Firmware update procedure for X-400 series products.

1. Requirements

The firmware update software requires a pc running windows XP or higher with the most recent .Net framework installed for that operating system.

2. Setup

When updating the X-400 series device, the device will use the default ip address of 192.168.1.2. The computer used to run the update software will need to be configured with an ip address on the same subnet (192.168.1.50 for example). This is the same procedure used to initially communicate with the X-400 series device when it comes from the factory. See the quick-start guide or users manual for the device for more information on configuring the PC.

Note: It might be necessary to clear the arp cache on the computer for the update to work. To do this open up a command prompt and type: arp -d. (In windows vista and higher, run the command prompt as an administrator.)

3. Update procedure

Once the pc has been configured on the same subnet as the default ip address 192.168.1.2, run the program bootloader.exe. Once started, select the file menu and open the firmware image to be loaded on the X-400 series device. (X410_V1.0.frm for example.) Before pressing the Upload Firmware button, the device must be placed into the bootstrap mode.

To place the device in bootstrap mode, hold the reset button on the device down while powering up the device. (To press the reset button, insert a thin object such as a toothpick through the small hole in the bottom of the unit.) Keep the reset button down until you have pressed the Upload Firmware button and the program says it is alright to release it.   When in bootstrap mode, the link and activity leds on the ethernet port will blink on and off continuously. If this does not occur, then the reset button was not held down correctly.

After loading the new firmware, the X-400 series device will be reset to the factory default values. This means you will still need to communicate with it using the IP Address 192.168.1.2, and configure it as if it were a new unit.

Note: Make sure to run the bootloader program from the same directory where the X-400 series firmware image files are. There are generally 2 firmware files with extensions .frm and .wpb. (X410_V1.0.frm and X410_V1.0.wpb for example.)