SIEMENS

Configuration Instructions • 09/2016

Firmware Download with SINEMA Server for SCALANCE via TFTP

SINEMA Server V13 SP 1



https://support.industry.siemens.com/cs/ww/en/view/10974013

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1 Introduction

1.1 Overview

Requirement

The firmware of the SCALANCE devices X-200(IRT) / X-300 / X-400 / W-700abg (with the "VxWorks operating system) is to be updated to the latest version. This procedure should run as efficiently as possible for multiple SCALANCE devices.

Possible solution

One possible way of meeting this requirement is to use SINEMA Server and the communications protocol TFTP.

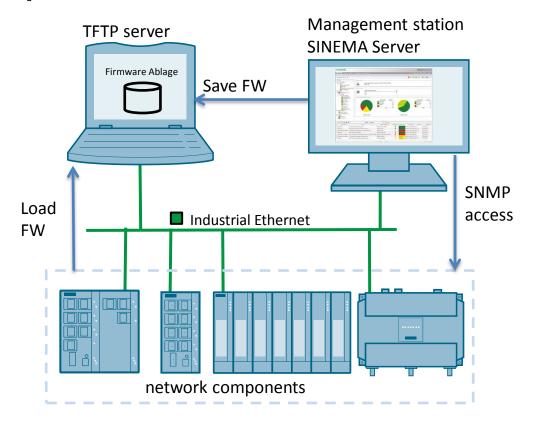
Implementation

This document shows how to use SINEMA Server to download the firmware to SCALANCE devices via TFTP. You do this manually or have it planned (in other words only in desired time windows).

1.2 Function

The figure below shows the principle function of the solution.

Figure 1-1



1.3 Components Used

Software component

The following software is required for this solution:

Table 1-1

Software	Article number / Designation
SINEMA Server V13 SP1	DVD:
	6GK1781-1BA13-0AA0 [50 nodes]
	6GK1781-1DA13-0AA0 [100 nodes]
	6GK1781-1JA13-0AA0 [250 nodes]
	6GK1781-1TA13-0AA0 [500 nodes]
	Download (Online Support):
	6GK1781-1BA13-0A K 0 [50 nodes]
	6GK1781-1DA13-0A K 0 [100 nodes]
	6GK1781-1JA13-0A K 0 [250 nodes]
	6GK1781-1TA13-0A K 0 [500 nodes]
- Internet Explorer 10.0	These browser versions represent the minimum
- Firefox 42.0	requirements. You can also use higher versions
- Google Chrome 30.0	of the browsers.

Install this software on a PC/PG.

- Windows 7 SP1 64-bit (Prof, Ult., Ent)
- Windows 2008 Server R2 SP1 64-bit

Compatible devices

These instructions are valid for all X-200(IRT) / X-300 / X-400 / W-700abg with the "VxWorks operating system, which support the firmware update via TFTP server.

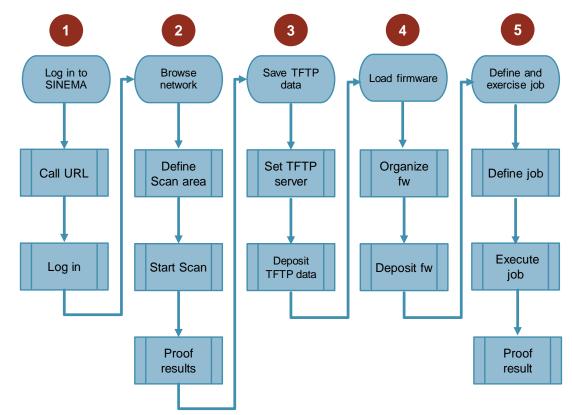
The assignment of the article numbers to the firmware versions and the current firmware file are given in the Siemens Industry Online Support (for the link see Chapter 4).

2 Engineering

2.1 General Overview

The figure below shows the principle for implementing the task in 5 steps.

Figure 2-1



2.2 Configuration

2.2.1 Useful Notes

Network access

Access via the network to the SCALANCE devices to be upgraded is required to do a firmware update.

Firmware file

The latest firmware file for the SCALANCE devices can be downloaded in the Siemens Industry Online Support (for the link see Chapter 4).

Devices used

The configuration instructions below are for upgrading a SCALANCE X208 and a SCALANCE X308-2LD Switch to the latest version of the firmware.

Current firmware version (21.07.2016):

- X208: V5.2.1 (https://support.industry.siemens.com/cs/de/de/view/109736251)
- X308: V4.0.4 (https://support.industry.siemens.com/cs/de/de/view/109736245)

The IP parameters below were assigned to the switches. Table 2-1

Component	Article number	IP address	Subnet mask
SCALANCE X208	6GK5 208-0BA10-2AA3	172.16.9.45	255.255.255.0
SCALANCE X308-2LD	6GK5 308-2FM00-2AA3	172.16.9.46	255.255.255.0

2.2.2 Log in to SINEMA Server

1. Start your browser and enter the SINEMA Server URL in the address line. Use the default URL <u>https://localhost</u> if SINEMA has been re-installed or a system recovery has been made.

INICO-VM - SINEMA Server ×					
(Inttps://localhost	C Q, Search	☆自	♥ ↓	A 9	≡
SIEMENS User name Password Login with	Administrator CO-VM Forgot the password?	3	Login		
SINEM	IA SERVER V13				

Use the user-specific URL, <u>http://localhost:80</u>, for example, if the HTTP Port 80 has been enabled in the SINEMA Server monitor.

HTTP port 80 🚔	Find free port	enabled	
HTTPS port 443 🚔	Find free port	🗹 enabled	
Create new HTTPS certificate	Create		
OPC Server			
OPC UA port 4841 🚔	Find free port	🔽 enabled	
OPC DA		🔽 enabled	
Server-Server-communication			
RPC port 4770 🚔	Find free port		
SNMP Traps			
Windows trap service	SINEMA Server	trap service	

- 2. Log into SINEMA Server with the login data below. Default login data:
 - User name: Administrator
 - Password: SinemaA

User-specific login data:

.

- User name: <...>
- Password: <...>

1 2 3 SIEMENS 0.31 1. (4)5 1 Kopfbereich 4 Gerätebaum 2 5 Navigationsleiste Hauptfenster ③ Statuszeile 6 Ereignisliste

Result: The home page of SINEMA Server is displayed.

2.2.3 Browse Network

Set network scan range

- 1. In the menu bar you switch to the menu "Administration > Discovery > Scan".
- 2. Under "IP address areas for network scan" you select the item named "SN_Subgroup_0".
- 3. Click the "Edit IP address area" item of double-click the selected item.

SIEMENS							SINEM	A Server V13
Home Administration Serve							Logged-on user: Adm	hinistrator Logout
Discovery > Monitoring > Event								
You are here: Administration > Discove	ry≻Scan I≣							09 0 I ?
3 12	Scan Profiles							
 Ø Overall status Ø Local 	H. H. K.							· ·
Ø Devices Ø All devices	P address areas fo							
D IP address								
D PROFINET device name Ø Grouped	📑 🧷 🗙 🔳		Nodes to scan o					
Device category D Vendor		Status =	First address 172.16.0.1			Name	No. of nodes	65534
4 💋 Views		Land	172.16.0.1	17.2.10.209.208	SN SUBIRUD C			
								-
	-DCP network adapt	er for device scan-						
	4							
		Status '		IP addre		N	ame	
				172.16.1.6		ntel(R) PR0/1000 MT Network Con		

4. In the dialog that opens you specify the IP address range that includes the SCALANCE devices to be upgraded and click the "Active" check box to enable the specified IP address range.

5. Confirm your entries by clicking the "Save" button.

Name First address No. of nodes	SN_Subgroup_0 172.16.9.50 2	Active Last address	172.16.9.51	
---------------------------------------	-----------------------------------	---------------------	-------------	--

Start network scan

Then click the "Start scan" icon to start the scanning process.

► Home - Administration ► Serv					
- Discovery > Monitoring > Even					
You are here: Administration > Discove	rery > Scan 📕				
Overall status Devices	Scan Profiles				
 All devices IP address 	IP address areas	for network scan—			
PROFINET device name	🔹 🧷 🗙 🛽		🔍 🔍 Nodes ti	o scan 2	
 Grouped Device category 	🔲 🔤 Status 🗢	First address	Last address	Name	No. of nodes
D Vendor		172.16.9.50	172.16.9.51	SN_Subgroup_0	
🔺 🎾 Views					

Cancel

OK

Note

If the dialog below opens, confirm with the "OK" button.

Devi	ce discovery	×
•	Scan with DCP not possible. At least one DCP adapter should be active).

Check scan result

Check whether SINEMA Server has found the SCALANCE devices to be upgraded. All the devices found are displayed in the device tree on the left: "Devices > All devices"

	Dev	rices Ir	terfaces						
🌾 Overall status									
4 🌾 Local	_								
V (2)	1	🖉 at 🐔	*	C	· · · · · · · · · · · · · · · · · · ·				
Devices All devices (2)] Status	IP address 🗢	PROFINET device name	Device type	MAC address	Firmware version	Total ports	Used por
IP address]	172.16.9.50	x-dkp1-x208-9d-dc	SCALANCE X208 (0BA10-2AA3)	00:0E:8C:A2:9D:DC	V05.02.01	8	
PROFINET device name			172.16.9.51	x-dkp1-x308-2ld-ea-3c	SCALANCE X308-2LD (2FM00-2AA3)	00:0E:8C:A7:EA:3C	V3.9.3	10	
 Image: Comparison of Comparison									

2.2.4 Store TFTP Data

SINEMA Server does not have its own TFTP server.

To be able to download the firmware to the SCALANCE devices you have to install a TFTP server or access an existing TFTP server.

As soon as firmware file is entered in SINEMA Server it is stored on the TFTP server.

Note No concrete TFTP server is named below. The settings are valid for all TFTP servers.

Parameterize the TFTP server

Start the TFTP server and assign it the proper IP address, in other words make sure that the TFTP server IP can be reached by all the SCALANCE devices to be upgraded.

If necessary, you have to enable the TFTP server in the Windows firewall, by default for incoming traffic at Port 69 UDP.

Store the TFTP server in SINEMA Server

- 1. In SINEMA Server you switch to the menu "Administration > Jobs".
- 2. Click the "Cogwheel" icon to get to the menu for the basic job settings.

 ▶ Home ▶ Topology ▶ Reports ▶ Discovery ▶ Monitoring ▶ Event 			Server ov ► My s		+ Jobs						
You are here: Administration > Jobs	12										
	* 🗟 🖉	×	*	► I			C				Y
 Ø Overall status Ø Local 			Descr	iption		Job type	Status	Type of execution		Task	
 ✓ OK (2) ✓ Devices ✓ Al devices (2) ✓ P Address ✓ PROFINET device name ✓ Grouped ✓ Device category ✓ Switch (2) ✓ Vendor ✓ Sismens AG (2) 	Job: Onl	ne syst	em back	up of SIN	EMA Server	System backup	Pending	Every n days	1		

3. Switch to the "Firmware download" tab and under "Basic settings" you enter the IP address and the port of the TFTP server to be used.

Basic settings	rmware download CLI Events			
Basic settings				
-	170.00.0			_
Basic settings— TFTP server	172.16.1.6	Port	69	

Note The IP address and port of the TFTP server are written to the device. This is why you have to enter the "correct" IP of the TFTP server. A loopback IP address like 127.0.0.1, for example, is not permitted.

2.2.5 Download Firmware into SINEMA Server

Organize firmware file

Download the firmware file required for upgrading your SCALANCE device from the Siemens Service & Support website (for the link see Chapter 4).

Download firmware file into internal storage

1. In SINEMA Server you click the "Add new firmware file" icon.

Asic settings Firmware download CLI	Events			
Basic settings TFTP server 172.16.1.6 Number of retries 1		Port Time between retries	69 30	seconds
Firmware files and compatible article numbers	C		Yentified firmware versic Cop	by status TFTP serve
# ■ % % □	14 « Page o	of0 ⇒ ≥18 ▼		No records to vie

2. Navigate to where you want to store the firmware file for the SCALANCE device to be upgraded and select it. Then click the "Open" button.

▼ → FW → Anleitung → FW → X200V2_v5.2.1			▼ ⁴ y Search X.	200V/2_v5.2.1		۵
e 🕶 New folder					1	
Name	Date modified	Туре	Size			
▲ FWL File (1)						
X200V2_V5.2.1.006.fwl	31.03.2016 12:06	FWL File	2.783 KB			
File name: X200V2_V5.2.1.006.fwl			✓ Alle Dateie	n (*.*)	•	1
			Open		ncel	ו
			open			

3. In the "Edit firmware file" window that opens, under "Basic settings" you specify the appropriate firmware version (V5.2.1 in the example). Click the "Add new article number" icon.

Edit firmware file				2
Basic settings				
Firmware version 5.2.1		Identified firmware version	5.2.1	
Default firmware		Description	X200V2_V5.2.1.006	
Compatible article numbers				
		1		
Add new article number Article number			Description	
* 6 * * 0	IN IN Page 0	of0 🕨 🖬 8 💌		No records to view

4. In the "Article number" and "Description" fields you specify the article number and description respectively for the selected firmware version and then click the "OK" button.

Specify the article number for the firmware file							
Basic data Article number Description	6GK5 208-0BA10-2AA3 X208						
	er can be specified. Article numbers of Siemens a following format: XXXX XXX-XXXXX-XXXXX (e.g.: 6GK5						
	Cancel OK						

5. Finally you click the "Save" button to download this firmware file into the internal firmware storage of SINEMA Server.

		Identified firmware version	5.2.1		
ault firmware 🔲		Description	X200V2_V5.2.1.006		
mpatible article numbers					
* 🥖 🗙	(*				
Article number		Description			
6GK5 208-0BA10-2AA3	X208				

 Repeat the steps above for each other firmware file. In the example, firmware version V5.2.1 was uploaded from SINEMA server for the X208 and firmware version V4.0.4 for the X308-2LD.

Cancel Save

7. To finish click the "Save" button and the firmware files are downloaded from the internal firmware storage of SINEMA Server to the TFTP server.

Basic s	ettings Firm	ware download	CLI Eve	nts			
—Basi	c settings						
	server	172.16.1.6			Port	69	
Numl	per of retries	1			Time between retrie	s 30	seconds
– Firm	ware files and co	mpatible article n	umbers ———				
*	🧷 🗙 🔳	1		C		• 7	
	Default firmw		are version	Description	Article number		Copy status TFTP serve
	Delault IImw	5.2.1		X200V2 V5.2.1.006	6GK5 208-0BA10-2AA3		Success
		4.0.4		k∨404008	6GK5 308-2FM00-2AA3		Success
		4.0.4		1111101000	0010 300 21 1000 27 4 0	1.0.4	0000000
4	🗄 to to 🗅			ra <a 1<="" page="" td=""><td>of 1 🕨 🖬 8 👻</td><td></td><td>View 1 - 2 of 2</td>	of 1 🕨 🖬 8 👻		View 1 - 2 of 2
·							

Note The "Copy status TFTP server == Success" column shows you that the firmware files have been copied successfully to the TFTP server.

2.2.6 Firmware Download to the SCALANCE Device

Preparation

The writing of SNMP values must be enabled on the SCALANCE devices to be upgraded.

For this the parameter "SNMPv1/v2c - Read Only" must be disabled. You can set this parameter in any SCALANCE X via the menu: "Agent > SNMP Config". The factory setting is that the parameter "SNMPv1/v2c - Read Only" is already disabled.

It is preferable to use only the secure SNMP version V3 for write access.

(i) 172.16.9.50/index1.htm	nl		
SIEMENS			
Console Sup	port = Logout	S	IMATIC NET
Power CPU Port Status F RM P1 P5 L1 P2 P6 L2 P3 P7 P4 P8		SIMATIC NET Ind	ustrial Ethernet Switch SCALANCE X208 sysName Not Set
<u>×208</u>	Agent SNMP Configuration		
± 🗀 <u>Sγstem</u>			_
₽° 🚞 X208		MP Enabled	_
₽ 🔁 <u>Agent</u> □ □ □ □ <u>Ping</u>	SNMPv1/v2/v3	SNMPv3 Only	
SNMP Config	s	MPv1/v2c	
I Trap Config	Read Only		
Groups	Read Community Str	ing: public	
■ <u>Users</u> ■ <u>Timeout Config</u>	Read/Write Community Str		
Event Config		ing. private	
🗄 🧰 <u>Time Config</u>			
PNIO Config			
■ Management ACL ■ <u>Switch</u>			

Configure firmware download job

1. In SINEMA Server you navigate to the menu item "Administration > Jobs". Click the "Add new job" icon.

▶ Home ▶ Topolog	y ▶ Reports	🗕 Administra	ation 🕨 S	Server overview	
			▶ System		🛨 Jobs
You are here: Admini	stration > Jobs	II.			
* 🕼 🖉 🗙	۰ ک				
Add new job	Description			Job type	

- Navigate to the "Basic settings" tab. In the "Description" field you specify a name of your choice for the job. <u>In the example:</u> Description = "FW-Update X208_X308-2LD"
- 3. As Job type you select = "Firmware download (and optional activation)".

asic settings Job	type specific settings Devices		
Basic data			
ID		Status	
Description	FW-Update X208_X308-2LD	Tasks	
Description Type of execution	FW-Update X208_X308-2LD Manual 🗸	Tasks Job type	Firmware download (and optiona

4. Navigate to the "Job type specific settings" tab. For "Run firmware activation" you select "Immediately after the firmware download to a device" and for "Use following firmware" you select "Newest firmware".

B	asic settings Job type specific settings Devices	
	Settings for firmware download	
	-	
	Maximum number of tasks performed at the same time	1
	Run firmware activation	After the firmware downloads for all devices have been made
		Immediately after the firmware download to a device
		Do not execute
	Use following firmware	Default firmware
		Newest firmware
	In the case of an error	Continue with following tasks
		Do not run following tasks
	Configuration backup on TFTP server	
	3 1	

Note

It is recommended to save the configuration files of the SCALANCE devices to be upgraded on the TFPT server ("Configuration backup on TFTP server").

In particular before running firmware downgrades it is useful to save the configuration file, because device configurations might get lost under circumstances.

5. Switch to the "Devices" tab. From the list of available devices (left side) you select the SCALANCE devices to be upgraded and add them to the job by clicking the "Move selected devices to view" arrow.

pasic set	ttings Job type spe	ecific settings D	evices								
- Availab	ble devices				7	Device	s in job (in order	of processing) —			
	٦			7		Ø	1.	C		-	7
	IP address 🗢	Device name	Device type	Current firm			Seq. no. 🗢	IP addres	s	Device name	Device t
2 17	72.16.9.50	sysName Not Set	SCALANCE X20	18 \/05.02.01							
2 17	72.16.9.51	sysName Not Set	SCALANCE X30	18 V3.0.0							
					4						
					\rightarrow						
					Mo	ve selecte	d devices to view				
									_		
		m				<					•
-											

- **Note** To select multiple devices in SINEMA Server you must hold down the CTRL key and select the required devices by mouse-click.
- **Note** When using the 21-day Trial License the firmware update is limited to one device.
 - 6. As soon as the SCALANCE devices to be upgraded have been added to the job (visible on the right side) you can define the processing order in the right window. You do this using both arrows.
 - 7. Save the job by clicking the "Save" button.

Available	e devices					Devices in jol	b (in order of p	rocessing)			
	C	24	-	7		🥒 🕆 🖡		C		•	7
	IP address 🗢	Device name	Device type	Current firm		Seq. n	Move down	Device	Device type	Current firr	Firmware
						☑ 1			CALANCE X208		
						2	172.16.9.51	sysNanS	CALANCE X308	3 V3.0.0	Newest FW
					4						
					+						
					\rightarrow						
					-						
•						4					۱.
	6 6 B					× 8 6 9	5 B				
								D : 1			-
Total	0	Displayed 0	Selected	0		Total	2	Displayed	2	Selected	1

Execute job

Select the job you have just created: "FW-Update X208_X308-2LD". To start this job you click "Play" button ("Run selected jobs").

▶ Home ▶ Topology ▶ Reports	→ Ad	Iminis	tratio	n 🕨 S	Gerver ov	erview											
	Discovery Manitoring Events User System My settings Jobs																
You are here: Administration > Jobs																	
41	ž	ها ۲	Ì	×	۰.		Ш	ц,						୯			- 7
🔺 🎾 Overall status					Descr	iptic R	un se	electe	d jol	bs		Job type		Status	Type of execution		Task
 	🗹 FW-Upd		Jpda	te X208	e X208_X308-2LD				Firmware download	Pending	Manual	2					
 Ø Devices 		Job:	Onlir	ie syste	em back	up of S	SINE	MA S	Serv	er	Syst	em backup		Pending	Every n days	1	
All devices (2)																_	
IP address																	
PROFINET device name Image: A grouped																	
 Orouped I Device category 																	
Switch (2)																	
 Vendor 																	
Siemens AG (2)																	
🔺 🎾 Views																	

Monitor execution

•

After a job has been executed you get a status display of all the tasks:

- 1st number = Number of tasks in the job
- 2nd number (green) = Number of tasks successfully executed
 - 3rd number (red) = Number of failed tasks (if detectable)
- 4th number (gray) = Number of tasks with unknown result (no feedback)

Description	Job type	Status	Type of execution	Task
FW-Update X208_X308-2LD	Firmware download	Finished	Manual	2(2/0/0)

Note SINEMA Server proceeds as below for consecutive downloading of the firmware:

- 1. The device restarts after enabling of the firmware.
- 2. After the restart the availability of the device is checked and the current firmware version queried.
- 3. Based on this result the status "Success" or "Failure" is set for the current task.
- 4. Then the next task is triggered.

In addition, for each job you can have the result displayed per device.

1. For this you select the job "FW-Update X208_X308-2LD" and click the "Edit selected job" icon (or double-click the job).

 Home > lopology > Reports 	Administration Server overview							
	ing + Evants + User + System + My settings - Jobs							
You are here: Administration > Jobs	IE .							
4 H	🔹 🗟 🖉 🗙 🔹 🕨 🖩 😼			C	•	7		
🔺 🎾 Overall status	Edit selected job tion	Job type	Status	Type of execution	Task	Started on 🗣	Finished on	
 Local V OK (2) 	FW-Update X208_X308-2LD	Firmware download	Finished	Manual	2(2/0/0)	2016-07-22 07:34:30	2016-07-22 07:40:04	
OK (2) OK (2)	Job: Online system backup of SINEMA S	erv System backup	Finished	Every n days	1	2016-07-22 05:00:01	2016-07-22 05:03:03	
 All devices (2) 								
IP address								
PROFINET device name								

 In the selected job "FW-Update X208_X308-2LD" you switch to the "Devices" tab. In the "Status" column you can see the result of the job with device granularity.

Devices					
4		C	•		
9		N	• 1		
Seq. no.	IP address	Device name	Device type 🗢	Current firmware version	Status
 Seq. no. 1 	IP address 172.16.9.50			Current firmware version V05.02.01	Status Firmware activation finished

Detailed results of the job are also display in the [Event list]. This is in the lower area of the SINEMA Server screen.

1	1 2 3 1	E (*	· 7
3	Event class	Event	Event details
0	info:	Job status: job execution completed	Job ID: 111, description: Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), task status: 1 (0 / 1 / 0)
2	Warning	Task status: task execution failed	Job ID: 111, description: Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), cause of error: No matching hsp and firmware file available
63	indó	Job status: job execution completed	Job ID: 112, description; Copy of Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), task status: 1 (0 / 1 / 0)
	Warning	Task status: task execution failed	Job ID: 112, description; Copy of Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), cause of error: No matching hsp and firmware file availa
8	nfo	Task status: task execution started	Job ID: 112, description: Copy of Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), user: Administrator
5	nto	Task status: task execution started	Job ID: 111, description: Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), user: Administrator
21	nto	Job status: job execution started	Job ID: 112, description: Copy of Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), user: Administrator
1	nto	Job status: job execution started	Job ID: 111, description: Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), user: Administrator
5	info	Job status: job created	Job ID: 112, description: Copy of Copy of FW-DL X204 RNA, job type: Firmware download (and optional activation), user: Administrator
		Job status: job created	Job ID: 111. description: Copy of FW-DL X204 RNA, job type; Firmware download (and optional activation), user: Administrator

Note

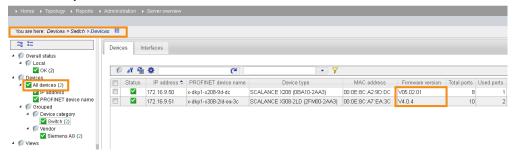
Each job / task generates specific results.

• Each event might under circumstances be useful for troubleshooting.

Result:

•

If the "correct" firmware versions (V05.02.01 and V4.0.4) are displayed in the device list of SINEMA Server, then the firmware update has been executed successfully.



Note More information is available in the SINEMA Server Operating Instructions (page 228 onwards): <u>https://support.industry.siemens.com/cs/ww/de/view/109482957</u>

3 History

Table 3-1

Version	Date	Change
V1.0	09/2016	First edition

4 Literature

Table 4-1

	Торіс
\1\	Siemens Industry Online Support https://support.industry.siemens.com
\2\	Download page of the entry https://support.industry.siemens.com/cs/ww/en/view/10974013