

# SIEMENS



## NK8000 MP4.20

**NK8222 DMS8000 Ethernet Port for a single subsystem**

**NK8223 DMS8000 Ethernet Port**

**NK8225 DMS8000 Ethernet Port**

## Release Notes

**Building Technologies**

Fire Safety & Security Products

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

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# 1 Introduction

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DMS8000 software **MP4.20** is now available for MM8000, MK8000, MT8001, and NK8000 products.

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:

- **NK8222 Ethernet port for a single subsystem**
- **NK8223 Ethernet port**
- **NK8225 Ethernet port with BACnet gateway**

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

- MM8000 management station MP4.20
- MK8000 OPC server MP4.20
- MT8001 management terminal MP4.20

## 2 What's new in MP4.20

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- **Support for XLS fire control unit via NK8000**
- **NK8000 MP4.20 is ready to support the new NK8232 and NK8235 Ethernet Ports that will be released separately**

The new units are based on a new hardware, compliant with RoHS regulations, which will progressively replace the old models. Sales- and Delivery release for NK8232 and NK8235 will be communicated soon.

The following features will be supported by NK8232 and NK8235:

Downstream connectivity to subsystems	<b>NK8232:</b> One subsystem only. Same support as NK8222 with the exception of LON connectivity for CS6 Guarto that is currently not supported. <b>NK8235:</b> Same support as NK8225 with the exception of LON connectivity for CS6 Guarto that is currently not supported.
Upstream connectivity to subsystems	<b>NK8232 and NK8235:</b> Same support as NK8222 and NK8223.
Interactions	<b>NK8232 and NK8235:</b> Same support as NK8222 and NK8223 for local interactions and same support as NK8225 for network-wide interactions.

Network connectivity table

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

Connection	Network	Direct	Cerloop	Direct	Direct	Direct	NK8000						CDI-Net			
		RS232		LAN	LAN	LAN	NK822x		NK8222 / NK8223 / NK8225 / NK8232 / NK8235				GWxx			
							NK8225 / NK8232 / NK8235		NK8222 / NK8223 / NK8225 / NK8232 / NK8235		NK8225 / NK8232 / NK8235		GW20 / 21			
	Propriet.	ISO1745	BACnet/IP	OPC	Propriet.	BACnet/IP		CMSDL serial		CEI 79-5 /IP		CMSDL/IP		CMSDL serial		
	Direct	Cerloop	LAN	LAN	LAN	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	
	-	MK7022	-	-	-	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022	
Subsystems	FS20 Sinteso / FS720 Cerberus PRO			MM/MK												
	CS11 AlgoRex EP5 & EP7	DMS				MM/MK	MM/MK	DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	FC700A	DMS				MM/MK	MM/MK	DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	CS1115 / FC330A	MM/MK						DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	C210, CC60		DMS							MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	XLS							MM/MT	MM/MT			MM/MT	MM/MT			
	STT11		DMS							DMS		MM/MK	MM/MK	MM/MK	MM/MK	
	STT20 / STT2410										MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	SIGMASYS/D100 (field test only)						MM/MK		MM/MK		MM/MK	MM/MK	MM/MK			
	SPC6000 Intrunet					MM/MK					MM/MK	MM/MK	MM/MK			
	CS440		DMS						DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	C212 / CS4		MM/MK						MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	CS6 Guarato (via LON interface)						MM/MK		DMS		MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	SI410 / 420 / Plus Intrunet	MM/MK				MM/MK	MM/MK		DMS		MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	MF7033 / MM7033		DMS							DMS		MM/MK	MM/MK	MM/MK	MM/MK	
	DF8000 / CF9000 I/O								DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	MM/MK	
	SIMATIC S7 Modbus						MM		MM		MM		MM			
	SIMATIC S7 OPC						MM		MM		MM		MM			
	SIMATRIX / SIMATRIX NEO								MM/MK		MM/MK		MM/MK		MM/MK	
	Philips-Burle video matrices								MM/MK		MM/MK		MM/MK		MM/MK	
	SISTORE AX/CX/MX/MXPro/SX					MM/MK										
	TELSKAN / IP cameras (*)					MM/MK										
	SiPass ACC					MM/MK										
	CerPass CC30 (via SiPass)					MM/MK										
	ESPA Pager	MM														
	3rd party	NICE DVR				MM										
		Autronica BSxxx														
		LIST SCU 2000 (field test only)														
MAXSYS PC601																
CP100																
CDUL/CDSF units																
Modbus units																
M5 R-card																

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

## 2.1 MP4.20 defect correction

Here below is the list of defects corrected in MP4.20.

ID	Found in	Module	Description
FSP00067315	MP4.10-02	NK8000	Web Server does not show correct information.
FSP00067401	MP4.10-02	NK8000	Troubles with "Keep Alive" watchdog.
FSP00067267	MP4.10-02	NK8000	Changing the settings of NK82xx communication protocols may not result in the configuration download tick being removed.
FSP00067834	MP4.10-02	NK8000	Reset of NK822x not recognized.
FSP00066323	MP4.10-02	NK8000	Support of NK823x products in DMS8000 MP4.10.
FSP00070400	MP4.15	NK8000	LED H6 (2-flash error) is never activated (documentation update).
FSP00067316	MP4.15	NK8000	Interactions on NK822x do not support Ack/Reset commands. Errors is still present and documented in Release Notes/Known issues.
FSP00067381	MP4.15	NK8000	NK8225 does not communicate with DF8003 over RS485 connections.
FSP00067410	MP4.15	NK8000	Modify the documentation to show how customize the IIS service security.
FSP00065559	MP4.15	NK8000, DF8000	Problems with DF8000 I/O units after a project download.
FSP00071606	MP4.15	NK8000	Using CEI protocol, after NK82xx reset, the connection erroneously reports "Not Reachable" even if the communication re-established and the NK82xx unit is identified.
FSP00072013	MP4.15	NK8000, SI410	SI410 input states not aligned on MM8000.

## 3 NK822x firmware

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MP4.20 firmware files are distributed in the following sets of files:

- NK8222 and NK8223 files
- NK8225 files

The firmware is pre-loaded in the NK822x units and also distributed in the Composer tool environment in compressed (ZIP) files.

Units installed with previous versions can be updated with 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.

### Software tools

MP4.20 is supplied with a set of Composer-based engineering tools, either integrated into MM8000/MK8000, or installed separately. The software is distributed on 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.

## 4 Known problems & bugs

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

### 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.

**New in MP4.20 Release  
(although not new in  
NK8000 software)**

In MP4.15 and MP4.20, **NK8000 interactions do not support Ack and Reset commands** to any subsystem.

## 5 Documentation

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All documents were updated to include the new features added in MP4.20.  
Note the document numbers related to the new STEP numbering.

### STEP documentation repository

On the Siemens intranet, the product documentation can be found in the STEP Documentation Repository. The STEP Web Client interface is available at the following address:

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

The following describes one way to search and find a document:

1. Click on the "STEP WEB Client" image: 
2. Choose "04 Fire -3F" from the "Product Segment" box and select "Activate filter".
3. Select "All" in the Documents section of the Quick Search page and select "Advanced Search".
4. Enter the document number in the "Brochure No." field (e.g. A6V10062415 or 007121) and press "Enter".

**Note:** STEP provides no results when the number of found objects is equal to or greater than 200.

→ To learn about other ways to locate a document, see DMS8000 Quick Reference Guidelines for Search and Finding DMS Documents in STEP (A6V10064704).

## 5.1 DMS8000 Documentation Resource Information & Glossary

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### Documentation Resource Information and Glossary (document no. A6V10089056\_a\_en)

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 SBT FS Customer Support Centre and other convenient links.
- General Glossary: this contains global definitions of terms and acronyms used in DMS8000 documentation.

## 5.2 NK8000 Sales documentation

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**NK8222 Product Datasheet (document no. A6V10062433\_a\_en)**

**NK8223 Product Datasheet (document no. A6V10062431\_a\_en)**

**NK8225 Product Datasheet (document no. A6V10062445\_a\_en)**

**NK8232 Product Datasheet (document no. A6V10238667\_a\_en)**

**NK8235 Product Datasheet (document no. A6V10238669\_a\_en)**

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

**MM8000 System Description (document no. A6V10062417\_a\_en)**

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\_a\_en)**

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

**Sales Presentation (document no. A6V10062435\_a\_en)**

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\_a\_en)**

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.

## 5.3 NK8000 Technical documentation

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**NK8000 Installation, Configuration and Commissioning (ICC, document no. A6V10062437\_a\_en)**

The ICC guide provides step-by-step procedures for installation and configuration of NK8000 units. During configuration, this manual should be used in tandem with the DMS8000 ICC and Connectivity Configuration guides.

**DMS8000 Connectivity Configuration Guides:**

- **Network, Fire, and Intrusion (documents no. A6V10062425\_a\_en)**
- **Access Control (document no. A6V10062451\_a\_en)**
- **Video (document no. A6V10062457\_a\_en)**
- **OPC (document no. A6V10065253\_a\_en)**

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 (dongle) key, 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\_a\_en)**

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 Composer can provide.

**Release Notes (document no. A6V10062453\_a\_en)**

This document. It includes all information concerning NK8000 MP4.20.



## 6 Support links and resources

### 6.1 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).

### 6.2 Microsoft

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General support about Microsoft Windows can be found at:

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

### 6.3 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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