

SIEMENS



NK8000 MP3.15

NK8223 Ethernet Port
NK8222 Ethernet Port

Release Notes

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1 Introduction

This document applies to NK8000 MP3.15, which is now available for market distribution. The new product list includes:

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

These Ethernet ports are to be used as network units for the following DMS hosts:

- **MM8000 management station MP3.15**
- **MK8000 OPC server MP3.18¹**
- **MT8001 MP3.15²** (serial connectivity only)

New installations should use the new MP3.15 that replaces previous MP3.10 for MM8000 and MK8000 systems.



Warning: The NK822x units handle the protocol interpretation for the subsystems supporting interactions. In order to do so, the NK822x needs to be downloaded with the updated configuration of the management stations, even after a minor modification to the subsystem structures (e.g.: importing a new CS11 metafile including a new object).

Depending on the specific configuration change, failing to download the NK822x units may affect the correct behaviour of the telegram interpretation and result in missing event signalling. In general, we recommend including a complete NK882x download after any change in the configuration.

¹ MK8000 MP3.18 to be released in early 2006

² MT8001 MP3.15 to be released in late 2005

2 What's new in MP3.15

This section details the differences between the previous MP3.10 and MP3.15.

New functions in MP3.15

- Support for STT2014 control unit.
- Support for local interactions on all CS11 architectures (including Cerloop).

Corrections in MP3.15

-
- 6392 In Composer, no detection of certain failures of NK822x firmware download.
-
- 6597 Enhanced buffer capacity can now better support propagation of commands from geographical tree objects.
-
- 6602 No warning message was provided in Composer when the NK822x units were not updated with the latest database configuration, required for the correct telegram interpretation.
-
- 6818 A rare error has been corrected in formatting the Cerban/Cerloop command messages to specific CC11 control zones.
-
- 6882 Delay and loss of commands originally issued on a geographic object and then propagated along the tree to a large number of nodes. The execution used to take up to 10 sec. per node and to be limited to max.70 commands.
-

Compatibility with management stations

NK822x MP3.15 can provide IP connectivity for new DMS software released at the same time. They include:

- **MM8000 MP3.15**
- **MK8000 MP3.18** (as soon as available)
- **MT8001 MP3.15** (as soon as available) **in serial mode only**

Software tools

The Composer tool can now support the NAT (Network Address Translation) function in the NK822x IP addressing.

Product Documentation

The complete NK8000 documentation has been updated to reflect the latest compatibility issues, although with no major modifications.

EDMS	Document Name	Status
007780	NK8222 Data Sheet	Updated (09.2005)
007777	NK8223 Data Sheet	Updated (09.2005)
006913	NE8000 Data Sheet	Updated (09.2005)
008077	NK8223 Demo Suitcase Data Sheet	Updated (09.2005)
007794	Sales Presentation	Updated (09.2005)
007920	Sales Guide	Updated (09.2005)
008084	DMS8000 Application Planning	Updated (09.2005)
008602	Release Notes (this document)	Updated (09.2005)
007798	Installation Configuration & Commissioning	Updated (09.2005)
007083	DMS8000 Network and Subsystem Connectivity Guide	Updated (09.2005)
003183	Composer Technical Manual	Updated (09.2005)
4414	Technical manual MP1.1 (for LMSmodular)	Unchanged (02.2003)

3 Migrating from a previous release

3.1 Verification

Upgrading from previous MP1.0 (R1.01), MP1.1 (R1.31), MP2.1, and MP2.11 to MP3.15 is possible as long as you ensure the following:

- The architecture includes a max. of 50 NK822x units.
- For MP1.x: A new host DMS system (MM8000 or MK8000+OPC client) is used in place of previous LMSmodular.
- The control units (subsystems) connected to NK822x are supported in the software of new DMS.

3.2 Upgrading procedures

The upgrade procedure list depends on the previous release.

Upgrading MP1.x sites (NK822x units and LMSmodular)

1. Using NW8201, take detailed notes of the existing NK822x configuration (see section 3.2.1).
2. Update central software, from LMSmodular to MM8000, MT8001, or MK8000.
→ See 006799 (MM8000), 006647 (MT8001), or 004972 (MK8000) Installation, Configuration, and Commissioning manual.
3. Enter the configuration with Composer.
→ See 006799 (MM8000), 006647 (MT8001), or 004972 (MK8000) Installation, Configuration, and Commissioning manual.
4. Update NK822x firmware and configuration with Composer (see section 3.2.2).
5. Reset the NK822x unit using the Composer command.

Upgrading MP2.1 and higher sites (NK822x units and MM8000 or MK8000)

1. Install latest MM8000 or MK8000, upgrading previous version.
→ See 008601 (MM8000) or 008603 (MK8000) Release Notes.
2. Update NK822x firmware and configuration with Composer (see section 3.2.2).

3.2.1 Taking notes of NK822x configuration

CDI-WAN MP1.x configurations prepared with NW8201 are not compatible with the new version and must be reintroduced in Composer. Therefore, it is necessary to take notes of the old configuration so you can re-enter it later in the new tool.

Please use the checklist table on next page as a form for each of the NK822xs.

Note: Photocopy the page as many times as required and then fill-in the forms.

NK822x configuration		
<input type="checkbox"/>	Branch no.: _____	Branch number, ranging from 1 to 50
<input type="checkbox"/>	IP address: _____ . _____ . _____ . _____	IP address, subnet mask and default gateway address for the NK822x. Take note of the four 3-digit numbers (0-255). Note: The default gateway may not be required (and left = 0.0.0.0) if the unit is in the same subnet as the central.
<input type="checkbox"/>	Subnet mask: _____ . _____ . _____ . _____	
<input type="checkbox"/>	Default gateway: _____ . _____ . _____ . _____	
<input type="checkbox"/>	COM1: Control unit: _____	Take note of the control unit, subsystem, or interface unit connected to the serial port (for example, CK11, MK722, CF-9000), as well as the communication protocol (such as Cerban, Cerloop, CMX-DL).
<input type="checkbox"/>	Protocol: _____	
	Baud rate: _____	
	Subsystem local address: _____	
<input type="checkbox"/>	COM2: Control unit: _____	Take note of the control unit, subsystem, or interface unit connected to the serial port (for example, CK11, MK722, CF-9000), as well as the communication protocol (such as Cerban, Cerloop, CMX-DL).
<input type="checkbox"/>	Protocol: _____	
	Baud rate: _____	
	Subsystem local address: _____	
<input type="checkbox"/>	COM3: Control unit: _____	Take note of the control unit, subsystem, or interface unit connected to the serial port (for example, CK11, MK722, CF-9000), as well as the communication protocol (such as Cerban, Cerloop, CMX-DL).
<input type="checkbox"/>	Protocol: _____	
	Baud rate: _____	
	Subsystem local address: _____	

3.2.2 Updating NK822x firmware

The NK822x software should be updated with latest file set, which includes:

File name	Date	New in MP3.15
Burle.DLL	22/09/2005	Yes
CDDL.DLL	22/09/2005	Yes
CeiCa.DLL	22/09/2005	Yes
CerBan.DLL	22/09/2005	Yes
CerComD.DLL	22/09/2005	Yes
CMSDL.DLL	05/10/2005	Yes
CMSDLNet.DLL	05/10/2005	Yes
CMX.DLL	22/09/2005	Yes
Disk386D.BIN	18/12/2003	No
CC11EP5.DLL	22/09/2005	Yes
CC11EP7.DLL	22/09/2005	Yes
I2cIO.DLL	22/09/2005	Yes
Interact.DLL	22/09/2005	Yes
MK7022.DLL	22/09/2005	Yes
MKCNAP.DLL	22/09/2005	Yes
Monitor.DLL	22/09/2005	Yes
NK822x.EXE	30/09/2005	Yes
SI400.DLL	22/09/2005	Yes
STT2410.DLL	22/09/2005	Yes

Upgrading MP1.x sites

The software update operation can be performed using Composer. However, local operations at NK822x are required. Please proceed as follows:

- In Composer, configure the NK822x to update.
→ See DMS8000 Connectivity Guide (edms #007083) for detailed instructions.
- Select the NS8210 NK8000 driver node and then the "Download" tab.
- Using the downloading control buttons, download the configuration to have it ready for new firmware. Once downloaded, depending on the version, the NK822x may reset or not. You may have to wait for up to 2 minutes for the reset to complete.

Do not proceed further until the end of the download.

Hint: You can monitor the NK822x status with the "ping" command. During reset, the ping requests will time out.

- Using the control buttons at the bottom, add the latest Firmware MP3.15 version to the firmware list.

Note: You will have to select the firmware files that are located in a folder named "NK822x - Firmware" in the DMS main folder (e.g. C:\MM8000\ NK822x - Firmware).

- Select the NK822x in the branch list to update, and the firmware version you just added, and then command the firmware download.

At this point, you will have to reset the NK822x unit. If the reset does not occur spontaneously after downloading, then you have to operate locally on the unit (switch it off, then wait 15 sec. and then turn it on again).

Note: In few minutes, the NK822x will be ready to operate again. Note that there will be no screen indications of the download progress status, but the end of the firmware download will be reported with a message box.

- Repeat this procedure for all NK822x units.

Note: Approx. 8 minutes are required for the entire file transfer for each unit.

Notes:

- Referring to the procedure to upgrade MP1.x sites, if the firmware download is executed before downloading the configuration and the NK822x resets, then the new firmware will start without a valid configuration and therefore without a valid IP address.
This will result in the NK822x operating with the default IP settings. Therefore, the only way to set the valid IP address will be using the NW8204 or NS8210 Web Server tool. Depending on the network environment, it may or may not be possible to reach the unit remotely when operating with default IP address.
- At the end of the update procedure, the old MP1.x files (CNF and CFG extensions as well as DLL not included in the list on page 9) are not required any longer and may be removed from the NK822x permanent memory. However, this is not mandatory and requires accessing the NK822x in FTP mode via NW8204 or NS8210 Web Server tool (→ see NK8000 ICC manual) and operating with extreme care.

Upgrading MP2.1 and higher sites

1. In Composer, select the NS8210 NK8000 driver node and then the “Download” tab.
2. Using the downloading control buttons, download the configuration to have it ready for new firmware. Once downloaded, the NK822x will reset or not. You may have to wait for 2 minutes for the reset to complete.
Do not proceed further until the end of the download.
Hint: You can monitor the NK822x status with the “ping” command. During reset, the ping requests will time out.
3. Using the control buttons at the bottom, add the latest Firmware MP2.11 version to the firmware list.
Note: You will have to select the firmware files that are located in a folder named “NK822x - Firmware” in the DMS main folder (e.g. C:\MM8000\ NK822x - Firmware).
4. Select the NK822x in the branch list to update, and the firmware version you just added, and then command the firmware download.
Note: In few minutes, the NK822x will be ready to operate again. Note that there will be no screen indications of the download progress status, but the end of the firmware download will be reported with a message box.
5. Repeat this procedure for all NK822x units.
Note: Approximately 8 minutes are required for the entire file transfer for each unit.

4 Compatibility matrix

Unit – Protocol	Supported in <u>NK8000 MP3.15?</u>	Interaction?	Management stations		
			<u>MK8000 MP3.18</u>	<u>MM8000 MP3.15</u>	<u>MT8001 MP3.15</u>
Burle CCTV – Allegiant	Yes	Yes	Yes	Yes	No
Comerson CCTV – CDDL/CDSF	<i>No, use MP1.1 and LMS</i>	No	No	<i>No, use LMS</i>	No
CDDL/CDSF compliant subsystem	<i>No, use MP1.1 and LMS</i>	No	No	<i>No, use LMS</i>	No
FHI-PAD - CDDL/CDSF	<i>No, use GW20 and LMS</i>	No	No	<i>No, use LMS</i>	No
CC30 CerPass – CerTalk	<i>No, use MP1.1 and LMS</i>	No	No	<i>No, use LMS</i>	No
CC60 – Cerban	Yes	No	Yes	Yes	Yes
CF-9003/CMX - CMX-DL	Yes	Yes	Yes	Yes	Yes
CZ12 – Cerban	Yes	No	Yes	Yes	No
CS4 – Cerban	Yes	No	Yes	Yes	No
CS440 – Cerban	Yes	No	Yes	Yes	Yes
CS6 Guarto MP3 – CerCom/LON	Yes	Yes	Yes	Yes	Yes
CS11 – Cerban and ISO1745; EP5 and EP7	Yes	Yes	Yes	Yes	Yes
FC700A – ISO1745	Yes	No	Yes	Yes	Yes
CZ10 – Cerban	Yes	No	Yes	Yes	Yes
Honeywell OpenLink 3000 – ModBus	<i>No, use GW20 and LMS</i>	No	No	<i>No, use LMS</i>	No
L&S NCRS – Staefa Port (NISE)	<i>No, use GW20 and LMS</i>	No	No	<i>No, use LMS</i>	No
MK-7022 Cerloop – ISO1745	Yes	No	Yes	Yes	Yes
Simatrix – CDDL/CDSF	Yes	No	Yes	Yes	No
STT11 – via Cerloop	Yes	No	Yes	Yes	Yes
Transliner – SIZE	<i>No, use GW2x and LMS</i>	No	No	<i>No, use LMS</i>	No
SI410 – Sintony protocol	Yes	Yes	Yes	Yes	Yes
STT2410 – Cerban	Yes	No	No	Yes	No
DMS7000 units (MF7033 etc.)	Yes	No	Yes	Yes	No
Upstream Serial (NK822x → MM, MT, MK) – CMSDL, max 1	Yes	No	Yes	Yes	Yes
Upstream LAN (NK822x → MM, MK) – CEI79, max 1 ⁽¹⁾	Yes	No	Yes	Yes	No
Upstream LAN (NK822x → MM, MK) – CMSDL/IP, max 4 ^(1,2)	Yes	No	Yes	Yes	No

Notes:

- (1) MT8001 MP3.15 cannot be connected over LAN.
- (2) If the Upstream Serial is configured, then the maximum number of CMSDL/IP links is 3 only.
Four is actually the total number of DMS hosts that the NK822x can handle, regardless of the type of physical connection.

→ See also DMS8000 Connectivity Configuration Guide (edms #007083), Appendix A “Network Connectivity Options”.

5 Known problems & bugs

This is a list of known problems and limitations in MP3.15. For troubleshooting, see the troubleshooting documentation. See also section 7 on page 14 for links providing useful information.

- Interaction problem on NK822x restart:
Sometimes during the start up phase the interactions configured don't 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 in interactions add a check on the status of the COM port.
- NK8000 (CDI-WAN) MP1.x configurations made with NW8201 are not compatible with the new version and must be reintroduced in Composer projects for 3.15.
→ See also section 3 on page 6.
Note: MP2.1 configurations and later, based on Composer, are instead fully compatible. A specific update procedure may however be necessary as described in the product Release Notes (MM8000, MK8000).
- The number of NK8222 and NK8223 MP3.15 that can be connected to a DMS host is limited to a maximum of 50.
- NW8202 V1.00 tool (CDI-WAN MP1.x) cannot be used for NK8000 MP3.15 products. Instead, use the new tools distributed with MP3.15.
- CS6 Guarto MP2b is no longer supported by DMS8000 software.
- Dial-up connections over modem lines are not yet supported by NK8000.

6 Documentation

This section provides an overview of what information is included in each of the documents that accompany NK8000 MP3.15.

6.1 NK8000 product binders

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

6.2 Sales documentation

Product Datasheets

These are short documents to be used for introducing the NK822x Ethernet Ports, and NE8000 housing solutions for the NK822x to potential customers. NK8222, NK8223, and NE8000 datasheets have been updated, while that created for the NK8000 demo suitcase is unchanged for this release.

Sales Presentation

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

Sales Guide

This updated guide lists the most important sales arguments for NK8000 products.

DMS8000 Application Planning

This new 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 MP3.15.

6.3 Technical documentation

Release Notes

This document outlines what's new and different about MP3.15 and how that affects your work. It also includes any newly discovered bugs and fixes.

Installation Configuration & Commissioning

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 Connectivity Configuration guide.

DMS8000 Connectivity Configuration Guide

This is an updated document that is shipped with all FSP-DMS products. It includes 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 guides.

Composer Technical Manual

This updated guide explains how to use Composer in general. It provides a reference to commands and instructions used during the system configuration.

7 Support links and resources

7.1 NK8000

Updated in 3.15

Our Customer Support Center 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 new support mailbox: fsp.support@siemens.com.

7.2 Microsoft

General support about Microsoft Windows can be found at:
→ <http://support.microsoft.com/directory/>

7.2.1 Windows 2000

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>

Security issues:

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

7.2.2 Windows XP

Technical information, including deployment guides

→ http://www.microsoft.com/resources/documentation/Windows/XP/all/reskit/en-us/prork_overview.asp

Windows XP support

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

Windows XP SP2 - Frequently Asked Questions (FAQs)

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

Windows XP SP2 – How to ...

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

Security issues

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

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>

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