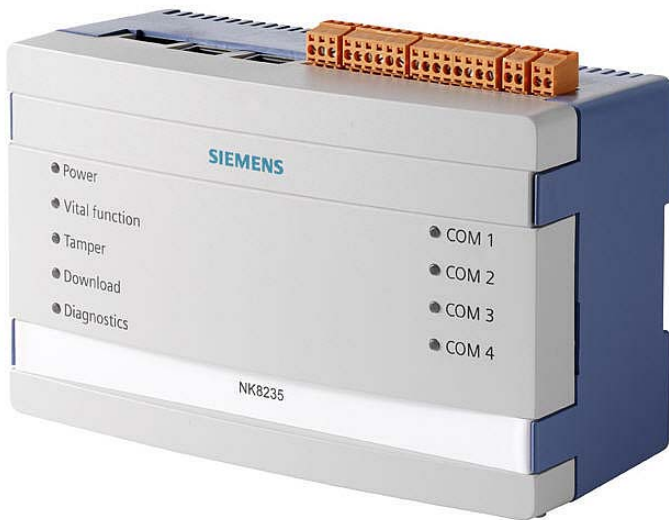


SIEMENS



NK8000 MP4.40

NK8231 DMS8000 CEI Interface for a single subsystem

NK8232 DMS8000 Ethernet Port for a single subsystem

NK8235 DMS8000 Ethernet Port

NK8237 Modbus Gateway for Sinteso™ and Cerberus® PRO Fire Detection Systems

Release Notes

Building Technologies

Fire Safety & Security Products

Data and design subject to change without notice. / Supply subject to availability.

© 2011 Copyright by
Siemens Switzerland Ltd

We reserve all rights in this document and in the subject thereof. By acceptance of the document the recipient acknowledges these rights and undertakes not to publish the document nor the subject thereof in full or in part, nor to make them available to any third party without our prior express written authorization, nor to use it for any purpose other than for which it was delivered to him.

1	Introduction	4
1.1	NK8000 family.....	4
2	What's new in MP4.40.....	5
2.1	Defect correction	5
2.2	Subsystem compatibility summary.....	5
3	Network connectivity options.....	7
4	NK823x firmware	8
5	Known problems & bugs.....	9
6	Documentation	11
6.1	DMS8000 Documentation Resource Information & Glossary	12
6.2	NK8000 Sales documentation	12
6.3	NK8000 Technical documentation	13
7	Support links and resources	14
7.1	Siemens BT FS.....	14
7.2	Microsoft.....	14
7.3	Adobe Acrobat	14

1 Introduction

NK8000 **MP4.40** is now available.

These release notes provide the characteristics of the new NK8000 network products, including bug corrections and known issues. We recommend reading this document carefully before installing and using the software.

1.1 NK8000 family

The new NK8000 product list includes:

- **NK8231 CEI Interface for a single subsystem**
- **NK8232 Ethernet port for a single subsystem**
- **NK8235 Ethernet port**
- **NK8237 Modbus Gateway for FS20/FS720**

Obsolete products:

- **NK8222 Ethernet port for a single subsystem**
- **NK8223 Ethernet port**
- **NK8225 Ethernet port**

These units are to be used as network units for the DMS8000 hosts listed below.

- MM8000 management station MP4.40
- MK8000 OPC server MP4.40
- MT8001 management terminal MP4.30
- MM2000 management station (NK8231 only)

2 What's new in MP4.40

Group	Description
NK8000	Support for FS20/FS720 connectivity via NK823x including system-wide interactions
	Modbus gateway functions for FS20/FS720 on NK823x
	Filtering and searching options in NK8000 web-based tool
	Configuring I/O logic in NK8000
	Secure NK8000 configuration download

2.1 Defect correction

Various defects have been corrected in this software release. For a detailed report, please refer to the FS-DMS support site (see 7.1 at p.14).

2.2 Subsystem compatibility summary

Control units	Notes about version supported	Connectivity and configuration notes	Further info. in DMS8000 documentation
FS20 Sinteso™	MP1.3, MP2.1 MP3.0; MP3.0 SR2	LAN; NK8000 LAN	Network, Fire & Intrusion Connectivity Guide: A6V10062425
FS720 Cerberus® PRO	MP1XS IP2; IP3/MP3.0 SR2	LAN; NK8000 LAN	Network, Fire & Intrusion Connectivity Guide: A6V10062425
CS11 AlgoRex® EP5 and EP7 FC700A	EP7F Z1, Z2, Z3, Z4, Z5	Direct link, Cerloop, and NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
CS1115 Phase 4 FC330A Phase 4	CISxx8.86	Direct link, NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
SIGMASYS C and M, D100	SIGMASYS V3.5, V3.7, V3.8 D100 V40-2 PLAN D100 export tool V7.2	NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
STT11		STT2410 and STT20 via NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
STT2410 / STT20		via NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
CZ10	Eprom on communication board: CZAX22.41 (Cerban) CZAX23.41 (Cerloop)	Cerloop and NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
CC60	Eprom in U2 position: CCG001.05 (-19)	Cerloop and NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
CZ12	Eprom on communication board: BKB002.08	Cerloop and NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
CS4	Eprom on communication board: CK402 V6B – CKP003.01 (BCD) CK430 V9 – CKP041.01 (HEX)	Cerloop and NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
CS440	Eprom on communication board: CK440 V9 – CKP041.01 (HEX)	Cerloop and NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
XLS	V6.00.21, Zeus Tool V6.0 V7.00.2245, Zeus Tool V7.0	NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
CS6 Quarto™	MP3 MP3+	NK8000 (NK822x only)	Network, Fire & Intrusion Connectivity Guide: A6V10062425
SI410/420 Intrunet (no encryption)	Firmware F8-04, F8-05, F8-07, F09-22, and G1 (F9-22 or G1 is required for SMN42/43)	Direct link, NK8000, and IP connection	Network, Fire & Intrusion Connectivity Guide: A6V10062425
DMS7000 units including MM-IE2		Cerloop and NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425

SIMATRIX 164; 648; SYS, SIMATRIX NEO		NK8000	Video Connectivity Guide: A6V10062457
DF8000 I/O (DF8003 or CF9003 + F8020/8040/8045/8046)		NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425 DF8000 ICC: A6V10081388
MF7033/MM7033		Cerloop and NK8000	Network, Fire & Intrusion Connectivity Guide: A6V10062425
Philips/Burle CCTV (LTC 8x00)		NK8000 (not tested with new NK823x)	Video Connectivity Guide: A6V10062457
SIMATIC S7		LAN / OPC	OPC Connectivity Guide: A6V10065253
Autronica BSxxx	V3.20	NK8000 - Add-on package is required	Autronica BS Add-on manual A6V10238656
LIST SCU 2000 (field test only)	SCU 2000	NK8000 - Add-on package is required	LIST Add-on manual A6V10238692
MAXSYS PC6010	V2.11	NK8000 - Add-on package is required	MAXSYS Add-on manual A6V10238694
CP100	Cpa402c	NK8000 - Add-on package is required	CP100 Add-on manual A6V10238690
Modbus-based subsystems	V1.1a. One connection (no cluster) in RTU mode (no ASCII).	NK8000 - Add-on package is required	Modbus Add-on manual A6V10067800
Fibrolaser II Modbus		NK8000 - Add-on package is required	Modbus Add-on manual A6V10067800
CDDL/CDSF-based subsystems	CDDL V1.0 CDSF all variants	NK8000 - Add-on package is required	CDDL/CDSF Add-on manual A6V10067787
Modbus Station (FS20/FS720 gateway)	LAN or RTU mode (no ASCII).	NK8000 - Add-on package is required	NK8237 ICC MP4.40 manual A6V10316241
Analog Modem	Siemens NK8021 Analog modem. Siemens M20 or MC35i GSM modem		

3 Network connectivity options

The following matrix shows the connectivity options currently available for DMS800 MP4.40 systems.

KEY: **DMS** MM8000, MK8000, and MT8001 **MM/MT** MM8000 and MT8001
MM/MK MM8000 and MK8000 **MM** MM8000 only

Connection	Network	Direct RS232	Cerloop	LAN IP			NK8000										CDI-Net GWxx		
								NK822x				NK823x						GW00 / 01	
								NK8222 / NK8223 / NK8225		NK8225		NK8232 / NK8235						GW20 / 21	
Upstream data-link protocol	Propriet.	ISO1745	BACnet/IP	OPC	Propriet.	CMSDL serial	CMSDL/IP, CEI79-5	BACnet/IP		CMSDL serial	CMSDL/IP, CEI79-5	BACnet/IP		CMSDL serial					
Downstream network	Direct	Cerloop	LAN	LAN	LAN	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop		
Downstream interface device	-	MK7022	-	-	-	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022
FS20 Sinteso, FS720 Cerberus PRO			MM/MK											MM/MK		MM/MK			
CS11 AlgoRex EP5 & EP7	DMS	DMS				DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
FC700A	DMS					DMS		MM/MK		MM/MK		DMS		MM/MK		MM/MK		MM/MK	
CS1115 / FC330A	MM/MK											MM/MK		MM/MK		MM/MK		MM/MK	
CZ10, CC60		DMS				DMS	DMS	MM/MK	MM/MK			DMS	DMS	MM/MK	MM/MK			MM/MK	
XLS						MM/MT		MM		MM		MM/MT		MM		MM			
STT11		DMS					DMS		MM/MK			DMS		MM/MK				MM/MK	
STT20 / STT2410							MM/MK		MM/MK	MM/MK			MM/MK		MM/MK		MM/MK		
SIGMASYS/D100						MM/MK		MM/MK		MM/MK		MM/MK		MM/MK		MM/MK			
SPC5000/6000 Intrunet					MM/MK														
CS440		DMS				DMS	DMS	MM/MK	MM/MK			DMS	DMS	MM/MK	MM/MK			MM/MK	
CZ12 / CS4		MM/MK				MM/MK	MM/MK	MM/MK	MM/MK			MM/MK	MM/MK	MM/MK	MM/MK			MM/MK	
CS6 Guarto (via LON interface)						DMS		MM/MK		MM/MK				MM/MK		MM/MK		MM/MK	
SI410 / 420 / Plus Intrunet	MM/MK				MM/MK	DMS		MM/MK		MM/MK		DMS		MM/MK		MM/MK			
MF7033 / MM7033		DMS				DMS	DMS	MM/MK	MM/MK			DMS	DMS	MM/MK	MM/MK			MM/MK	
DF8000 / CF9000 I/O						DMS		MM/MK		MM/MK		DMS		MM/MK		MM/MK		MM/MK	
SIMATIC S7 Modbus						MM		MM		MM		MM		MM		MM			
SIMATIC S7 OPC					MM														
SIMATRIX / SIMATRIX NEO						MM/MK		MM/MK				MM/MK		MM/MK				MM/MK	
Philips-Burle video matrices						MM/MK		MM/MK		MM/MK		MM/MK		MM/MK		MM/MK			
SISTORE AX/CX/MX/SX					MM/MK														
TELSCAN / IP cameras (*)					MM/MK														
SiPass ACC, CerPass CC30					MM/MK														
DESIGO PX			MM																
ESPA Pager	MM																		
Analog Modem								MM/MK						MM/MK					
Bosch DVR					MM														
NICE DVR					MM														
M5 R-card					MM														
Autronica BSxxx																			
LIST SCU 2000 (field test only)						MM		MM		MM		MM		MM		MM			
MAXSYS PC601																			
CP100																			
CDDL/CDSF units						MM		MM		MM		MM		MM		MM			
Modbus units																			

(*) IP cameras with TELSCAN protocol are supported. IP cameras can also be connected via SISTORE MX.

4 NK823x firmware

MP4.40 firmware files are distributed in the following sets of files:

- NK822x files
- NK823x files

The firmware is pre-loaded in the NK82xx units and also distributed in the Composer tool environment in compressed (ZIP) files.

Units installed with previous versions can be updated with the latest release using standard Composer commands (see the DMS8000 Network and Subsystem Connectivity Guide). Make sure to download the correct set of files.

Upgrade

Upgrading from NK8222/3 to NK8225 requires hardware modifications (CPU unit): if required, check details with FS DMS customer support.

Upgrading from NK822x to NK823x requires hardware replacement.

Upgrading from NK823x MP4.30 to NK823x MP4.40 requires Kernel and Firmware update. Note the compatibility table below (the Kernel Version displays in the **About** window of the **NK8000Kernel_Update** tool).

NK8000	Compatible Kernel Versions - NKM8001-A1 mainboard - NKM8001-A2 mainboard	Update tool release
MP4.30	- Linux 2.6.25.7-alc0re #1 Thu Mar 31 14:06:39 CEST 2011 ppc - Linux 2.6.25.7-alc0re #2 Thu Mar 31 15:44:54 CEST 2011 ppc	MM8000 MP4.30 Hotfix #28
MP4.40	- Linux 2.6.25.7-alc0re #1 Tue Jun 28 11:49:23 CEST 2011 ppc - Linux 2.6.25.7-alc0re #1 Tue Jun 28 11:57:24 CEST 2011 ppc	DMS8000 MP4.40 CD

Tab.1. NK8000 Kernel compatibility

Note: referring to the previous MP4.30 version, be informed that a new MP4.30-01 release is expected in the near future, including a Kernel update. Contact customer support for more information.

MP4.40 secure download

The use of the secure download option implies a modification in the NK8000 configuration and possibly a change in the TCP ports allowed to be used on the IP network. The following ports are required:

- TCP Ports 20 and 21 for standard FTP download
- TCP Port 20500 for new secure download

Software tools

MP4.40 is supplied with a set of Composer-based engineering tools, either integrated into MM8000/MK8000, or installed separately. The software is distributed on the CD and the setup allows the installation of Composer framework and all the required tools. A software license is required to run Composer. The license includes a hardware key and a product authorisation code.

5 Known problems & bugs

This is a list of known problems and limitations present in the current version.

Limitations in NK8231, NK8232, NK8235

CS6/LON connectivity is not supported by NK823x units.

NK823x units cannot properly support the dial-up connection when the redundant network configuration is used on the two LAN lines.

Interaction problem on NK822x restart

Sometimes, during the start up phase, the interactions configured may not work. The problem is caused by the different start up times for the protocols configured on the NK822x. For example, the ISO1745 protocol takes up to 30-40 seconds to establish communication, and in this time the trigger messages generated by NK822x are lost. The problem is related to sending commands to devices still not connected. In this case, commands are thrown away. In order to avoid this problem, you may want to add a check on the COM port in the interaction program.

NK8225 connected in BACnet mode

If NK8225 is connected to MM8000 over a BACnet link, then a communication fault is displayed on the MM8000 even if everything is working properly.

As a work-around, we suggest to remove the fault event generation in the "Ethernet" node of the NK8225 or set the node "out-of-scan". Note that if a real communication problem occurs, it will be displayed as NK8225 unit not reachable on the main NK8225 node.

Ack/Reset commands in NK8000 Interactions

NK8000 interactions do not support Acknowledgment and Reset commands to any subsystem.

NK822x interactions involving Ethernet LAN status

The NK822x interaction programs based on the Ethernet fault triggering event do not work.

Untested NK823x with Burle-Philips video matrix

Due to unavailability of hardware for testing, the support of Burle-Philips video matrix on NK823x could not be verified.

BACnet device ID range

MP4.30 and MP4.40

In all NK8000 units used on BACnet networks, the BACnet Device IDs of the connected devices cannot be higher than 65533.

NK82xx network-wide interactions involving NK82xx using different upstream protocols

MP4.40

NK82xx network-wide interactions do not work properly across NK822xx using two different upstream protocols (e.g. one is using CMSDL/IP and the other BACnet/IP).

NK82xx download requires the Composer license

MP4.40

Starting from MP4.40, Composer can open and download a project even without a license. Note that this does not apply to the NK8000 download, which requires the Composer license to operate and perform the network units download.

Fault events on unconnected Ethernet lines

MP4.40

On existing NK823x Ethernet nodes with no configured connection, faults events are reported, thus indicating the missing network link (no cable or no hub/switch). If that event is not necessary, Ethernet line 2 should not be added if it is not required. Ethernet line 1 is predefined and cannot be removed, but you can disable the related event on the data point in the Composer configuration.

Web server not supported on 64-bit Windows

MP4.40

The NK8000 Web server does not work on Windows 64-bit versions.

6 Documentation

All documents were updated to include the new features added in MP4.40.
Note the document numbers related to the new STEP numbering.

Documentation resource information

The *DMS8000 Documentation Resource Information and Glossary Guide* assembles important information regarding documentation resources. This document contains the following:

- Comprehensive definitions of the target audiences for Siemens FS DMS documents
- Training program information including the Siemens intranet link
- A complete list of all available DMS8000 documents
- Instructions for how to obtain a document via the Siemens intranet using the Siemens Asset Portal
- A map of relevant documents for each target audience group
- Customer Support links & resources
- A glossary containing definitions of all terms and acronyms used in DMS8000 documentation

To access the *DMS8000 Documentation Resource Information and Glossary Guide* (document no. A6V10089056), go to the link and follow the document search instructions below:

<http://assetportal.bt.siemens.com/portal/index.html>

1. In the Search column on the left, set:
 - Segment: **04 Fire -3F**
 - Document Type: **All**
 - Image Type: **All**
 - Advanced search criterias: Select **Brochure No.** and enter the document number to search for (e.g. A6V10062415). Alternatively, select **Title** and enter the product name (e.g. MM8000).
2. Click **Search** to start.
3. In the resulting area on the right, select the document type (e.g. Contacts, Data Sheet, etc).

For more information such as Siemens news and announcements, visit the STEP Web portal at:

<https://workspace.sbt.siemens.com/content/00001123/default.aspx>

6.1 DMS8000 Documentation Resource Information & Glossary

Documentation Resource Information and Glossary (document no. A6V10089056)

This document is a guide to the following:

- Reference Documents: a complete list of all DMS8000 documents and how to access them.
- Roadmap to Documentation: target audiences can see which documents were created for them, and the purpose for each document.
- Customer Support links & resources: contact information for I BT FS Customer Support Centre and other convenient links.
- General Glossary: this contains global definitions of terms and acronyms used in DMS8000 documentation.

6.2 NK8000 Sales documentation

NK8222 Product Datasheet (document no. A6V10062433)

NK8223 Product Datasheet (document no. A6V10062431)

NK8225 Product Datasheet (document no. A6V10062445)

NK8231 Product Datasheet (document no. A6V10238662)

NK8232 Product Datasheet (document no. A6V10238667)

NK8235 Product Datasheet (document no. A6V10238669)

NK8237 Product Datasheet (document no. A6V10316240)

A brief summary of the features provided by the NK8000 units.

MM8000 System Description (document no. A6V10062417)

This document is similar to the datasheet, but very much expanded, and more detailed. It describes the MM8000 system and the user interface functionality.

Sales Guide (document no. A6V10062439)

This guide presents the most important sales arguments. Also, a FAQ section provides the answer to some typical questions.

Sales Presentation (document no. A6V10062435)

This is a PowerPoint presentation provided by the marketing department. It can be modified, or used as is to show potential customers what NK8000 units can do.

DMS8000 Application & Planning (document no. A6V10063710)

This document contains a brief discussion of product marketing strategy for all FSP-DMS products, and a moderate level of detail about the architectural configurations supported.

6.3 NK8000 Technical documentation

NK8000 Installation, Configuration and Commissioning (ICC, document no. A6V10062437)

NK8237 Installation, Configuration and Commissioning (ICC, document no. A6V10316241)

The ICC guides provides step-by-step procedures for installation and configuration of NK8000 units. Depending on the system architecture, these manual may need to be used in tandem with the DMS8000 ICC and Connectivity Configuration guides.

DMS8000 Connectivity Configuration Guides:

- **Network, Fire, and Intrusion (documents no. A6V10062425)**

- **Access Control (document no. A6V10062451)**

- **Video (document no. A6V10062457)**

- **OPC (document no. A6V10065253)**

This set of documents include: the DMS8000 Network Fire and Intrusion Configuration guide, the DMS8000 Access Control Configuration guide, and the DMS8000 Video Configuration guide. The set is shipped with all FSP-DMS products and contains information about installing Composer, connecting and activating the hardware key (dongle), setting up a new project, and configuring the networks and sub-systems supported by DMS8000 products. This should be used in conjunction with the ICC guide.

Composer Technical Manual document no. A6V10062401)

This guide explains how to use Composer in general. It provides a reference to commands and instructions used during the system configuration. Note that the latest edition of this manual describes the new functions that the current version of Composer provides.

NK8000 Release Notes (document no. A6V10062453)

This document. It includes all information concerning this version of NK8000.

7 Support links and resources

7.1 Siemens BT FS

Our Customer Support Center intranet site at:

https://intranet10.sbt.siemens.com/about_bt/Business_Units/fs/Customer+Support+Center/?languagecode=en

provides useful information and links. In the Online Support section of this intranet page, software downloads and known product issues can be found in the PSP (password-protected Product Support Platform).

→ The support mailbox is: fs.support.sbt@siemens.com.

7.2 Microsoft

General support about Microsoft Windows can be found at:

→ <http://support.microsoft.com/directory/>

7.3 Adobe Acrobat

To view the PDF document is necessary to install the program Adobe Acrobat Reader. You can find its free version at:

→ <http://www.adobe.com/products/acrobat/readstep.html>

Siemens Switzerland Ltd
Industry Sector
Building Technologies Division
International Headquarters
Fire Safety & Security Products
Gubelstrasse 22
CH-6301 Zug
Tel +41 41 724 24 24
Fax +41 41 724 35 22
www.sbt.siemens.com

Document no. **A6V10238667_a_en_--**
Edition 06.2011

NK8000 Technical Material
Section 2