SINAMICS
Intelligent Operator Panel (IOP)

Firmware and Software Update Instructions



Edition: March 2015

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1. Firmware and Software Update Instructions

1.1 Limitations

The following limitations apply to the Firmware and Software Update of the SINAMICS Intelligent Operator Panel (IOP):

1. The IOP (6SL3255-0AA00-4JA_) should only be connected to a standard USB port on the PC.
2. This version of the IOP Updater is compatible with the Windows XP and Windows 7 32 bit and 64 bit operating systems.
3. You need Admin rights on your PC account to install the USB-driver for the update procedure.
4. The IOP Updater must be started from a local drive.
5. Your Windows must provide .NET from version 4.5.1

1.2 Important Notes

With the Firmware V1.5 SP1 a new IOP USB-Driver is provided. This driver must be installed before the firmware update can be performed. The firmware update driver installation procedure detailed in chapter 2 ”IOP USB-Driver Installation Steps”.

Caution:
During the firmware update the IOP and a SINAMICS Control Unit may not be simultaneously connected via USB to the PC.

1.3 Support of different SINAMICS IOP Hardware versions

IOP-Order-No.	IOP-Version	Supported IOP-Firmware	Supported USB Interface	Supported Operating System Environment for Upgrading the IOP
6SL3255-0AA00-4JA0	A02	V1.1 – V1.5.x	USB V1.1	Windows XP
	A03	V1.1 – V1.5.x	USB V1.1	Windows XP
	A04	V1.1 – V1.5.x	USB V1.1	Windows XP
	A05	V1.1 – V1.5.x	USB V1.1	Windows XP
	A06	V1.1 – V1.5.x	USB V1.1/ V2.0	Windows XP, Windows 7 32 Bit
	B01	V1.1 – V1.5.x	USB V1.1/ V2.0	Windows XP, Windows 7 32 Bit
	B02	V1.1 – V1.5.x	USB V1.1/ V2.0	Windows XP, Windows 7 32 Bit
6SL3255-0AA00-4JA1	A01	V1.1 – V1.5.x	USB V1.1/ V2.0	Windows XP, Windows 7 32 Bit
	B01	V1.1 – V1.5.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/ 64 Bit
	C01	V1.1 – V1.5.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/ 64 Bit

The IOP currently does not Support USB V3.0. This can be identified by the blue connector.

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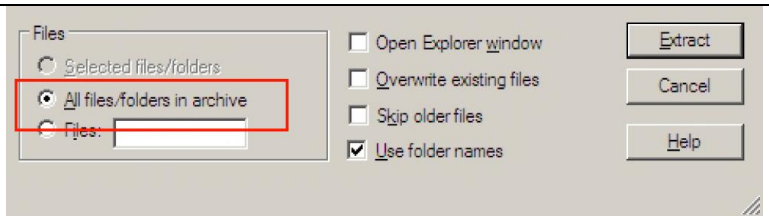
1.4 Software Downloads for SINAMICS IOP

The SINAMICS IOP Upgrades and Language Packages are available on the Internet:

http://support.automation.siemens.com/WW/view/en/67273266

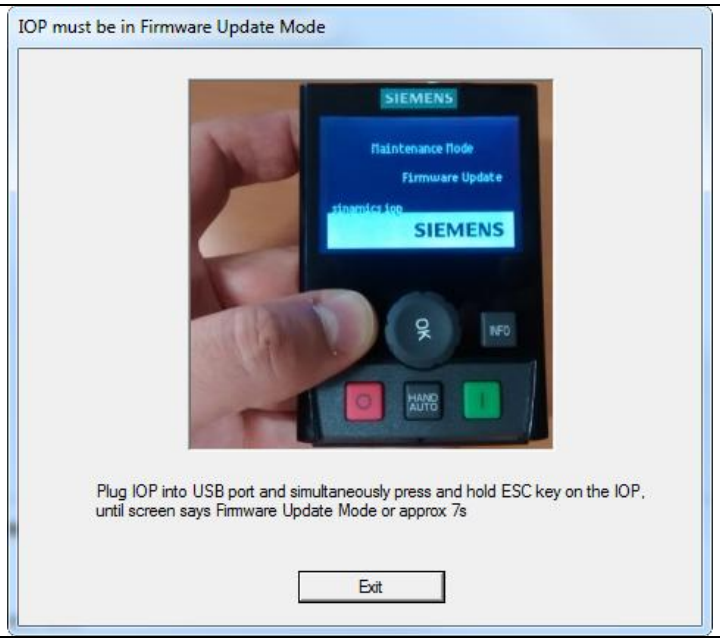
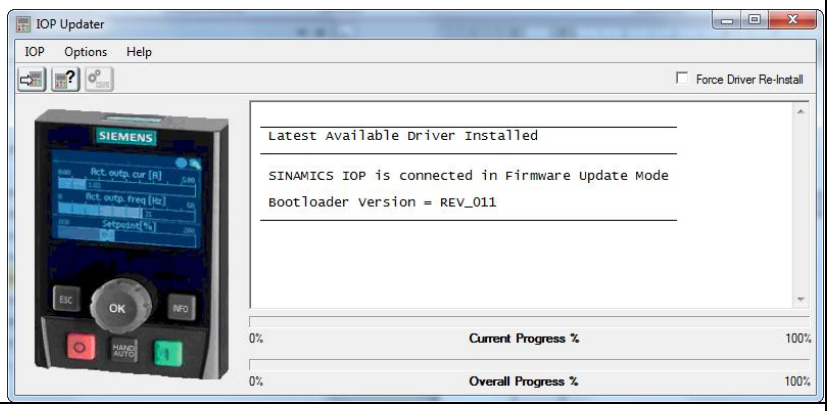
1.5 Extracting the software

To extract the files, the following procedure should be performed:

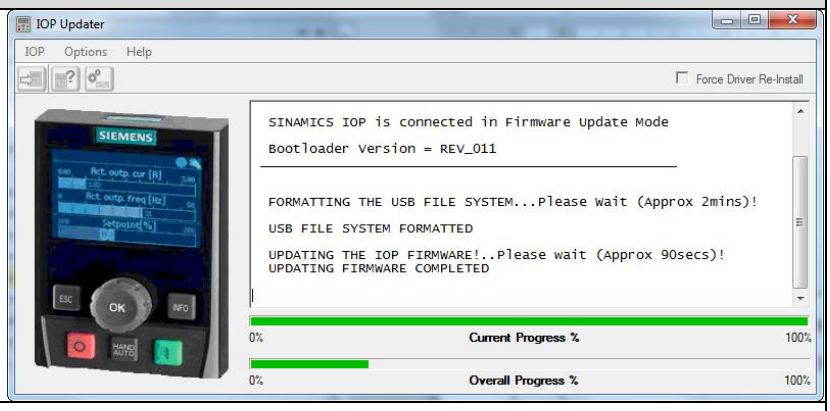
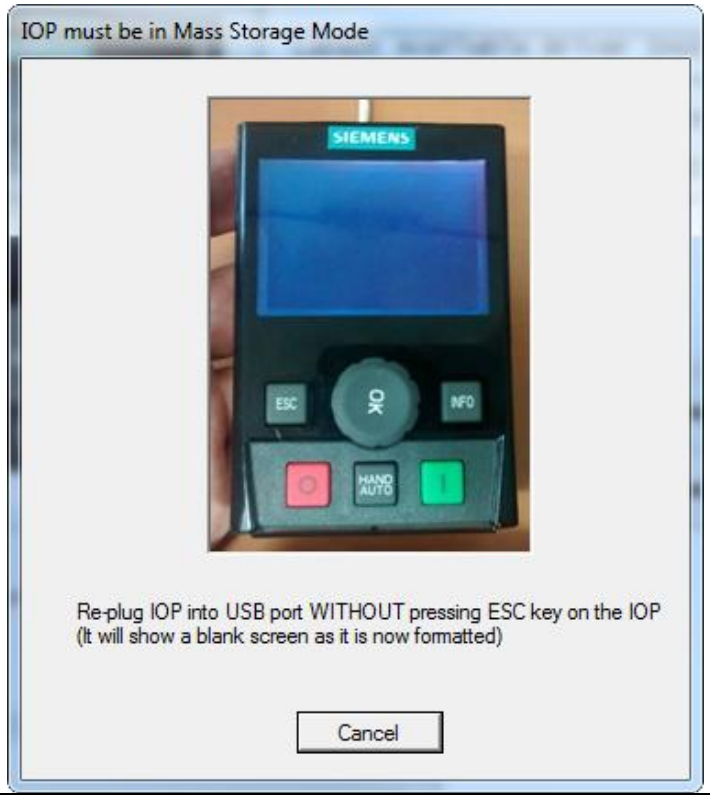
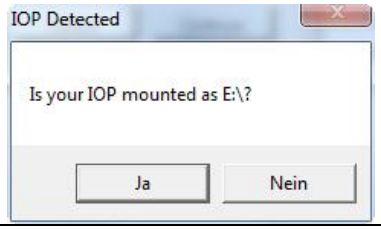
No.	Instructions	
1.	Download the required file to an appropriate folder on your local drive.	
2.	Navigate to the folder containing the zipped update file on your local drive.	
3.	Extract the update files. **Note:** When extracting the zipped files it is essential that the "All files/folders in archive" option is selected.	

1.6 Update process

To update the IOP, the following procedure should be performed:

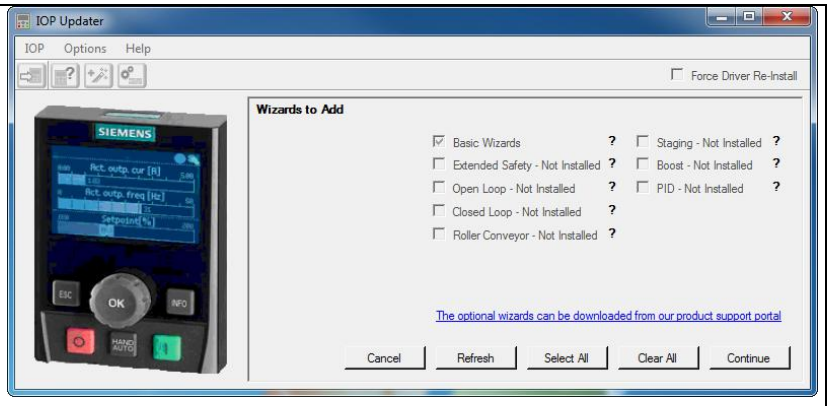
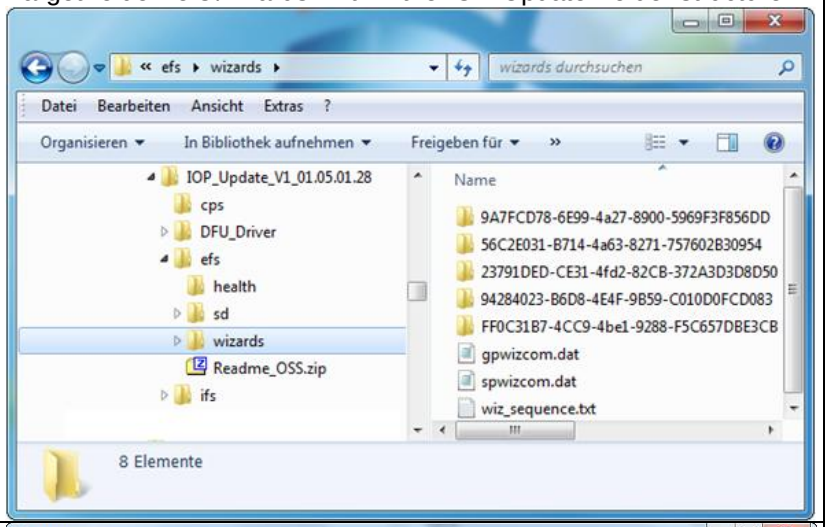
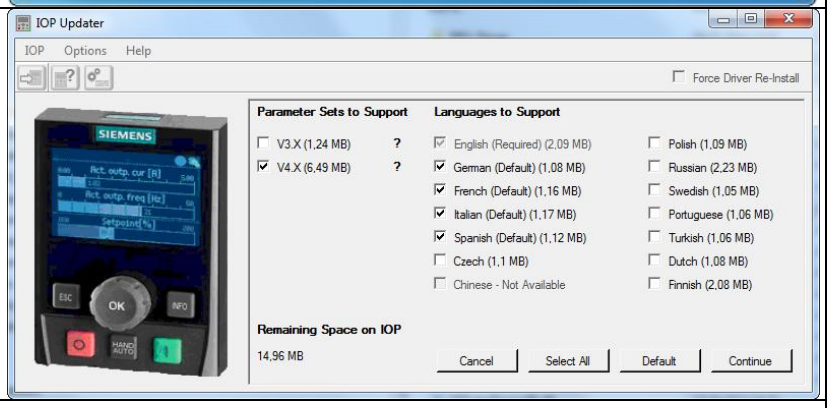
No.	Instructions	
1.	Navigate to the folder to which the update files have been extracted.	
2.	Double-click the “IOPUpdater.exe” file.	
3.	Follow the instructions on screen.	
4.	If the USB driver is present the following screen is displayed: NOTE: If the driver is not installed, please note the instructions in chapter 2 “IOP USB-Driver – Installation Steps”.	
5.	After each part of the Update process the User is prompted by the onscreen instructions. First the Format is performed then the IOP Firmware is Updated.	

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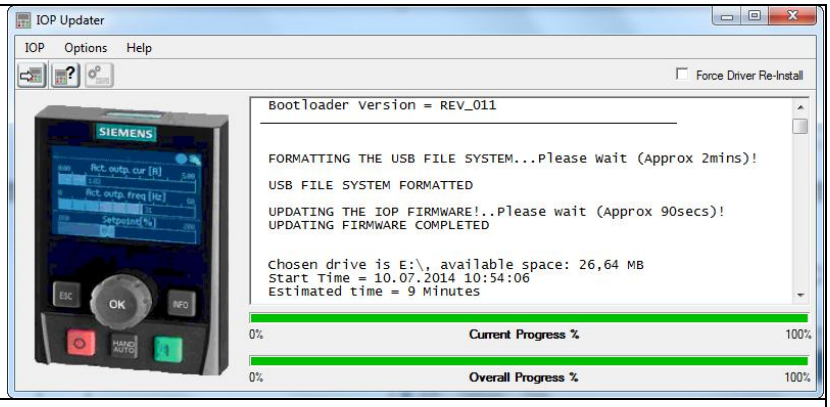
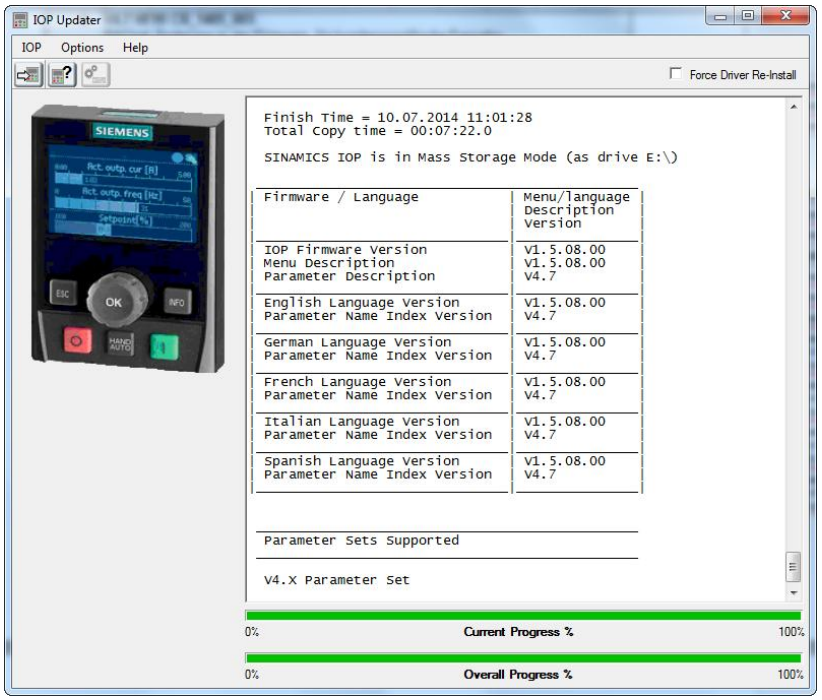
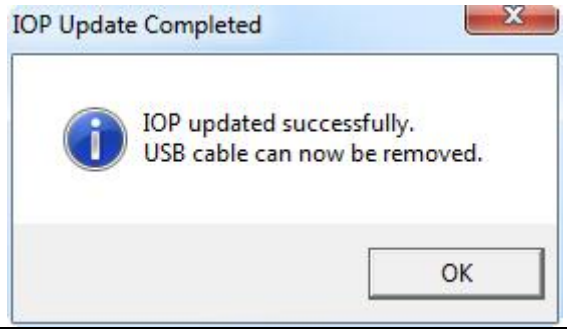
No.	Instructions	
		
6.	Next the user is prompted connect the IOP in Mass Storage Mode (the IOP will be blank as the File System has been Formatted).	
7.	After connecting the IOP in Mass Storage Mode and clicking “OK” the following is displayed. Select “Yes” if your IOP is mounted on the stated Drive.	

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8.	The following screen allows the selection and download of optional Wizards. Hint: The Basic Wizard is already installed. Choose “?” to get more information. The optional Wizards can be downloaded from the Siemens Online Support Portal from IOP V1.5 SP1: https://support.industry.siemens.com/cs/ww/en/view/67273266 Detailed information about the optional Wizards can be found in the Operating Instructions Manual “Intelligent Operator Panel (IOP)”: https://support.industry.siemens.com/cs/ww/en/view/101920450 Download the needed Wizards from our Support Portal to an appropriate folder on your local drive. Navigate to the folder containing the zipped Wizard files on your local drive. Extract the Wizard files. **Note:** When extracting the zipped files it is essential that the "All files/folders in archive" option is selected. Opens two windows, one to download from your local folder, the other to copy the contents of the unzipped downloaded folder into the other opened window with 32 character foldernames (…\IOP_Update_Vxxx\efs\wizards)	 Target folder “efs\wizards” within the IOP-Updater folder structure: 
9.	The following screen allows the selection of the requested languages and the supported parameter sets (firmware version V3.x or V4.x; choose “?” to get more information).	
10.	The following is displayed when the File System is being copied.	

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11.	Once the process ends the following screen is displayed.	 

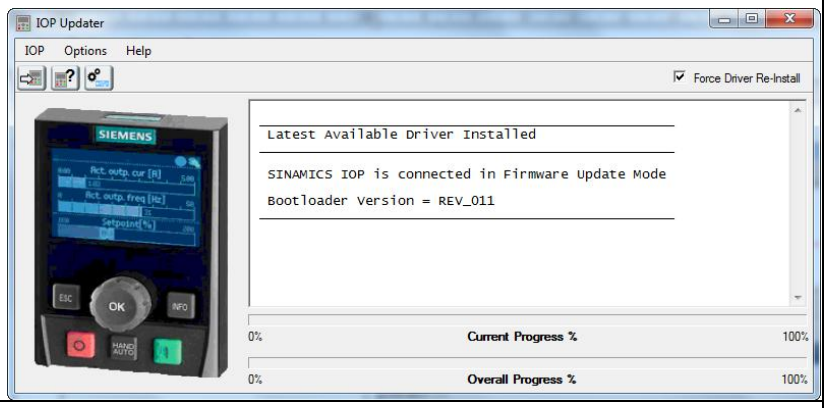
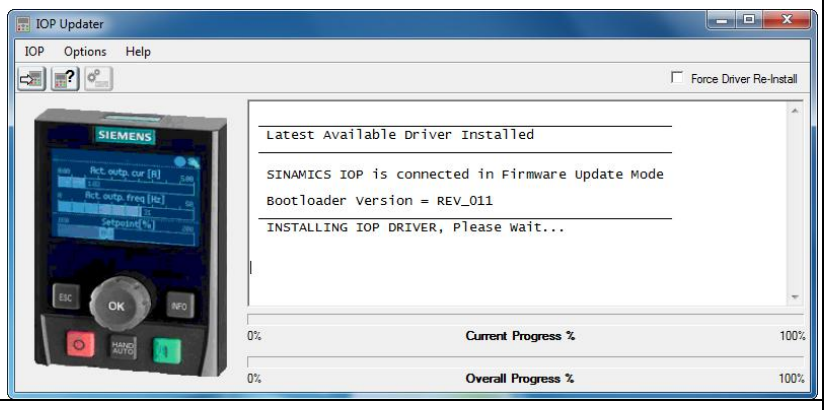
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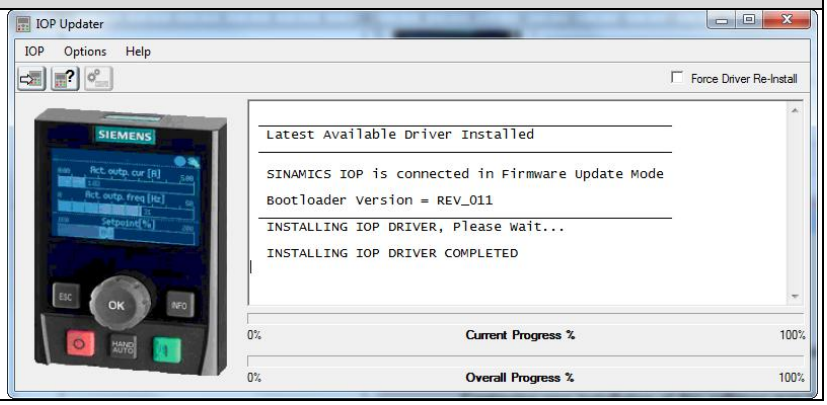
2 IOP USB-Driver - Installation Steps

This chapter includes the installation steps for installing the IOP USB-Driver. **Admin rights** are needed to install a Device Driver. It is not necessary to have the IOP connected to install the IOP Driver.

2.1 Driver Installation

No.	Instructions	
1.	Navigate to the folder to which the update files have been extracted.	
2.	Double click “IOPUpdater.exe”. The screen opposite shows that the IOP Driver is already installed. However, you can select Force Driver Re-install to install the IOP Driver again.	
3.	Select Install IOP Driver , and screen opposite is displayed. Select ”Install this driver software anyway”.	
4.	The IOP-Updater informes about the running installation process.	
5.	After installation is completed the	

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No.	Instructions	
	following screen should be displayed.	

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3 Service & Support

3.1 Tips & Tricks

Problem	Title
IOP shows a blank screen	If you get a blank screen when you plug your IOP into a Drive, this means the FW Update did not work properly. Start the update process. Another reason for a blank screen can be you have no files on your IOP. This can be quickly determined by pluggin the IOP into the USB port and looking at the IOP device as a Drive. If it is blank then no files exist on the IOP, please run “IOPUpdater.exe” again.
IOP shows “Consistency check error”	This means that the IOP Update of the Firmware has not work properly, please run IOPUpdater.exe again. This could be related to the following FAQ’s.

3.2 FAQs

FAQ	Title
67273266	Which IOP version supports which SINAMICS Control Unit and/or SINAMICS firmware version?
56293000	Is there a SINAMICS IOP (V1.1) Firmware USB Update problem?

More FAQs concerning IOP you can find here:
http://support.automation.siemens.com/WW/view/en/30563514/133000 (use search item “IOP”)

3.3 Documentation

FAQ	Title
101920450	German: Operating Instructions Intelligent Operator Panel (IOP), 07/2014, FW V1.5
101920450	English: Operating Instructions Intelligent Operator Panel (IOP), 07/2014, FW V1.5

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