



SIPLUS CMS

SIPLUS CMS X-Tools
Firmware Update

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English

Release 2013-02

Safety Guidelines

This document contains notices which you should observe to ensure your own personal safety as well as to avoid property damage. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring to property damage only have no safety alert symbol.



Danger

Indicates an **imminently** hazardous situation which, if not avoided, will result in death or serious injury.



Warning

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Caution

Used with the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Caution

Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Notice

Used without the safety alert symbol indicates a potential situation which, if not avoided, may result in an undesirable result or state.

When several danger levels apply, the notices of the highest level (lower number) are always displayed. If a notice refers to personal damages with the safety alert symbol, then another notice may be added warning of property damage.

Qualified Personnel

The device / system may only be set up and operated in conjunction with this documentation. Only qualified personnel should be allowed to install and work on the equipment. Qualified persons are defined as persons who are authorized to commission, to earth, and to tag circuits, equipment and systems in accordance with established safety practices.

Intended Use

Please note the following:



Warning

This device and its components may only be used for the applications described in the catalog or technical description, and only in connection with devices or components from other manufacturers approved or recommended by Siemens.

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Disclaimer of Liability

We have checked the contents of this document for agreement with the hardware and software described. Since deviations cannot be precluded entirely, we cannot guarantee full agreement. However, the data in the manual are reviewed regularly, and any necessary corrections will be included in subsequent editions. Suggestions for improvement are welcomed.

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Technical data subject to change

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1 Preface

1.1 Purpose of this Document

This operating instruction supports you to update the firmware of Interface Nodes (IFNs) of the SIPLUS CMS4000 system.

1.2 Validity of this Document

This document is valid for the following devices:

- IFN AI
- IFN VIB-A

Hereinafter the devices are called *IFNs*.

1.3 Audience

This document is intended for personnel involved in the commissioning and using of the devices:

- IFN AI
- IFN VIB-A

1.4 Definitions

The following definitions are used within this document:

Begriff	Beschreibung
CMM	Communication Module (= board which communicates with the PC)
IFM	Interface Module (= board which operates the device-specific signal acquisition)
IFN	Interface Node
IFN AI	Interface Node for acquisition of analog signals
IFN VIB-A	Interface node for acquisition of vibration signals
X-Tools	PC-software for administration, acquisition, visualization, analysis and storage of <i>IFN</i> data

2 Firmware Update

2.1 General

The firmware update of the **IFNs** will be carried out directly via SIPLUS CMS4000 X-Tools with version V 03.02 or higher.

Every **IFN** consists of two modules with different firmware, which can be programmed one after another. The firmware of both modules can be programmed independent and in any order. If new versions for both modules shall be transferred, it has to be ensured that the CMM firmware is always updated first and then the IFM firmware.

With X-Tools, it is not possible to transfer a wrong firmware to a device, because within the firmware update dialog only the compatible .fwu files are shown.

During the firmware update make sure that the connection between X-Tools and the device is not interrupted.

2.2 Preparations

The firmware of the **IFNs** is provided as .fwu file. The file names consist of the module type („CMM“ or „IFM“) and the version of the contained firmware. Examples:

- CMM UDM V 01.06.EN.0000.fwu
- IFM AI V 01.02.EN.0000.fwu

The .fwu files have to be copied in the following directory of X-Tools:

- ..\Server\System\Bin\Modules\DME

Start X-Tools afterwards to carry out the update. The .fwu files can be changed/added/deleted during the runtime of X-Tools, in this case X-Tools adopts the changes without a restart.

2.3 Update of the CMM firmware

Carry out the following steps to update the CMM firmware:

- Make sure that the corresponding .fwu file is present in the right directory.
- Start X-Tools.
- Open the Device Management System.
- Select the **IFN** whose CMM firmware should be updated.

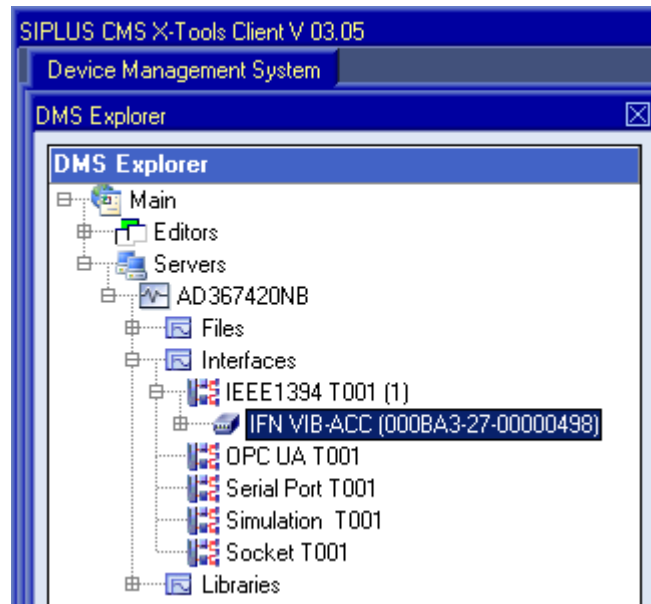


Figure 1: Selecting the target device for the update of the CMM firmware

- Press <Shift> + <Alt> + <A> to open the Firmware Update Dialog for the selected device.
 - The dialog shows the currently existing firmware versions in the upper table.
 - In the lower table within the „Module Type“ combo box it can be chosen if the CMM or the IFM firmware should be updated. In addition within the „New Firmware Version“ combo box it can be chosen which firmware version should be installed, if several matching .fwu files are present.

- Choose „CMM (Communication Module)“ as „Module Type“ and the desired firmware version to be installed.

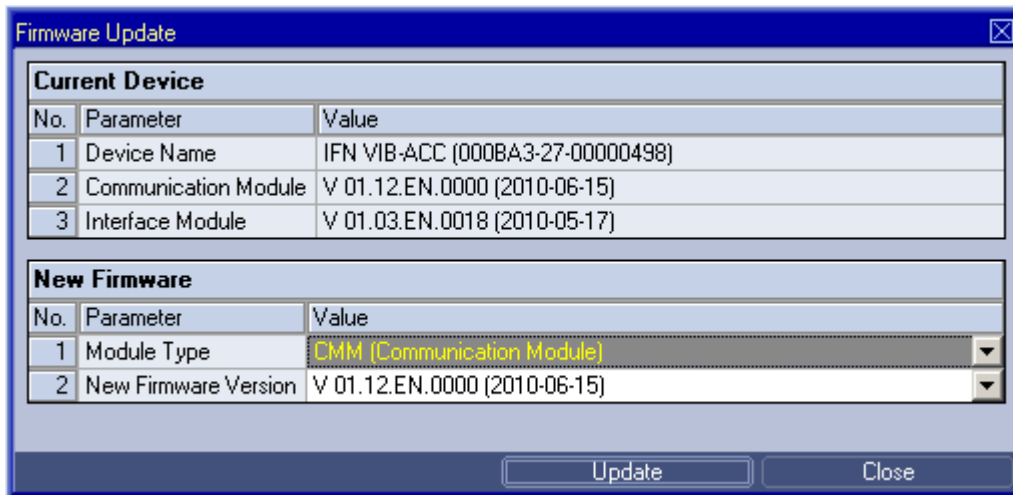


Figure 2: Choice of the CMM firmware versions to be installed

- Afterwards press „Update“.
 - The Firmware Update Dialog will be closed and the status of the firmware update will be shown in the System Log Viewer.

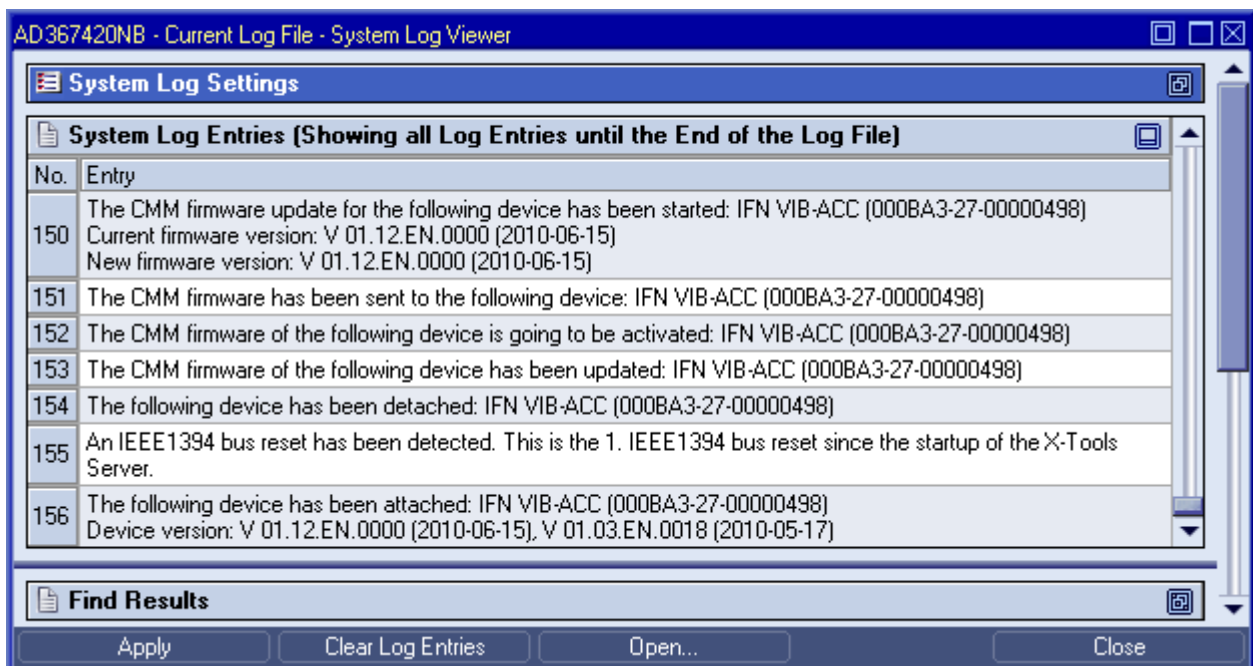


Figure 3: Log entries during the update of the CMM firmware

- The update of the CMM firmware lasts less than one minute. After this the device operates normally immediately again.

2.4 Update of the IFM firmware

Carry out the following steps to update the IFM firmware:

- Make sure that the corresponding .fwu file is present in the right directory.
- Start X-Tools.
- Open the Device Management System.
- Select the **IFN** whose IFM firmware should be updated.

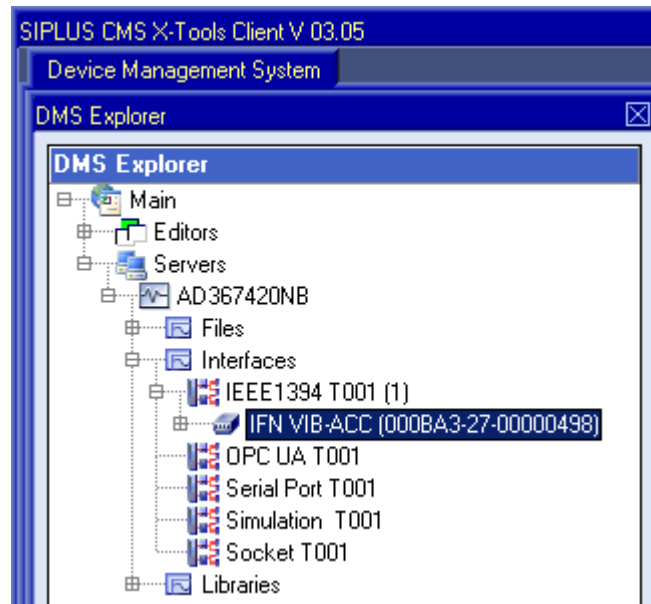


Figure 4: Selecting the target device for the update of the IFM firmware

- Press <Shift> + <Alt> + <A> to open the Firmware Update Dialog for the selected device.
 - The dialog shows the currently existing firmware versions in the upper table.
 - In the lower table within the „Module Type“ combo box it can be chosen if the CMM or the IFM firmware should be updated. In addition within the „New Firmware Version“ combo box it can be chosen which firmware version should be installed, if several matching .fwu files are present.

- Choose „IFM (Interface Module)“ as „Module Type“ and the desired firmware version to be installed.

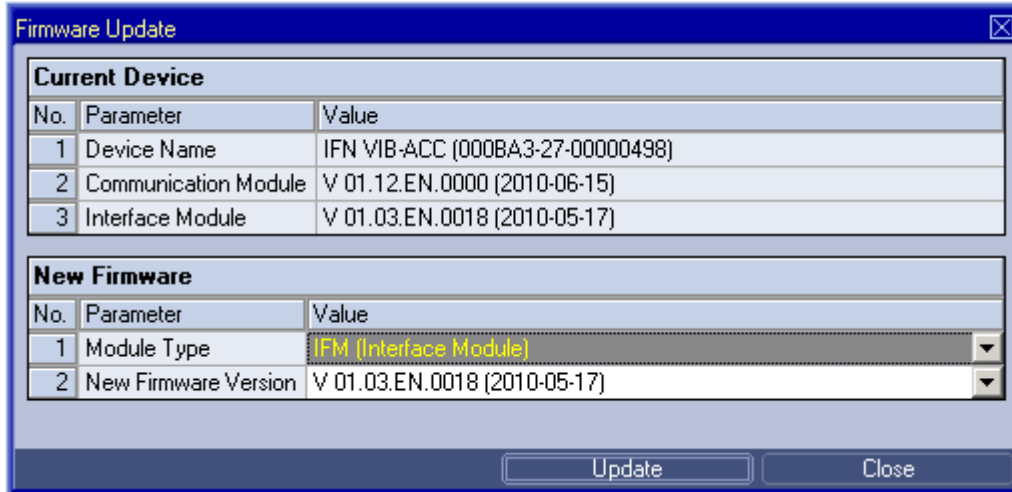


Figure 5: Choice of the IFM firmware versions to be installed

- Afterwards press „Update“.
 - The Firmware Update Dialog will be closed and the status of the firmware update will be shown in the System Log Viewer.

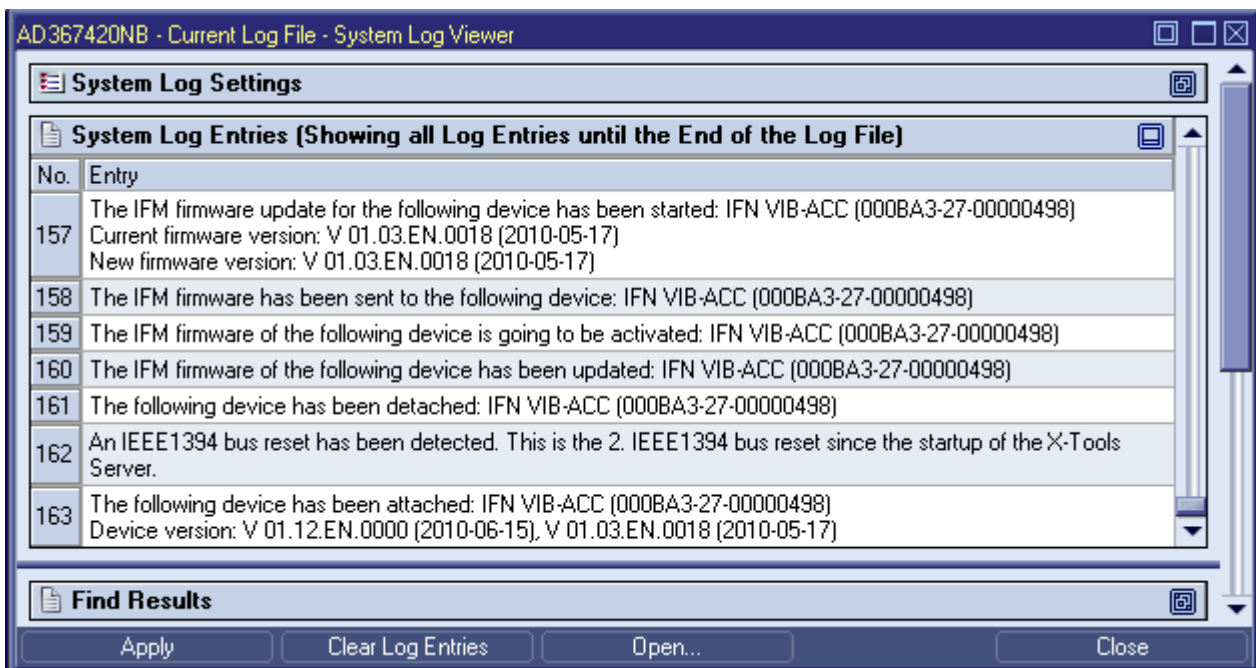


Figure 6: Log entries during the update of the IFM firmware

- The update of the IFM firmware lasts less than one minute. After this the device operates normally immediately again.

3 Contact Information

Contact person and place of delivery:

Technical Assistance	Abt.	I IA CE MMS 1
	Tel	+49 (0)911 895 5900
	Mail	mailto:technical-assistance@siemens.com
	Internet	http://www.siemens.de/siplus-cms

Place of delivery:	I IA CE Fth W
Org-ID:	10001539