V7X Firmware Upgrade Instructions

The files needed to perform a field upgrade of the V7X series firmware are available as a .zip file from Vitrek.

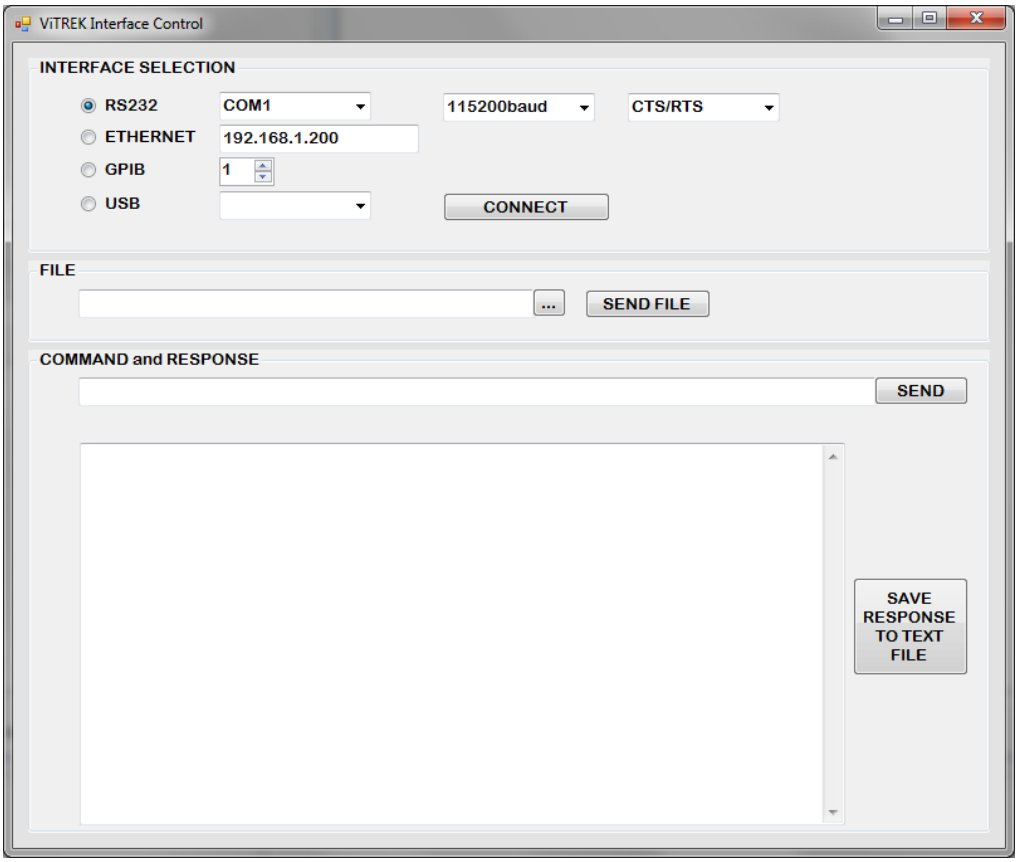
NOTE THE FOLLOWING BEFORE STARTING THIS PROCEDURE –

- The V7X must be connected to a computer via either the RS232 or USB interfaces. Ensure that the computer has a compatible interface and a suitable cable is available.
- The Windows application provided by Vitrek has been tested in all versions of Windows XP, Vista, 7 and 8. The application runs under Windows 8 as a desktop application, a touch panel is not supported. Windows versions prior to XP are not supported.
- You may need to change your computer security settings to extract the files contained in the .zip file provided by Vitrek as this contains an executable file. Contact your IT department if you are unsure how to do this.
- During the actual upgrade process there is a period of a few seconds where power MUST NOT be removed from the V7X. If the local power supply is severely unreliable then the use of a UPS is strongly recommended during this process. If a power failure or a communications failure occurs during the code download process, but prior to the programming portion, then it may be safely restarted after toggling power to the V7X and closing and re-opening the Vitrek Interface Control application.
- The Vitrek Interface Utility is a general utility allowing communications with several Vitrek products, the GPIB and Ethernet portions of this utility are not applicable to the V7X and should not be selected by the user.

Follow the steps below to install these files onto a computer and perform the upgrade –

1. Create a directory on the computer which will be used to hold the files from the zip file. The name and location are not important, but make a note of it for later use.
2. Unzip the contents of the zip file to the directory created in step #1 above.
3. If using a Windows version prior to 7 the user may need to install Microsoft .NET Framework 4 prior to using the application. If this framework is not installed then an error will be displayed when the application is attempted to be run. See the Microsoft website for details regarding this.
4. Using Windows Explorer, locate the Vitrek Interface Control.exe file in the directory and run it.

5. The program should run and have an opening window similar to that shown below –



6. To perform the upgrade the user must connect the V7X unit to the computer, using the RS232 or USB interface as applicable.
7. If using the RS232 interface –
    a. The CONFIG menu IFACE setting of the V7X must be set for RS232 @ 115200 baud.
    b. Connect the computer RS232 port to the V7X RS232 port using a Null Modem cable (available from Vitrek).
    c. In the INTERFACE SELECTION section of the Vitrek Interface Control application, select the RS232 interface, select the COM port being used and set for 115200baud and CTS/RTS handshake.
8. If using the USB interface –
    a. The CONFIG menu IFACE setting of the V7X must be set for USB.
    b. Connect the computer USB port to the V7X USB port using a standard USB 2.0 (or higher) AB type cable (available from Vitrek).
    c. If the V7X has not been connected via USB to the computer previously, then the computer will need to configure itself for the V7X USB interface. No driver is needed from Vitrek; however the computer will install a standard Windows HID driver to support the V7X which may take several seconds or more. This process must be allowed to complete before continuing this procedure.
    d. In the INTERFACE SELECTION section of the Vitrek Interface Control application, select the USB radio button, the adjacent pull-down box will then be populated with the serial

numbers of the V7X which have been detected as being connected to the computer. Ensure the correct unit serial number is selected before continuing.

9. In the INTERFACE SELECTION section of the Vitrek Interface Control application, click on the CONNECT button.
10. In the FILE section of the Vitrek Interface Control application, click on the … button. A dialog will open allowing you to select the file containing the firmware upgrade. Select the file entitled fwupgrade_sre.txt in the directory created in step #1 and click on the OPEN button in that window.
11. In the FILE section of the Vitrek Interface Control application, click on the SEND FILE button. The display on the V7X should show the progress of the upgrade and the progress bar in the FILE section of the Vitrek Interface Control application will also show the progress. NOTE –
    a. Depending on the interface being used, the file transfer may take several minutes to complete.
    b. After the file has transferred, the V7X displays a message showing that it is programming the firmware. DO NOT TURN OFF THE V7X POWER DURING THIS PROCESS. This may last for several seconds.
    c. After the V7X has completed the upgrade, the display reverts to that previously shown. Cycle the power to the V7X (turn it off and then back on again after a second or more).
12. This completes the firmware upgrade of the V7X.
13. The new version of firmware installed in the V7X can be seen on the UTILITIES menu of the V7X if desired.