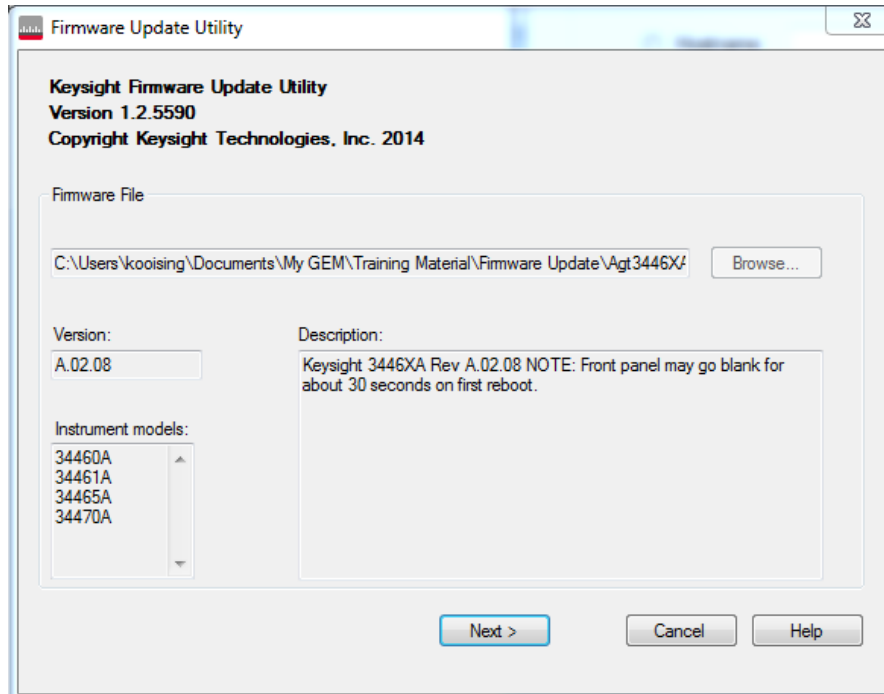


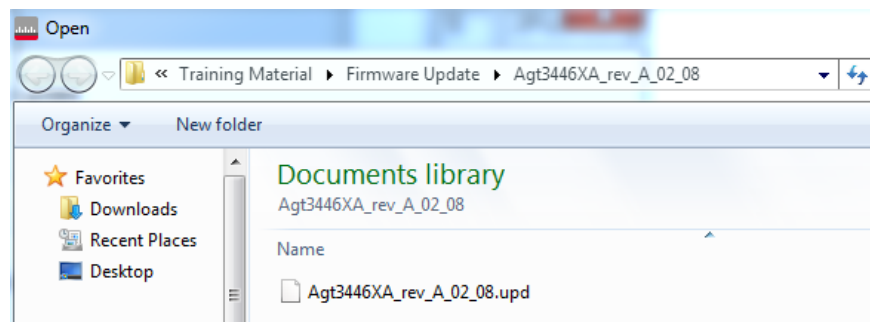
Front Panel USB Port Firmware Update Instructions

To perform 3446xA DMM firmware updates using a USB drive, files must be extracted from the standard .upd update file before the USB drive is inserted into 3446xA DMM front panel. Firmware updates are downloaded from the K.com webpage as zipped “.upd” files. To update the firmware from the USB drive, you must run the Firmware Update Utility to extract the “build.xml” and “Nk.bin” files onto the USB drive.

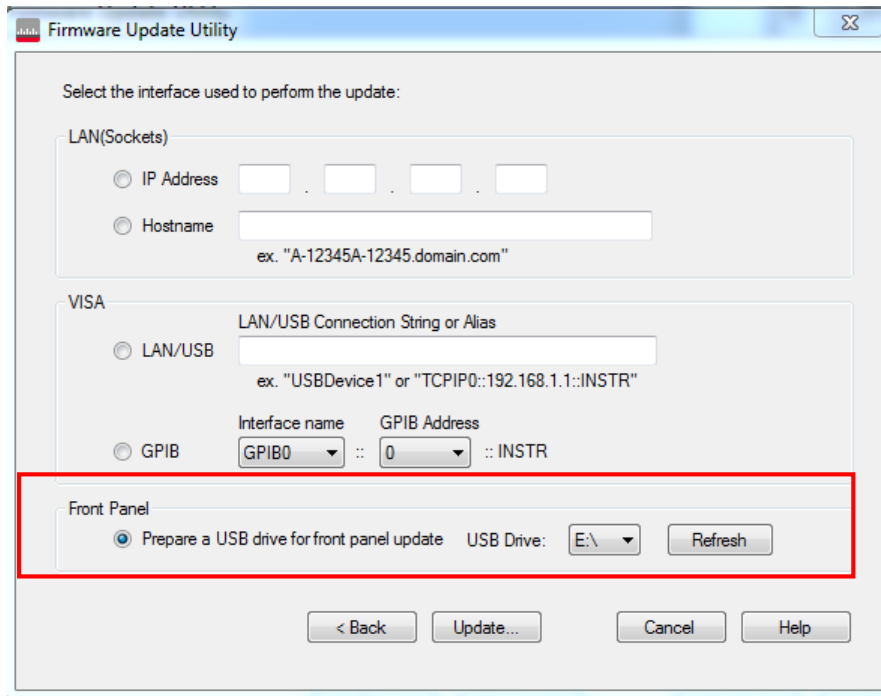
1. Run the Firmware Update Utility.



2. Click the “Browse” button to locate the (extracted) .upd file downloaded to the PC. For example, the extracted revision 2.08 upd file is “Agt3446XA_rev_A_02_08.upd”.

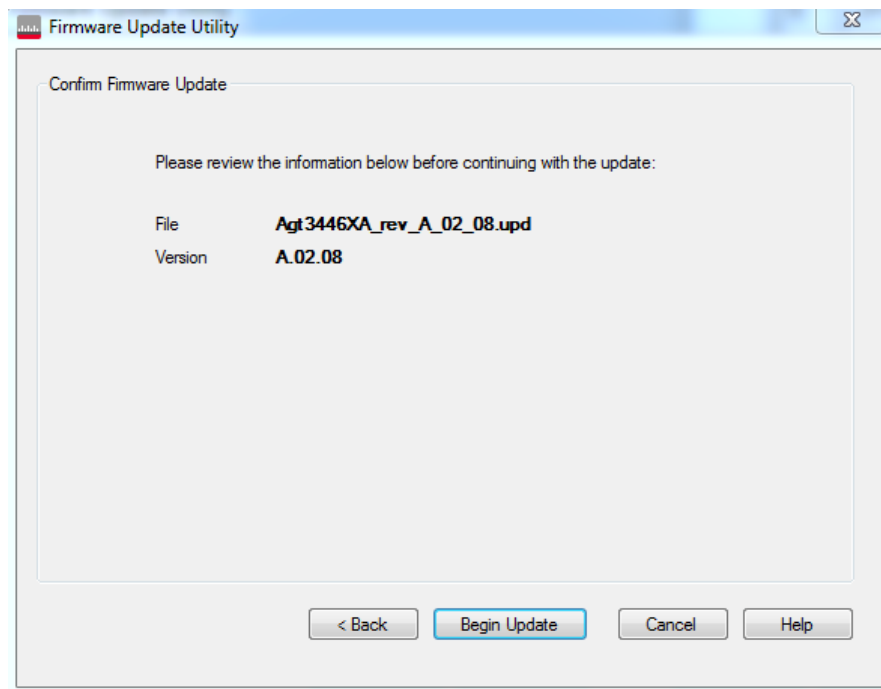


3. Click “Next” to proceed.
4. Insert a USB drive into the PC. Select “Front Panel” as the interface used to perform the firmware update. Click the “Refresh” button and select the location of the USB Drive (E:\) as shown below.



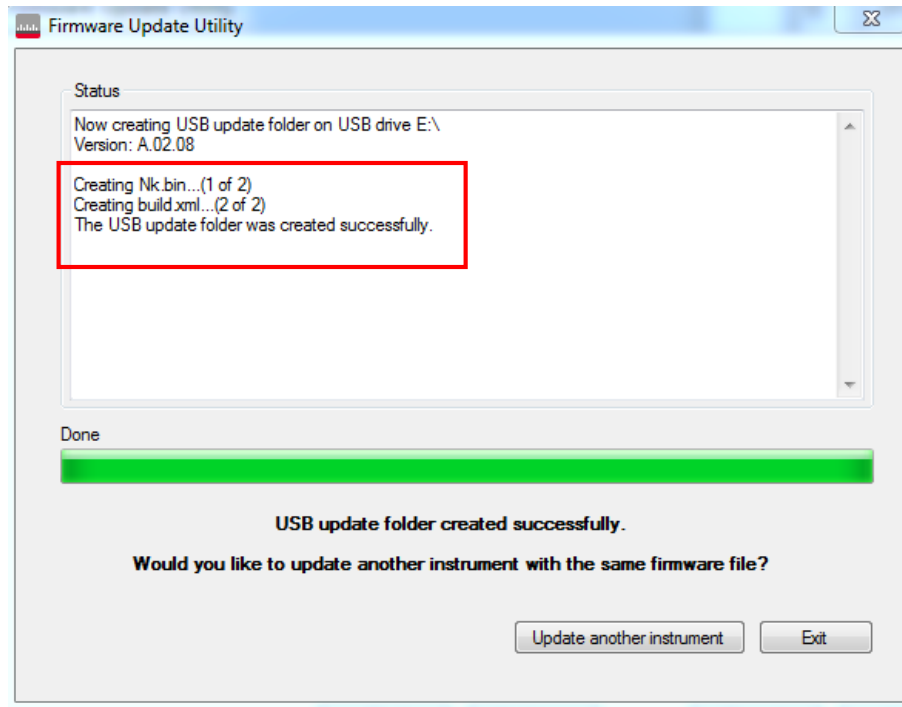
The image shows the 'Firmware Update Utility' window. It has a title bar with the text 'Firmware Update Utility' and a close button. The main area is titled 'Select the interface used to perform the update:'. There are three sections: 'LAN(Sockets)' with radio buttons for 'IP Address' (with four input fields) and 'Hostname' (with one input field and an example 'ex. "A-12345A-12345.domain.com"'); 'VISA' with radio buttons for 'LAN/USB' (with a text field and examples 'ex. "USBDevice1" or "TCPIP0::192.168.1.1::INSTR"') and 'GPIB' (with dropdowns for 'Interface name' set to 'GPIB0' and 'GPIB Address' set to '0', followed by ':: INSTR'); and 'Front Panel' with a radio button selected for 'Prepare a USB drive for front panel update', a 'USB Drive:' dropdown set to 'E:\', and a 'Refresh' button. At the bottom are buttons for '< Back', 'Update...', 'Cancel', and 'Help'. A red rectangle highlights the 'Front Panel' section.

5. Click "Update" after the refresh is complete.



The image shows the 'Confirm Firmware Update' window. It has a title bar with the text 'Firmware Update Utility' and a close button. The main area is titled 'Confirm Firmware Update'. Below the title is a text prompt: 'Please review the information below before continuing with the update:'. There are two lines of information: 'File' followed by 'Agt3446XA_rev_A_02_08.upd' and 'Version' followed by 'A.02.08'. At the bottom are buttons for '< Back', 'Begin Update', 'Cancel', and 'Help'.

6. Verify the firmware version to which you are updating. Click "Begin Update".
7. The message: "USB update folder created successfully" is displayed after the build.xml and Nk.bin files are extracted.



8. Note that the files are extracted to the USB update folder "**34461A**" on the drive. DO NOT rename this folder. The folder **must** be named **34461A** regardless of the model number (34460A, 34461A, 34465A, 34470A) updated.
9. Remove the USB drive from the PC and insert it in the DMM front panel USB port.
10. Begin firmware update by pressing: Shift – Utility – Test/Admin – Firmware Update
11. If your DMM contains security option SEC, unlock DMM with security code by pressing: Shift – Utility – Test/Admin – Security – Secure Code