



## Product Datasheet

DMS

### MM8000 MP3.20 Management Station

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- The MM8000 provides a wide array of solutions for the centralisation and management of physical security and control systems.
- Founded on cutting edge software and network technology, MM8000 is designed specifically for safety and security applications, and provides complete management capabilities from a single workstation.
- The Siemens family of danger management systems includes solutions for fire and intrusion, gas alarms, access control, video surveillance, and extinguishing systems.
- MM8000 is based on the leading standards: TCP/IP, MS-Windows and SQL Server, AutoCAD
- Optional OPC Server (MK8000) available for external OPC client hosts.

## System overview

### Main MM8000 features

- 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 system, 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 benefits

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 benefits**

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

## 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 a networked access to the field (NK8000);

### **Advanced distributed Client/Server: highest connectivity for huge configurations**

- The communication layer may be separated from the server and distributed over multiple Front-End Processor (FEP) computers over the network.

## 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

## Control level configurations

### Siemens safety units:

- CS11 AlgoRex (EP5) fire detection systems
- CS11 AlgoRex (EP7F) 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 (3<sup>rd</sup> party unit)
- LIST SCU 2000 (3<sup>rd</sup> party unit)
- CP100 (3<sup>rd</sup> party unit)

### Siemens security units:

- SI410/SI420 Sintony intrusion detection systems
- CS6 MP3 Guarto intrusion detection systems
- CS440 intrusion detection systems
- CS4 intrusion detection systems
- CZ12 intrusion detection systems
- MAXSYS PC601 Intrusion (3<sup>rd</sup> party unit)

### Siemens video surveillance units:

- SIMATRIX, SIMATRIX NEO Video crossbars
- SISTORE AX, CX, MX (including NVR\*), 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 (3<sup>rd</sup> party unit)

\*Network video recorder

### Siemens Access control:

- SiPass Access Control System
- CerPass CC30 (connected via SiPass)

### Siemens I/O units:

- MF7033 digital PLC unit
- CF9000 I/O system

### Remote notification units:

- ESPA 4.4.4 Pager System

## Technical data

### Hardware requirements

Pentium 4	2.4 GHz or better
Memory	512 MB or better
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 + Microsoft critical updates	

### Software requirements

MSDE (Microsoft SQL Data Engine)	Mandatory
SQL Xml	Mandatory
.NET Framework	Mandatory
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 client stations	10 (9 + 1 server)
MM8000 FEP stations	4 (3 + 1 server)
Subsystems	Although no fixed limit is actually present, please contact FSP-DMS 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
On-line registrations in historical archive	100,000
Operators	1,000
Operator groups	50
NK822x	100

### OPC Server

MK8000 OPC Server	Optional; Limits to the assorted subsystems may apply
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### Networks supported

Cerloop	Via MK7022
CDI-net	Via GW00/GW01/GW20/GW21
NK8000	Via NK822x
Direct control unit connection	RS-232; LAN

### Subsystems supported

CS11 (EP5) CS11 (EP7F)	<ul style="list-style-type: none"> <li>● Direct RS-232 configuration / ISO1745</li> <li>● Cerloop configuration</li> <li>● NK8000 configuration / Cerban</li> <li>● NK8000 configuration / ISO1745</li> <li>● CDI-net configuration / Cerban</li> <li>● CDI-net configuration / ISO1745</li> </ul>
FC700A	<ul style="list-style-type: none"> <li>● Direct RS-232 configuration / ISO1745</li> <li>● NK8000 configuration / ISO1745</li> <li>● CDI-net configuration / ISO1745</li> </ul>
CS1115 FC330A	<ul style="list-style-type: none"> <li>● Direct RS-232 configuration</li> </ul>
CZ10	
CC60	
CS4	<ul style="list-style-type: none"> <li>● Cerloop configuration</li> </ul>
CS440	<ul style="list-style-type: none"> <li>● CDI-net configuration / Cerban</li> </ul>
CZ12	<ul style="list-style-type: none"> <li>● NK8000 configuration / Cerban</li> </ul>
MF7033	
STT11	
STT20	<ul style="list-style-type: none"> <li>● Cerloop configuration</li> </ul>
STT2410	

SIGMASYS / D100	
SIMATRIX, SIMATRIX NEO	
CF9000	
Autronica BSxxx	
LIST SCU 2000	● NK8000 configuration
CP100	
MAXSYS PC601	
Philips/Burle video switcher (LTC 8x00)	
SI410/SI420 Sintony	● Direct RS-232 configuration / ISO1745 ● NK8000 configuration
CS6 MP3 / MP3+	● NK8000 configuration: max. 4 CS6 per NK8223 (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	
IP cameras (fixed)	● Equipped with: CCIS1337-LP / CFVA-IP / CVVA-IP
ESPA 4.4.4 Pager System	● Direct RS-232 configuration
SiPass integrated 2.3	● LAN configuration
CerPass CC30 controllers	● Connected via SiPass



## 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, at least 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 Cer-Com 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

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**(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.



Siemens Switzerland Ltd  
Building Technologies Group  
International Headquarters  
Fire Safety & Security Products  
Gubelstrasse 22  
CH-6301 Zug  
Tel +41 41 724 24 24  
Fax +41 41 724 35 22  
[www.sbt.siemens.com](http://www.sbt.siemens.com)

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