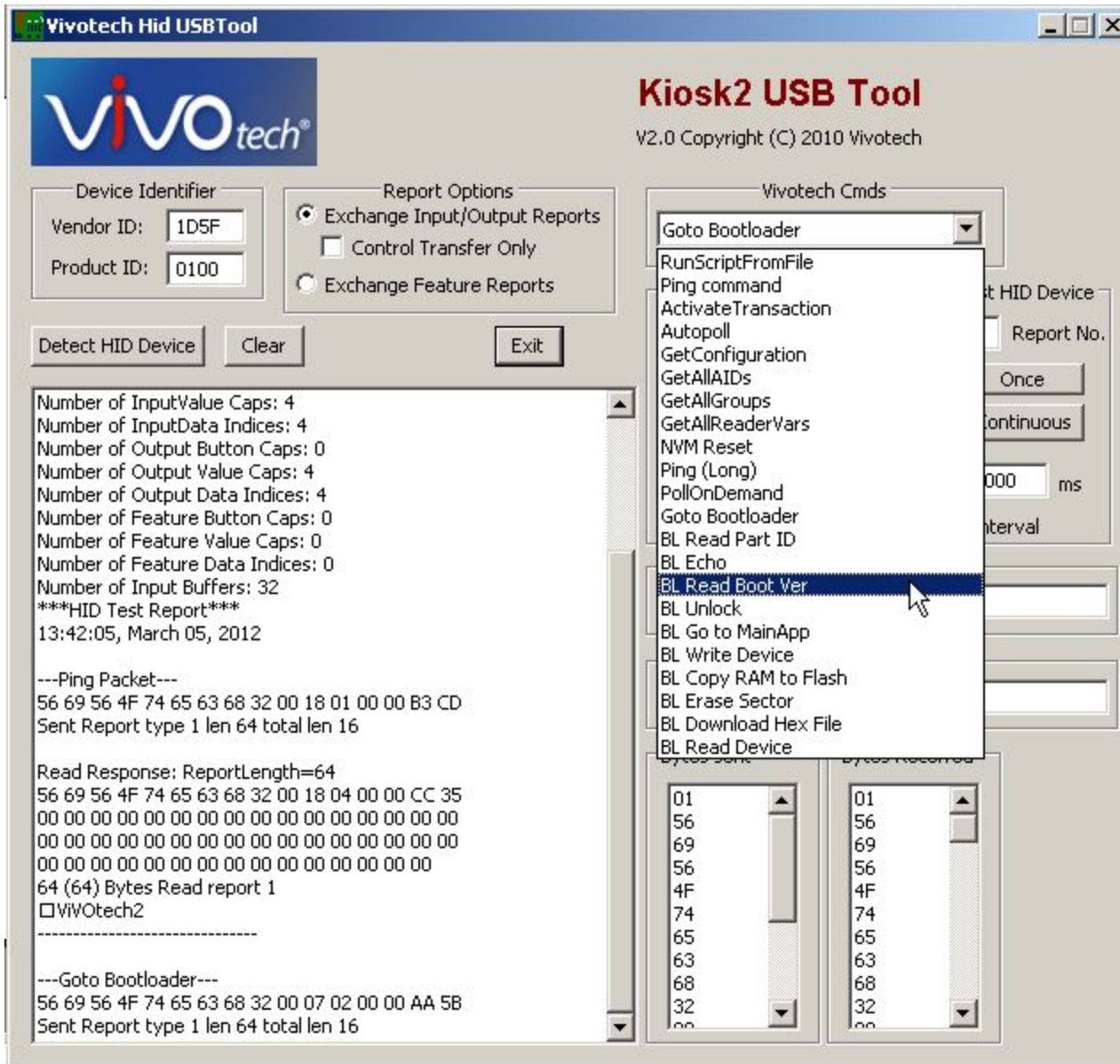
You should see the response to the Ping packet in the window



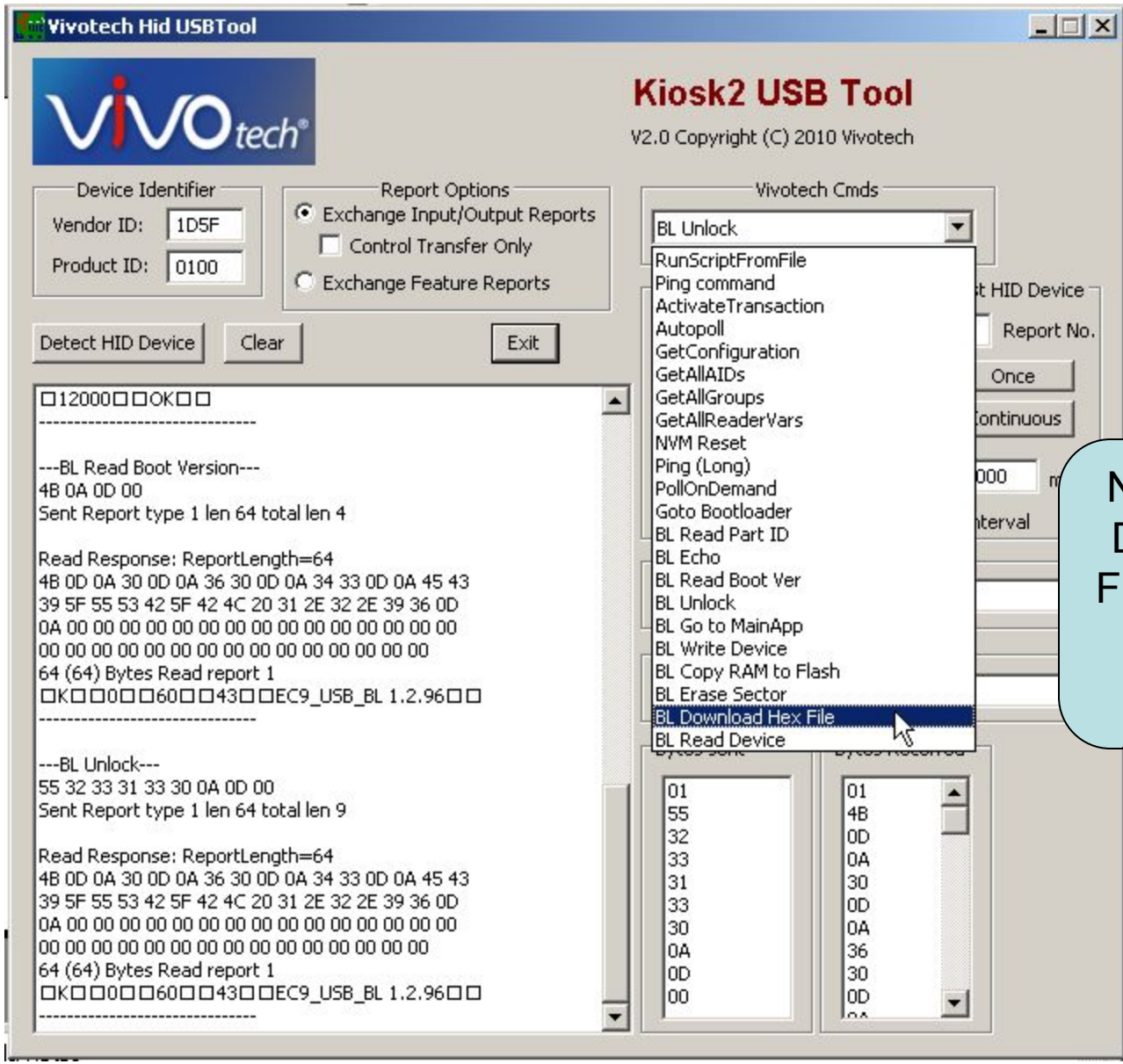
Select the “Goto Bootloader” command and then click on the “Once” button.



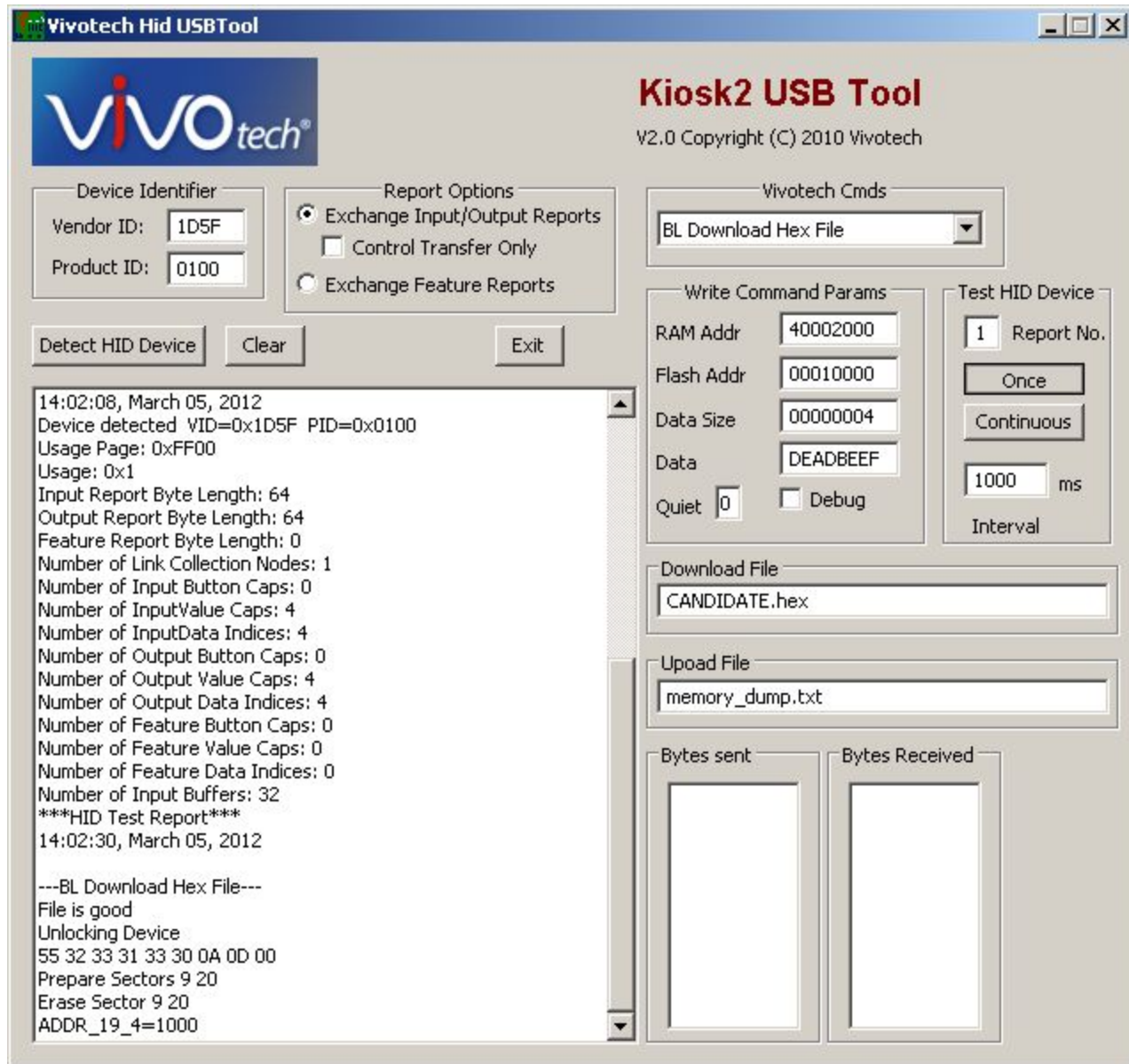
This is what you should see in the window.



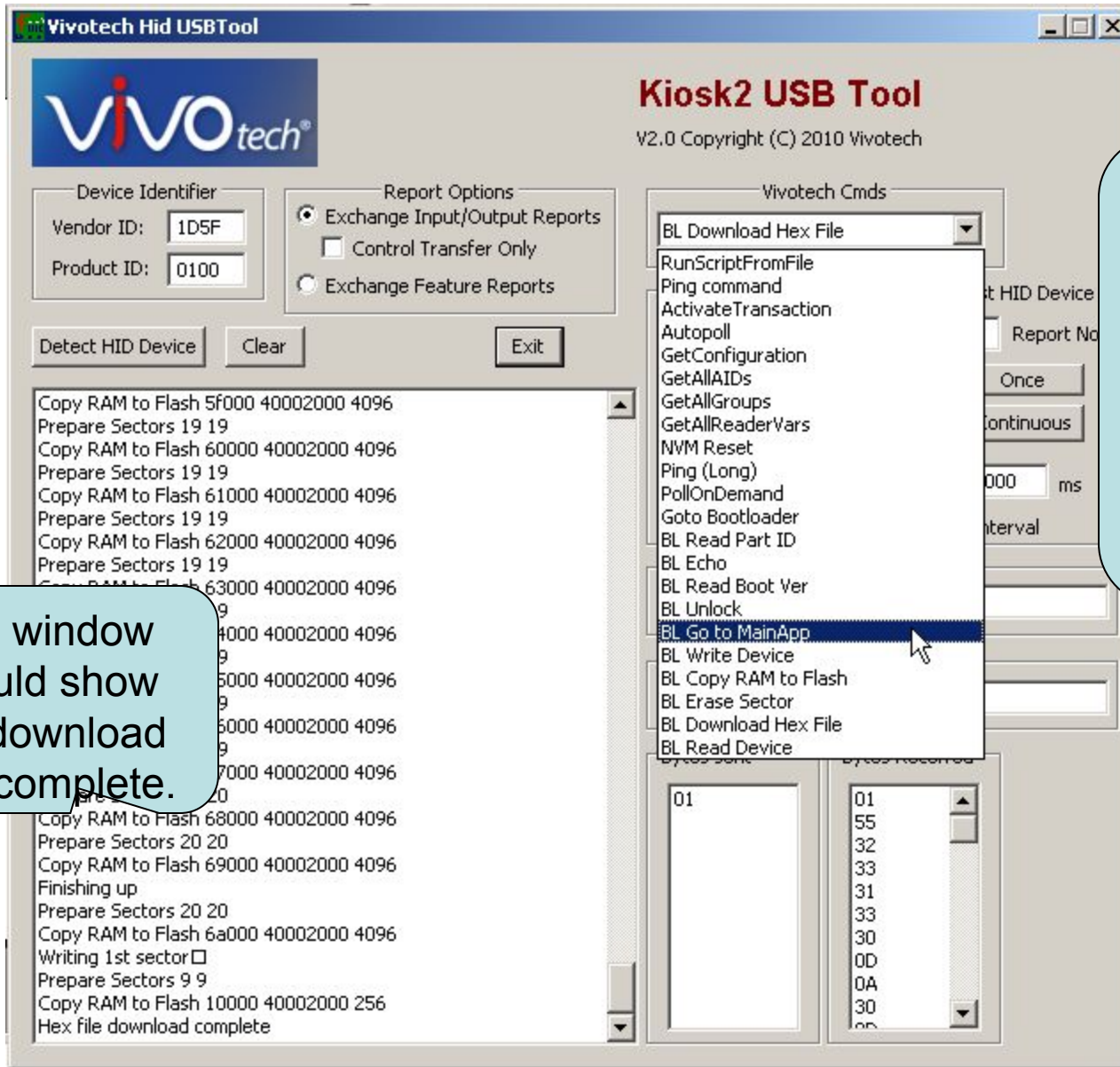
2.)To verify that you are communicating with the Bootloader, click on “BL Read Boot Ver.” Then click “Once”



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

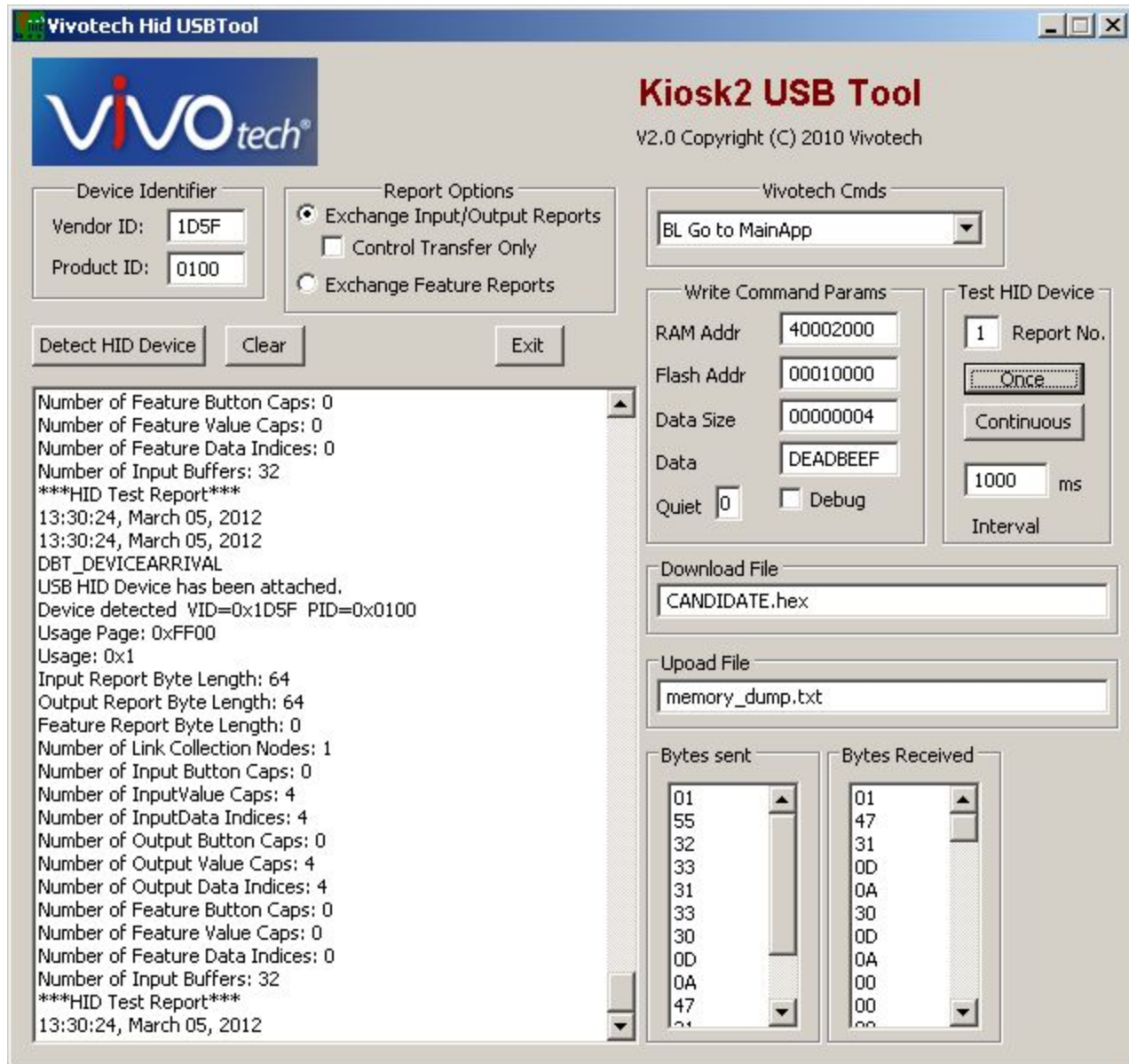


The download should begin as shown in the window. This will take several minutes.

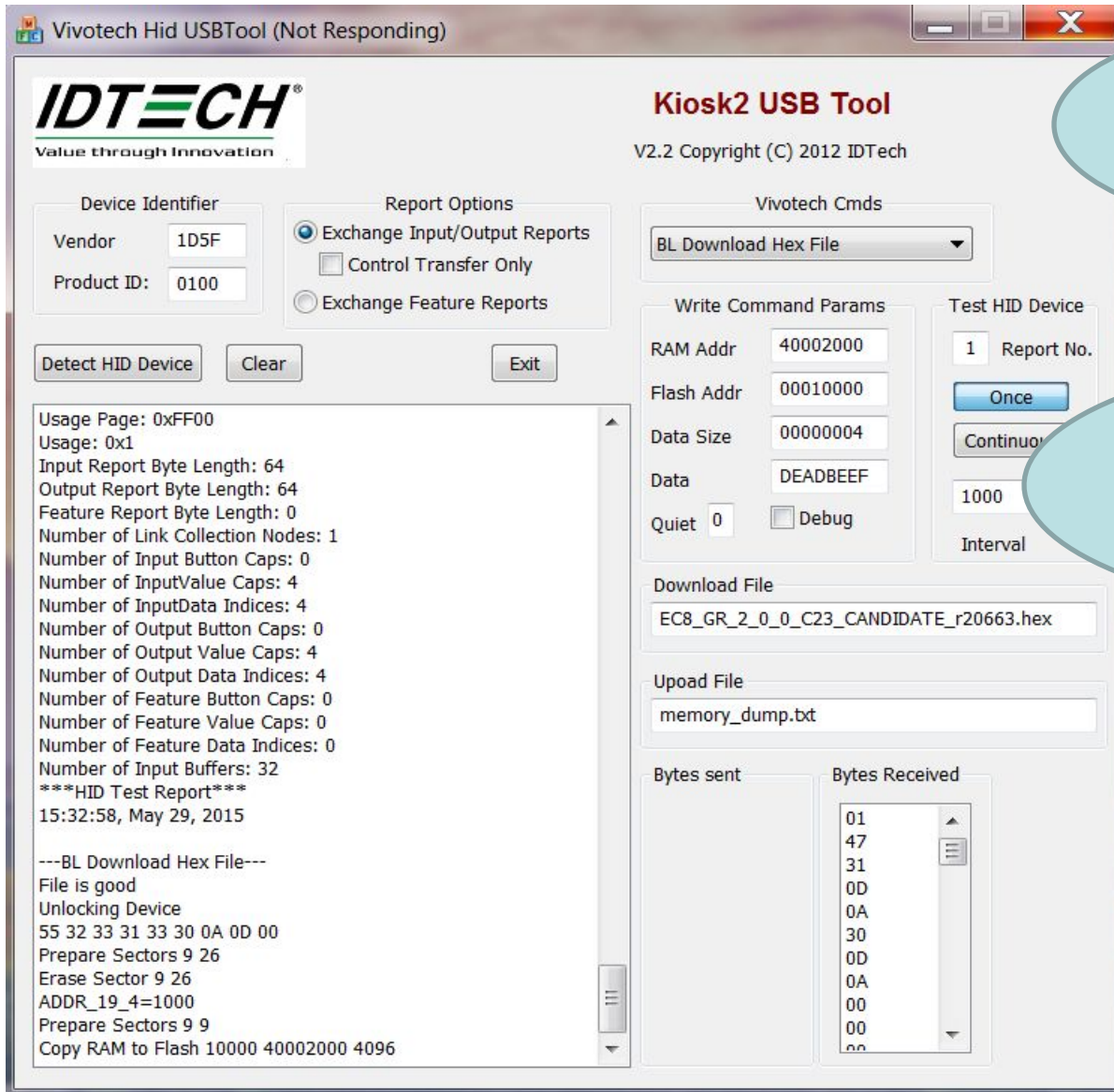


The window should show the download was complete.

Then select "BL_Go to Main App". Click Once.

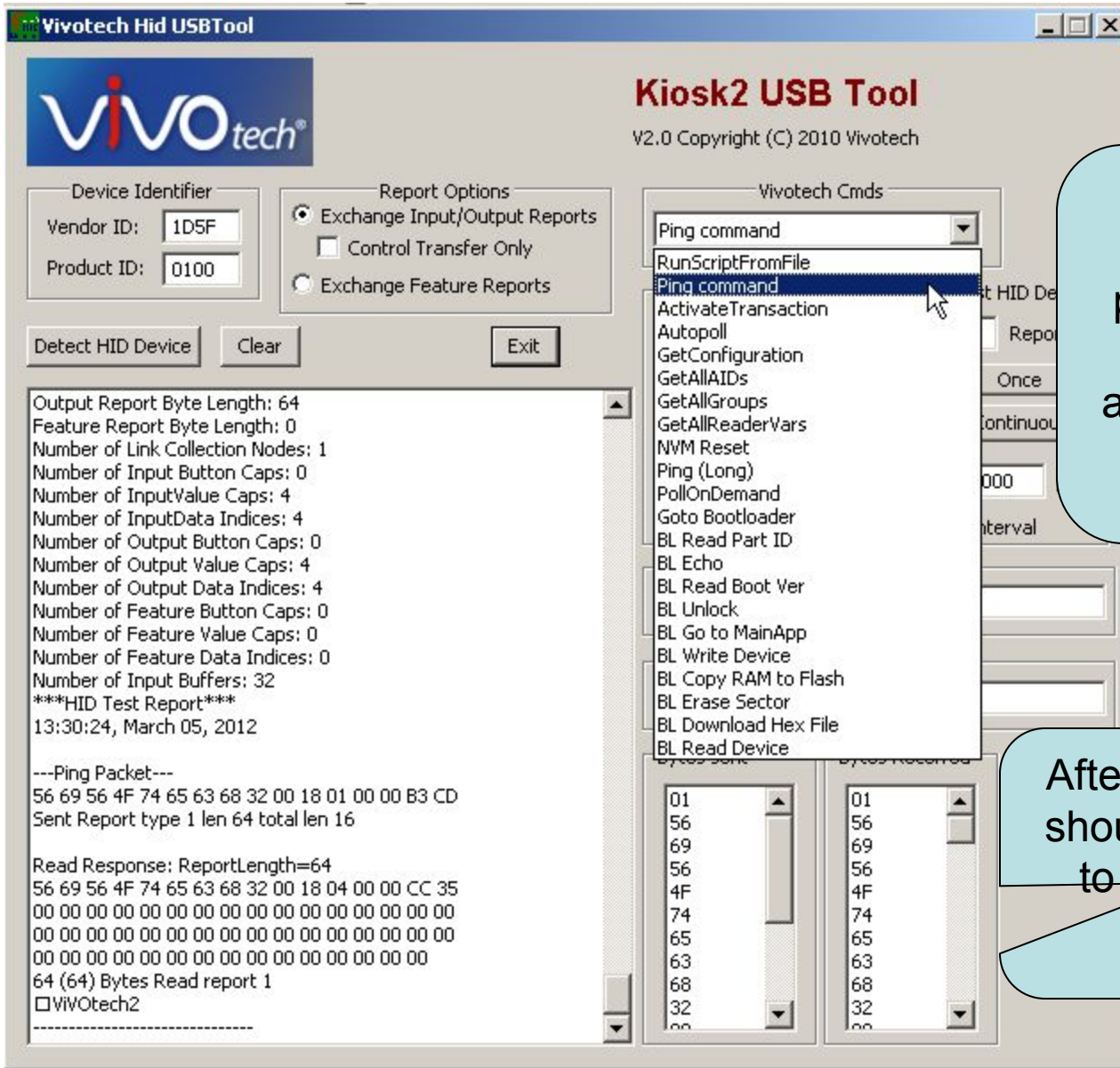


You should hear a **long beep**.and **wait** then the reader device should enumerate, as shown here **or** select "Detect HID Device"



select BL Download Hex File Then Select Once

SECOND: en EC8_GR2.0.0_Cxx_ -rxxxx.hex h



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.