## SINAMICS Intelligent Operator Panel (IOP)

Firmware and Software Update Instructions



Edition: August 2016

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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 V1.6.x 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.

IOP-Order-No.	IOP-	Supported	Supported USB	Supported Operating System
	Version	<b>IOP-Firmware</b>	Interface	Environment for Upgrading the IOP
	A02	V1.1 – V1.6.x	USB V1.1	Windows XP
	A03	V1.1 – V1.6.x	USB V1.1	Windows XP
	A04	V1.1 – V1.6.x	USB V1.1	Windows XP
6SL3255-0AA00-4JA0	A05	V1.1 – V1.6.x	USB V1.1	Windows XP
	A06	V1.1 – V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32 Bit
	B01	V1.1 – V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32 Bit
	B02	V1.1 – V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32 Bit
6SL3255-0AA00-4JA1	A01	V1.1 – V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32 Bit
	B01	V1.1 – V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/ 64 Bit
	C01	V1.1 – V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/ 64 Bit
	D01	V1.1 – V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/ 64 Bit
	D02	V1.1 – V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/ 64 Bit
6SL3255-0AA00-4JC1	A01	V1.5.1 - V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/ 64 Bit
	B01	V1.5.1 - V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/64 Bit
	B02	V1.5.1 - V1.6.x	USB V1.1/ V2.0	Windows XP, Windows 7 32/64 Bit

#### **1.3 Support of different SINAMICS IOP Hardware versions**

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.	Files
		C Selected files/folders
	Note:	All files/folders in archive     Overwrite existing files     Cancel
	When extracting the zipped files it is	C Fless
	essential that the "All files/folders in	Image: Image
	archive" option is selected.	
		li.

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### 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.	
Ζ.	file	
3.	Follow the instructions on screen.	IOP must be in Firmware Update Mode         SIEMENS         Raintenance flow         Rimware Update         SIEMENS
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".	IDP Updater       Image: Constraint of the point of the
5.	Start the update process by selecting the icon "Update IOP"	IOP Updater IOP Options Help



6.	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.	IDP Updater       Image: Constraint of the sector of the sec
7.	Next the user is prompted connect the IOP in Mass Storage Mode (the IOP will be blank as the File System has been Formatted).	<image/>
8.	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.	IOP Detected Is your IOP mounted as E:\? Ja Nein

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		IOP Updater			
		IOP Options Help			
				E F	orce Driver Re-Install
		And and a second s	Bootloader Version = REV_011		•
		800 Ret over cur [R] 500	FORMATTING THE USB FILE SYSTEM USB FILE SYSTEM FORMATTED	MPlease Wait (Approx	2mins)!
			UPDATING THE IOP FIRMWARE!P	lease wait (Approx 90sec	.s)!
			Chosen drive is E: availabl Start Time = 10.07.2014 10:54 Estimated time = 9 Minutes	е space: 26,64 MB :06	-
			0% Current	t Progress %	100%
			0% Overal	I Progress %	100%
12	Once the process ends the following				
12.	screen is displayed	IOP Updater			
		IOP Options Help			
				Fi Fi	prce Driver Re-Install
		SIEMENS	Finish Time = 10.07.2014 11:01 Total Copy time = 00:07:22.0	1:28	
		em, Act.outp.cur.[8]	SINAMICS IOP is in Mass Storag	ge Mode (as drive E:\)	
			Firmware / Language	Menu/language     Description     Version	
			IOP Firmware Version Menu Description Parameter Description	V1.5.08.00 V1.5.08.00 V4.7	
		LEC OK NO	English Language Version	V1.5.08.00 V4.7	
		0 K040 📶	   German Language Version   Parameter Name Index Version	V1.5.08.00 V4.7	
			French Language Version Parameter Name Index Version	V1.5.08.00 V4.7	
			Italian Language Version Parameter Name Index Version	V1.5.08.00 V4.7	
			Spanish Language Version Parameter Name Index Version	V1.5.08.00 V4.7	
			Parameter Sets Supported	-11	
					=
			V4.X Parameter Set		•
			0% Current	Progress %	100%
			0% Overall	Progress %	100%
		IOP Update Complete	ted successfully.	×	
			OK		

### 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	I DP Updater
	Driver is already installed. However,	Force Driver Re-Install
	you can select Force Driver Re-	
	Install to Install the IOP Driver again.	SIEMENS Latest Available Driver Installed
		M. Rtowb.or (R) SINAMICS IOP is connected in Firmware Update Mode
		Bootloader Version = REV_011
		0% Current Progress % 100%
		0% Overall Progress % 100%
3.	8	
	Select Install IOP Driver 🛄, and	Windows Security
	screen opposite is displayed.	
	Coloret "In stall this shiring a strugge	Windows can't verify the publisher of this driver software
	Select "Install this driver software	
	anyway .	Description and the second se second second sec
		Don t Install this driver software You should check your manufacturer's website for undated driver software
		for your device.
		Install this driver software anyway Only install driver software obtained from your manufacturer's website or
		disc. Unsigned software from other sources may harm your computer or steal
		information.
4.	The IOP-Updater informes about the	
	running installation process.	I IOP Updater
		Force Driver Re-Instal
		Latest Available Driver Installed
		SINAMICS IOP is connected in Firmware Update Mode
		Bootloader Version = REV_011 INSTALLING IOP DRIVER, Please Wait
		0% Gurrent Progress % 100%
5	After installation is completed the	Una Uverdali Frogress A 1004
5.	following screen should be	

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No.	Instructions					
	displayed.	Π	IOP Updater		A C A DEC A COMPANY A COMPANY A C A	
		1	IOP Options Help			
					Г	Force Driver Re-Install
			SIEMENS		Latest Available Driver Installed SINAMICS IOP is connected in Firmware Update Mode Bootloader Version = REV_011 INSTALLING IOP DRIVER, Please Wait INSTALLING IOP DRIVER COMPLETED	*
			ESC OK NFO	L L		*
				0	% Current Progress %	100%
				0	% Overall Progress %	100%

#### 3 Service & Support

### 3.1 Tips & Tricks

Problem	Title
IOP shows a	If you get a blank screen when you plug your IOP into a Drive, this means the FW Update did
blank screen	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	This means that the IOP Update of the Firmware has not work properly, please run
"Consistency	IOPUpdater.exe again. This could be related to the following FAQ's.
check error"	

### 3.2 FAQs

SIOS-ID	Title
<u>67273266</u>	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: <u>http://support.automation.siemens.com/WW/view/en/30563514/133000</u> (use search item "IOP")

#### 3.3 Documentation

SIOS-ID	Title
<u>109736312</u>	German: Operating Instructions Intelligent Operator Panel (IOP), 02/2016, FW V1.6 SP2
<u>109736312</u>	English: Operating Instructions Intelligent Operator Panel (IOP), 02/2016, FW V1.6 SP2