

Software Update from PCS 7 V8.0 Upd1 to PCS 7 V8.0 SP1

SIMATIC PCS 7

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Caution

The functions and solutions described in this article confine themselves to the realization of the automation task predominantly. Please take into account furthermore that corresponding protective measures have to be taken up in the context of Industrial Security when connecting your equipment to other parts of the plant, the enterprise network or the Internet. Further information can be found under the Content-ID 50203404.

<http://support.automation.siemens.com/WW/view/en/50203404>

Question

How do you update from PCS 7 V8.0 Upd1 to PCS 7 V8.0 SP1?

Answer

This document gives a brief description of how to update from PCS 7 V8.0 Upd1 to PCS 7 V8.0 SP1.

Requirements

Please carefully read the notes in the "PCS 7 Readme".

More information is available in this delivery release:

<http://support.automation.siemens.com/WW/view/en/67798122>

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1 Preparation

Proceed as shown in the table below to prepare for upgrading.

Table 1-1

Step	Procedure
1.	Backup We recommend making a backup of the partitions of all the computers concerned before starting this task. You can use the "SIMATIC Image & Partition Creator" software for this. http://support.automation.siemens.com/WW/view/en/52940370
2.	Save project Save the project and own libraries before starting the update.
3.	Save licenses Updating does not delete the licenses installed on the system. Save all existing licenses before making a complete reinstallation.
4.	Save PDM data Save the installation files of the PDM devices. Updating of PCS 7 removes the device catalog of SIMATIC PDM. You must reinstall the device descriptions after updating.
5.	Disable WinCC Autostart If being used, you must disable the "WinCC Autostart" function before updating the software. <ul style="list-style-type: none">• OS client: "Start > SIMATIC > WinCC > Autostart"• OS server: "Start > SIMATIC > WinCC > Autostart" or "Start > SIMATIC > SIMATIC Net > Set PC station > Applications > Autostart" After disabling WinCC Autostart, restart the PC station.
6.	Remove the password protection for projects Any password protection must be disabled before updating the software.

2 Starting the PCS 7 Update Installation

WARNING	Before you install PCS 7 V8.0 SP1, read the instructions concerning system and software requirements in the PCS 7 Readme.
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Note More information about updating PCS 7 is available in the manuals below.

- "PCS 7 – Software Updates With Utilization Of New Functions"
- "PCS 7 – Software Updates Without Utilization Of New Functions"

Table 2-1

Step	Procedure
1.	Install the PCS 7 update Start the basic setup of PCS 7 V8.0 SP1. Select the "Update" option for the setup type. The Microsoft SQL Server 2008 is supplied with PCS 7 V8.0 SP1. The update installation also installs the SQL Server 2008 in parallel to the existing SQL Server 2005. If not needed by any installed third-party software, you can uninstall the SQL Server 2005.
2.	Install additional libraries Install any older libraries used from DVD 2 – "Additional Products". For example: <ul style="list-style-type: none">• PCS 7 APL V7.1 SP5 Upd4• PCS 7 Basis Library V7.1 SP3 Upd7 Note After installing older libraries you must re-install the PCS 7 V8.0 libraries. Re-install the PCS 7 V8.0 libraries with the basic setup.
3.	Install WinCC V7.2 Upd 1 The download and information for Update 1 of WinCC V7.2 is available at the link below: http://support.automation.siemens.com/WW/view/en/73443294

3 Updating the Project

3.1 Using OS Migrator

As from PCS 7 V8.0 SP1, OS Migrator is started automatically when you open a PCS 7 project in the SIMATIC Manager.

Table 3-1

Step	Procedure
1.	Open the multiproject in the SIMATIC Manager.
2.	<p>Select an OS project.</p> <p>The "Migrator" dialog opens and the message "Migration required..." is displayed. Confirm this with "Yes".</p> <p>Note</p> <p>If you reject migration to the new version, you cannot download and process the OS project. However, you can repeat the migration later. For this you select the menu command "Options > Migrate OS projects".</p>
3.	<p>In the "Migrator" dialog you set the language in which the project is to be created. No other settings are necessary. Start the migration procedure with the "Next" button.</p> <p>Note</p> <p>If you deselect the "Quick Migration" button, considerably more time is needed for the migration.</p> <p>The "Quick Migration" without the components (pictures, reports, scripts...) does not affect the process mode. With the first call of the process pictures in WinCC runtime these pictures will be migrated, which could result in a delay for the first time the picture is shown.</p> <p>You can migrate the rest of the components at any time by selecting the menu command "Tools > Convert Project Data" in the WinCC Explorer.</p>

3.2 Updating Blocks

With Master Data Library

Proceed as follows.

Table 3-2

Step	Procedure
1.	<p>Copy blocks</p> <p>Copy all the blocks used in the project from the new libraries (PCS 7 APL V8.0 SP1, for example) into the master data library.</p> <p>Note</p> <p>When copying the blocks a window will appear which shows the message if you want to overwrite the blocks.</p> <p>In this window you can use the button "Adjust Attributes..." to show the different attribute values in the source and the destination and make your project specific changes.</p>
2.	<p>Update block types</p> <p>Select the block folder in the master data library of the multiproject and then select the menu command "Options > Charts > Update block types".</p> <p>In the dialog that opens you can select or deselect all the programs (and sample solutions). Click the "Next" button.</p> <p>All the block types are displayed for selection/deselection. Select the blocks for system updating from the "List of changed system blocks". Click the "Finish" button.</p>

This procedure replaces all the block types in the block containers of the project and does a block type import in all the chart containers of the project.

Without Master Data Library

Proceed as follows for each library used.

Table 3-3

Step	Procedure
1.	Open the library Open the new library (PCS 7 APL V8.0 SP1, for example) from which you use blocks (PCS 7 APL V8.0 Upd1, for example) in you projects.
2.	Update block types Select the blocks used and then select the menu command "Options > Charts > Update block types". In the dialog that opens you can select or deselect all the programs (and sample solutions). Click the "Next" button. All the block types are displayed for selection/deselection. Select the blocks for system updating from the "List of changed system blocks". Click the "Finish" button. There then follows a query as to whether there is to be format conversion of the CFC charts to the current version. Acknowledge the dialog with "Yes". Note If you do not update the block types, because you want to continue using the block versions already configured, you can convert the format of the CFC charts as follows: <ul style="list-style-type: none">• Open a CFC chart.• Move a block.• Acknowledge the dialog for converting the CFC charts.

This procedure replaces all the block types in the block containers of the project and does a block type import in all the chart containers of the project.

3.3 Compiling Configuration Data of the AS

Execute the "Save and Compile" function in the HW Config and in NetPro for all ASs.

3.4 Compiling Charts of the S7 Programs

Proceed as follows.

Table 3-4

Step	Procedure
1.	<p>Compile S7 program</p> <p>Compile the program of each AS with these settings:</p> <ul style="list-style-type: none">• Changes only• Generate module drivers <p>Note</p> <p>You might be requested during compiling to update some blocks (MOD_D1, OB_BEGIN, for example). This updating does not cause the AS to go into STOP mode.</p> <p>The AS projects can be delta loaded as long as no blocks (FB, FC) with interface changes have been used in CFC. The blocks with interface changes are given in chapter 6-List of Changed Blocks.</p>

3.5 Changing the Configuration Data of the ES and OS

If you are using the "Windows 7" or "Windows Server 2008 R2" operating system, you might have to update the version of the communication components in the component configurator and HW Config. Which version depends on the version of SIMATIC NET installed on the target station.

SIMATIC NET V8.2.x is installed as from Windows 7 and Windows Server 2008 R2. Depending on the option configured or the hardware used you apply the following new components in the HW Config:

- IE General SW V8.2 (standard network card)
- OPC Server SW V8.2

Note When using communication processors like CP1613 SW V8.1.1, no change has been made compared with PCS 7 V8.0 Upd1.

3.6 Compiling Configuration Data of the OS

Execute the "Save and Compile" function in the HW Config and in NetPro for all PC stations.

3.7 Updating OS Projects

Open the projects of all the OS servers and OS single stations and OS clients on the ES one after the other and proceed as follows.

Table 3-5

Step	Procedure
1.	<p>Start the OS project editor</p> <p>Start the OS project editor with the option "Complete Configuration (loss of support for online delta loading capability)" in the "General" tab.</p> <p>Note</p> <p>If you are using the template pictures for the APL block icons of PCS 7 V7.1 SP3, please refer to the software update manuals.</p>

3.8 Compiling the OS Server/OS Single Stations

Proceed as follows.

Table 3-6

Step	Procedure
1.	<p>Compile the OS Server/OS Single Stations</p> <p>Start compilation for all OS servers and all OS single stations with these options:</p> <ul style="list-style-type: none">• Tags and messages• SFC Visualization• Picture Tree• With interconnection partner (SFC option)• Complete compilation with overall reset

3.9 Loading Target Systems

Update the PCS 7 software on the PC stations concerned before loading the OS.
Perform loading in the following order.

Table 3-7

Step	Procedure
1.	OS Server/OS Single Stations <ul style="list-style-type: none">Start overall loading of all OS servers/OS single stations.Start the Runtime of the OS servers/OS single stations.
2.	OS clients <ul style="list-style-type: none">Start overall loading of all OS clients.Start the OS Runtime of the clients.
3.	AS program <p>Start delta loading of the S7 programs of all ASs.</p> <p>Note</p> <p>The AS projects can be delta loaded as long as no blocks (FB, FC) with interface changes have been used in CFC. The blocks with interface changes are given in chapter 6-List of Changed Blocks.</p>

Note

Sequencers of SFC charts are not stopped during the software update as long as no changes have been made in the sequencers concerned.

4 Updating Redundant Systems in Runtime

Proceed as follows to update redundant systems.

Table 4-1

Step	Procedure
1.	Update the standby OS servers.
2.	Update the OS clients that are connected to the standby OS server (via preferred server).
3.	Do a complete download of the OS projects to the standby servers and the OS clients.
4.	Start the standby OS servers and OS clients. -> Wait for the redundancy synchronization.
5.	Download the control program into the AS.
6.	Update the master OS servers.
7.	Update the OS clients that are connected to the master OS server (via preferred server).
8.	Do a complete download of the OS projects to the standby servers and the OS clients.
9.	Start the master OS servers and OS clients. -> Wait for the redundancy synchronization.

Note

More information about updating redundant systems is available in the "Fault-tolerant Process Control Systems" manual, in the "Instructions for updating a redundant OS in runtime" section.

5 Options

Table 5-1

Option	Description
Route Control	<p>Start the "Route Control Wizard" in projects with Route Control. Then run through the "Todos" displayed in the log files of the "Route Control Wizard".</p> <p>Note More information about the RC library is available in these documents: "SIMATIC Route Control – Readme" and "SIMATIC Route Control – What is new".</p>
SIMATIC BATCH	<p>Regenerate and repropagate the "BATCH types" and group all the batch instances together.</p> <p>Then reload all the components.</p> <p>Execute the "Transfer messages" function. In this way, all the batch message texts are transferred to the OS project. Then you load the OS.</p> <p>Execute the "PCell update / Update plant data" function.</p>
Web option	<p>Web servers are to be considered as OS clients. You must also start the "Web View Publisher" and the "Web Configurator".</p> <p>When you restart the Internet Explorer on the web clients, you are prompted to install an update of the web client. You can fetch the installation files from the web server.</p> <p>After installing the web client, update the plugins.</p>
CAS	<p>Pay attention to the following points when using a CAS (Central Archive Server) in you plant:</p> <ul style="list-style-type: none">• The CAS is the first computer to be disabled and the first to be restarted.• You disable the CAS just by removing the network release of the archive folder "AchiveDir" so that OS servers no longer relocate archive segments.• The CAS failure time must not exceed the shortest circular log time of the OS servers.• You must disconnect any connected backup databases from the CAS before updating the software.• You can reconnect the disconnected databases after the software update. <p>Redundant CASs can be updated in parallel.</p>
Process Historian	<p>Refer to the "Readme" and the PH manuals for updating the Process Historian.</p>

6 List of Changed Blocks

The table in this section lists all the changed blocks compared with PCS 7 V8.0 Upd1. The blocks are marked as follows in the "Supports delta loading" column:

Table 6-1

Symbol	Description
✓	The changes in these blocks do not affect the interface. You can load the blocks without stopping the CPU.
✗	The interfaces of these blocks have been changed. You can load the blocks only by stopping the CPU.
New!	New blocks. These blocks are not available in the older versions of the library.

The "CFC Library" and "SFC Library" show no changes compared with PCS 7 V8.0 Upd1 and are therefore not listed explicitly.

More information about the libraries is available in the associated "Readme".

WARNING	Even if you have used PCS 7 V8.0 Upd1 beforehand, there might still be older versions of blocks in your automation program. In this case you must find out yourself whether you can do a software update without CPU STOP.
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6.1 PCS 7 Advanced Process Library V8

Table 6-2

Library	Block no.	Block name	Version	Supports delta loading
PCS 7 AP Library V80 SP1	FB1801	STRep	7.1	✓
	FB1803	CntOhSc	2.1	✓
	FB1804	Average	2.1	✓
	FB1805	ConPerMon	2.1	✓
	FB1806	CountScL	2.1	✓
	FB1807	DeadTime	2.1	✓
	FB1808	Derivative	2.1	✓
	FB1809	DoseL	2.1	✓
	FB1810	TimerP	2.1	✓
	FB1811	Event	2.1	✓
	FB1812	EventTs	2.1	✓
	FB1813	FbAnIn	7.1	✓
	FB1814	FbAnOu	7.1	✓

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Library	Block no.	Block name	Version	Supports delta loading
	FB1815	FbDiIn	7.1	✓
	FB1816	FbDiOu	7.1	✓
	FB1818	FmCont	7.1	✓
	FB1819	FmTemp	7.1	✓
	FB1820	GainSched	2.1	✓
	FB1821	Trigger	2.0	New!
	FB1823	Integral	2.1	✓
	FB1824	Intlk02	2.1	✓
	FB1825	Intlk04	2.1	✓
	FB1826	Intlk08	2.1	✓
	FB1827	Intlk16	2.1	✓
	FB1828	Lag	2.1	✓
	FB1829	Limit	2.1	✓
	FB1830	PIDConS	2.0	New!
	FB1832	MeanTime	2.1	✓
	FB1833	Pcs7Cnt1	7.1	✓
	FB1834	Pcs7Cnt2	7.1	✓
	FB1835	Pcs7Cnt3	7.1	✓
	FB1840	AssetM	7.1	✓
	FB1842	AutoExcitation	2.1	✓
	FB1843	ModPreCon	2.1	✓
	FB1844	LPOptim	2.1	✓
	FB1845	MonAnL	2.1	✓
	FB1847	MonDi08	2.1	✓
	FB1848	MonDiL	2.1	✓
	FB1850	MotL	2.1	✓
	FB1851	MotRevL	2.1	✓
	FB1854	MotSpdCL	2.1	✓
	FB1856	MotSpdL	2.1	✓
	FB1860	MuxAn03	2.1	✓
	FB1864	CountOh	2.1	✓
	FB1865	OpAnL	2.1	✓
	FB1866	OpDi01	2.1	✓
	FB1867	OpDi03	2.1	✓
	FB1868	OpTrig	2.1	✓
	FP1869	Pcs7AnIn	7.1	✓
	FB1874	PIDConL	2.1	✓

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Library	Block no.	Block name	Version	Supports delta loading
	FB1875	PIDConR	7.1	✓
	FB1878	PIDStepL	7.1	✓
	FB1881	Polygon	2.1	✓
	FB1882	RateLim	2.1	✓
	FB1883	Ratio	2.1	✓
	FB1886	SelA02In	2.1	✓
	FB1888	SelA16In	2.1	✓
	FB1890	Smooth	2.1	✓
	FB1896	VlvAnL	2.1	✓
	FB1897	Vlv2WayL	2.1	✓
	FB1899	VlvL	2.1	✓
	FB1900	VlvMotL	2.1	✓
	FB1903	AV	2.1	✓
	FB1904	EventNek	2.1	✓
	FB1905	FbDrive	7.1	✓
	FB1906	TotalL	2.1	✓
	FB1907	FbSwtMMS	7.1	✓
	FB1910	MotS	2.1	✓
	FB1911	VlvS	2.1	✓
	FB1912	MonAnS	2.1	✓
	FB1913	MonDiS	2.1	✓
	FB1914	ShrdResS	2.1	✓
	FB1915	OpAnS	2.0	New!
	FB1916	FlowCorr	2.0	New!
	FC358	Div02	2.1	✓
	FC372	SplRange	2.1	✓
	FC390	RealToDw	2.1	✓

Note

The new PCS 7 Advanced Process Library replaces the existing library when you update PCS 7.

6.2 PCS 7 Basis Library V8

Table 6-3

Library	Block no.	Block name	Version	Supports delta loading
PCS 7 Basis Library V80	FB81	PDM_MS	7.1	✓
	FB82	SUBNET_PN	7.2	✓
	FB83	OR_M_8C	7.2	✓
	FB84	OR_M_16C	7.2	✓
	FB85	OR_M_32C	7.2	✓
	FB88	CONEC	7.1	✓
	FB89	PS	7.1	✓
	FB90	RACK_PN	7.2	✓
	FB91	MOD_1	7.2	✓
	FB92	MOD_2	7.2	✓
	FB93	MOD_D1	7.1	✓
	FB94	MOD_D2	7.1	✓
	FB95	MOD_3	7.2	✓
	FB96	MOD_MS	7.1	✓
	FB97	MOD_HA	7.1	✓
	FB98	MOD_CP	7.1	✓
	FB99	MOD_PAL0	7.1	✓
	FB100	OB_BEGIN	7.1	✓
	FB106	SUBNET	7.2	✓
	FB107	RACK	7.1	✓
	FB108	DPAY_V0	7.1	✓
	FB109	PADP_L00	7.1	✓
	FB110	PADP_L01	7.1	✓
	FB111	PADP_L02	7.1	✓
	FB112	MOD_PAX0	7.1	✓
	FB113	DREP	7.1	✓
	FB116	PADP_L10	7.1	✓
	FB118	OB_DIAG1	7.1	✓
	FB119	MOD_4	7.1	✓
	FB124	FF_MOD32	7.1	✓
	FB125	DREP_L	7.1	✓
	FB126	FM_CNT	7.2	✓
	FB130	OB_BEGIN_PN	7.2	✓

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Library	Block no.	Block name	Version	Supports delta loading
	FB133	OR_HA16C	7.2	✓
	FB134	MOD_D3	7.2	✓
	FB137	MOD_64	7.2	✓
	FB139	FFDP_L1	7.1	✓
	FB145	FFD_CIF	7.1	✓
	FB146	OB_DIAGF	7.2	✓
	FB148	MOD_DRV	7.1	✓
	FB149	MOD_SWT	7.1	✓
	FB197	MOD_D8_PN	7.2	✓
	FB198	MOD_D16_PN	7.2	✓
	FB199	MOD_D24_PN	7.2	✓
	FB200	MOD_HA_PN	7.1	✓
	FB201	MOD_CP_PN	7.2	✓
	FB202	OB_DIAG1_PN	7.2	✓
	FB203	PADP_L10_PN	7.2	✓
	FB204	DPAY_V1_PN	7.2	✓
	FB205	OB_BEGIN_HPN	7.2	✓
	FB206	MOD_CENTRAL	7.0	New!

Note

The new PCS 7 Basis Library replaces the existing library when you update PCS 7.

6.3 SIMATIC BATCH Blocks V8.0

Table 6-4

Library	Block no.	Block name	Version	Supports delta loading
SIMATIC BATCH Blocks V8.0 SP1	FB252	TAG_COLL	8.0	✓
	FB253	IEOP	8.0	✓
	FB254	IEPH	8.0	✓
	FB255	IEPAR_DINT	8.0	✓
	FB256	IEPAR_BOOL	8.0	✓
	FB257	IEPAR_REAL	8.0	✓
	FB258	IEPAR_STR	8.0	✓
	FB259	IEPAR_ENUM	8.0	✓
	FB260	IEPAR_PI	8.0	✓
	FB261	IEPAR_PO	8.0	✓
	FB262	IEPAR_SOURCE	8.0	✓
	FB263	IEPAR_DEST	8.0	✓
	FB264	IEPAR_VIA	8.0	✓
	FB266	UNIT_PLC	8.0	✓
	FB267	RacipeControl	8.0	✓
	FB273	MemIDB64	8.0	✓
	FB274	EventSend	8.0	✓
	FC182	LookUpID	8.0	✓
	FC183	EPARGet	8.0	✓
	FC184	EPHGetHeader	8.0	✗
	FC185	TagCollGetHeader	8.0	✓
	FC186	EPARGetValue	8.0	✗
	FC187	EPHGetSW	8.0	✗
	FC188	EPHRun	8.0	✓
	FC189	ContGetRPEListSW	8.0	✓
	FC190	CallFB	8.0	✓
	FC191	CopyBlock	8.0	✓
	FC192	CheckEQMDB	8.0	✓
	FC193	RPEEnumEleListCW	8.0	✓
	FC194	RPEGetSPList	8.0	✓
	FC195	RPEGetSP	8.0	✓
	FC196	TransGetVal	8.0	✗
	FC197	RPHGetRef	8.0	✓

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Library	Block no.	Block name	Version	Supports delta loading
	FC198	RPHSetRef	8.0	✗
	FC199	RPHGetAllSP	8.0	✗
	FC200	TransGetAllPin	8.0	✓
	FC201	TransGetPin	8.0	✓
	FC202	TransGetPinOper	8.0	✗
	FC203	TrnasGetPinVal	8.0	✓
	FC204	RPHGetAllRef	8.0	✗
	FC205	TransSetGateVal	8.0	✓
	FC206	RPEPrepareOccupy	8.0	✓
	FC207	RPEGetSW	8.0	✓
	FC208	RPESetCW	8.0	✓
	FC209	RPEPrepareToCmpl	8.0	✓
	FC210	RPESetLinkCW	8.0	✓
	FC211	CommRPEEvent	8.0	✓
	FC212	CommSPDataToDB	8.0	✓
	FC213	ContPropagateRef	8.0	✓
	FC214	DebugTrace	8.0	✓
	FC215	NOPControl	8.0	✓
	FC216	ContSetSW	8.0	✓
	FC217	TransControl	8.0	✓
	FC218	RPHControl	8.0	✓
	FC219	ContControl	8.0	✓
	FC220	TransBCSControl	8.0	✓
	FC221	CmdControl	8.0	✓
	FC222	UnitParamControl	8.0	New!

Note

The new SIMATIC BATCH library replaces the existing library when you update SIMATIC BATCH.

6.4 SIMATIC Route Control V8.0 SP1

Library	Block no.	Block name	Version	Supports delta loading
SIMATIC BATCH Blocks V8.0 SP1	FB801	RC_ROUTE	8.0	✓
	FB803	RC_ROUTE_RCE_ON	8.0	✓
	FB806	RC_ROUTE_XC_SEND	8.0	✓
	FB809	RC_ROUTE_STATES	8.0	✓
	FB812	RC_TG34_TG36	8.0	✓
	FB816	RC_ROUTE_XC_SND_ORDER	8.0	✓
	FB817	RC_ROUTE_XC_PE_ACTIV	8.0	✓
	FB818	RC_ROUTE_GET_EXT_PE	8.0	✓
	FB821	RC_IF_REMOTE_CE	8.0	✓
	FB842	RC_IF_REMOTE_SE	8.0	✓
	FB843	RC_IF_REMOTE_PE	8.0	✓
	FB850	RC_IF_CFG	8.0	✓
	FB852	RC_MASTER_FUNC	8.0	✓
	FB856	RC_MASTER_BUFFER	8.0	✓
	DB100	RC_CFG	8.0	✗