



Product Datasheet

MM8000 MP4.10 Management Station

- **MM8000 provides a powerful solution for centralised alarm management and supervision of a wide array of security and control systems.**
- **Founded on cutting edge software and network technology, MM8000 is designed specifically for safety and security applications.**
- **MM8000 guides the operator under stressful conditions to perform the correct actions in the right sequence.**
- **The Siemens family of danger management systems includes solutions for fire and intrusion, gas alarms, access control, video surveillance, extinguishing, and building automation systems.**
- **The MM8000 provides OPC client functionality for the integration of OPC server subsystems.**
- **Optional OPC Server (MK8000) available for external OPC client hosts.**

System overview

Main MM8000 benefits

- System and software solutions specifically designed for safety and security applications.
- Open system structure based on up-to-date market standards in areas of hardware and software technology: standard PC hardware and TCP/IP networks, Microsoft© Windows© 2000, XP, and 2003 operating systems, MS-SQL Server databases, AutoCAD drawing format.
- Flexible architecture that allows solutions ranging from simple single station configuration to complex distributed client/server configurations.
- Complete scalability of all configurations, allowing need-based expansion of any system, from small and medium systems to complex and sophisticated systems.
- Open communication with third party units utilising an SDK (Software development kit). Communication can be performed through local and networked connections.
- Personalisation of solutions thanks to broad configurability, including system level workstation and user profiles.
- Specialised interface designed for rapid and accurate handling of alarms in emergency situations: an appropriate guidance is provided to the operator to deal with stressful alarm conditions and to actuate the necessary protective measures in the correct sequence.
- A graphically driven interface that gives clear and immediate management of emergency situations and control operations.

MM8000 features

A complete security management solution: secure and flexible; fully scalable; extensible for long-term investment; easy implementation and modification; simultaneous guidance and control for the user. The MM8000 is designed specifically for safety and security applications, and offers a simple and intuitive user interface.

Event treatment

The main screen of the *Event treatment* area contains a list of the events, such as alarms, that have occurred and require intervention. Events are listed in order of severity from top to bottom, and are colour coded by type so the level of criticality is easily distinguishable.

Event lists can also be filtered to display events with certain attributes or criteria. This enables operators to display only certain types of event (for example by category or discipline). Maintenance mode can also be handled to keep a separate list for the events that are caused by technical service or tests.

Plant browser

This tool enables you to navigate through the various levels of a facility, and manage all the points configured in the MM8000 installation. Navigation is performed with a user-friendly hierarchical tree view of a site, and an optional graphical or map view. It offers an easy-to-use method of selecting individual objects to perform tasks. Examples for those tasks are:

- Turning a section or zone off or on (exclude or include)
- Putting any point into maintenance mode
- Putting a section or zone into test mode
- Sending access control commands
- Viewing live video images

History browser

The History browser provides access to the record of each event that has occurred, including details such as what treatment procedures were followed, when, and by whom. Custom reports are easily generated with this utility, and data easily retrieved for analysis or interrogative tasks.

The History browser database of stored events can also be configured to be periodically automatically archived so that older events are not overwritten.

Scheduler

The Scheduler is where time-dependent functions (Time Programs) are defined based on the system time and calendar. Also, multiple Organisation Modes can be created in order to define blocks of time when the system should behave in a certain way. During runtime, predefined tasks can be modified, and new tasks can be defined as needed.

Video integration

MM8000 event treatment and system management include the integration with video surveillance, thus providing for effective alarm verification and remote monitoring by means of live and recorded video images.

Access control

The integration of SiPass with MM8000 allows operators to remotely lock and unlock doors, and to grant access to different areas of a facility. This feature ensures a high level of security with a simple click of the mouse.

More features

MM8000 offers numerous functions that allow each system to be tailored to fit the individual customer needs. Namely:

- System security integrated with Windows (combined login)
- Advanced graphics including AutoCAD
- Dual-screen displays for a combined text + graphics user interface
- Macro sequences for building complex programmed actions
- Programmable reactions for creating automated cause-effect mechanisms
- Remote event notification via SMS, dialers, E-Mail, and pagers
- Ability to print filtered reports
- Dial-ups available as primary or backup connectivity (in the case of no network or if the network is down)
- Optional redundancy solution with dual servers to prevent service interruption
- OPC Client functionality for the integration of OPC Server subsystems
- Optional OPC Server (MK8000) available for external OPC client hosts
- Free 2 hour Demo mode

Architectural solutions – Management level configurations

Stand-alone: the easy solution for small size systems

- Single workstation that contains all software levels (client, server, and communication);
- Station communicates with the next level using local ports (EIA/TIA-232) or via the NK8000 Ethernet Port.

Peer-to-peer: the natively redundant solution, ideal for medium-size systems

- Multiple, independent workstations that contain all software levels (client, server, and communication);
- Stations communicate with the next level using local ports (EIA/TIA-232) or via the NK8000 Ethernet Port;
- Each station autonomous and independent; databases are not shared.

Client/Server: best for large systems with multiple operation responsibilities

- A server station provides communication and background functions to one or more networked client workstations;
- The server coordinates all activities so more operators can seamlessly cooperate on the same site;
- The architecture may also include:
 - MK8000 OPC Server for subsystems;
 - A networked access to the field (NK8000);
- Distributed communication over multiple Front-End Processor (FEP) computers over the network.

Client/Server: fault-tolerant solution for large systems

- Same as “Client/Server” above but includes dual hardware servers and a virtual MM8000 application. If a device or an entire server fails, MM8000 continues to operate uninterrupted.

Connectivity

Communication with locally distributed field units can be performed using:

- Cerloop redundant rings
- CDI-net, serial point-to-point, star topology networks
- NK8000 serial and IP networks, also supporting CDDL/CDSF and MODBUS standards
- OPC connectivity, both client and server
- Direct LAN

Control level configurations

Siemens safety units:

- CS11 AlgoRex fire detection systems
- FC700A fire detection systems
- CS1115 fire detection systems
- FC330A fire detection systems
- CZ10 fire detection systems
- STT11 système de télécommande et télésignalisation
- STT20 système de télécommande et télésignalisation
- STT2410 système de télécommande et télésignalisation
- SIGMASYS/D100 fire detection systems
- CC60 gas detection systems
- Autronica BSxxx (3rd party unit)
- LIST SCU 2000 (3rd party unit)
- CP100 (3rd party unit)

Siemens security units:

- SI410/420 Sintony intrusion detection systems
- CS6 Guarto intrusion detection systems
- CS440 intrusion detection systems
- CS4 intrusion detection systems
- CZ12 intrusion detection systems
- MAXSYS PC601 Intrusion (3rd party unit)

Siemens video surveillance units:

- SIMATRIX, SIMATRIX NEO Video crossbars
- SISTORE AX, CX, MX (including NVR¹), MXpro and SX digital video recorders
- TELSCAN Video Web Server
- IP cameras (fixed) equipped with:
 - CCIS1337-LP
 - CFVA-IP
 - CVVA-IP
- Philips Burle Allegiant LTC 8x00 video switchers (3rd party unit)
- Geutebrück MultiScope II Plus and MultiScope III DVRs (3rd party unit)

Siemens Access control units:

- SiPass Integrated Access Control System
- CerPass CC30 (connected via SiPass)
- RCO R-Card M5 (3rd party unit)

Siemens Automation and I/O units:

- SIMATIC S7
- MF7033 digital PLC unit
- CF9000 I/O system

Building automation units:

- DESIGO PX

Remote notification units:

- ESPA Pager System

¹ Network Video Recorder

Technical data

Hardware requirements

Pentium 4	2.4 GHz or better
Memory	1024 MB or better For large configurations plan to install at least 2048 MB.
Hard disk	40 GB
CD-Rom or DVD	1
COM Port	1 (2-4 optional)
LPT Port	1 (2-3 optional)
USB Port	1
LAN Connections	10/100 MB Fast Ethernet
Video adapter	One adapter, providing 1024x768 resolution or better. Recommended settings are: 1024x768, 1152x864, 1280x1024, and 1600x1200. 2nd adapter (or dual port) is optional
Keyboard and pointing device	Standard keyboard; mouse or trackball
LPT port Printer	1 – 3
COM or LAN network printer	1 – 3
Modem V.90, with Voice Support	Required for dialler
AT GSM modem	Required for SMS dispatcher
Pager device with serial interface based on ESPA protocol (ASCOM T9429Si supported)	Required for ESPA pager

Operating systems

Microsoft Windows 2000 Professional SP4 + Microsoft critical updates	
Microsoft Windows XP Professional SP2 + Microsoft critical updates	For MM8000 stand-alone, client and communication front-end (FEP) stations
Microsoft Windows 2000 Server SP4 + Microsoft critical updates	Recommended for MM8000 server station only
Microsoft Windows 2003 Server SP1 or R2 + Microsoft critical updates	

Software requirements

MSDE (Microsoft SQL Data Engine) 2000	Available on the DMS8000 product CD
MS SQL Server 2005 Express	Available on the DMS8000 product CD
SQLXML	Available on the DMS8000 product CD
.NET Framework V1.1 and V2.0	Available on the DMS8000 product CD
Internet Explorer 6.0 or later	Optional, required for automatic printouts
E-mail server (POP3, SMTP)	Optional, required for e-mail dispatcher

Technical characteristics

System dimensions	MM8000 server station	1 2 with redundancy	
	MM8000 client stations	10 (9 + 1 server)	
	MM8000 FEP stations	4 (3 + 1 server)	
	Subsystems	Although no fixed limit is actually present, please contact customer support for configurations above 100 subsystems	
	Points	100,000 (Composer nodes)	
	Graphic files	1,000	
	Graphic symbols displayed	Up to 400 per map is recommended for good visibility and performance (note that no fixed limit is present)	
	Intervention text	20,000	
	Operation procedures	1,000	
	Reactions/Sequences	1,000 Note: If more than 1,000 are foreseen, please contact customer support.	
	On-line registrations in historical archive	100,000	
	Operators	1,000	
	Operator groups	50	
	NK822x	Please contact customer support for configurations above 100 NK822x	
	OPC Data Access Server	MK8000 OPC Server	Optional; Limits to the assorted subsystems may apply
	OPC Client	MM8000	Optional; SDK provided for customisation development
Networks supported	Cerloop	Via MK7022	
	CDI-net	Via GW00/GW01/GW20/GW21	
	NK8000, also supporting: - CDDL/CDSF - MODBUS	Via NK822x	
	Direct control unit connection	RS-232; LAN	
Subsystems supported	CS11 AlgoRex	<ul style="list-style-type: none"> ● Direct RS-232 configuration / ISO1745 ● Cerloop configuration ● NK8000 configuration / Cerban ● NK8000 configuration / ISO1745 ● CDI-net configuration / Cerban ● CDI-net configuration / ISO1745 	
	FC700A	<ul style="list-style-type: none"> ● Direct RS-232 configuration / ISO1745 ● NK8000 configuration / ISO1745 ● CDI-net configuration / ISO1745 	
	CS1115 FC330A	<ul style="list-style-type: none"> ● Direct RS-232 configuration 	
	CZ10		
	CC60		
	CS4	<ul style="list-style-type: none"> ● Cerloop configuration 	
	CS440	<ul style="list-style-type: none"> ● CDI-net configuration / Cerban 	
	CZ12	<ul style="list-style-type: none"> ● NK8000 configuration / Cerban 	
	MF7033		
	STT11		
	STT20	<ul style="list-style-type: none"> ● Cerloop configuration 	
	STT2410		

SIGMASYS / D100	
SIMATRIX, SIMATRIX NEO	
CF9000	
Autronica BSxxx	
LIST SCU 2000	● NK8000 configuration
CP100	
MAXSYS PC601	
SIMATIC S7 ²	
Philips/Burle video switcher (LTC 8x00)	
SI410/420 Sintony	● Direct RS-232 configuration / ISO1745 ● NK8000 configuration
CS6 Quarto	● NK8000 configuration: max. 4 CS6 per NK8223 / NK8225 (max 1 for NK8222); CS6 connected via LON Bus to NK822x
SISTORE AX DVR	
SISTORE CX DVR	
SISTORE MX (including NVR) DVR	
SISTORE MXpro DVR	● LAN configuration
SISTORE SX DVR	
TELSCAN Video Web Server	
Geutebrück MultiScope DVR	
IP cameras (fixed)	● Equipped with: CCIS1337-LP / CFVA-IP / CVVA-IP
ESPA Pager System	● Direct RS-232 configuration
SiPass Integrated	● LAN configuration
CerPass CC30 controllers	● Connected via SiPass
RCO R-Card M5	● Via OPC DA server
DESIGO PX building automation	● LAN configuration
OPC server subsystems	● SDK for OPC client functions

² Via MODBUS add-on or OPC Client

Details for ordering

To suit your system, MM8000 allows different types of system configurations:

- Single (Base) Station
- Multiple (Base) Stations
- Single or Multiple (Base) Station with additional client(s) and/or FEPs

The same flexibility is provided at license level to scale the system to size and complexity. The license price for MM8000 stations is determined by the following criteria:

1. MM8000 entry package including the base functionality
2. # of subsystems - see Note (1) below
3. # of physical devices - see Note (2) below
4. # of connections and type of network drivers
5. # and type of options, if needed - see note (3) below

In every order, the order codes from '1' to '4' must be present.

- Notes**
- (1)** Every subsystem managed by the workstation counts for one, with the following remarks:
- CS6 Guarto systems: include one or more control units on a CerCom bus; each CC6 Guarto unit counts as 1 subsystem.
 - CS11 AlgoRex systems: include CK1142 interfaces and CC11 AlgoRex control units; each CC11 unit counts as 1 subsystem.
 - FC700A systems: include FG interfaces and FC control units; each FC unit counts as 1 subsystem.
 - CF9003 / CMX: Every CF9003 (CMX) cluster, identified by one serial line and containing up to 16 CF9003 (CMX) units, counts as 1 subsystem.
 - Video surveillance units, i.e. SISTORE and SIMATRIX count as 1 subsystem.
 - SiPass peripherals (each ACC) count as 1 subsystem.
 - Gateways and concentrators: NK822x, GWxx, MK7022, CK11, FG700A, CK4, CK1142 are not considered in the count.
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- (2)** The following physical devices managed by the base station (s) count for one:
- Addressable detectors such as smoke, intruder, gas sensors, readers, cameras, etc.
 - Collective detector lines
 - Manual call points
 - Control elements
 - Input / Output signals
 - Horn / Alarming devices / Alarming transmission units / etc.
 - Badge readers
-
- (3)** The option list includes:
- Additional client stations
 - Assisted treatment
 - Graphic maps
 - History
 - Dual screen
 - Dialler
 - Open mode
 - Scheduler
 - Event dispatching
 - CCTV cameras

To facilitate the ordering and calculation, a pre-defined 'MM8000 Project sheet' must be filled in for **every** MM8000 project.

→ Contact your local sales distribution centre.

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