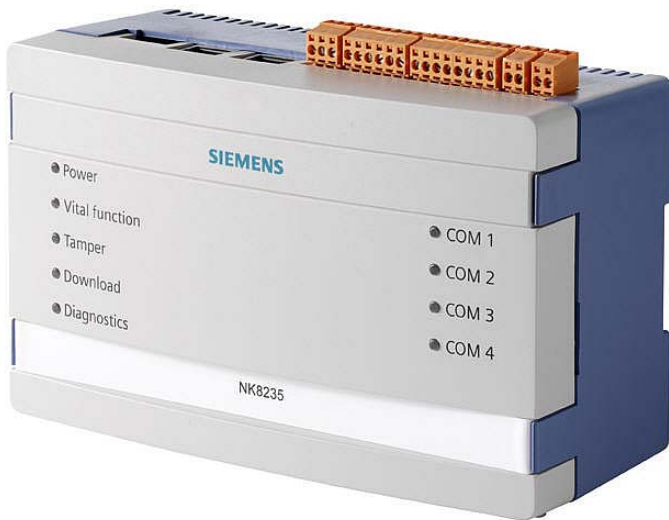


# SIEMENS



## NK8000 MP4.50

**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

Data and design subject to change without notice. / Supply subject to availability.  
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<b>1</b>	<b>Introduction .....</b>	<b>4</b>
1.1	NK8000 family.....	4
<b>2</b>	<b>What's new in MP4.50.....</b>	<b>5</b>
2.1	Defect correction .....	5
2.2	Subsystem compatibility summary.....	5
<b>3</b>	<b>Network connectivity options.....</b>	<b>7</b>
<b>4</b>	<b>NK823x firmware .....</b>	<b>8</b>
<b>5</b>	<b>Known problems &amp; bugs.....</b>	<b>10</b>
<b>6</b>	<b>Documentation .....</b>	<b>13</b>
6.1	DMS8000 Documentation Resource Information & Glossary .....	14
6.2	NK8000 Sales documentation .....	14
6.3	NK8000 Technical documentation .....	15
<b>7</b>	<b>Support links and resources .....</b>	<b>16</b>
7.1	Siemens BT FS.....	16
7.2	Microsoft.....	16
7.3	Adobe Acrobat .....	16

# 1 Introduction

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NK8000 **MP4.50** 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

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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 MP4.50
- MK8000 OPC server MP4.50
- MT8001 management terminal MP4.30
- MM2000 management station MP7.x

## 2 What's new in MP4.50

Group	Description
NK8000	Support and management of NK823x memory expansion on USB for communication logging
	Remote access to NK823x logging data (upload) from Composer and NW8204 tool
	New Linux Kernel Version
	Support for additional NK823x information in the Utility tab node
	Dual CEI 79-5 upstream connectivity for NK823x
	Configurable BACnet ID's on NK823x
	Warning message for BACnet ID's >65533 on NK823x
	Routing between ETH1 and ETH2 with optional firewall functionality
	Upgrade support of NK822x and NK823x based on NKM8001-A1 and NKM8001-A2 mainboards
	Backward compatibility of NK823x MP4.50 with older DMS8000 installations
Approvals	NK8235 complies with the Underwriters Laboratories of Canada (ULC) standard (CAN-S527-99) as a network gateway for CZ10 and XLS fire detection subsystems, and it is listed under the following file numbers: <ul style="list-style-type: none"> <li>- UL File S7488 Vol. 22 Sec.1</li> <li>- ULC File CS182/CS166 Vol. 24</li> </ul>

### 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.16).

### 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 <b>MP4.0</b>	LAN; NK8000/LAN	Fire Connectivity Guide: A6V10359481
FS720 Cerberus® PRO	MP1XS IP2; IP3/IP3 SR2 <b>IP4.0</b>	LAN; NK8000/LAN	Fire Connectivity Guide: A6V10359481
CS11 AlgoRex® EP5 and EP7 FC700A	EP7F Z1, Z2, Z3, Z4, Z5	Direct link, Cerloop, and NK8000	Fire Connectivity Guide: A6V10359481
CS1115 Phase 4 FC330A Phase 4	CISxx8.86	Direct link, NK8000	Fire Connectivity Guide: A6V10359481
SIGMASYS C and M, D100	SIGMASYS V3.5, V3.7, V3.8 D100 V40-2 PLAN D100 export tool V7.2	NK8000	Fire Connectivity Guide: A6V10359481
STT11		Cerloop and NK8000/Cerloop	Fire Connectivity Guide: A6V10359481
STT2410		Cerloop and NK8000/Cerloop	Fire Connectivity Guide: A6V10359481
STT20		Cerloop, NK8000/Cerloop	Fire Connectivity Guide: A6V10359481
CZ10	Eprom on communication board: CZAX22.41 (Cerban) CZAX23.41 (Cerloop)	Cerloop and NK8000	Fire Connectivity Guide: A6V10359481
CC60	Eprom in U2 position: CCG001.05 (-19)	Cerloop and NK8000	Fire Connectivity Guide: A6V10359481

CZ12	Eprom on communication board: BKB002.08	Cerloop and NK8000	Intrusion Connectivity Guide: A6V10359489
CS4	Eprom on communication board: CK402 V6B – CKP003.01 (BCD) CK430 V9 – CKP041.01 (HEX)	Cerloop and NK8000	Intrusion Connectivity Guide: A6V10359489
CS440	Eprom on communication board: CK440 V9 – CKP041.01 (HEX)	Cerloop and NK8000	Intrusion Connectivity Guide: A6V10359489
XLS	V6.00.21, Zeus Tool V6.0 V7.00.2245, Zeus Tool V7.0	NK8000	Intrusion Connectivity Guide: A6V10359489
CS6 Guarto™	MP3 MP3+	NK8000 (NK822x only)	Intrusion Connectivity Guide: A6V10359489
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	Intrusion Connectivity Guide: A6V10359489
DMS7000 units including MM- IE2		Cerloop and NK8000	Network Connectivity Guide: A6V10359485
SIMATRIX 164; 648; SYS, SIMATRIX NEO		NK8000	Video Connectivity Guide: A6V10062457
DF8000 I/O (DF8003 or CF9003 + F8020/8040/8045/8046)		NK8000	Network Connectivity Guide: A6V10359485
MF7033/MM7033		Cerloop and NK8000	Network Connectivity Guide: A6V10359485
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	NK8237 ICC MP4.50 manual A6V10316241
Analog Modem	Siemens NK8021 Analog modem. Siemens M20 or MC35i GSM mo- dem		

### 3 Network connectivity options

The following matrix shows the connectivity options currently available for DMS800 MP4.50 systems.

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

Connection	Network	Direct RS232		LAN IP			NK8000										CDI-Net GWxx			
		Cerloop	LAN	LAN	LAN	NK822x					NK823x					GW00 / 01	GW20 / 21			
						CMSDL serial	CMSDL/IP, CEI79-5	BACnet/IP	CMSDL serial	CMSDL/IP, CEI79-5	BACnet/IP									
Upstream interface device																				
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	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	Direct	Cerloop	
Downstream interface device	-	MK7022	-	-	-	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022	
Subsystems	FS20 Sinteso, FS720 Cerberus PRO		MM/MK																	
	CS11 AlgoRex EP5 & EP7	DMS				DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	DMS	DMS	MM/MK	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	MM/MK	
	XLS					MM/MT		MM		MM		MM/MT		MM						
	STT11		DMS				DMS		MM/MK				DMS		MM/MK				MM/MK	
	STT20 / STT2410 (BACnet/IP STT20 only)			MM/MK			MM/MK		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	MM/MK
	CZ12 / CS4		MM/MK				MM/MK	MM/MK	MM/MK	MM/MK			MM/MK	MM/MK	MM/MK	MM/MK			MM/MK	MM/MK
	CS6 Quarto (via LON interface)						DMS		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	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					
	3rd party	Bosch DVR, encoder/decoder, IP cameras					MM													
		NICE DVR					MM													
M5 R-card					MM															
Autronica BSxxx																				
LIST SCU 2000 (field test only)																				
MAXSYS PC601																				
CP100																				
CDDL/CDSF units						MM		MM		MM		MM		MM		MM		MM		
Modbus units																				

(\*) NK8237 Modbus Gateway: BACnet connectivity limited to FS20/FS720 and 3rd party Modbus devices.  
(\*\*) IP cameras with TELSCAN protocol are supported. IP cameras can also be connected via SISTORE MX.

## 4 NK823x firmware

MP4.50 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.

### NK822x Hardware Upgrades

Upgrading from NK8222/3 to NK8225 requires hardware modifications (CPU unit).

Upgrading from NK822x to NK823x requires a complete hardware replacement.

If required, check details with FS DMS customer support.

### NK822x Firmware Upgrades

Upgrading NK822x units from MP4.15/MP4.20/MP4.30/4.40 to MP4.50 requires a firmware update.

→ Refer to the Network Connectivity Guide (A6V10359485).

### NK823x Firmware Upgrades

Upgrading NK823x units from MP4.15/MP4.20/MP4.30/4.40 to MP4.50 requires a firmware update and then a kernel update.

→ Refer to the Network Connectivity Guide (A6V10359485) and to the NK8000 ICC (A6V10062437).

### NK823x MP4.50 on existing (older version) DMS8000 installations

The use of MP4.50 NK823x units (equipped with MP4.50 kernel) to maintain or extend existing DMS8000 MP4.30/4.40 installations requires a firmware update with hot-fix. Earlier DMS8000 installations must be upgraded.

Refer to the table below that expresses the following summarized policy:

- MP4.50 kernel is the only Linux kernel supported.
- A new MP4.30-01 and MP4.40 firmware will be provided as a hotfix to support MP4.50 kernel.
- Earlier DMS8000 projects should be upgraded to MP4.30-01 or higher to support new NK823x units equipped with MP4.50 kernel and one of the compatible firmware.

DMS8000 sites	NK823x Kernel - NKM8001-A1 mainboard - NKM8001-A2 mainboard	NK823x Firmware
MP4.15	MP4.50 Kernel after upgrade	Upgrade to MP4.30-01 or higher
MP4.20	MP4.50 Kernel after upgrade	Upgrade to MP4.30-01 or higher
MP4.30-01	MP4.50 Kernel	DMS 8000 MP4.30 Hotfix 62
MP4.40	MP4.50 Kernel	DMS 8000 MP4.40 Hotfix 32
MP4.50	-A1: Linux 2.6.32.41 #40 Tue Apr 17 15:27:30 CEST 2012 ppc -A2: Linux 2.6.32.41 #39 Tue Apr 17 15:25:23 CEST 2012 ppc	DMS8000 MP4.50 CD

Tab.1. NK8000 Kernel and Firmware compatibility with DMS8000 versions



**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**

MP4.50 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

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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

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

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

**MP4.50 and earlier versions**

**MP4.50 and earlier versions**

<b>MP4.50 and earlier versions</b>	<p><b>Fault events on unconnected Ethernet lines</b></p> <p>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, <b>Ethernet line 2 should not be added if it is not required</b>. Ethernet line 1 is predefined and cannot be removed, but you can disable the related event on the data point in the Composer configuration.</p>
<b>MP4.50 and earlier versions</b>	<p><b>Web server not supported on 64-bit Windows</b></p> <p>The NK8000 Web server does not work on Windows 64-bit versions.</p>
<b>New in MP4.50</b>	<p><b>Missing time stamp in some NK823x logs</b></p> <p>No time stamp is provided in the NK823x logs concerning Firewall events. The same occurs for technical logs such as FTP, BACstack, and possibly others. For such events, date &amp; time information may be estimated using other data messages that are time-stamped.</p>
<b>MP4.50 and earlier versions</b>	<p><b>Faulty NK823x in case dial-up modem is not properly configured</b></p> <p>An erroneous LAN communication fault (<i>Not Reachable</i>) is reported for NK823x units that have a dial-up modem which is not properly configured with the link to the corresponding NS8210 modem. If dial-up is required, pay attention to fully configure the modem connection.</p>
<b>New in MP4.50</b>	<p><b>Station fault missing in dual CEI 79-5 connection with backup</b></p> <p>Dual CEI 79-5 connection systems with dial-up backup on one station fail to report a LAN connection fault on the backed-up station. In such a case, the fault condition is not reported on the other station.</p>
<b>New in MP4.50</b>	<p><b>Open SintesoWorks link not immediately stopped when NK823x firewall is enabled</b></p> <p>Enabling the firewall does not block a previously opened SintesoWorks connection. Closing the SintesoWorks connection will cause the firewall to become effective and block any further SintesoWorks connection.</p>

### USB memory devices on NK823x

Removing the USB key while the logging is enabled (without using the safely remove command) may cause the NK823x to restart or block (a manual restart is then needed). **Always use the Safe Remove command before removing the USB memory device.**

**Some specific USB memory models may not be compatible** with NK823x.

**Note:** File system: FAT32; 2-64 GB. For a list of supported devices refer to PSP at <https://psp.sbt.siemens.com/>.

### New in MP4.50

The **Vendor ID** of the USB device may not display correctly in Composer depending on the device that is used.

In rare cases, presumably related to specific USB devices and intensive logging operations, a memory access problem might occur, which prevents the NK823x from writing on the device. This condition is promptly reported by a **Logging Error** event. In such cases, if the error persists, we recommend to replace the USB device.

## 6 Documentation

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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

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### **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

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### **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

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**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 (document no. A6V10359485)**

- **Fire (document no. A6V10359481)**

- **Intrusion (document no. A6V10359489)**

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

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

The DMS8000 Connectivity Configuration guides contain information about configuring networks and subsystems supported by DMS8000 products. These guides should be used in conjunction with the ICC guide.

### New in MP4.50

The Network, Fire and Intrusion Guide, that used to be a single document, is now organized in three separate guides.

**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

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Our Customer Support Center intranet site at:

[https://intranet10.sbt.siemens.com/about\\_bt/Business\\_Units/fs/Customer+Support+Center/?languagecode=en](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](mailto:fs.support.sbt@siemens.com).

### 7.2 Microsoft

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General support about Microsoft Windows can be found at:

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

### 7.3 Adobe Acrobat

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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>





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NK8000 Technical Material  
Section 2