



FAQ-0G1C95UE • 03/2016

Startdrive: Canceling an upload

SINAMICS G120/G120D/G120C/G120P/G110M with CU2x0x-2



<https://support.industry.siemens.com/cs/ww/en/view/109482582>

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1 General

Question

When attempting to upload the parameter settings of a converter/inverter in Startdrive, why is the procedure canceled with the "Firmware not identical" error message?

Cause

The firmware version of the configured SINAMICS drive must be the same as the firmware version (FW V) of the CU of the drive.

Remedy

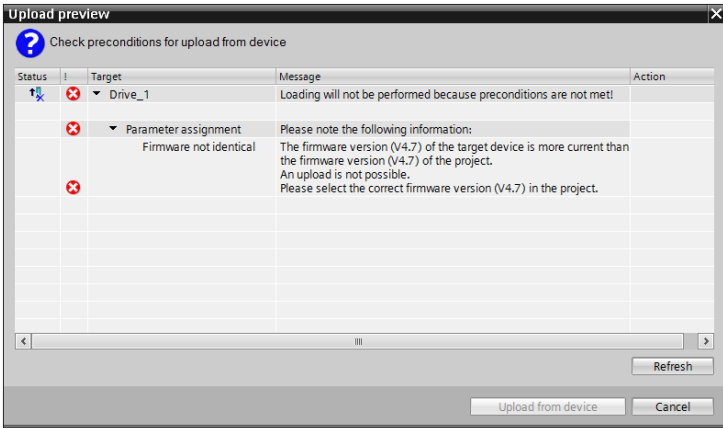
The correct firmware version (FW V) should be selected in the project. Please find the FW V in parameter r0018 (or r0964).

The online as well as the offline help are described in the following chapter.

2 "Firmware not identical" error message when uploading

Note Ensure that the firmware version of the configured drive matches the firmware version in the drive online!

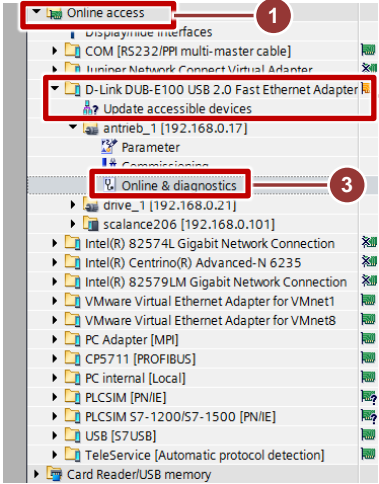
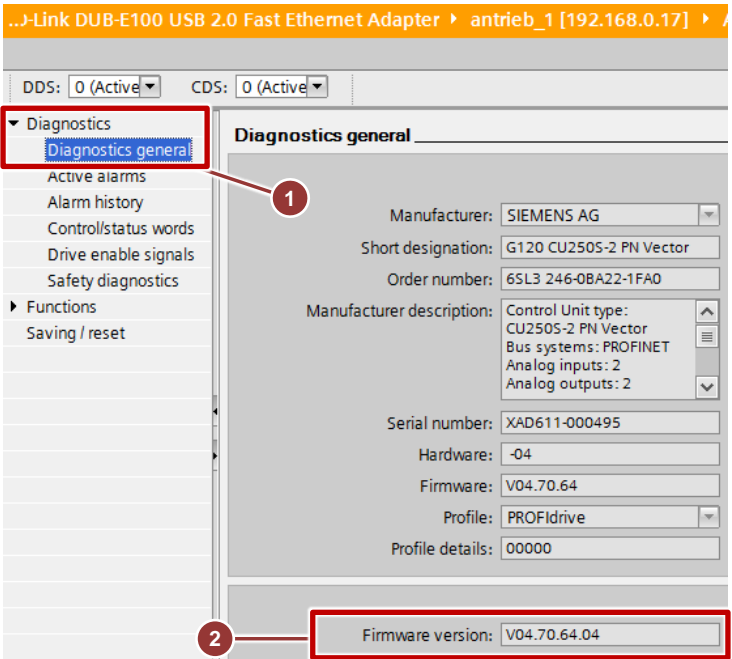
Table 2-1

Step	Activity	Screenshot																
1	<p>When attempting to upload the parameter settings of a converter/inverter the procedure is canceled with the "Firmware not identical" error message.</p> <p>The error message refers to firmware version V4.7 of the target device and firmware version V4.7 of the project.</p>	 <p>The screenshot shows a dialog box titled "Upload preview" with a question mark icon and the text "Check preconditions for upload from device". Below this is a table with columns for Status, Target, Message, and Action. The table contains three rows of error information:</p> <table border="1"> <thead> <tr> <th>Status</th> <th>Target</th> <th>Message</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>❌</td> <td>Drive_1</td> <td>Loading will not be performed because preconditions are not met!</td> <td></td> </tr> <tr> <td>❌</td> <td>Parameter assignment</td> <td>Please note the following information:</td> <td></td> </tr> <tr> <td></td> <td>Firmware not identical</td> <td>The firmware version (V4.7) of the target device is more current than the firmware version (V4.7) of the project. An upload is not possible. Please select the correct firmware version (V4.7) in the project.</td> <td></td> </tr> </tbody> </table> <p>At the bottom of the dialog box, there are buttons for "Refresh", "Upload from device", and "Cancel".</p>	Status	Target	Message	Action	❌	Drive_1	Loading will not be performed because preconditions are not met!		❌	Parameter assignment	Please note the following information:			Firmware not identical	The firmware version (V4.7) of the target device is more current than the firmware version (V4.7) of the project. An upload is not possible. Please select the correct firmware version (V4.7) in the project.	
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3 Checking the firmware version online in the drive

3.1 Read out the firmware version in the diagnostics menu

Table 3-1

Step	Activity	Screenshot
1	<p>Check the firmware version of the drive online:</p> <ol style="list-style-type: none"> In the project navigation, open "Online access". Open the PG/PC interface being used and double-click on "Update accessible devices". For the drive that is found, double click on "Online & diagnostics" to open it. 	
2	<ol style="list-style-type: none"> Open "Diagnostics" followed by "Diagnostics general". Read out the drive firmware version online under "Firmware version". Firmware version with internal coding V04.70.64.xx corresponds to firmware version V4.7 SP3 or V4.7.3 in the project. 	

3.2 Reading out the firmware version via parameter

Table 3-2

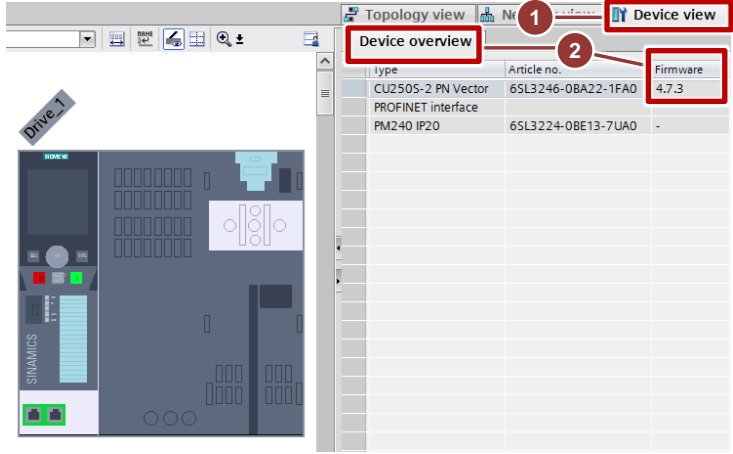
Step	Activity	Screenshot
1	<p>Alternatively, you can read out the drive firmware version in parameter r0018¹:</p> <ol style="list-style-type: none"> In the project navigation, open "Online access". Open the PG/PC interface being used and double-click on "Update accessible devices". For the drive that is found, double click on "Online & diagnostics" to open it. 	<p>The screenshot shows a project navigation tree. The 'Online access' folder is selected and highlighted with a red box and a red circle labeled '1'. Below it, the 'D-Link DUB-E100 USB 2.0 Fast Ethernet Adapter' folder is double-clicked, also highlighted with a red box and a red circle labeled '2'. Underneath, the 'Parameter' folder is selected, highlighted with a red box and a red circle labeled '3'. The tree also shows other folders like 'COM [RS232/PPi multi-master cable]', 'antrieb_1 [192.168.0.17]', and various network and PC adapters.</p>
2	<ol style="list-style-type: none"> Open the "Parameter view" tab Select "All parameters". Read out the drive firmware version online in parameter r0018. Firmware version with internal coding V04.70.64.xx corresponds to firmware version V4.7 SP3 or V4.7.3 in the project. 	<p>The screenshot shows the 'Parameter View' window. The 'Parameter View' tab is selected and highlighted with a red box and a red circle labeled '1'. The 'All parameters' filter is selected in the 'Display standard parameters' dropdown, highlighted with a red box and a red circle labeled '2'. The parameter list shows 'r18 Control Unit firmware version' with a value of '4706404', highlighted with a red box. Other parameters like 'r2 Drive operating display' and 'r15 Macro drive unit' are also visible.</p>

¹ Please refer to r0964 Device identification

4 Testing the firmware version in the offline project

4.1 Check the firmware version in the device overview

Table 4-1

Step	Activity	Screenshot												
1	9. Open the drive device view in the offline project. 10. Check the firmware version of the configured drive in the device overview.	 <p>The screenshot shows the 'Device overview' window in SIMATIC Manager. It contains a table with the following data:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Article no.</th> <th>Firmware</th> </tr> </thead> <tbody> <tr> <td>CU250S-2 PN Vector</td> <td>6SL3246-0BA22-1FA0</td> <td>4.7.3</td> </tr> <tr> <td>PROFINET interface</td> <td></td> <td></td> </tr> <tr> <td>PM240 IP20</td> <td>6SL3224-0BE13-7UA0</td> <td>-</td> </tr> </tbody> </table>	Type	Article no.	Firmware	CU250S-2 PN Vector	6SL3246-0BA22-1FA0	4.7.3	PROFINET interface			PM240 IP20	6SL3224-0BE13-7UA0	-
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4.2 Check the firmware version in the properties

Table 4-2

Step	Activity	Screenshot
1	<p>11. Alternatively, you can check the firmware version of the configured drive under properties. Open the "Properties" tab.</p> <p>12. Click on "General".</p> <p>13. Check the firmware version of the configured drive.</p>	

Note

If the firmware versions in the drive and in the project differ, then the drive must be configured with the same firmware version in the project.

Example

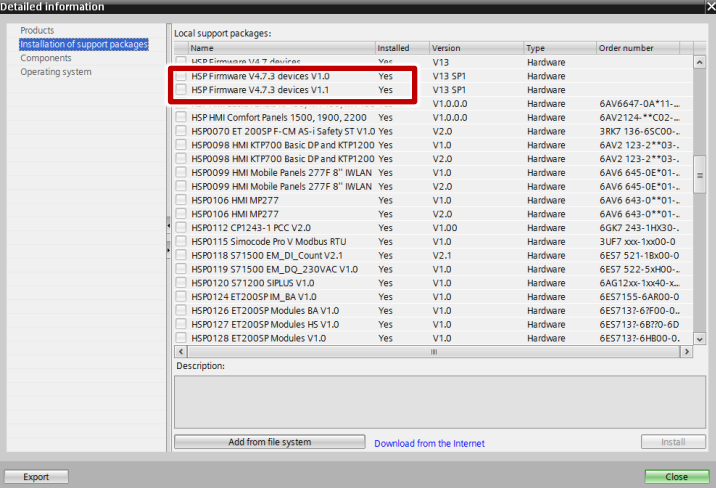
Firmware version in the drive online: V04.70.64.xx corresponds to V4.7 SP3.

In the project, the drive must be configured with firmware version V4.7.3.

Please find mapping information regarding the firmware version under Entry-ID [67364620](#)

5 Checking and installing HSP

Table 5-1

Step	Activity	Screenshot																																																																																																									
1	<p>If you cannot configure the drive with the required firmware version from the hardware catalog, check whether the corresponding Hardware Support Packages (HSP) are installed:</p> <p>Open menu "Extras -> Support Packages" and check the installed HSP.</p>	 <table border="1" data-bbox="635 450 1353 936"> <thead> <tr> <th>Name</th> <th>Installed</th> <th>Version</th> <th>Type</th> <th>Order number</th> </tr> </thead> <tbody> <tr> <td>siemens V4.7 device</td> <td>Yes</td> <td>V13</td> <td>Hardware</td> <td></td> </tr> <tr> <td>HSP Firmware V4.7.3 devices V1.0</td> <td>Yes</td> <td>V13 SP1</td> <td>Hardware</td> <td></td> </tr> <tr> <td>HSP Firmware V4.7.3 devices V1.1</td> <td>Yes</td> <td>V13 SP1</td> <td>Hardware</td> <td></td> </tr> <tr> <td>HSP HMI Comfort Panels 1500, 1900, 2200</td> <td>Yes</td> <td>V1.0.0.0</td> <td>Hardware</td> <td>6AV6647-0A*11-...</td> </tr> <tr> <td>HSP0070 ET 200SP F-CM AS-i Safety ST V1.0</td> <td>Yes</td> <td>V2.0</td> <td>Hardware</td> <td>3RK7 136-65C00-...</td> </tr> <tr> <td>HSP0098 HMI KTP700 Basic DP and KTP1200</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6AV2 123-2**03-...</td> </tr> <tr> <td>HSP0098 HMI KTP700 Basic DP and KTP1200</td> <td>Yes</td> <td>V2.0</td> <td>Hardware</td> <td>6AV2 123-2**03-...</td> </tr> <tr> <td>HSP0099 HMI Mobile Panels 277F 8" IWLAN</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6AV6 645-0E*01-...</td> </tr> <tr> <td>HSP0099 HMI Mobile Panels 277F 8" IWLAN</td> <td>Yes</td> <td>V2.0</td> <td>Hardware</td> <td>6AV6 645-0E*01-...</td> </tr> <tr> <td>HSP106 HMI MP277</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6AV6 643-0**01-...</td> </tr> <tr> <td>HSP106 HMI MP277</td> <td>Yes</td> <td>V2.0</td> <td>Hardware</td> <td>6AV6 643-0**01-...</td> </tr> <tr> <td>HSP0112 CP1243-1 PCC V2.0</td> <td>Yes</td> <td>V1.00</td> <td>Hardware</td> <td>6GK7 243-1HX30-...</td> </tr> <tr> <td>HSP0115 Simocode Pro V Modbus RTU</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>3UF7 xxx-1xx00-0</td> </tr> <tr> <td>HSP0118 571500 EM_DL_Count V2.1</td> <td>Yes</td> <td>V2.1</td> <td>Hardware</td> <td>6ES7 521-1Bx00-0</td> </tr> <tr> <td>HSP0119 571500 EM_DL_Count V1.0</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6ES7 522-5X400-...</td> </tr> <tr> <td>HSP0120 571200 SIRLUG V1.0</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6AG12xx-1xx40-x...</td> </tr> <tr> <td>HSP0124 ET200SP IM_BA V1.0</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6ES7155-6AR00-0</td> </tr> <tr> <td>HSP0126 ET200SP Modules BA V1.0</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6ES7133-67F00-0...</td> </tr> <tr> <td>HSP0127 ET200SP Modules H5 V1.0</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6ES7133-6B700-6D</td> </tr> <tr> <td>HSP0128 ET200SP Modules V1.0</td> <td>Yes</td> <td>V1.0</td> <td>Hardware</td> <td>6ES7133-6HB00-0...</td> </tr> </tbody> </table>	Name	Installed	Version	Type	Order number	siemens V4.7 device	Yes	V13	Hardware		HSP Firmware V4.7.3 devices V1.0	Yes	V13 SP1	Hardware		HSP Firmware V4.7.3 devices V1.1	Yes	V13 SP1	Hardware		HSP HMI Comfort Panels 1500, 1900, 2200	Yes	V1.0.0.0	Hardware	6AV6647-0A*11-...	HSP0070 ET 200SP F-CM AS-i Safety ST V1.0	Yes	V2.0	Hardware	3RK7 136-65C00-...	HSP0098 HMI KTP700 Basic DP and KTP1200	Yes	V1.0	Hardware	6AV2 123-2**03-...	HSP0098 HMI KTP700 Basic DP and KTP1200	Yes	V2.0	Hardware	6AV2 123-2**03-...	HSP0099 HMI Mobile Panels 277F 8" IWLAN	Yes	V1.0	Hardware	6AV6 645-0E*01-...	HSP0099 HMI Mobile Panels 277F 8" IWLAN	Yes	V2.0	Hardware	6AV6 645-0E*01-...	HSP106 HMI MP277	Yes	V1.0	Hardware	6AV6 643-0**01-...	HSP106 HMI MP277	Yes	V2.0	Hardware	6AV6 643-0**01-...	HSP0112 CP1243-1 PCC V2.0	Yes	V1.00	Hardware	6GK7 243-1HX30-...	HSP0115 Simocode Pro V Modbus RTU	Yes	V1.0	Hardware	3UF7 xxx-1xx00-0	HSP0118 571500 EM_DL_Count V2.1	Yes	V2.1	Hardware	6ES7 521-1Bx00-0	HSP0119 571500 EM_DL_Count V1.0	Yes	V1.0	Hardware	6ES7 522-5X400-...	HSP0120 571200 SIRLUG V1.0	Yes	V1.0	Hardware	6AG12xx-1xx40-x...	HSP0124 ET200SP IM_BA V1.0	Yes	V1.0	Hardware	6ES7155-6AR00-0	HSP0126 ET200SP Modules BA V1.0	Yes	V1.0	Hardware	6ES7133-67F00-0...	HSP0127 ET200SP Modules H5 V1.0	Yes	V1.0	Hardware	6ES7133-6B700-6D	HSP0128 ET200SP Modules V1.0	Yes	V1.0	Hardware	6ES7133-6HB00-0...
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Note

If the necessary HSPs for the SINAMICS drives in your Startdrive (TIA Portal) installation are missing, then you can download these under Entry ID: [68034568](#) and install them.

Under Entry ID: [54163658](#) you will find a description of the procedure describing how you can update the hardware catalog of your Startdrive (TIA Portal) installation.

6 History

Table 6-1

Version	Date	Modifications
V1.0	02/2016	First version
V1.1	03/2016	Insert r0964