

SIEMENS



NK8000 MP4.30

NK8222 DMS8000 Ethernet Port for a single subsystem

NK8223 DMS8000 Ethernet Port

NK8225 DMS8000 Ethernet Port

NK8231 DMS8000 CEI Interface for a single subsystem

NK8232 DMS8000 Ethernet Port for a single subsystem

NK8235 DMS8000 Ethernet Port

Release Notes

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1	Introduction	4
1.1	NK8000 family.....	4
2	What's new in MP4.30.....	5
2.1	Defect correction	5
3	NK822x firmware	7
4	Known problems & bugs.....	8
5	Documentation	9
5.1	DMS8000 Documentation Resource Information & Glossary	9
5.2	NK8000 Sales documentation	9
5.3	NK8000 Technical documentation	10
6	Support links and resources	11
6.1	Siemens BT FS.....	11
6.2	Microsoft.....	11
6.3	Adobe Acrobat	11

1 Introduction

NK8000 **MP4.30** 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:

- **NK8222 Ethernet port for a single subsystem**
- **NK8223 Ethernet port**
- **NK8225 Ethernet port**
- **NK8231 CEI Interface for a single subsystem**
- **NK8232 Ethernet port for a single subsystem**
- **NK8235 Ethernet port**

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

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

2 What's new in MP4.30

Group	Description
NK8000	Status alignment of the subsystems connected to NK82xx must be assured after a reset of NK82xx.
NK8000	Support of SWE6 serial protocol tunnelling in NK822x for CS6 configuration tool.
NK823x	New option in the Composer toolbar to add NK823x units.
NK823x	NK823x units can manage a double communication channel to the DMS8000 hosts for redundant network connectivity.
NK823x	Safe download procedures to NK823x units. Users are informed about the progress of the download (download in progress, download successful/failed, NK823x rebooting, activation of new FW / configuration successful/failed). Download buttons are disabled until download completed (including reboot).
NK823x	Support for onboard input points on NK823x. The 3 digital inputs can be used: <ul style="list-style-type: none"> – As multi-purpose inputs (active / inactive, event category advisory) – As power supply supervision inputs (battery fault, power supply fault, mains fault, event category fault)
NK823x	Support for onboard output point on NK823x. The relay output is controlled by: <ul style="list-style-type: none"> – Commands from the management station – Interactions
NK823x	CS1115/FC330 fire detection system is supported via serial connection to NK823x.
NK823x	Improved NK823x diagnostic: NK823x diagnostic messages (restart command received, change of configuration, change of date and time, change of FW version, change of Linux Kernel version,...) are sent to the management station and stored in the history DB.
NK823x	Check for available memory in NK823x: after downloading of a new configuration, a check is performed to verify if enough memory is available on NK823x. If the memory usage exceeds a certain limit, a message is generated and displayed in Composer.
NK823x	NK823x can support two Ethernet connections for multiple and redundant connectivity.
NK823x	NK823x can support up to four upstream connections on one or two Ethernet connections.
NK823x	NK823x is equipped with a 2 nd RS485 line on COM2.
NK823x	Existing NK822x interaction configurations can be migrated to NK823x using a drag and drop technique in Composer.
NK8231	Support of NK8231 CEI Interface for a single subsystem. This product is designed to be used with MM2000 Management Station on the Italian market only.

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 6.1 at p.11).

Network connectivity table

MM/MT
MM

MM8000 and MT8001
MM8000 only

Connection	Network	NK8000												
	Upstream interface device	NK822x						NK823x						
		NK8222 / NK8223 / NK8225			NK8225			NK8231 / NK8232 / NK8235			NK8235			
	Upstream data-link protocol	CMSDL serial		CMSDL/IP, CEI79-5		BACnet/IP		CMSDL serial		CMSDL/IP, CEI79-5		BACnet/IP		
Downstream network	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop		
Downstream interface device	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022		
Subsystems	Cerberus PRO													
	CS11 AlgoRex EP5 & EP7	DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	DMS	DMS	MM/MK	MM/MK			
	FC700A	DMS		MM/MK		MM/MK		DMS		MM/MK				
	CS1115 / FC330A							MM/MK		MM/MK				
	CZ10, CC60	DMS	DMS	MM/MK	MM/MK			DMS	DMS	MM/MK	MM/MK			
	XLS	MM/MT		MM/MT		MM/MT		MM/MT		MM/MT				
	STT11		DMS		MM/MK				DMS		MM/MK			
	STT20 / STT2410		MM/MK		MM/MK	MM/MK	MM/MK		MM/MK		MM/MK			
	SIGMASYS/D100 (field test)	MM/MK		MM/MK		MM/MK		MM/MK		MM/MK				
	SPC5000/6000 Intrunet													
	CS440	DMS	DMS	MM/MK	MM/MK			DMS	DMS	MM/MK	MM/MK			
	CZ12 / CS4	MM/MK	MM/MK	MM/MK	MM/MK			MM/MK	MM/MK	MM/MK	MM/MK			
	CS6 Guarto (via LON)	DMS		MM/MK		MM/MK								
	SI410 / 420 / Plus Intrunet	DMS		MM/MK		MM/MK		DMS		MM/MK				
	MF7033 / MM7033		DMS		MM/MK	MM/MK			DMS		MM/MK			
	DF8000 / CF9000 I/O	DMS		MM/MK		MM/MK		DMS		MM/MK				
	SIMATIC S7 Modbus	MM		MM		MM		MM		MM				
	SIMATIC S7 OPC													
	SIMATRIX / SIMATRIX NEC	MM/MK		MM/MK				MM/MK		MM/MK				
	Philips-Burle video matrices	MM/MK		MM/MK		MM/MK		MM/MK		MM/MK				
	SISTORE													
	TELSKAN / IP cameras (*)													
	SiPass ACC													
	CerPass CC30 (via SiPass)													
	ESPA Pager													
	3rd party	NICE DVR												
		Autronica BSxxx												
		LIST SCU 2000 (field test)												
		MAXSYS PC601												
		CP100	MM		MM		MM		MM		MM			
CDDL/CDSF units														
Modbus units														
M5 R-card														

3 NK822x firmware

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

- NK8222 and NK8223 files
- NK8225 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 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.

Software tools

MP4.30 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

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

Limitations in NK8231, NK8232, NK8235

New in MP4.30

As stated in the technical documentation, NK823x units do not currently support BACnet/IP connectivity and DF8000 I/O modules on the I²C bus. We expect to remove these limitations in the next release.

CS6/LON connectivity is not supported by NK823x units.

New in MP4.30

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

In MP4.15, MP4.20, and MP4.30 NK8000 interactions do not support Acknowledgment and Reset commands to any subsystem.

NK822x interactions involving Ethernet LAN status

MP4.20 and MP4.30

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.

5 Documentation


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

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 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

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)

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.

5.3 NK8000 Technical documentation

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

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)**

- **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 (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)

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)

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

6 Support links and resources

6.1 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.

6.2 Microsoft

General support about Microsoft Windows can be found at:

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

6.3 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>

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