

# SIEMENS



## NK8000 MP3.20

**NK8222 DMS8000 Ethernet Port**

**NK8223 DMS8000 Ethernet Port**

**NK8225 DMS8000 Ethernet Port with BACnet Gateway**

## Product Release Notes

**Building Technologies**

Fire Safety & Security Products

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# 1 Introduction

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This document applies to NK8000 MP3.20, which is now available for market distribution. The new 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 MP3.20
- MK8000 OPC server MP3.20
- DESIGO Insight management system V2.35 SP1 <sup>(1)</sup> and SP2 (**NK8225 only**) <sup>(2)</sup>
- DESIGO PX automation stations V2.35 or later versions (**NK8225 only**) <sup>(2)</sup>



Note that the Total Building Solution (TBS), including NK8225 and DESIGO, is not officially released yet. The availability of TBS will be announced as soon as the field test phase has been successfully completed.



Note also that all NK8000 MP3.20 products are not currently compatible with MT8001 (3.15). In case MT8001 is required, then NK8000 MP3.15 network products should be used.

## 2 What's new in MP3.20

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### **NK8225**

The new NK8225 Ethernet Port with BACnet can handle both BACnet and CMSDL/CEI upstream protocols and support for communication with DMS8000 hosts the same set of subsystems as the NK8223 model (for details see compatibility matrix).

### **NK8222/NK8223**

NK8222 and NK8223 have also been improved for supporting more control units; namely: SIGMASYS/D100, STT20, and STT2410.

### **Add-on packages for 3<sup>rd</sup> party units** <sup>(2)</sup>

In the framework of the Open-NK solutions, a number of MM8000 add-on packages will become available for enhancing the standard NK8000 connectivity and providing support for 3<sup>rd</sup> party units. Currently, the list of supported units includes: Autronica BS, LIST SCU 2000, MAXSYS PC601, and CP100.

### **Compatibility matrix**

The table below illustrates the available connectivity.

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<sup>(1)</sup> A specific fix is required on top of V2.35 SP1 (Service Pack 1) software for handling the communication with NK8225. Please contact technical support.

<sup>(2)</sup> For field test only. Please contact FS DMS customer support.

Note that NK8225 can provide the larger connectivity, including BACnet (DESIGO and DMS8000) and CMSDL/CEI (DMS8000) upstream protocols, whereas NK8222/NK8223 can support the DMS8000 upstream protocols only.

Note also that the use of BACnet is currently limited to a reduced number of subsystems; namely: CS11 AlgoRex, FC700A, CS6 Guarto, and SI410 Sintony.

At the moment, MT8001 is not compatible with the 3.20 network and tools. However, MT8001 can still be installed with NK8000 MP3.15.

<b>KEY:</b>	<b>DMS</b>	MM8000 and MK8000 MP3.20 - MT8001 MP3.15 ( <b>MT8001 requires NK8000 3.15</b> )
	<b>MM/MK</b>	MM8000 and MK8000 MP3.20
	<b>MM</b>	MM8000 MP3.20
	<b>D</b>	DESIGO INSIGHT and PX MP2.35 (check specific Service Pack)

Connection	Network	NK8000										
	Upstream interface device	NK8225 only				NK8222 / NK8223 / NK8225						
	Upstream data-link protocol	BACnet/IP				CMSDL serial		CEI 79-5 /IP		CMSDL/IP		
	Upstream application protocol	BACnet (DESIGO)		CNAP (DMS8000)		CMSDF		CMSDF		CMSDF		
Downstream network	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop	Direct	Cerloop		
	-	MK7022	-	MK7022	-	MK7022	-	MK7022	-	MK7022		
Subsystems	CS11 AlgoRex EP5 & EP7	D (1)	D (1)	MM/MK	MM/MK	DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	
	FC700A	D (1)		MM/MK		DMS		MM/MK		MM/MK		
	CS1115											
	FC330A											
	CZ10					DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	
	CC60					DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	
	STT11						DMS		MM/MK		MM/MK	
	STT20							MM/MK		MM/MK		
	STT2410							MM/MK		MM/MK		
	SIGMASYS/D100							MM/MK		MM/MK		
	CS440					DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	
	CS4					MM/MK	DMS	MM/MK	MM/MK	MM/MK	MM/MK	
	CZ12					MM/MK	DMS	MM/MK	MM/MK	MM/MK	MM/MK	
	CS6 Guarto	D (1)		MM/MK		DMS		MM/MK		MM/MK		
	SI410 / SI420 Sintony	D (1)		MM/MK		DMS		MM/MK		MM/MK		
	MF7033 / MM7033					DMS	DMS	MM/MK	MM/MK	MM/MK	MM/MK	
	CF9000 I/O					DMS		MM/MK		MM/MK		
	SIMATRIX, SIMATRIX NEO					MM/MK		MM/MK		MM/MK		
	Philips-Burle					MM/MK		MM/MK		MM/MK		
	SISTORE AX, CX, MX, MXPro, SX											
	TELSCAN											
	IP cameras											
	Geutebrück MultiScope											
	SiPass ACC											
	CerPass CC30 (via SiPass)											
	DLCs (via WinCC OPC Server)											
	ESPA Pager											
	Add-on's (2)	Autronica BSxxx										
		LIST SCU 2000										
		MAXSYS PC601					MM		MM		MM	
	CP100											

(1) For field tests only.

(2) Supported in separated, add-on packages. Note that some of these add-on packages are available for field test only and more packages may be available: check on FS-DMS intranet (PSP).

### Software tools

MP3.20 is supplied with a set of Windows 2000/XP, 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 may include a protection key and an authorisation code (customer license) or a key only (service key).

## 3 NK822x firmware

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MP3.20 firmware files are distributed in two 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.

Current versions are:

- Nk822x\_3.20-00\_260706\_23.zip for NK8222 and NK8223
- Nk822x\_3.20-00\_260706\_25.zip for NK8225

Units installed with previous versions can be updated with latest release using standard Composer commands (see the DMS8000 Network and Subsystem Connectivity Guide).

Note that NK8225 software functions cannot run on NK8223 hardware.

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

## 4 Known problems & bugs

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This is a list of known problems and limitations in MP3.20.

- 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.
- Dial-up connections over modem lines are not yet supported by NK8000.

## 5 Documentation

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This section provides an overview of what information is included in each of the documents that accompany NK8000 MP3.20.

<b>EDMS</b>	<b>Document Name</b>	<b>Status</b>
007780	NK8222 Data Sheet	Updated (06.2006)
007777	NK8223 Data Sheet	Updated (06.2006)
009249	NK8225 Data Sheet	Updated (06.2006)
009417	NK8225 PICS	Updated (06.2006)
006913	NE8000 Data Sheet	Same (09.2005)
008077	NK8223 Demo Suitcase Data Sheet	Same (09.2005)
007794	Sales Presentation	Updated (06.2006)
007920	Sales Guide	Updated (06.2006)
008084	DMS8000 Application & Planning	Updated (06.2006)
009418	Release Notes (this document)	New (06.2006)
007798	Installation Configuration & Commissioning	Updated (06.2006)
007083	DMS8000 Network, Fire and Intrusion Connectivity Guide	Updated (06.2006)
009424	Access Control Connectivity Guide	Updated (06.2006)
009425	Video Connectivity Guide	Updated (06.2006)
003183	Composer Technical Manual	Updated (06.2006)

### 5.1 NK8000 product binders

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The product binders contain sales and technical documentation, respectively. The format reflects the standard for all FSP-DMS documents.

### 5.2 Sales documentation

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#### **Product Datasheets**

These are short documents to be used for introducing NK822x and NE8000 products to potential customers. An updated document has been provided for NK8222, NK8223, and NK8225.

#### **Sales Presentation**

This is a PowerPoint presentation. It can be used as is, or modified for client presentations. It provides an overview of the NK8000 MP3.20 network solutions.

#### **Sales Guide**

This guide lists the most important sales arguments for NK8000 products (updated for MP3.20).

#### **DMS8000 Application & Planning**

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 by NK8000 MP3.20.

## 5.3 Technical documentation

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### **Release Notes**

This document outlines what's new and different about MP3.20 and how that affects your work. It also includes any newly discovered bugs and fixes as well as support and reference links.

### **Installation Configuration & Commissioning (ICC)**

The ICC guide contains updated information about network limits, and hardware and software requirements. It provides step-by-step procedures for some installation and configuration aspects of the NK8000. During configuration this manual should be used in tandem with the DMS8000 Network Fire and Intrusion Configuration guide.

### **DMS8000 Connectivity Configuration Guides**

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**

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 latest version Composer MP3.20 can provide.



## 6 Support links and resources

### 6.1 NK8000

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Our Customer Support Centre intranet site at:

→ <http://intranet.sbt.siemens.com/fs/csc> 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).

Please note the support mailbox: [fsp.support@siemens.com](mailto:fsp.support@siemens.com)

### 6.2 Microsoft

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General support about Microsoft Windows can be found at:

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

Most interesting support links are also available in the Intranet site page:

→ <http://www.cdi.cerberus.ch/support/supp-link.asp>

#### 6.2.1 Windows 2000

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Technical information, including deployment guides:

→ <http://www.microsoft.com/windows2000/default.asp>

Windows 2000 support

→ <http://www.microsoft.com/windows2000/support/default.asp>

Windows 2000 SP4 - Frequently Asked Questions (FAQs):

→ <http://www.microsoft.com/windows2000/support/issues/SP4faq.asp>

Frequently Asked Questions (FAQs):

→ <http://www.windows2000faq.com/>

How to obtain Windows 2000 Service packs:

→ <http://support.microsoft.com/support/kb/articles/Q260/9/10.ASP>

Hardware compatibility list:

→ <http://www.microsoft.com/windows2000/professional/howtobuy/upgrading/compat/default.asp>

Security issues:

→ <http://www.microsoft.com/technet/security/CurrentDL.aspx>

#### 6.2.2 Windows XP

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Technical information, including deployment guides:

→ [http://www.microsoft.com/resources/documentation/Windows/XP/all/reskit/en-us/prork\\_overview.asp](http://www.microsoft.com/resources/documentation/Windows/XP/all/reskit/en-us/prork_overview.asp)

Windows XP support

### Support links and resources

→ <http://www.microsoft.com/windowsxp/support/default.mspix>

Windows XP SP2 - Frequently Asked Questions (FAQs):

→ <http://www.microsoft.com/windowsxp/sp2/default.mspix>

Windows XP SP2 – How to ...

→ <http://www.microsoft.com/windowsxp/sp2/howto/default.mspix>

Security issues:

→ <http://www.microsoft.com/technet/security/CurrentDL.aspx>

## 6.3 Adobe Acrobat

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To view the NK8000 documentation it 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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