

SIEMENS



MK8000 MP3.20 OPC server for subsystems



Product Release notes

Building Technologies

Fire Safety & Security Products

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1 Introduction

These release notes provide information on the latest MK8000 MP3.20 software delivery. In this release, MK8000 has been further enhanced to provide a higher level of connectivity and reliability.

1.1 What's new in MP3.20

This section details the differences between the previous MK8000 MP3.18 and the new MP3.20.

Be aware that the previous release MK8000 MP3.18 has introduced a remarkable number of modifications, including the assisted installation (installation menu screen), an improved Composer environment (project management window and more), more software requirements (MSDE, SQL-XML, NET Framework) and communication drivers (SiPass, Video network, SI410), a new license calculation mechanism, and other functions. If you are not already familiar with MP3.18, you may want to see MK8000 3.18 Release Notes (document 008903 revision "a").

Here is the list of further modifications and improvements included in MP3.20:

1.1.1 MK8000 integrated in MM8000

MM8000 and MK8000 are now integrated in the same general software environment. Although the setup procedures are separated and the products can be installed individually, a properly configured and licensed MM8000 system can now provide the MK8000 OPC server functions to OPC clients.

Also, the MM8000 setup also includes a command to switch to MK8000 product and vice versa. The command modifies the server task list and the Composer default project.

→ See MM8000 ICC manual n. '006799_h_en'.

1.1.2 Software Installation

By default, the MK8000 MP3.20 setup installs the software files in the 'C:\Program\Files\DMS8000' folder. You can change the default destination folder during the setup procedure. Note that the folder "*Program\Files*" can be named differently depending on the national Windows version.

→ See MK8000 ICC manual n. '004972_h_en'.

1.1.3 Enhanced connectivity

- Support for large configuration (100,000 Composer nodes), including up to 100 NK822x units. Support for BACnet/IP link using NK8225.
- FC330A and CC1115 fire units can be directly connected to MK8000 (see 1.1.7 below), whereas SIGMASYS/D100 systems can be connected via NK8000.
 - See Network, Fire, and Intrusion Connectivity Guide n. '007083_j_en'.
- SiPass: use V2.3 Build 21. Support for older releases has been discontinued.
 - See 1.1.5 below and Access Control Connectivity Guide n. '009424_b_en'.
- Video: support for new Siemens SISTORE SX and CX as well as SIMATRIX NEO.
 - See 1.1.6 below and Video Connectivity Guide n. '009425_b_en'.

1.1.4 Composer tool

Multiple clients and remote client

Up to two Composer MP3.20 client stations can be used simultaneously for configuration purposes on the same project, using the Composer client software and connecting (even from a remotely networked PC) to the Composer server.

As for a single client, Composer requires a license + key or a Service key installed on the server machine. Note that the Service key, when installed on the client PC, cannot enable the Composer client function.

→ See Composer Technical manual n. '003183_l_en'.



Note that, given the lack of specific messaging services across multiple stations, Composer users simultaneously accessing the same project should be able to directly inform each other about activities, such as importing or downloading, which can temporarily suspend the server availability and significantly delay the system response.

User Manager

The User Manager tool is a simple application that allows configuring the Windows users who can start Composer, create new projects, run the configuration commands, and access the nodes information. The User Manager application can also associate each user to a *security profile*, which defines the set of available Composer commands, and to a *visibility level*, which enables the access to a given set of Composer node properties.

→ See MM8000 ICC manual n. '006799_h_en'.

1.1.5 Access control integration

The MK8000 MP3.20 can support the **SiPass V2.3 Build 21** or later. **Do not use previous release of the SiPass software.**

The following table shows the characteristics of the integrated MK8000 solution.

→ See 1.1.5 above and Access Control Connectivity Guide n. '009424_b_en'.

#	Description
1	Door statuses available in MK8000: <ul style="list-style-type: none"> – SiPass application Anomaly, Fault, and Misalignment with MK8000 – ACC and CC30 Controller Fault – Field Network Fault – Interface and I/O Modules Fault – Door Alarm (door forced), Tamper (door held), Anomaly (door unlocked), and Fault (device disconnected) – Reader Tamper and Fault – Auxiliary Input/ Output Active and Tamper
2	Control commands available in MK8000: <ul style="list-style-type: none"> – Reset Alarms, Tampers and Faults – Door Arm/Disarm (lock/unlock door) – Allow Access (activate door) – Output Activate/Deactivate
3	Support for hardware controllers <ul style="list-style-type: none"> – Support for ACC SiPass controllers – Support for CC30 CerPass controllers

→ See MK8000 Interface Specs SiPass (Model V2.00), document n. '008607_a'.

1.1.6 Video

New SISTORE CX/SX Digital Video Recorders are now supported: refer to the compatibility matrix provided below.

Video device model	Video device version	MK8000 Version
SISTORE AX	V2.40	MP3.18, 3.20
	V2.50	MP3.18, 3.20
	V2.60 (recommended)	MP3.18, 3.20
SISTORE MX (including NVR)	V2.55, V2.57, V2.58	MP3.20
SISTORE MX Pro	V2.45	MP3.18, 3.20
	V2.50	MP3.18, 3.20
SISTORE CX	V3.00	MP3.20
SISTORE SX	V3.00	MP3.20
TELSCAN	V2.00	<i>Not supported</i>
	V2.03A	MP3.18, 3.20
	V2.10	MP3.18, 3.20
Siemens IP cameras: → directly on LAN and mapped as single-line TELSCAN	Fixed IP cameras with: CCIS 1337-LP, CFVA-IP, CVVA-IP	MP3.18, 3.20
→ via SISTORE MX	Any IP camera compatible with SISTORE MX	MP3.20

→ See Video Connectivity Guide n. '009425_b_en'.

Note that MK8000 does not handle any video images and, for the supported devices, can only provide status information and control commands.

→ See MK8000 Interface Specs TELSCAN (Model V1.01), docum.n. '009426_a'.

→ See MK8000 Interface Specs SISTORE (Model V1.01), docum.n. '009428_a'.

1.1.7 FC330 (CS1115)

FC330A / CS1115 version

The FC330A / CS1115 version CISxx8.85 (xx depends on the national text version) has been tested with DMS8000 MP3.20. Please contact support for compatibility with the announced Service Release 4 (CISxx8.86).

Configuring the communication port in FC330A

In FC330A, in order to enable the communication protocol on the serial port, you need to configure the unit at control panel level. Follow this procedure:

1. Press "Start" and login for operating access (password required).
2. Select option 4 ("Other Functions").
3. Select option 4 ("Configuration").
4. Select option 1 ("User Functions") and enter the Configuration Password.
5. Select option 7 ("Serial Port").
6. Select option 1 ("Fixed Applications").
7. Select one of the two ports (typically Port 1).
8. Set "BMS" (Building Management System) application.
9. Press "Stop" to exit.

Configuring further communication options in FC330A

Other options related to BMS communications are available in the System Data menu. The step list to configure them includes:

1. Enter FC330A configuration mode (see step 1-3 above).
2. Select option 1 ("User Functions") and enter the Configuration Password.
3. Select option 1 ("System Data").
4. Using the "down arrow" button, scroll down the list until you reach the following options:
5. The "Supervise BMS communication" option can be set if you require a local alarm if the communication goes down.
6. The "Prevent commands from BMS" option should not be set.
7. The "BMS message on 1st Multi-2 fire" option may or may not be set depending on the specific site requirements.
8. Press "Stop" to exit.



National version of the FC330A firmware may handle a different set of options in the System Data list.

- See FC330A Manual n.'001583_p_en' and FC330A Manual n.'001383_n_en'.
- See DMS8000 Network, Fire & Intrusion Connectivity Guide n. '007083_j_en'.
- See MK8000 Interface Specs FC330A (Model V1.04), docum.n. '009842_a'.
- See MK8000 Interface Specs CC1115 (Model V1.04), docum.n. '009843_a'.

1.1.8 NK8000

A new NK822x firmware (MP3.20) has also been released with MK8000 MP3.20. The new firmware includes defect corrections and optimisations.

Upgrading the NK8222 and NK8223 units is recommended.



Warning: as in previous releases, the NK822x units now 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 NK822x configuration download after any change in the configuration.

The new NK8225 product can now provide a BACnet/IP upstream protocol along with all other features supported by NK8223. Note that the BACnet/IP can only transport data messages for the following subsystems:

- CS11 AlgoRex Fire control unit
- FC700A Fire control unit
- CS6 Guarto Intrusion control unit
- SI410 Sintony Intrusion control unit

→ See Network, Fire & Intrusion Connectivity Guide no. '007083_j_en'.

→ See NK8000 MP3 20 Release Notes no. '009422_a_en'.

1.2 Connectivity

1.2.1 Networks & connectivity supported

The following network configuration types are supported:

- Cerloop – same as 3.10.
- CDI-Net – same as 3.10.
- NK8000 – **New BACnet/IP link option.**

The following network components are supported:

- MK7022 (ISO1745/Cerloop) – same as 3.10.
- CK11 and FG700A (ISO1745) – same as 3.10.
- GW20 and GW21 (CMSDL/CDI-Net) – same as 3.10.
- NK822x over serial line – same as 3.10.
- NK8222/NK8223 over LAN/WAN – same as 3.10.
- NK8225 – **New BACnet/IP link.**

1.2.2 Subsystems supported

Fire & Gas Subsystems

- CS11 AlgoRex® EP5 and EP7 – same as 3.10.
- FC700A – same as 3.10.
- STT11 – same as 3.10.
- STT20 and STT2410 (new in 3.20, but still under test).
- CZ10 – same as 3.10.
- CC60 – same as 3.10.
- FC330A (direct connection to MK8000) – **New in MP3.20.**
- CC1115 (direct connection to MK8000) – **New in MP3.20.**
- SIGMASYS/D100 (via NK822x) – **New in MP3.20.**

Intrusion Subsystems

- CS440 – same as 3.10.
- CS4 – same as 3.10.
- CZ12 – same as 3.10.
- CS6 Quarto – same as 3.10.
- SI410/420 Sintony – same as 3.18.

Other Subsystems

- DMS7000 units, including MM- and MF-7033 – same as 3.10.
- SIMATRIX (16-4; 64-8; SYS, NEO) – **Updated in 3.20 (SIAMTRIX NEO).**
- CF9000 I/O subsystem (DF8020/8040/8045/8046) – same as 3.10.
- Philips/Burle video matrices (LTC 8xxx) – same as 3.10.

Access Control

- SiPass V2.3 - **Updated in 3.20 (Build 21).**

Video network

- SISTORE AX, CX, MX, MX pro, SX, and TELSCAN – **Updated in 3.20.**

2 Migrating from earlier versions to MP3.20

2.1 Migrating from MP1.xx and 2.xx

The configuration database migration from MP1 and MP2 releases is possible using MK8000 MP3.10 as intermediate conversion steps; see documents MK8000 MP3.10 Release Notes no.'008603_a'.

2.2 Migrating from MP3.10

The migration from MP3 releases (MP3.10) is possible as described in this section. You perform the following steps:

Make sure you have a backup copy of your MK8000 project (Composer backup).

1. Get the current OPC configuration documents, which include the OPC group names (to be used in the following steps). In case of difficulties, you can generate a new CSV file using the export wizard application (see the MK8000 Installation Configuration and Commissioning guide for details).
2. Uninstall previous MK8000 version and reboot.
3. If still present, delete the 'C:\MK8000' folder.
4. Install MK8000 MP3.20 (do not forget to check the software prerequisites).
5. Start Composer and restore your project
6. Open the project (note that the opening process may take quite a few minutes).
7. In the 'OPC group name' field of the MK8000 tab of each subsystem and network units, insert the OPC group name previously assigned (this is required if any name customisations were made). You can get the actual names directly from the client or in the OPC configuration documents (step 1).
8. Check the license: in Composer, on the MK8000 Node, use the license view and check options.
→ See 004972 MK8000 Installation Configuration & Commissioning.
9. Download the new project.
10. If used, download the NK822x units with the latest firmware as well as the configuration data.
→ Refer to the NK8000 chapter in the DMS8000 Network Connectivity Guide (007083_j_en).
11. Close Composer.



Opening MK8000 MP3.18 projects in MP3.20

Currently, MK8000 3.18 projects must be reconfigured in Composer MP3.20; restore is not supported.

3 Known issues

This is a list of known problems, limitations and bugs in MP3.20. For troubleshooting, see the Maintenance & Troubleshooting guide. See also Section 5 at p.16 for links providing useful information.

3.1 Installation

MSDE or SQL server

MK8000 MP3.20 requires SQL server or MSDE (MS SQL server Desktop Engine) 2000. If SiPass is also installed, then the MSDE installed by SiPass can also be used for MK8000 as well.

Note: The SiPass setup does not accept the MSDE copy installed by MK8000 as valid.

If you have installed MK8000 before SiPass, then proceed as follows:

1. Uninstall MK8000 and reboot
2. Uninstall MSDE 2000 and reboot
3. Delete the MSDE folder, typically C:\Program Files\Microsoft SQL Server
4. Install SiPass
5. Re-install MM8000

SQL security

MSDE has a security weakness (the empty 'sa' password) that can be fixed by setting your SQL password with a special command available in:

```
<installation folder>\Utilities\Bat\SetSQLServerPassword.bat
```

Run this batch file adding your password as parameter (copy and paste the command line into the 'Start → Run' line, then enter the password and click 'OK').

Note: You can also edit this file and replace the "%1" field with your own password. Then save the file with another name (the original is read-only) and run it. Keep the new file in a safe place in case you need to refer to the new SQL password.

If MSDE was installed with SiPass, please follow the SiPass documentation concerning this issue.

Troubles with the hardware key

If after the installation the PAK manager cannot recognise the HW key, the sentinel drivers need to be installed manually. In this case launch the set-up located in:

```
<installation folder>\PAK Manager\Sentinel Drivers\SSD5411-32bit
```

and follow the instructions; when prompted, select the default installation.

Cannot change domain/PC name

MM8000 does not support a domain/PC name change on the Client or Server after the installation. The solution is to uninstall MM8000, rename the PC, reboot, and then install the software again.

→ See also MM8000 ICC manual (006799_i_en).

3.2 Configuration

Clients not supporting DCOM





Clients not supporting DCOM require a script be installed on the client PC to create the illusion that the OPC server resides on the OPC client, and permits them to communicate effectively. This is provided with the software and is detailed in 004972 MK8000 Installation, Configuration, and Commissioning guide.

DMS7000 metafile for CZ10 and CZ12

If a subsequent import is required, then the control unit name should be the same original name or the import will not work.

Cannot use USB service key and old parallel keys at the same time

In certain cases, two license keys can be used on the same machine to enable MK8000 and tools separately. Be aware that the old generation of keys (larger in size, see picture below) will not work properly when the USB key is also installed. In such cases, you will have to remove the USB dongle (i.e. the service key used for enabling Composer) when you need the MK8000 to recognise the parallel key.

Model	Picture	Can it be used together with USB?	Customer Key and + Service Key
New model		Yes 	USB key can be used with no side effect on the parallel-port key.
Old model		No 	USB key must be removed in order to get the parallel-port key to work again.

Updated in 3.20
(reduced list of issues)

The Sintony control unit should be configured to enable the Partition setting while in power supply and communication failure conditions. Modifications to the control unit via local terminal configuration should be disabled in order to prevent inconsistencies with the MM8000 database. Be informed that, in MP3.15-01 and later versions, SI410 inputs do not generate alarm events. Alarms are instead generated at partition level, so that an easier alarm treatment can be provided.

3.3 Functionality

Acrobat writer/distiller

Installing MK8000 typically affects the behaviour of the Acrobat Writer/Distiller, which will not work properly any more, even uninstalling MK8000.

4 Documentation

This section provides an overview of what information is included in each of the documents that accompany MK8000 MP3.20.

EDMS	Document Name	Status
004968_h	Product Data Sheets	Updated
004970_b	Sales Guide	No changes from 1.10
008084_e	Application & Planning	Updated
008093_a	Release Notes MP3.20	New (this document)
004972_h	Installation Configuration & Commissioning	Updated
007083_j	DMS8000 Network, Fire and Intrus.Conn.	Updated
009424_b	Access Control Connectivity Guide	Updated
009425_b	Video Connectivity Guide	Updated
003183_i	Composer Technical Manual	Updated
004971_h	MK80000 OPC Interface Specifications	Updated

The following subsystem interface specifications are available with MP3.20:

EDMS	Subsystem name	Status
004974_d	CS11 EP5 (CC11 + CK11)	Same as MP1.30
007546_b	CC11 EP7	Same as MP1.30
007129_b	CK11 EP7	Same as MP1.30
008596_a	FC700A	Same as MP1.30
008608_a	FG700A	Same as MP1.30
009842_a	FC330A	New in 3.20
009843_a	CC1115	New in 3.20
009846_a	SIGMASYS/D100	New in 3.20
007080_d	CZ10	Same as MP1.30
007081_d	STT11	Same as MP1.30
007127_b	SK11	Same as MP1.30
007547_b	CC60	Same as MP1.30
004973_b	CS440	Same as MP1.30
007078_b	CS4	Same as MP1.30
007545_b	CS6	Same as MP1.30
007079_b	CZ12	Same as MP1.30
007082_b	DMS7000	Same as MP1.30
007122_b	GW20 / NK8210	Same as MP1.30
007124_b	GW21	Same as MP1.30
007125_b	MK7022	Same as MP1.30
007154_b	NK8223 (GW21 emulation)	Obsolete, see 007879
007879_b	NK822x	Same as MP1.30
007880_a	CF9000	Same as MP1.30
007881_a	SIMATRIX (stand-alone)	Same as MP3.18
008085_a	Philips/Burle CCTV	Same as MP1.30
008597_b	SI410/420 Sintony	Same as MP3.18
008607_a	SiPass	Same as MP3.18
009426_a	TELSCAN	Same as MP3.18
009427_a	SIMATRIX (in video network)	Same as MP3.18
009428_a	SISTORE	Same as MP3.18
009429_a	Video Camera	Same as MP3.18

4.1 MK8000 Product Binder

The product binder contains all sales and technical documentation. This format reflects the new standard for FSP-DMS documents.

4.2 Sales documentation

Product Datasheet (document no. 004968 rev. "h")

This is a brief technical sales document to be used for introducing the MK8000 to potential customers.

- This has been updated to reflect the new subsystems and network solutions available in MP3.20.

Sales Guide (document no. 004970 rev. "b")

It contains background information about the target market for the MK8000, potential pitfalls to avoid, and some sales arguments.

- The sales guide is unchanged from 1.10.

Sales Presentation (document no. 007121 rev. "a")

This is a brief PowerPoint presentation that can be used as is, or modified for client presentations. It provides an overview of the MK8000 system.

- The sales presentation is unchanged from 1.10.

DMS8000 Application & Planning (document no. 008084 rev. "e")

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 MM8000 MP3.20.

4.3 Technical documentation

4.3.1 MK8000 documentation

Release Notes (document no. 009423 rev. "a")

This document outlines what's new and different about MP3.20 and how that affects your work.

MM8000 Installation, Configuration and Commissioning (ICC) (document no. 006799 rev. "i")

The ICC guide provides step-by-step procedures for installation and configuration of the MK8000. During configuration, this manual should be used in tandem with the DMS8000 Connectivity Configuration guides.

The installation checklist at the end of the document is intended to be used as an aid in gathering information from the customer prior to beginning configuration.

**DMS8000 Connectivity Configuration Guides:
Network, Fire, and Intrusion (documents no. 007083 rev.“j”)
Access Control (document no. 009424 rev.“b”)
Video (document no. 009425 rev.“b”)**

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 subsystems supported by DMS8000 products. This should be used in conjunction with the ICC guide.

**Subsystem Interface Specifications
(various documents)**

Interface specifications are available for all the supported subsystems. Most of these are only available in PDF format. If you need to edit these documents, you can save the PDF as a RTF document, which can then be opened in Microsoft Word or Notepad.

4.3.2 OPC foundation documentation

OPC Common 1.10

This is the specification of rules, design criteria and interfaces that are common to developers of OPC clients and OPC servers. The specification is a result of an analysis and design process to develop a standard interface to facilitate the development of servers and clients by multiple vendors so that they can interoperate seamlessly together.

OPC DA 2.05a (Data Access Interface Specifications)

This is the interface specification for developers of OPC Data Access clients and OPC servers. The specification is a result of an analysis and design process to develop a standard interface to facilitate the development of servers and clients by multiple vendors so that they can interoperate seamlessly together.

- The MK8000 OPC Server MP3.10 supports the required COM interfaces described in the OPC Data Access Custom Interface Standard V 2.05 – section 3.1.

Using OPC via DCOM with XP SP2.pdf

This technical note contains information about OPC network operations with Windows XP SP2. This Windows release includes a new firewall designed to prevent malicious attacks to the computer. Due to this feature, a special setting is required to enable OPC network communication (DCOM).

5 Customer support links & resources

Updated in 3.18

Our Customer Support Center intranet site at <http://intranet10.sbt.siemens.com/Divisions/fs/csc.htm> 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: fs.support.sbt@siemens.com.

5.1 OPC

The OPC Foundation at www.opcfoundation.org is a great resource for documentation and the latest information on OPC.

5.2 Microsoft

5.2.1 General support

General support about Microsoft Windows can be found at:

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

5.2.2 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>

5.2.3 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>

5.3 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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DMS8000 Technical Material
Section 1