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Release Notes of Concept V2.6 Service Release 7

This document contains the following sections:

- Installation
- New Features and Functionality in Concept V2.6 Service Release 7
- Quality improvement and bug fixing
- Known issues that are not solved with this Service Release
- CC2Cat installation

1 Installation

The installation of Concept V2.6 Service Release 7 requires at least an installed **Concept V2.6 basic version**. SR7 will update any Concept 2.6 version, the EFB-Toolkit and the Application Loader.

First download the Service Release SR7 from Schneider WEB page and run "Install.exe". During installation select the option "Upgrade Concept V2.6 XL/M/S", "Upgrade Concept V2.6 Application Loader" or "Install EXEC components separately". The option "Install EXEC components separately" will only update the Executive Loader.

Concept 2.6 SR7 contains all changes from Concept 2.6 SR1 till Concept 2.6 SR6a. For detailed information see Release Notes of Concept 2.6 SR1...SR6 and SR7.

To use an **EFB-Toolkit**, it must be installed prior to the installation of the SR7.

Supported Operating Systems

Service Release 7 supports Windows XP Professional, Windows Vista Business 32-Bit and Windows 7 Professional 32-Bit.

Windows 98, Windows NT4 and Windows 2000 are no longer validated.

WIN 2000 users have to have Administrator- or Power User rights when installing and running Concept 2.6 and its service parts.

Due to different security permissions, **WIN XP** users must have Administrator rights when installing and running Concept 2.6 and its service parts.

Windows Vista and Windows 7

Concept 2.6 SR7 will also run on Windows Vista Business 32 Bit (first introduced with Concept 2.6 SR5 Patch A) and on Windows 7 Professional 32-Bit. Detailed restrictions for the usage of Concept on Windows Vista and Windows 7 are described in chapter 6.

Since Concept has been released, the Microsoft Windows versions have changed and different security mechanisms were created and implemented. Concept, originally developed on WIN 3.1 was at that time not designed to support these security levels and an evolvement in this area would require a complete redesign.

MDC-files: By updating a Concept Version with a new Service Release, the MDC file information of the installed version will be lost and the 3rd party modules are no longer included in the project.

The loss of the MDC file information can only be recognized by a 'Bad Traffic Cop Stop' error 4000 at PLC start.

When users perform a Concept update in the form of a new version or service release, any MDC add-on's will require to be processed via the **ModConnect** tool again.

Authorization: Due to programming changes in the Concept application, it may be necessary for you to authorize this service release after installation.

Select Start→Programs→ Concept→Authorization

Select Task: "Authorize this PC"

or

Select Task: "Authorize by multi-user license disk"

Select one of the following methods of authorization: Phone, Fax or Email

Fill in your user information (required fields are marked with *)

*** **Important:** Please use the serial number and part number of your original Concept package***

1.1 Upgrade to Concept V2.6 SR7 from a version prior to V2.5 SR1

You must convert all applications with the Concept Converter before performing this install. For details please refer to the file "UPGRADE.PDF" in the Concept directory. Existing DFBs must be deleted from the local and global DFB directory before importing the project.



1.2 Upgrade to Concept V2.6 SR7 from version V2.5 SR1 or a later version

- With Concept V2.6 SR7, it is not necessary to convert existing projects from Concept V2.5 SR1, V2.5 SR2 or V2.6 SR1...SR6.
- Upgrade the PLC Exec (firmware) only, if necessary due to a bug fix or new feature usage (e.g. PLC memory defragmentation)

2 New Features and Functionality in Concept Version 2.6 SR7

2.1 New Hardware:

None

2.2 New Firmware/EXEC:

The IEC-PLC EXECs of Concept V2.6 SR7 are not compatible with EXECs from versions of Concept prior to Concept V2.5 SR1. Therefore an update of the firmware is necessary. See the table below for a complete list of the modifications.

Platform	PLC Name	Concept 2.6 SR7	Comment
Quantum	140 CPU x13 0x	Q186V245.bin	
	140 CPU x13 0xS	Q1SV248E.bin	IEC Only – Stripped Executive (old HW-revision)
	140 CPU x13 0xS	Q1rv301E.bin	IEC Only – Stripped Executive (latest HW-revision, PV-No >=6)
	140 CPU 424 0x	Q486V224.bin	
	140 CPU X34 0x	Q58V129E.bin	Older Hardware Revision
	140 CPU X34 0xA	Q5RV143E.bin	Latest Hardware Revision
	140 CPU 534 14B	Q5BV115E.bin	Latest Hardware Revision
Compact	All	CTSX225E.bin	
Momentum	171 CCS 7x0 x0-984	M1LLV207.bin	LL984 Only; XMIT Support
	171 CCC 7x0 10-984	M1LLV207.bin	LL984 Only; XMIT Support
	171 CCS 7x0 x0-IEC	M1IV212E.bin	IEC Only; XXMIT Support only
	171 CCC 7x0 10-IEC	M1IV212E.bin	IEC Only; XXMIT Support only
	171 CCC 9x0 x0-984	M1EV128.bin	LL984 Only; Ethernet Support
	171 CCC 9x0 30	M1EV131E.bin	IEC Only; Ethernet, with WEB pages
Atrium	180 CCO 121 01	AI3V046E.bin	No XXMIT Support
	180 CCO 241 01	AI5V417E.bin	No XXMIT Support
	180 CCO 241 01-S908	-----	No Concept 2.6 Support

2.3 Firmware/EXEC History Tables

The following tables show firmware/exec versions delivered with previous versions of Concept.

Concept Version	Quantum					
	140 CPU x13 0x	140 CPU x13 0xS (IEC only)	140 CPU 424 02	140 CPU x34 1x	140 CPU x34 1xA	140 CPU 534 14B
2.5 SR1	Q186v222.bin	Q1ECv250.bin	Q486V219.bin	Q58v108D.bin	Q5rv102D.bin	
2.5 SR2	Q186V230.bin	Q1sv230D.bin	Q486V219.bin	Q58v110D.bin	Q5rv104D.bin	
2.5 SR2a	Q186V230.bin	Q1sv230D.bin	Q486V219.bin	Q58v110D.bin	Q5rv104D.bin	
2.5 SR2b	Q186V230.bin	Q1sv230D.bin	Q486V219.bin	Q58v110D.bin	Q5rv104D.bin	
2.5 SR2c	Q186V230.bin	Q1sv230D.bin	Q486V219.bin	Q58v110D.bin	Q5rv104D.bin	
2.5 SR2d	Q186V230.bin	Q1sv230D.bin	Q486V219.bin	Q58v110D.bin	Q5rv104D.bin	
2.5 SR2e	Q186V230.bin	Q1sv230D.bin	Q486V219.bin	Q58v114D.bin	Q5rv109D.bin	
2.5 SR2f	Q186V230.bin	Q1sv230D.bin	Q486V219.bin	Q58v114D.bin	Q5rv109D.bin	
2.5 SR2g	Q186V240.bin	Q1sv241E.bin	Q486V219.bin	Q58v118E.bin	Q5rv127E.bin	
2.6 SR1	Q186V240.bin	Q1sv231E.bin	Q486V219.bin	Q58v115E.bin	Q5rv120E.bin	
2.6 SR1a	Q186V240.bin	Q1sv240E.bin	Q486V219.bin	Q58v117E.bin	Q5rv123E.bin	
2.6 SR1b	Q186V240.bin	Q1sv240E.bin	Q486V219.bin	Q58v117E.bin	Q5rv123E.bin	
2.6 SR1c	Q186V240.bin	Q1sv240E.bin	Q486V219.bin	Q58v117E.bin	Q5rv123E.bin	
2.6 SR1d	Q186V240.bin	Q1sv240E.bin	Q486V219.bin	Q58v117E.bin	Q5rv123E.bin	
2.6 SR2	Q186V240.bin	Q1sv241E.bin	Q486V219.bin	Q58v118E.bin	Q5rv126E.bin	
2.6 SR2a	Q186V240.bin	Q1sv241E.bin	Q486V219.bin	Q58v118E.bin	Q5rv126E.bin	
2.6 SR2b	Q186V242.bin	Q1sv242E.bin	Q486V220.bin	Q58v120E.bin	Q5rv129E.bin	
2.6 SR2c	Q186V242.bin	Q1sv242E.bin	Q486V220.bin	Q58v120E.bin	Q5rv129E.bin	
2.6 SR3	Q186V242.bin	Q1sv242E.bin	Q486V220.bin	Q58v121E.bin	Q5rv130E.bin	
2.6 SR3a	Q186V242.bin	Q1sv242E.bin	Q486V220.bin	Q58v122E.bin	Q5rv131E.bin	
2.6 SR3b	Q186V242.bin	Q1sv242E.bin	Q486V220.bin	Q58v122E.bin	Q5rv131E.bin	Q5bv103E.bin
2.6 SR4	Q186V243.bin	Q1sv243E.bin	Q486V222.bin	Q58v123E.bin	Q5rv132E.bin	Q5bv104E.bin
2.6 SR4_1	Q186V245.bin	Q1sv245E.bin	Q486V222.bin	Q58v123E.bin	Q5rv132E.bin	Q5bv104E.bin
2.6 SR4A	Q186V243.bin	Q1sv243E.bin	Q486V222.bin	Q58v123E.bin	Q5rv132E.bin	Q5bv104E.bin
2.6 SR4B	Q186V244.bin	Q1sv244E.bin	Q486V223.bin	Q58v124E.bin	Q5rv133E.bin	Q5bv105E.bin
2.6 SR4C	Q186V245.bin	Q1sv245E.bin	Q486V223.bin	Q58v125E.bin	Q5rv135E.bin	Q5bv107E.bin
2.6 SR5	Q186V245.bin	Q1sv245E.bin	Q486V223.bin	Q58v125E.bin	Q5rv136E.bin	Q5bv108E.bin
2.6 SR5A	Q186V245.bin	Q1sv246E.bin	Q486V224.bin	Q58v128E.bin	Q5rv139E.bin	Q5bv111E.bin
2.6 SR6	Q186V245.bin	Q1sv247E.bin	Q486V224.bin	Q58v129E.bin	Q5rv140E.bin	Q5bv112E.bin
2.6 SR6A	Q186V245.bin	Q1sv248E.bin	Q486V224.bin	Q58v129E.bin	Q5rv141E.bin	Q5bv113E.bin
2.6 SR7	Q186V245.bin	Q1sv248E.bin Q1rv301E.bin	Q486V224.bin	Q58V129E.bin	Q5rv143E.bin	Q5bv115E.bin

Concept	Momentum					
Version	171 CCS 7x0 x0	171 CCS 7x0 x0	171 CCC 9x0 x0	171 CCC 9x0 30	171 CBB 970 30	171 CBB 970 30
	171 CCC 7x0 10	171 CCC 7x0 10				
	(LL984 only)	(IEC only)	(LL984 only)	(IEC only)	(LL984 only)	(IEC only)
2.5 SR1	M1v203.bin	M1IEC250.bin	M1EV104.bin	M1EWI250.bin		
2.5 SR2	M1v203.bin	M1IV204D.bin	M1EV106.bin	M1EV106D.bin		
2.5 SR2a	M1v203.bin	M1IV204D.bin	M1EV106.bin	M1EV106D.bin		
2.5 SR2b	M1v203.bin	M1IV204D.bin	M1EV106.bin	M1EV106D.bin		
2.5 SR2c	M1v203.bin	M1IV204D.bin	M1EV106.bin	M1EV106D.bin		
2.5 SR2d	M1v203.bin	M1IV204D.bin	M1EV106.bin	M1EV106D.bin		
2.5 SR2e	M1v203.bin	M1IV204D.bin	M1EV106.bin	M1EV106D.bin		
2.5 SR2f	M1v203.bin	M1IV204D.bin	M1EV106.bin	M1EV106D.bin		
2.5 SR2g	M1LLV207.bin	M1IV210E.bin	M1EV120.bin	M1EV122E.bin		
2.6 SR1	M1LLV207.bin	M1IV208E.bin	M1EV107.bin	M1EV111E.bin		
2.6 SR1a	M1LLV207.bin	M1IV209E.bin	M1EV107.bin	M1EV112E.bin		
2.6 SR1b	M1LLV207.bin	M1IV209E.bin	M1EV107.bin	M1EV112E.bin		
2.6 SR1c	M1LLV207.bin	M1IV209E.bin	M1EV107.bin	M1EV112E.bin		
2.6 SR1d	M1LLV207.bin	M1IV209E.bin	M1EV107.bin	M1EV112E.bin		
2.6 SR2	M1LLV207.bin	M1IV210E.bin	M1EV120.bin	M1EV122E.bin		
2.6 SR2a	M1LLV207.bin	M1IV210E.bin	M1EV120.bin	M1EV122E.bin		
2.6 SR2b	M1LLV207.bin	M1IV210E.bin	M1EV120.bin	M1EV123E.bin		
2.6 SR2c	M1LLV207.bin	M1IV210E.bin	M1EV120.bin	M1EV123E.bin		
2.6 SR3	M1LLV207.bin	M1IV210E.bin	M1EV123.bin	M1EV123E.bin		
2.6 SR3a	M1LLV207.bin	M1IV210E.bin	M1EV126.bin	M1EV126E.bin		
2.6 SR3b	M1LLV207.bin	M1IV210E.bin	M1EV126.bin	M1EV126E.bin		
2.6 SR4	M1LLV207.bin	M1IV210E.bin	M1EV126.bin	M1EV126E.bin		
2.6 SR4_1	M1LLV207.bin	M1IV210E.bin	M1EV126.bin	M1EV126E.bin		
2.6 SR4A	M1LLV207.bin	M1IV210E.bin	M1EV126.bin	M1EV126E.bin	MPSV101.bin	MPSV102E.bin
2.6 SR4B	M1LLV207.bin	M1IV210E.bin	M1EV126.bin	M1EV127E.bin	MPSV101.bin	MPSV103E.bin
2.6 SR4C	M1LLV207.bin	M1IV210E.bin	M1EV126.bin	M1EV127E.bin	MPSV101.bin	MPSV103E.bin
2.6 SR5	M1LLV207.bin	M1IV210E.bin	M1EV126.bin	M1EV127E.bin	MPSV101.bin	MPSV103E.bin
2.6 SR5A	M1LLV207.bin	M1IV211E.bin	M1EV128.bin	M1EV130E.bin	MPSV103.bin	MPSV106E.bin
2.6 SR6	M1LLV207.bin	M1IV212E.bin	M1EV128.bin	M1EV131E.bin	MPSV103.bin	MPSV107E.bin
2.6 SR6A	M1LLV207.bin	M1IV212E.bin	M1EV128.bin	M1EV131E.bin	MPSV103.bin	MPSV107E.bin
2.6 SR7	M1LLV207.bin	M1IV212E.bin	M1EV128.bin	M1EV131E.bin	MPSV103.bin	MPSV107E.bin

Concept	Compact
Version	
2.5 SR1	CTSX202D.bin
2.5 SR2	CTSX205D.bin
2.5 SR2a	CTSX205D.bin
2.5 SR2b	CTSX205D.bin
2.5 SR2c	CTSX205D.bin
2.5 SR2d	CTSX205D.bin
2.5 SR2e	CTSX205D.bin
2.5 SR2f	CTSX205D.bin
2.5 SR2g	CTSX215E.bin
2.6 SR1	CTSX210E.bin
2.6 SR1a	CTSX212E.bin
2.6 SR1b	CTSX212E.bin
2.6 SR1c	CTSX212E.bin
2.6 SR1d	CTSX212E.bin
2.6 SR2	CTSX214E.bin
2.6 SR2a	CTSX214E.bin
2.6 SR2b	CTSX217E.bin
2.6 SR2c	CTSX217E.bin
2.6 SR3	CTSX218E.bin
2.6 SR3a	CTSX219E.bin

2.6 SR3b	CTSX219E.bin
2.6 SR4	CTSX221E.bin
2.6 SR4_1	CTSX221E.bin
2.6 SR4A	CTSX221E.bin
2.6 SR4B	CTSX221E.bin
2.6 SR4C	CTSX222E.bin
2.6 SR5	CTSX222E.bin
2.6 SR5A	CTSX223E.bin
2.6 SR6	CTSX224E.bin
2.6 SR6A	CTSX225E.bin
2.6 SR7	CTSX225E.bin

Concept	Atrium		
Version	180 CCO 121 01	180 CCO 241 01	180 CCO 241 01 –s908
2.5 SR1	AI3v042D.bin	AI5v035D.bin	-----
2.5 SR2	AI3v043D.bin	AI5v037D.bin	-----
2.5 SR2a	AI3v043D.bin	AI5v037D.bin	-----
2.5 SR2b	AI3v043D.bin	AI5v037D.bin	-----
2.5 SR2c	AI3v043D.bin	AI5v037D.bin	-----
2.5 SR2d	AI3v043D.bin	AI5v037D.bin	-----
2.5 SR2e	AI3v043D.bin	AI5v037D.bin	-----
2.5 SR2f	AI3v043D.bin	AI5v037D.bin	-----
2.5 SR2g	AI3v043D.bin	AI5v037D.bin	-----
2.6 SR1	AI3v044E.bin	-----	-----
2.6 SR1a	AI3v046E.bin	AI5v416E.bin	
2.6 SR1b	AI3v046E.bin	AI5v416E.bin	
2.6 SR1c	AI3v046E.bin	AI5v416E.bin	
2.6 SR1d	AI3v046E.bin	AI5v416E.bin	-----
2.6 SR2	AI3v046E.bin	AI5v416E.bin	-----
2.6 SR2a	AI3v046E.bin	AI5v416E.bin	-----
2.6 SR2b	AI3v046E.bin	AI5v416E.bin	-----
2.6 SR2c	AI3v046E.bin	AI5v416E.bin	-----
2.6 SR3	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR3a	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR3b	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR4	AI3v046E.bin	AI5v417E.bin	-----
2.6SR4_1	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR4A	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR4B	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR4C	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR5	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR5A	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR6	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR6A	AI3v046E.bin	AI5v417E.bin	-----
2.6 SR7	AI3v046E.bin	AI5v417E.bin	-----

2.4 Additional Execs

Please see our web page www.schneider-electric.com for any updates to these executives.

3 Quality improvement and bug fixing

The following issues have been fixed in Service Release 7.

3.1 Configuration

3.1.1 Cannot configure ADM-850-10 / ADO-830-30 within Momentum I/O bus drop

Problem Description:

Momentum modules 170-ADM-850-10 and 170-ADO-830-30 can be configured within local drop but not within I/O bus drop.

Affected module:

Sysnfdb.s*

3.1.2 OK button in DCP drop dialog doesn't work

Problem Description:

In PLC Configuration open the I/O Map Configuration and create a DCP drop. The OK button to accept the settings in the DCP drop dialog box doesn't work, when any registers are configured.

Affected module:

Config.dll

3.2 Export / Import

3.2.1 Project export with Concept Converter fails

Problem Description:

Under special circumstances the export of a Concept-project with the Concept-Converter is aborted with the error-message "Section xxx (Typ xxx) export not implemented". The Export file is incomplete and can't be used.

Affected module:

Ai.dll

3.3 Execs

3.3.1 Checksum calculation for IEC Execs

Description:

A new IEC checksum calculation during Runtime has been introduced in the Quantum PLC Exec.

Behaviour with new PLC Exec

- If there is an inconsistency in the IEC application storage structure, the PLC stops with stop-code 0004.
- The runtime heap check increases the PLC cycle time (not more than 1 millisecond)

- The size of the downloadable EXEC firmware file is now 400KB (392KB before).

NOTE:

- The available application memory is not affected by the bigger EXEC size.
- Since the runtime check is time-sliced, a corruption of the heap is not immediately detected. The worst time needed to detect a defect depends on the size of the application i.e. mainly on the number and size of the program sections.

User action:

Update the PLC firmware to enable the IEC checksum calculation.

Affected module:

Platform	PLC Name	Firmware
Quantum	PLCSim32	Plcsim32.exe
	140 CPU x34 1xA	Q5RV143E.bin
	140 CPU 534 14B	Q5BV115E.bin

3.4 Documentation improvements

3.4.1 Compact I/O's from Modsoft are not converted

Problem Description:

When importing a Modsoft project for a Compact PLC with the Modsoft Converter, the I/O modules of the Compact are not imported in the Concept project. When starting conversion, you are asked for a CPU. If the Modsoft CPU type is not known in Concept, you have to select a compatible Concept CPU, but in this case the I/O modules are not converted. This behavior is not described.

Affected module:

Concman.hlp, Modcvt.hlp

3.4.2 Ethernet I/O scanner dialog

Problem Description:

In the "Ethernet I/O scanner" dialog the documentation about the following topics has been improved.

- Diagnostic block / Device Control block
- Repetition rate
- Setting Ethernet Address parameter

Affected module:

Concman.hlp, Conccont.hlp

3.4.3 PLC selection dialog

Problem Description:

In the Context help of the "PLC selection dialog" the section "Number of I/O maps allowed with stripped Quantum CPUs" contains a table, which is incomplete.

Affected module:

Concman.hlp

3.4.4 Compact I/O module documentation

Problem Description:

The compact module VRC/ CTR2xx requires three registers for input / output data. The Online documentations states, that 9 input and 1 output register is necessary. This is not correct and needs to be corrected.

Affected module:

Comp_EA.hlp

4 Known issues that are not solved with this Service Release

Variable Editor and DTY-File

The project contains user defined global data types. The Variables have init values.

If the user copies the global DTY file to the local DFB folder, then the init values in the Variable Editor are lost.

Introducing a new DTY file into a project leads to NOT EQUAL. There is no problem if DDT/INC files are used instead of DTY.

Section Export

The Section Export of FBD sections to ST/IL doesn't export the logic which is linked to EN/ENO pins. The user gets the message that EN/ENO pins are ignored; the related logic will not be exported.

Health Bit of Ethernet I/O

The Health bit of Ethernet I/O modules doesn't work, if the Timeout value in the Ethernet I/O scanner configuration is Zero.

Re-Enabling of Disabled Variables in RDE of mixed LL/ IEC applications

In mixed applications the re-enabling of Disabled Variables (deleting checkmark in disable column) behaves different to IEC only.

It is recommended to download in two steps: First Download the Configuration and the LL984 logic, than download the IEC logic. This will lead to a correct Release of Disabled Variables.

WIN-NT, no virtual ModbusPlus driver installed

In order to pass program execution to the ModbusPlus device driver, Concept (and Modsoft) triggers an MSDOS software interrupt. The default interrupt number for this job is 5C(hex).

If no virtual ModbusPlus driver is installed, the virtual MSDOS environment under Windows NT will have problems with this interrupt. If an exception occurs under described circumstances change the interrupt number to 5D(hex) in the **MODICON.INI**:

[PORTS]

mbp0=5d

If interrupt 5D is caught by the NTVDM.exe the exception fault should no longer occur.

ESI 062 and NOA 611 in the local rack

If ESI-062-00 has a lower slot position in the local rack than NOA-611-xx the IBS communication will stop after some minutes (2-20min.).

The behavior is not observed if NOA-611-xx has a lower slot position than ESI-062-00.

NOA 622

The Generic Bus Table (GBT) is limited to 64 KB!

HLI 340

In case the 140-HLI-340-00 is used it is necessary to power cycle the PLC after loading a new executive to the PLC.

Otherwise it might happen that the CPU doesn't recognize the HLI signal changes.

Hot Stand By

SET_TOD is not running properly in the first section of a Quantum Standby PLC.

If the SET_TOD is programmed in the first executed section and the PLC clock registers are configured to the Non Transfer Area, then the Standby PLC clock will be synchronized.

PLC clock registers are configured to the Non Transfer Area.

The SET_TOD is programmed in the first section and will be activated each 3s.

However the Standby PLC clock will be synchronized sporadically (a few minutes).

Download Changes must be done with the Primary Controller, not with the Standby controller. To get identical applications in Primary and Standby controller the user has to perform the XFER mechanism.

Start behavior of digital outputs mapped to 4x registers

In principle all digital outputs mapped to 0x registers are cleared when the controller starts. 4x registers are normalized with the download of the configuration! However if digital outputs are mapped to 4x registers the output value depends on the current value of the assigned register.

Uploading a project with DFBs having ST sections from Concept 2.5 might not possible

Until Concept 2.5 SR2, DFBs could be precompiled in 'large mode' and in 'small mode'.

Since Concept 2.6 SR1 DFBs are always precompiled in the 'large mode'.

Projects with DFBs having ST sections will have problems during Upload, if a PLC contains a DFB from Concept 2.5 precompiled in 'small mode', because for Uploading a project to Concept 2.6 all DFBs are expected to be precompiled in 'large mode'

Because Uploading to Concept 2.6 with such projects is not possible, customers have to force that the project will be precompiled in 'large mode'. This can be done with:

- export and import again the whole project by the Concept-Converter
or
- select 'Concept---Project--Update data types in nested DFBs' in Concept2.6

GPF might occur under Windows NT, if calling other programs out of Concept

Calling programs like Congrat, PlcSim32, Sycon or Ccverinf out of Concept 2.6 might lead to a GPF under Windows NT. If this happens, call these programs separately before invoking Concept.

IEC Upload doesn't update unlocated init values, which have been changed via Advanced Monitor window.

The advanced monitor accesses the online database on the PLC and can update the initial values in the Concept database. However it does not update the PLCs upload information. This means, that in case of an IEC upload from the PLC, the initial values changed via the Advanced Monitor Editor will be overwritten by the initial values from PLC Upload of the Concept Database.

The only possibility to change the initial values in the IEC Upload information of the PLC is via the complete download (during stopped PLC) using the "ALL" button in the download controller menu.

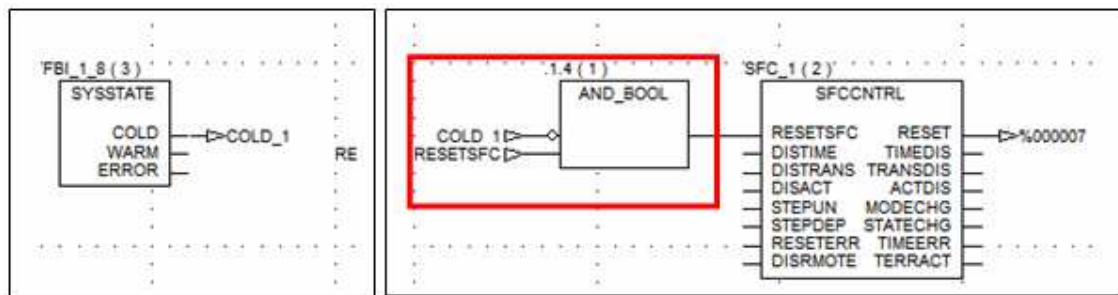
SFC initial step and SFCCNTRL function block

The SFCCNTRL function block doesn't reset the Initial step, if the input RESETSFC is already TRUE in the first scan after download and PLC start.

Workaround:

The RESETSFC input must be linked with the inverted output COLD (Cold-start flag) of the SYSSTATE function block (see picture).

(If there are actions linked to the Initial Step, they also need to be linked with the COLD start flag, so that they are not activated in the first PLC scan)

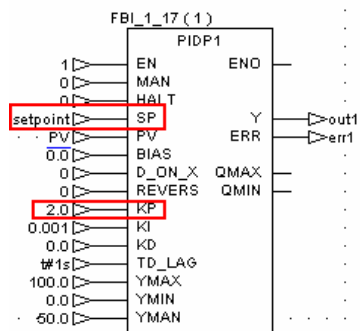


PID function blocks PID, PID1, PIDP1

If the function block PIDP1, PID1 or PID is used as PI controller and the value at the input SP is already set in the first PLC scan, then the proportional component isn't working.

Workaround:

The input value SP or KP of the PIDP1 must be zero in the first PLC scan. Please do not assign init values >0 to the variable connected to these inputs.



5 CC2CAT Installation

Mandatory adjustment in Concept

CC2CAT requires that Concept generates/updates the ".VAR" file during a manual or automatic save operation. The export of variables to the ".VAR" file needs to be enabled by an entry in section 'Common' in CONCEPT.INI:

[Common]

ExportVariables=1

Installation hints for CC2CAT

CC2CAT provides COM interfaces for other applications and allows access to Concept's project and variable information.

The functionality of CC2CAT has been extended and adapted to Concept V2.5/V2.6 so that the upgrade from a previous version of Concept also requires an upgrade of CC2CAT.

Applications using a previous version of CC2CAT (for Concept V2.1x/2.2) need to be modified due to Concept V2.5/V2.6 new features and the modified addressing mode for variables and structures.

CC2CAT for Concept V2.5/V2.6 is installed optionally in a subdirectory (\CC2CAT) of the Concept install path. The install program makes all the necessary entries in the Windows registry.

Applications using CC2CAT must take into account all the changes compared to previous versions of Concept and of CC2CAT mentioned above!

The entries in the Windows registry need to be changed, if CC2CAT is to be used with an earlier version of Concept or vice versa!

All applications using CC2CAT (e.g. OPC-Factory-Server, OFS) as well as CC2CAT itself must be closed before changing the registry entries!

You have installed CC2CAT (new) for Concept V2.5/V2.6. Now you want to activate an older version of CC2CAT (old) for an older version of Concept.

The following example demonstrates the steps and the commands needed to be carried out in order to manually modify the registration of CC2CAT:

1. Remove the "new" CC2CAT Windows registry information:
C:\CONCEPT2.5\CC2CAT\CC2CAT32.EXE -Unregserver
2. Go to the "old" Concept directory (version prior to Concept V2.5 SR1)
and register the "old" CC2CAT version:
C:\CONCEPT_ALT\CC2CAT.EXE -Regserver

If you wish to undo the registration of the "old" CC2CAT and work again with the "new" Concept V2.5/V2.6, simply reverse the order of de-registration and registration of the different versions of CC2CAT:

1. Remove the "old" CC2CAT Windows registry information:
C:\CONCEPT_ALT\CC2CAT.EXE -Unregserver
2. Change to the "new" Concept directory and re-register:
C:\CONCEPT2.5\CC2CAT\CC2CAT32.EXE -Regserver

The following files must be installed after CC2CAT is successfully installed:

\CC2CAT\CC2CAT32.EXE
\CC2CAT\TXTCOMP32.DLL
\CC2CAT\TXTBASE32.DLL
\CC2CAT\CCINTERN.DTY

Remark:

In some cases the registration of CC2CAT fails due to the fact that some system-DLLs are active and could not be replaced. If this happens, please reboot your PC and try to install Concept again. These DLLs will be replaced automatically after rebooting the PC.

6 Restrictions for Concept usage on Windows Vista and Windows 7

6.1 General conditions for installation and authorization of Concept

Problem Description:

To install Concept you need to be logged in as an **Admin user**, otherwise you do not have the right user privileges and the install will not proceed.

To authorize Concept you have to Run the authorization process as Administrator (Right-click the program file (for example: Concept or Saautor.exe), and then click **Run as administrator**).

You will find more information about that topic on following Web sites:

<http://support.microsoft.com/kb/922708/en-us>
http://en.wikipedia.org/wiki/User_Account_Control

6.2 Unable to open Help files that require the Windows Help program

Problem Description:

Since Windows 3.1, Microsoft included the Windows Help program (**WinHlp32.exe**) with new releases. WinHlp32.exe is used to view 32-bit Help files that have the “.hlp” file name extension. Starting with the release of Windows Vista and Windows Server 2008, Microsoft has decided to no longer include in WinHlp32.exe as a component of the Windows operating system. Microsoft made this decision because WinHlp32.exe has not had a major update for many years, and it does not meet Microsoft’s standards for all new Microsoft programs. Microsoft realizes that this may cause some difficulties for customers who want to upgrade to Windows Vista or to Windows Server 2008 but still rely on 32-bit “.hlp” files. Therefore, Microsoft offers WinHlp32.exe as a download from the Microsoft Download Center. Starting with the release of Windows Vista, third-party software developers are no longer authorized to redistribute WinHlp32.exe with their programs.

User action:

Download “WinHlp32.exe” for Windows Vista and Windows 7
To download the WinHlp32.exe visit the following Microsoft Web site:
<http://go.microsoft.com/fwlink/?LinkID=82148>

Affected module:

Winhlp32.exe

6.3 Adobe Reader 9 needed for reading PDF files under Windows Vista and Windows 7

Problem Description:

Third-party software developers are no longer authorized to redistribute Adobe Reader 9 with their programs.
To get a free version of Adobe Reader 9 users have to download it from Adobe.com.

User action:

Download Adobe Reader 9 for Windows Vista or Windows 7 from the following Web site
<http://www.adobe.com>

6.4 Unable to show ‘Readme’ during installation of V2.6 basic version

Problem Description:

The install of Service Release 7 requires at least an installed Concept V2.6 basic version. During the installation of the basic version it’s not possible to see the Readme-file, because the program used to show the Readme isn’t compatible with Windows Vista / Windows 7.

User action:

Deselect option for showing “ReadMe” at the end of the installation of the Concept V2.6 basic version. The “ReadMe” file for the basic version can be found on the SR7 documentation CD.

6.5 Error message after SR7 installation

Problem Description:

Even if the installation of the Service Release 7 was successfully, you may see the error-message "This program might not have been installed correctly" under Windows 7.

User action:

Please select the option "This program installed correctly" to finish the installation.

6.6 MBX Driver Suite for Windows 7

Problem Description:

For the Modbus Plus communication under Windows 7 the new MBX driver suite V7.1 need to be installed. The new driver supports 32 Bit and 64 Bits Windows 7 versions.

User action:

Install MBX driver Suite V7.1 for Windows 7 from <http://www.schneider-electric.com>

6.7 Connection to Simulator might be lost

Problem Description:

In some cases the connection to the Simulator might be lost. An error message "Time-out waiting for response from controller (Get Value Response) Error ID OLI-21744" occurs.

User action:

Reconnect to Simulator