

Instructions for Firmware Upgrade

**Instructions for Upgrading
PAC8000 8521-LC-MT
PAC8000 8521-PC-MT
PAC8000 8521-HC-MT
PAC8000 8521-EB-MT
PAC8000 8521-RT-DE
PAC8000 8851-LC-MT (SafetyNet)
Firmware**

If You Need Help

Contact Global Care online at <http://support.ge-ip.com> or by one of the phone numbers given below.

Americas:

1-800-433-2682

780-420-2010 (if toll free 800 option is unavailable)

Europe, Middle-East, & Africa:

+800-1-433-2682

+352-26-722-780 (if toll free 800 option is unavailable or dialing from a mobile telephone)

Asia Pacific:

+86-400-820-8208

+86-21-3217-4826 (India, Indonesia & Pakistan)

Before You Begin

The revision of the *Important Product Information* (IPI) document for 8521-XX-XX or 8851-LC-MT that applies to this firmware upgrade is included in this upgrade kit. Please read the IPI to understand how the changes in this upgrade will impact your application.

CAUTION: For standard controllers, applications constructed for version 1.x firmware may perform and operate differently with version 2.x firmware. Before upgrading from 1.x firmware to 2.x firmware you should contact GE Intelligent Platforms customer support at the numbers above.

What You Will Need

- This firmware upgrade kit
- A Windows PC running Microsoft® Windows 2000/XP with the PAC8000 Workbench

The Installation Process

There are two steps to successful installation and usage of the firmware:

1. Installing the controller firmware on the computer
2. Upgrade the controller firmware

Installing the controller firmware on PC

1. Unzip the *FW_xxx (Part No yyyyyyy-zzzz-www-uuu).ZIP* file to the Workbench Temp folder. (For example: Unzip the 82A1739-MS10-001-A2.ZIP file to the Temp folder in Workbench installed directory i.e.\Control Center\Temp.)
2. From Windows Explorer navigate to the\Control Center\Temp folder of Workbench.
3. Execute the batch file (Example 85210209.BAT) provided with ZIP file by double clicking it.

Download an updated version of the Controller firmware

1. For additional information, refer to the PAC8000 Workbench Help on the Firmware Downloader.

The screenshot shows the Workbench interface with the Firmware Downloader tool. The main window has a left sidebar with a search bar and a list of components. The main area is titled 'Firmware Downloader' and contains instructions and a note. A smaller dialog box titled 'Firmware Downloader 02.02' is open, showing the following details:

Node: 82 SafetyCtrl2
Product: 8851 Safety AXE
Version: 01.11

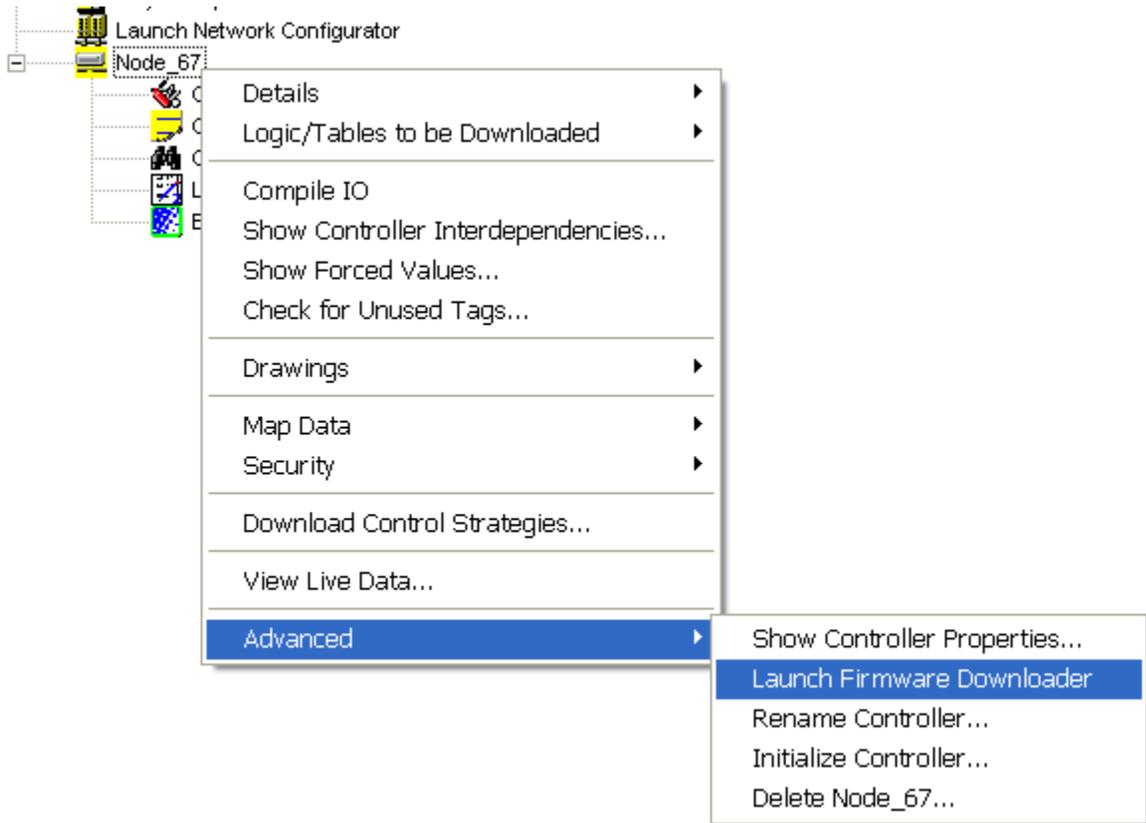
[A] Healthy Simplex [B] None

| Component | Current | New | Status |
|------------------------|---------|-------|--------------------------------|
| Safety AXE firmware | 01.11 | 01.11 | Download, hardware compatibili |
| Boot code | 01.03 | 01.03 | Up-to-date |
| Version Identification | 01.11 | 01.11 | Up-to-date |

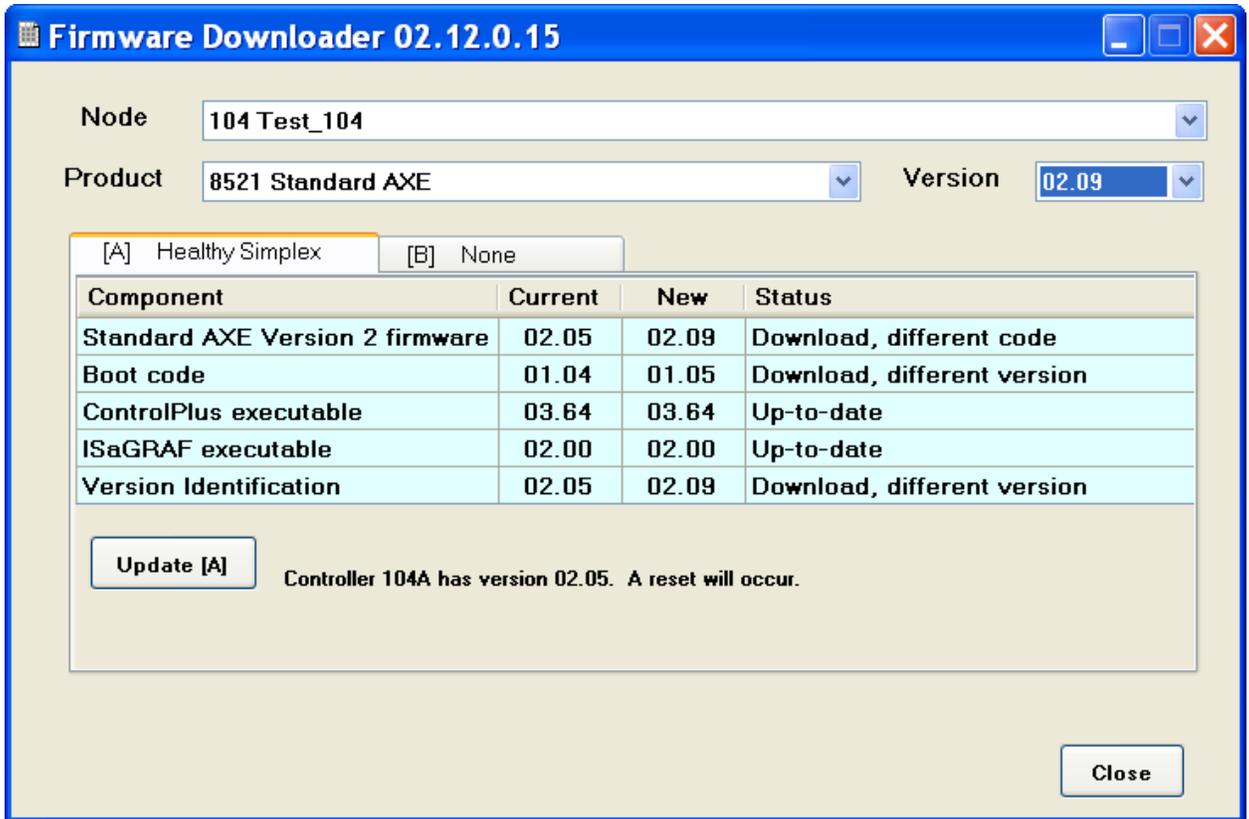
Update [A] Controller 82A has version 01.11. A reset will occur.

Close

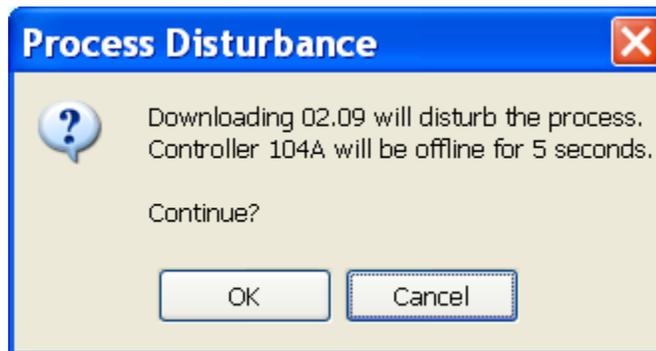
2. Launch the Firmware Downloader by right-clicking on the desired controller.



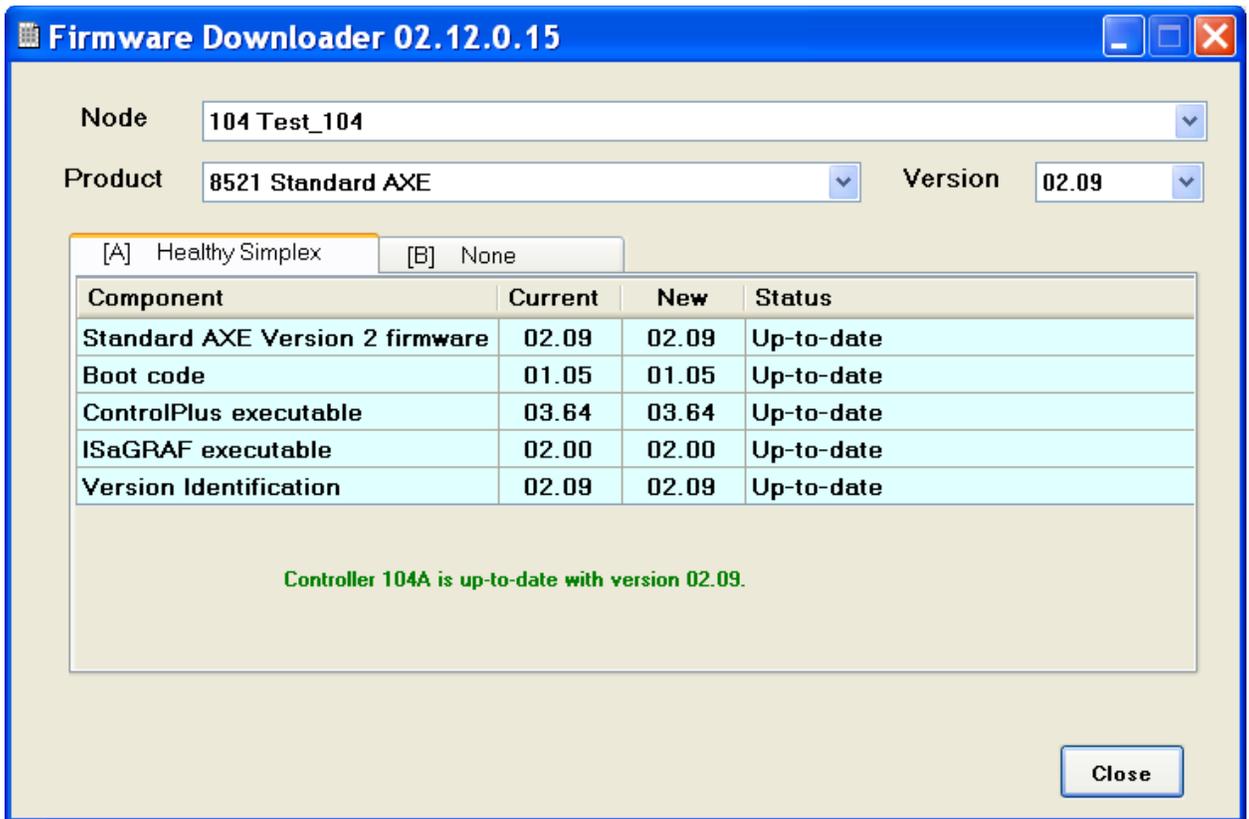
3. Select the correct node to update in the Node field.
4. Select the correct product to update in the Product field.
5. Select the new version of the firmware to download the controller.
6. Select Update.



7. Select OK if you like to start download process..



8. Select OK at Download successful window.



Common Causes of Failure

Download failure

The Workbench reports a download failure which could be caused by Ethernet connection problems, noise etc

REMEDY

Check the cabling and restart the download using Workbench download function.

Restarting an Interrupted Firmware Upgrade

If the upgrade process is interrupted for any reason (for example, a power failure or accidental cable disconnection), restart the download.