

SR39CTRL-3

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Siemens APACS+ Control CD 7.0 Service Pack 1 (SP1)

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We have checked the contents of this manual for agreement with the hardware and software described. Since deviations cannot be precluded entirely, we cannot guarantee full agreement. However, the data in this manual is reviewed regularly and any necessary corrections included in subsequent editions. Suggestions for improvement are welcomed.

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As part of our long term support commitment to APACS+ we are releasing Version 7.0 Service Pack 1 (SP1) of the Control Products which will be available effective May 15, 2012. This release was created to provide support for Windows 7 and Server 2008 (32 and 64bit).

We have bundled the new SP1 CD into the existing APACS+ Control Products. This means that a customer will receive the V7.0 CD, the V7.0 SP1 CD, and the updated Electronic Manuals CD.

For a customer who needs a new license they can purchase UPH:PS032011V70.

For customers who need to update their existing license they need to provide the License Serial Number and order UPH:PS032303V70U APACS+ V7.0 Control Update Kit.

NOTE:

- 1. The APACS+ OPC Server could not be validated on Windows 7 and Server 2008, therefore it is not included on the V7.0 SP1 CD.**

1. Supported Operating Systems

The following operating systems are supported by the Control CD 7.0 SP1:

Windows 7 32-bit, Enterprise and Ultimate
Windows 7 64-bit, Enterprise and Ultimate
Windows Server 2008 32-bit
Windows Server 2008 R2 64-bit
Windows XP

Note:

The MBI and MBI/MNI card are not supportable with Windows 7 and Server 2008. The MBUS drivers are not included on the V7.0 SP1 CD. Connectivity between Engineering Stations, Single Stations, and Servers to APACS+ and QUADLOG Controllers can be provided with the IEM (Industrial Ethernet Module) 6EQ2020-0AC03-5XX0. The IEM provides a connection to MBUS and provides an Ethernet connection to Engineering Stations, Single Stations, and Servers.

2. Safety Matrix requirements

The Safety Matrix requires Excel for operation. The Safety Matrix will only run under 32-bit versions of Excel and has been tested with Excel 2010 32 bit. If you are using Safety Matrix in a 64-bit version of Windows 7 or Server 2008 you must still use a 32-bit version of MS office.

3. What's New in SP1

The Control CD 7.0 SP1 now includes the installation of the Safety Matrix. The Safety Matrix CD V2.0 is also included in the package to provide continued support of operating systems not supported by Control CD V7.0 SP1.

The Control CD 7.0 SP1 has been updated to work with new 64 bit and 32 bit Windows operating systems. (4-mation Configuration Program V4.56)

Service Pack 1 of the Control CD 7.0 includes the following Quick Patches:

QP CTRL-21 (QUADLOG CCMx V3.52) P/N 16445-21 and QP CTRL-22 (QUADLOG CCM+ V3.41) P/N 16445-22

The IFI_COMM function block is used to detect problems in the fiber optic IOBUS connection that may not be detected by the controller operating system. This FB solution should only be used when IFI (IOBUS Fiberoptic Interface) is connected in the QUADLOG system. This FB will report a system error (SSC29:EC15) if certain faults occur that degrade the IOBUS communications through the IFI.

QP CTRL-24 (APACS Runtime API V4.51) P/N 16445-24

The API can now handle up to 200 resources (controllers, servers, or other stations) to better accommodate large systems which use IEMs to combine several local MBUS networks. Previously the limit was 100.

The API is no longer affected by changing time of day clock on host PC. When the host PC's time of day clock was adjusted, the previous versions of API could temporarily make data unavailable. This was corrected in 4.51 and no longer happens.

QP CTRL-25 (4-mation Configuration Program V4.55) P/N 16445-25

4-mation can now handle up to 200 resources (controllers, servers, or other stations) to better accommodate large systems which use IEMs to combine several local MBUS networks. Previously the limit was 100.

QP CTRL-27 (ACMx Controller Operating System V4.52) P/N 16445-27

ACMx Redundant systems when powered down may power up with orphaned 29:10 (module's IOBus side A failed) or 29:11 (module's IOBus side B failed) errors posted against I/O modules. This has been corrected.

QP CTRL-28 (QUADLOG FSC_GW Library) P/N 16445-28

The purpose of this quick patch release is to provide an enhancement. The Fail Safe Gateway Communications Function Block Library provides failsafe communications for use with the IEM in a peer to peer fashion.

This package contains the Fail Safe Communications Gateway Function Block Library (FSC_GW_S and FSC_GW_R) V3.41 for CCM+ and V3.54 for CCMx, using the IEM Gateway V2.1. Please refer to the Configuration Guide

(CG39FSC-1r3) for information on general operation of the FSC_GW library and the restrictions. The IEM User's Manual (Industrial Ethernet Module (IEM) User's Guide.pdf) contains other useful installation information.

QP CTRL-30 (IOSIM DLL for Control Simulator V4.50) P/N 16445-30

Corrected fatal unhandled exception when I/O tag name is "%" + 15 characters. This correction pertains to both TOT_IO_SIM and PART_IO_SIM function blocks.

QP CTRL-31 (GW FBs for ACM/ACM+ V4.45, ACMx V4.52) P/N 16445-31

Gateway Function Blocks (GW_SEND and GW_REC) now have String arrays. Gateway Function Blocks (GW_SEND and GW_REC) now allow R_IDs above 127 thru 512 to function.

In addition Service Pack 1 of the Control CD 7.0 adds the following:

New IFI Function Blocks for Fiber Optic IOBus APACS+

The IFI_COMM function block is used to detect problems in the fiber optic IOBUS connection that may not be detected by the controller operating system. This FB solution should only be used when IFI (IOBUS Fiberoptic Interface) is connected in the APACS+ system. This FB will report a system error (SSC29:EC15) if certain faults occur that degrade the IOBUS communications through the IFI.

New version of Control Core, V4.51

If the READ function block processes arrays, the controller may get an unhandled exception. This has been corrected. Now the READ function block rejects array processing.

Send Not Ready may cause problems, this has been corrected.

If the READ function block gets a message with a bad handle, the controller may get an unhandled exception. This has been corrected. Now the READ function block rejects messages with bad handles.

New Gateway Function Blocks for QUADLOG controllers.

Gateway Function Blocks (GW_SEND and GW_REC) now have the correct softlist Version.

Gateway Function Blocks (GW_SEND and GW_REC) now allow R_IDs above 127 thru 512 to function.

New ACM/ACM+ operating system, V4.44

This fixes random posting and clearing of 29:10 and 29:11 warnings on the ACM/ACM+ peer-to-peer backup controllers.