SCADA 3000 Flash Reprogramming Instructions

This procedure will reprogram the internal program memory inside the SCADA 3000. It is very important that you read and follow all instructions within this procedure. Note that <u>this procedure will delete all programming from the unit</u> so be sure to have copies of all programming files and C/Ladder programs. In some cases you may need to reprogram the Flash memory more than once, so be sure to read the instructions carefully. If you have any questions please contact our Technical Support Department at (610)558-2700 x260. They will help you and answer any questions you may have. If you prefer, our technical support department can reprogram your unit(s) for you via modem. Call for details.

The reprogramming procedure you follow will depend upon which version of **Comm** firmware you are presently running. The steps below will assist in determining the version you presently have installed and which procedure to follow:

Steps for Reprogramming Flash Memory

1) Retrieve any data from the unit that you may need (e.g. data logs, event logs, programming files, etc.). <u>This upgrade will delete all programming, C/Ladder programs, voice messages, data logs, and event logs.</u> Make sure you have all of the information necessary to restore your unit's programming should that prove necessary.

2) Log in to the unit and select *Diagnostics>Processors* from the menu. Write down the Communications and Control Rom Version.

3) Follow the procedure below that corresponds to the Communications ROM Version you wrote down in Step 2.

For Communications ROM Version 1.55 or earlier:

If the unit has Communications ROM Version 1.55 or earlier, then flash in **Comm-160.hex**. To do this, select *Diagnostics>Flash Upgrade* from the menu. Click the *Select* button and choose the file **Comm-160.hex**, click *OK*. Next, under the heading *Select a Processor*, choose Communications ROM. Next, click the *Upload* button.

A warning message will appear letting you know that your programming will be erased. Click *OK* to proceed. The Flash file transfer will start. This will take a few minutes. After the file is completely loaded into the unit, the flash memory chip will be reprogrammed. The LCD display will indicate when the reprogramming is complete by reinitializing the unit. When the file is finished being transferred, you can click the *Logout* button. After the unit reinitializes, log back in and repeat this section but this time choose **Comm-451.hex** as the selected Hex file.

For Communications ROM Version 2.33:

If the unit has Communications ROM Version 2.33, then flash in **Comm-260.hex**. To do this, select *Diagnostics>Flash Upgrade* from the menu. Click the *Select* button and choose the file **Comm-260.hex**. Click *OK*. Then, under the heading *Select a Processor,* choose *Communications ROM*. Next, click the *Upload* button. A warning message will appear letting you know that your programming will be erased. Click *OK* to proceed. The Flash file transfer will start. This will take a few minutes. After the file is completely loaded into the unit, the flash memory chip will be reprogrammed. The LCD display will indicate when the reprogramming is complete by reinitializing the unit. When the file is finished being transferred, you can click the Logout button. After the unit reinitializes, log back in and repeat this section but this time choose **Comm-451.hex** as the selected Hex file.

For Communications ROM Version 3.00 or Greater:

If the unit has Communications ROM Version 3.00 or greater, then flash in **Comm-451.hex**. To do this, select *Diagnostics> Flash Upgrade* from the menu. Click the *Select* button and choose the file **Comm-451.hex**, click *OK*. Next, under the heading *Select a Processor*, choose *Communications ROM* (this may be selected automatically). Next, click the *Upload* button. A warning message will appear letting you know that your programming will be erased. Click *OK* to proceed. The Flash file transfer will start. This will take a few minutes. After the file is completely loaded into the unit, the flash memory chip will be reprogrammed. The LCD display will indicate when the reprogramming is complete by reinitializing the unit. When the file is finished being transferred, you can click the *Logout* button.

4) After you have successfully loaded **Comm-451.hex**, log in and flash the Control ROM with version **Cntrl-402.Hex**. To do this, select *Diagnostics> Flash Upgrade* from the menu. Click the *Select* button and choose the file **Cntrl-402.hex**, click *OK*. Next, under the heading *Select a Processor*, choose *Control ROM* (this may be selected automatically). Next, click the *Upload* button. A warning message will appear letting you know that your programming will be erased. Click *OK* to proceed. The Flash file transfer will start. This will take a few minutes. After the file is completely loaded into the unit, the flash memory chip will be reprogrammed.

The LCD display will indicate when the reprogramming is complete by returning to the normal scrolling mode. When the file is finished being transferred, you can click the *Logout* button.

5) The Flash memory reprogramming is finished. Your SCADA 3000 is presently set to factory default settings. Now you must log in and reprogram the unit with your S3K programming file, C/Ladder programs, voice messages, etc.

If you need assistance please call our Technical Support Department at 610-558-2700.