

Upgrade Instructions

SINUMERIK Operate 4.5 SP2 for PCU 50.5

SINUMERIK Operate 04.05.02.00 (internal Version 04.05.02.00.030) for PCU 50.5

The prerequisite for installing this software is a PCU 50.5 with already installed PCU base software WinXP from V1.3 or a PCU 50.5 with already installed PCU base software Win7 V1.0:

- PCU 50.5-C/XP 6FC5210-0DF52-2AA0 with PCU base software from V1.3
- PCU 50.5-P/XP 6FC5210-0DF53-2AA0 with PCU base software from V1.3
- PCU 50.5-C/W7 6FC5210-0DF52-3AA0 with PCU base software from V1.0
- PCU 50.5-P/W7 6FC5210-0DF53-3AA0 with PCU base software from V1.0

Important note regarding operation on PCU 50.5 Windows 7:

Before shutting down the power supply of the PCU 50.5, the system should be shut down using the Operate softkey EXIT or Windows Shutdown, analogous to a PC with Windows 7. A UPS should be used to secure against unexpected power failures.

Using display-MD 9110 = 7, the EXIT softkey can be made accessible to any operator.

The commissioning instructions for SINUMERIK Operate 4.5 SP2, PCU base software V1.3 or Win7 V1.0, the operating components manual and the operating instructions SINUMERIK Operate 4.5 SP2 apply. Further, the secondary conditions published for CNC software 4.5 SP2 must be taken into account.

The Commissioning Instructions for SINUMERIK Operate Operate 4.5 SP2, PCU base software V1.3 or Win7 V1.0, the Equipment Manual for the operator components and the SINUMERIK Operate 4.5 SP2 Operating Instructions apply.

Further, the secondary conditions published for the CNC Software 4.5 SP2 must be carefully observed.

SINUMERIK Operate comprises all texts in German, English, French, Italian, Spanish and "Chinese simplified". In general, the help for setting and machine data is only provided in German and English. The additional languages V2.7.1 for SINUMERIK Operate can be used, however, the new texts in SW 4.5 are displayed in English.

Language extensions V4.5.1 and V4.5.2 for SINUMERIK Operate can be used.

SINUMERIK Operate 4.5 SP2 has only been released for operating

- an 840D sl NCU7x0 with CNC Software 4.5 SP2 resp. for a
- SIMATIC-CPU 317 / 319 in combination with HMI Pro sl.

For this, the PCU 50 must be integrated in the plant / system network. By default, the SINUMERIK Operate is connected to the NCU address 192.168.214.1. The NCU address can be set in the "NCU connection" screen under Commissioning / HMI.

Note: When connecting the PCU 50 to the X130 of the NCU, the simulation cannot be executed.

The HMI-Advanced software 7.6 SP2 HF7 (or later) resp. the Startup Tool V7.7 may still be required for commissioning drives.

The SINUMERIK Operate for PCU 50 does not include any technological cycles or measuring and ISO cycles. These are available on the CF card of the NCU and automatically installed during the NCU startup – see also the relevant information provided in the Upgrade Instructions for the CNC Software 4.5 SP2.

User texts must always be downloaded into the system in the UTF-8 format.

SINUMERIK Operate for PCU 50 does not have a general access to the CF card of the NCU. This means that option "user memory on CF card of the NCU" cannot be used.

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The "Local drive" in SINUMERIK Operate for PCU 50 is located on the hard disk under F:\hmis\user\sinumerik\data and is always available without option.

STEP7 5.5 for SINUMERIK PCU 50 can also be integrated for SINUMERIK Operate. The desktop function "Step7 authorization" is used for this purpose.

Installation

Important: If the version <= 4.5 SP2 of SINUMERIK Operate for PCU 50 has already been installed, then it must first be uninstalled under Control Panel / Add or Remove Programs or Programs and Features. In addition, manually delete the directory F:\hmis\snck.

SINUMERIK Operate for PCU 50 is installed by calling the file Setup_HMIsI_.....exe from the Windows desktop of the PCU 50. To do this, establish either a network connection to a PC using the DVD supplied or copy the software from the DVD supplied to a USB data medium that can then be directly connected to the PCU 50.3. The installation directory is permanently specified as f:\hmisI or c:\Program Files.

The installation version is requested during the installation:

- Operation on a SINUMERIK NCU (default)
- Operation on a SIMATIC-CPU 317 / 319
- Integration of .NET-Framework for OEM applications

Function improvements in Operate SW 4.5 SP2:

PR numbers	AP00973816	AP01017173	AP01131448	AP01132979	AP01210431
AP01235921	AP01259200	AP01282766	AP01290124	AP01290755	AP01296388
AP01301859	AP01312986	AP01331837	AP01333896	AP01335720	AP01339644
AP01340710	AP01342553	AP01348274	AP01352296	AP01355047	AP01355087
AP01355287	AP01356719	AP01361037	AP01368723	AP01372420	AP01373162
AP01376057	AP01377827	AP01378251	AP01379054	AP01379602	AP01381942
AP01381999	AP01382640	AP01384106	AP01387363	AP01389148	AP01390430
AP01391655	AP01392878	AP01393456	AP01395363	AP01395641	AP01395652
AP01395884	AP01396676	AP01398021	AP01398901	AP01399391	AP01399646
AP01399685	AP01403616	AP01404034	AP01406575	AP01406581	AP01406620
AP01412254	AP01413894	AP01413899	AP01414641	AP01415251	AP01416032
AP01416262	AP01418335	AP01419349	AP01420038	AP01422073	AP01422925
AP01423364	AP01424275	AP01424298	AP01424938	AP01426260	AP01427876
AP01428599	AP01429869	AP01430133	AP01430763	AP01433805	AP01435945
AP01436989	AP01438081	AP01438081	AP01438513	AP01439969	AP01440597
AP01441055	AP01441756	AP01442437	AP01443168	AP01443207	AP01443346
AP01443537	AP01444550	AP01445037	AP01445120	AP01445940	AP01448706
AP01448913	AP01452695	AP01455461	AP01456964	AP01457397	AP01462718
AP01463019	AP01466166	AP01472124	AP01473593	AP01477764	AP01478336
AP01479411	AP01479954	AP01480925	AP01481767	AP01481872	AP01482909
AP01483191	AP01483222	AP01484018	AP01484023	AP01484063	AP01484094
AP01486101	AP01486740	AP01487273	AP01488611	AP01488776	AP01489720
AP01489934	AP01490136	AP01492958	AP01493185	AP01493298	AP01493638
AP01494273	AP01494493	AP01495165	AP01495952	AP01496153	AP01496383
AP01498241	AP01498541	AP01498542	AP01498560	AP01499051	AP01499168
AP01499347	AP01499495	AP01500280	AP01500285	AP01500285	AP01500289
AP01500985	AP01501342	AP01501360	AP01501430	AP01501500	AP01502203
AP01502386	AP01502425	AP01502517	AP01505123		AP01507646
AP01507716	AP01508350	AP01509984	AP01510202	AP01517266	AP01517608
AP01517641	AP01519735				

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 Compatibility
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- SINUMERIK Operate 4.5 SP2 can be combined with 840D sl NCU 7x0.3 with CNC SW 4.5 SP2.
- The help system is based on the documentation for the CNC SW 4.5.
- The NC alarm texts are based on the CNC SW 4.5 SP2.
- STEP7 for SINUMERIK PCU 50 from V5.5 can be integrated in SINUMERIK Operate 4.5 SP2 where it can run.
- OEM applications which are based on the SINUMERIK Operate Programming Package 2.7 can run when using generally released interfaces.
- The available additional languages V4.5.1 and V4.5.2 for SINUMERIK Operate cannot be used.

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 Notes
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System:

- If, in conjunction with STEP7 on PCU 50, no communication is established between the HMI and the NCU, please check the settings made under Control Panel / Set PG/PC Interface. In addition to S7ONLINE, an Access Point
 SINUMERIK_CP (SINUMERIK 7xx) -> TCP/IP -> VIA Rhine III Fast Eth. ...<Board 2>
 must be included. If necessary, configure this Access Point as indicated.
- Editor: The key combination Shift+Insert must be used to edit cycle calls directly in the DIN code. At present, this is not provided on all SINUMERIK OPs. Remedy: Use an external PC keyboard.
- To operate the simulation, the NC-MD \$MC_FRAME_ACS_SET must be set to 1.
- To operate a PCU50 with external monitor, you can set the screen size of the Operate in the file
 F:\hmis\user\sinumerik\hmi\cfg\run_hmi.ini with the entry
 [Global]
 Resolution = ; permissible values: 640x480, 800x600, 1024x768, 1280x1024
- As standard, in the Machine area, the "Retract" softkey is no longer available. It can be reactivated by creating the slmaconfig.xml in /oem/sinumerik/hmi/cfg file with the following content:
 <?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
 <CONFIGURATION>
 <Settings>
 <ShowRetractSoftkey type="bool" value="true" />
 </Settings></CONFIGURATION>
- Subsequently enter Autostart of Operate for a (another) user on PCU 50.5-Win7:
 On the desktop, start menu "All Programs", select Startup. Right-click on "Open". An Explorer is then opened. In the right-hand window of Explorer, right click on "New" create "Shortcut".
 Then using "Browse ...", enter the "C:\Program Files(x86)\Siemens\MotionControl \siemens\sinumerik\hmi\autostart\slstartup.exe" file.
- The "AppSight-Blackbox" is available in Operate (resource to analyze the causes of application crashes) and is active as standard. It can be deactivated using an entry in the run_hmi.ini file:
 [AppSight]
 ; enabled could be set to true or false. Default: true
 enabled=true
 The log file generated by AppSight-Blackbox in the case of a fault is called:
 .../user/sinumerik/hmi/log/hmi/blackbox_run_hmi.asl
 It is written to when exiting Operate. May be necessary to explicitly exit processes that are running.
 Together with the HMI crash or, this log file must be sent to the SINUMERIK hotline.

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