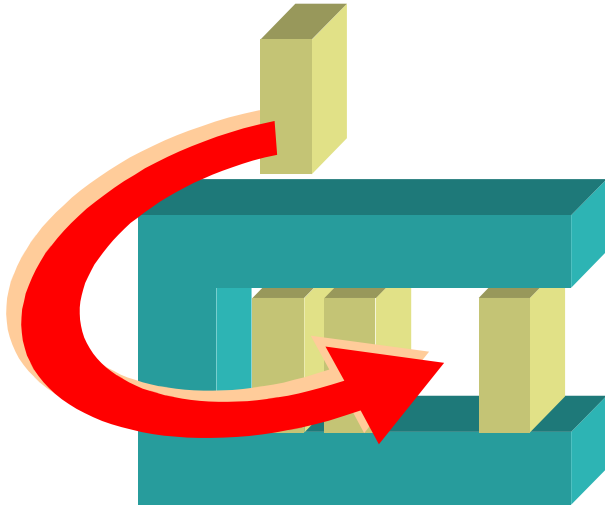


SIEMENS



MM8000 MP3.10

MAXSYS Intrusion Control Unit

Add-on module

Installation, Configuration,
and Operations guide

Building Technologies

Fire safety & Security Products

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About this document

Purpose of this document

This manual is a guide to the installation, configuration, and operations for the MM8000 Management Stations MP3.10 that includes the MAXSYS intrusion control units. It presents the MM8000 MP3.10 'add-on' module for the MAXSYS support.

Individuals performing the operations described in this manual are expected to have prior expertise and training in the field of safety and security, at least a moderate level of familiarity with the Siemens Building Technologies product line, and experience with the installation, configuration, and commissioning of security management systems.

Modification index

Current version	Date	Notes
008751_a_en	05.2005	Corresponds to version MP3.10-02 of the MM8000 Software

Reference documents

This paper is part of the general DMS8000 technical documentation set that includes the documents listed here below.

Product	Document Name	EDMS #	Date	Last update
MM8000 Technical documents				
MM8000	Release Notes MP3.10	008601_a	12.2004	MP3.10
MM8000	Release Notes MP3.10-01	008601_b	03.2005	MP3.10-01
MM8000	Release Notes MP3.10-02	008601_c	06.2005	MP3.10-02
MM8000	Operation	006798_e	12.2004	MP3.10
MM8000	Operation Quick Reference	008082_a	12.2004	MP3.10
MM8000	Installation, Configuration and Commissioning	006799_f	03.2005	MP3.10-01
MM8000	Configuration Quick Reference	008598_a	12.2004	MP3.10
MM8000	Graphical Maps Quick Reference	008599_a	12.2004	MP3.10
MM8000	Localisation Guide	007769_d	03.2005	MP3.10-01
DMS8000 and Composer Technical documents				
WW8000	Composer Technical Manual	003183_i	12.2004	MP3.10
WW8000	Composer Configuration Quick Reference	008081_a	02.2004	MP2.03.01
DMS8000	Connectivity Configuration Guide	007083_f	03.2005	MP3.10-01
DMS8000	Maintenance & Troubleshooting	008080_a	12.2004	MP3.10
NK8000 Technical documents				
NK8000	Release Notes for MP3.10	008602_a	12.2004	MP3.10
NK8000	Installation, Configuration and Commissioning	007798_d	12.2004	MP3.10

The most recently released technical documentation for customers can be found in the Electronic Documentation Management System (EDMS) in the Siemens Intranet at the following address: <http://intranet.sbt.siemens.com/fsp>

- Choose 'Documentation (EDMS)' in the 'Go direct' drop-down.
- Select 'All documents' from the menu at the upper left of the screen to go to the EDMS interface (Electronic Documentation Management System).
- Enter the EDMS number (for example, enter 008601 for the MM8000 Release Notes) in the 'Document no.' field, and click 'Search'.

Note: To see all documents for a product family, use the search tool and enter the product number (for example, MM8000) in the 'Short Name' field.

Operational and safety regulations



Before beginning work on the MM8000 Management Station for the MAXSYS, you must have read and understood the Operational and Safety Regulations included in the following documents:

- 007083 - DMS8000 Connectivity Configuration Guide.
 - 006799 - MM8000 Installation, Configuration and Commissioning.
 - 007798 - NK8000 Installation, Configuration and Commissioning.
-

Liability disclaimer for damage or injuries

Before products are delivered, they are tested to ensure they function correctly when used properly. Siemens disclaims all liability for damage or injuries caused by the incorrect application of the instructions, or the disregard of danger advisories. This disclaimer applies in particular to personal injuries or damage caused by:

- Improper and/or incorrect use.
- Disregard of safety instructions in the documentation or on the product.
- Poor maintenance or a lack of maintenance.

1 Introduction

The MAXSYS is an intrusion security system based on the PC6010 control unit, which can support up to 256 zones (16 on the main board and the rest on PC6108A 8-zone expansion modules) in 32 separate areas.

The user interface is based on the PC6501 panels (max 64), which can guide users through the available options according to their access level (basic, advanced, supervisor, or master).

The PC6010 main board comes with 2 programmable outputs, and you can add up to 208 more using PC6204 (4-relay) and PC6216 (16-transistor) modules.

Access control functions can be supported by the MAXSYS system: up to 32 doors, using the 2-door modules PC6820.

The status of the PC6010 system can be monitored over a dedicated and multi-point “backbone” network and PC6442 and PC6443 interface modules. Communication to an external system can be encrypted.

MAXSYS integrated into MM8000

The MM8000 can support the MAXSYS systems over the NK8000 network devices. Each NK822x serial port can support up to 32 PC6010 units via a PC6442 interface.



MAXSYS access control functions are not supported by the MM8000.

1.1 Version supported

MM8000 MP3.10-02 with MAXSYS extensions can support the MAXSYS Firmware version 2.11.

2 Installation

2.1 Distribution package

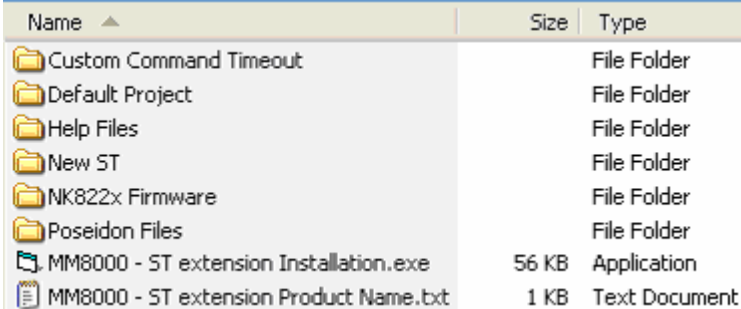
The M8000 MP3.10 software for the MAXSYS support is distributed as an add-on package, to be installed on the stations including the Composer tool (client-only and FEP stations are therefore excluded) after the standard MM8000 MP3.10 Setup.

The package is named: 'MM8000 - Subsystem extension N. 02 (Maxsys V1.0)'.

Installation kit

The installation kit includes (Fig. 1):

- A new Composer default project, used for starting a new configuration.
- The new help files, describing the MAXSYS configuration procedures.
- The new Composer Subsystem Tool (ST) for the MAXSYS models.
- The firmware for the NK822x units, supporting the MAXSYS protocol.
- The 'Poseidon' files, including the definitions of the MAXSYS data structures.
- The Custom Command Timeout, which is possibly required for technical tuning.
- The installation utility: the 'MM8000 – ST extension Installation.exe' program.
- The extension name text file; namely: 'MM8000 – ST extension Product Name'.



Name	Size	Type
Custom Command Timeout		File Folder
Default Project		File Folder
Help Files		File Folder
New ST		File Folder
NK822x Firmware		File Folder
Poseidon Files		File Folder
MM8000 - ST extension Installation.exe	56 KB	Application
MM8000 - ST extension Product Name.txt	1 KB	Text Document

Fig. 1 Installation kit

2.1.1 Installation checklist

ITEMS NEEDED FOR THE INSTALLATION

- The MM8000 MP3.10 Setup kit
- The 'MM8000 MP 3.10 - Fix #MP3.10.02
- 'The 'MM8000 - Subsystem extension N. 02 (Maxsys V1.0)' installation kit
- The MM8000 hardware key (dongle)
- The MM8000 license PAK code (or the REG file that contains it)

INSTALLATION CHECKLIST

- 1. Install the MM8000 hardware key → DMS8000 Connectivity Configuration Guide
- 2. Install the MM8000 MP3.10 Software → MM8000 Installation, Configuration and Commissioning
- 3. Install the NK8000 units (NK822x) → NK8000 Installation, Configuration and Commissioning
- 4. Install the 'MM8000 MP 3.10 - Fix #MP3.10.02'
- 5. On the station(s) including the configuration capability (Composer tool), install the MAXSYS add-on p. 6
- 6. Install the new Subsystem Tool p. 7
- 7. In Composer (User Data node), run the "Project Update" procedure p. 8
- 8. Update the NK8000 firmware p. 9

2.2 Software installation

2.2.1 Requirements

The support for MAXSYS does not add any special requirements to the standard MM8000 MP3.10. Therefore, software and hardware requirements are the same as for the base MM8000 MP3.10 software, as described in the document no. 006799, MM8000 Installation, Configuration and Commissioning, section 4.1.

As far the NK8000 network is concerned, the requirements are described in the document no. 007798, NK8000 Installation, Configuration and Commissioning.

MM8000 MP3.10 must be properly installed before the add-on can be installed. For more information on the MM8000 MP3.10 installation, please see section 4.4 of the mentioned 006799 document.

The MAXSYS add-on package is designed to work with MM8000 MP3.10-02. If you are working with another version, please contact FSP-DMS support to verify its compatibility or the availability of a compatible add-on package.

2.2.2 Software License

An additional license is required to run the MAXSYS module. On top of the base MM8000 MP3.1 license codes, a specific PAK is therefore needed.

Therefore, the required license includes:

- WW8000 Composer (project configuration and download): Composer License or Service key.
- NS8210 driver: NK8000 connections, indicating the number of NK822x units.
This license is required for enabling the network driver and the NK822x units communicating with the MAXSYS control units.
- MM8000 core, no. of subsystems
This license should include the number of MAXSYS control units.
- MM8000 core, no. of devices.
This license should include the number of MAXSYS physical objects (detectors, auxiliary and control outputs)
- MAXSYS add-on license
→ Check detailed sales policy for your country

Other licenses, covering more MM8000 options, may or may not be used and they are not related to the MAXSYS support. A detailed description of the MM8000 license is given in the MM8000 MP3.10 Release Notes, section 2.2.5.

2.2.3 MAXSYS add-on installation

The following are the installation procedures for the MAXSYS add-on module.

1. Copying files

The add-on installation is quite simple. The installation kit includes the 'MM8000 – ST extension Installation.exe' utility (Fig. 2 below). Just run this program and the add-on files will be copied onto the local hard disk in the appropriate folders.

Name ▲	Size	Type
Custom Command Timeout		File Folder
Default Project		File Folder
Help Files		File Folder
New ST		File Folder
NK822x Firmware		File Folder
Poseidon Files		File Folder
MM8000 - ST extension Installation.exe	56 KB	Application
MM8000 - ST extension Product Name.txt	1 KB	Text Document

Fig. 2 Starting the add-on installation

2. Installing the Subsystem Tool

Composer requires that the tools are installed using a specific procedure. Therefore, a small utility is also launched in order to add the MAXSYS Subsystem Tool (ST) in to the Composer tool set.

The utility shows as illustrated in Fig. 3. Click OK to proceed.

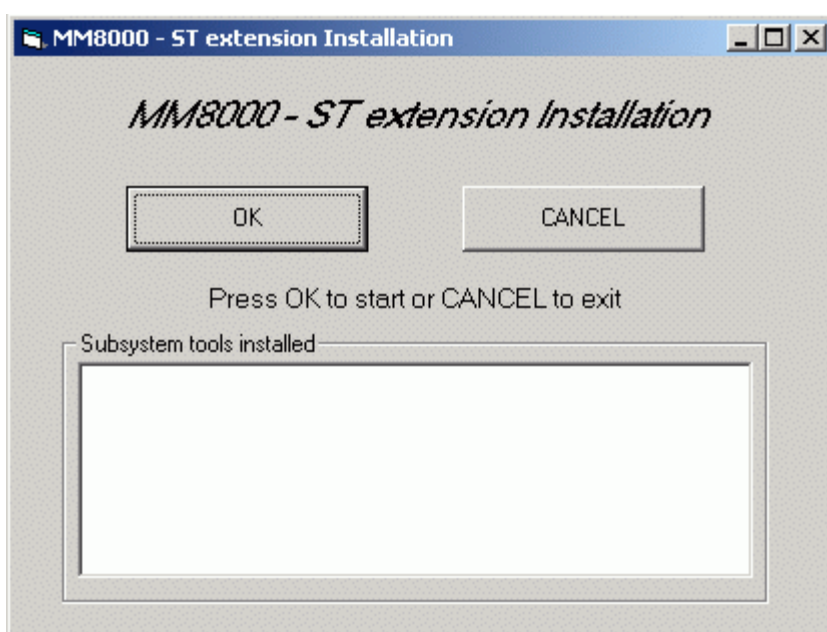


Fig. 3 Installing the MAXSYS Subsystem Tool

In few seconds, the tool is installed in Composer. The name of the new tool appears in the list (Fig. 4). At this point, click Exit to quit.

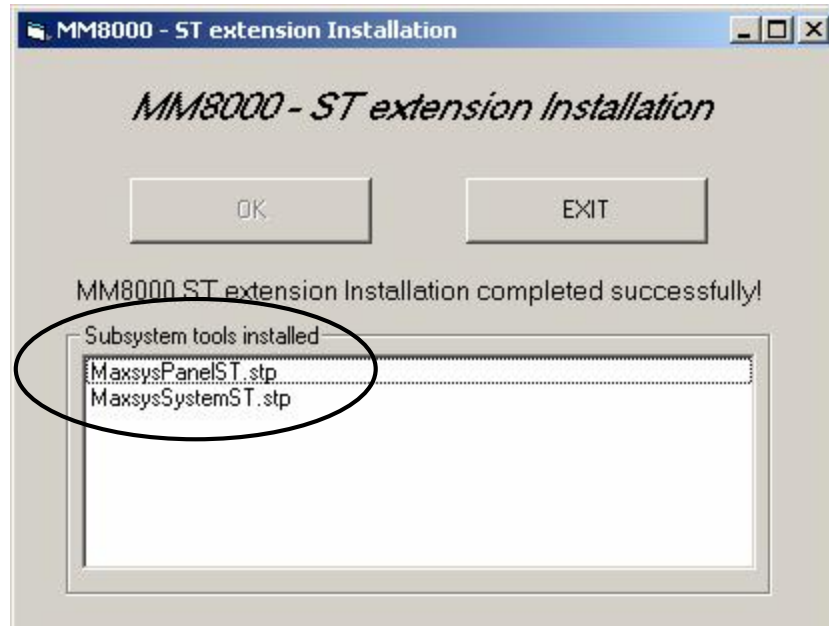


Fig. 4 Closing the tool installation

3. In Composer, on the MAXSYS project, run a “Project Update”.

This is required in order to include the new data structures (XML databases) into the project.

Proceed as follows:

- Start Composer
- Select the node:
Supervision System Settings → MM8000 System → Logical Configuration → User Data (see Fig. 5)
- Click Project Update
- Wait for the procedure to complete

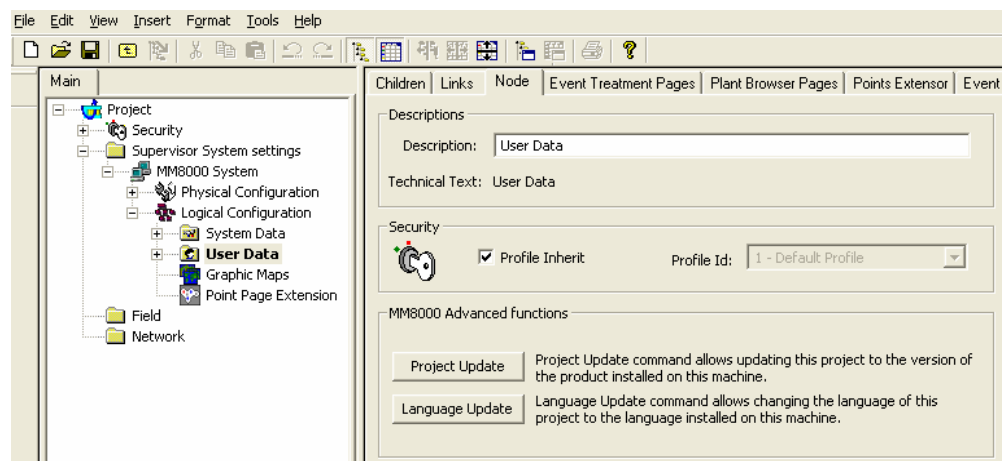


Fig. 5 Running the Project Update

2.3 Communication network

The MAXSYS is connected to the MM8000 system by means of the NK8000 network and namely via the NK8222 or NK8223 units.

In order to communicate with the MAXSYS, the NK822x units should however be equipped with a new firmware that is included in the installation package.

The software installation procedure provides to copy the firmware files (a compressed ZIP archive) in the 'NK822x – Firmware' folder of the MM8000. From there, the files can be downloaded to the NK822x units using standard Composer commands. The required procedure is described here below.

2.3.1 NK822x firmware download

The following are the download procedures for the NK822x firmware supporting the MAXSYS communication protocol.

Note: It is assumed that the NK822x are physically installed, powered on, and communicating over the network. For more information about the NK8000 installation, please see the document no. 007083, DMS8000 Connectivity Configuration Guide, section 4.3. More advanced technical issues are also discussed in the document no. 007798, NK8000 Installation, Configuration and Commissioning. Also, you should have available the Composer project that includes the NK8000 network and all the NK822x units.

1. Verifying the connection with NK822x

The NK822x download requires that the TCP/IP connection between the host PC and the NK822x is working properly. In the Windows Command Prompt window, you can check easily this connection using the "Ping" command:

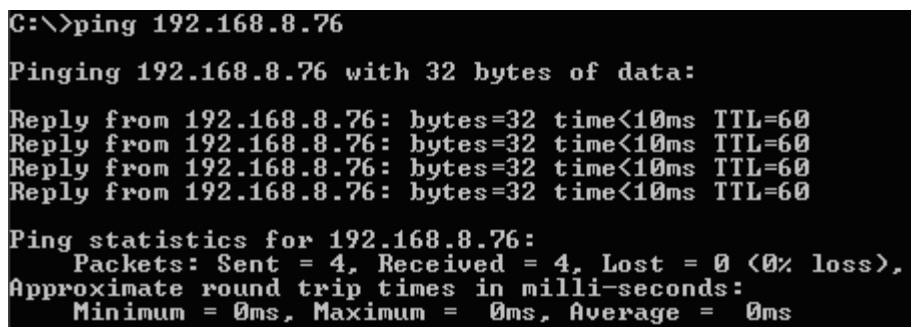
```
ping n.n.n.n
```

where 'n.n.n.n' is the IP address of the NK822x unit, e.g. 168.123.8.76.

If the IP connection is good, the message text looks like the ones in Fig. 6, i.e.:

```
Reply from n.n.n.n: bytes=... time ... TTL=...
```

If the IP connection is not working for any reason, different messages may appear (Request timed out, Destination net unreachable, etc.) In these cases, verify the network settings and cabling and try again.



```
C:\>ping 192.168.8.76

Pinging 192.168.8.76 with 32 bytes of data:

Reply from 192.168.8.76: bytes=32 time<10ms TTL=60
Reply from 192.168.8.76: bytes=32 time<10ms TTL=60
Reply from 192.168.8.76: bytes=32 time<10ms TTL=60
Reply from 192.168.8.76: bytes=32 time<10ms TTL=60

Ping statistics for 192.168.8.76:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Fig. 6 Checking IP connection

2. Start Composer and open the project that includes the MAXSYS units.

3. Expand the 'Channel collection' folder in:

Supervision System Settings → MM8000 System → Physical configuration → Station (or FEP) → Channel collection.

4. Select the 'NS8210 driver' node and then the 'Download' tab (Fig. 7).

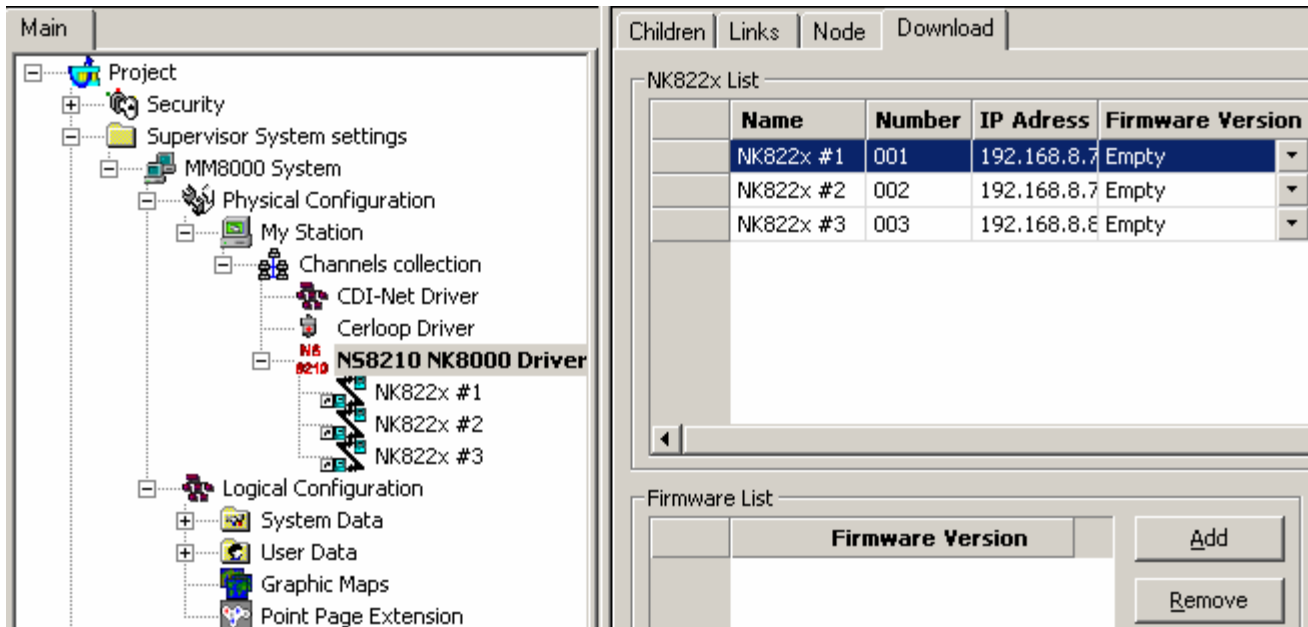


Fig. 7 'Download' tab

5. Select all the branches (NK822x) in the list located in the upper part of the form.

Note: In order to select multiple branches, keep the CTRL key pressed while you make your selections.

See the following Fig. 8.

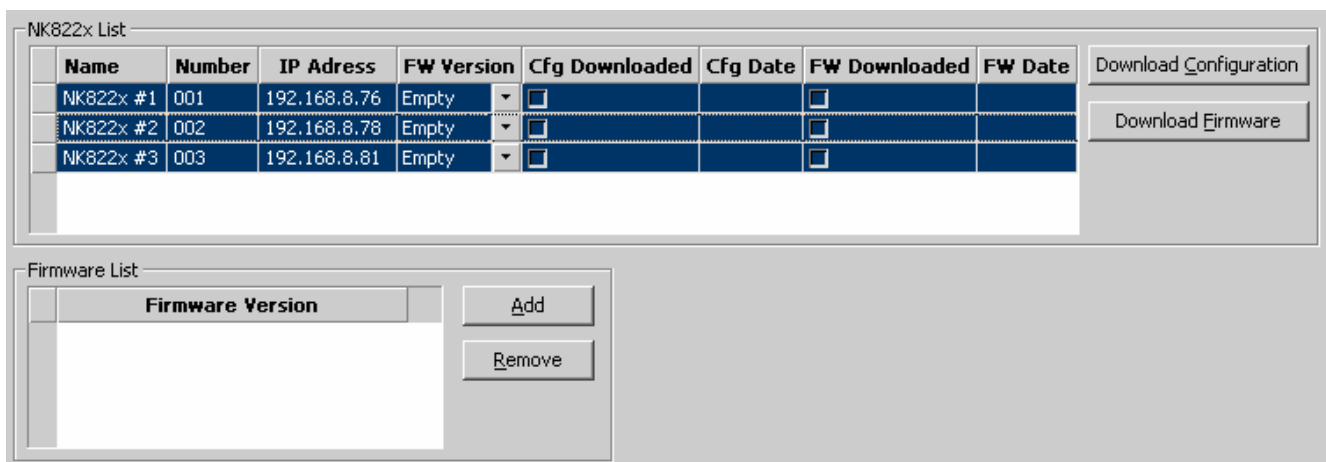


Fig. 8 Selecting the NK822x

6. Add the new firmware version:

- Click 'Add', then browse and locate the new firmware file in:
<MM8000 installation folder>\NK822x – Firmware
- Then, click the file:
Nk822x_3.10-03_110405_02.zip
- And finally click 'Open' (Fig. 9).

→ In a few moments, the new firmware (3.10-03_02) shows in the Firmware List (Fig. 10).

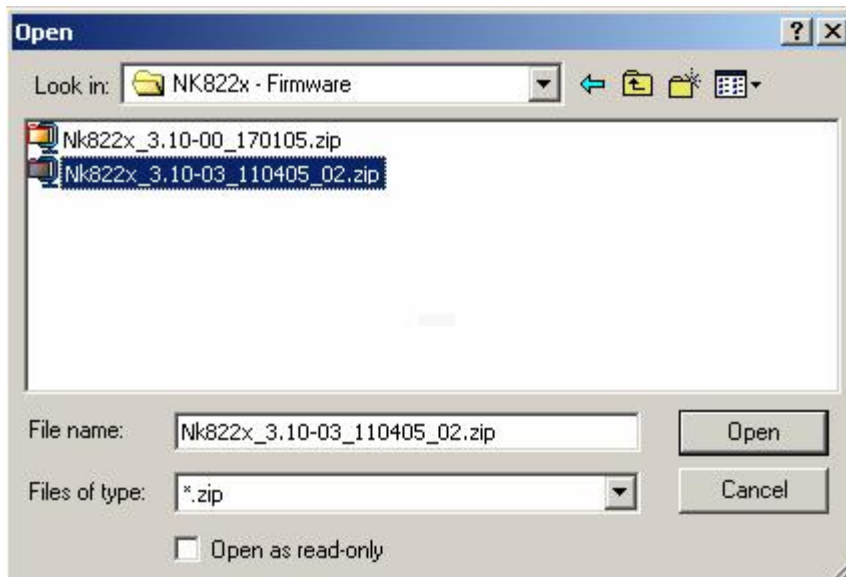


Fig. 9 Opening the new NK822x firmware files

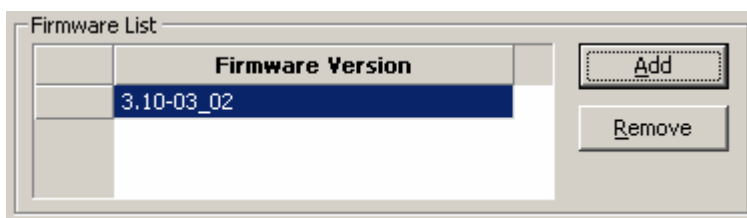


Fig. 10 New NK822x firmware in the Firmware List

7. Select the new firmware version in the Firmware List.
8. Click the button “Download Firmware”.
 - *The download procedure starts. The new firmware is downloaded to the NK822x units via FTP (File Transfer Protocol) services over the network.*
9. Ensure that you have successfully completed all downloads:
Verify that the “FW Downloaded” checkboxes contain ‘X’s.
10. That completes the NK822x firmware download.
Note that the NK822x configuration will also need to be downloaded after having configured the MAXSYS units in Composer (see pag.17).

3 Configuration

3.1 Configuration checklist

Verify that you have satisfied the items needed in the first checklist before proceeding to the configuration checklist that follows.

ITEMS NEEDED FOR CONFIGURATION

- The intrusion system architecture: number of control units (PC6010) and interfaces (PC6442)
- The encryption key for the communication security (=0 if no encryption is required).
- The local address (1 to 32) for each control unit.
Note: the address is automatically assigned by Composer sequentially. Therefore, the units should be inserted following the address sequence, from 1 to 'n'.
- The metafile(s) generated by the Panel Reader tool (CSV file) OR the exact information on the control units internal configuration.
- The exact connection to the NK8000 unit (NK822x).
- Plug-ins needed:
 - Plug-in #354101 (PC6442 interface)
 - Plug-in #354001 (PC6010 control unit)These are both installed during the installation procedure.
- Composer project updated after the add-on installation (see pag.8)

CONFIGURING A MAXSYS

- 1. Add the folder(s) required for identifying the location of the MAXSYS in the project structure tree. p. 13
- 2. Add the MAXSYS main node (PC6442 interface) to the new folder p. 13
- 3. Set the encryption key, if used p. 13
- 4. Add the MAXSYS control unit (Panel Application) p. 14
- 5a. Import the metafile p. 14
-- or --
5b. Configure the objects manually p. 16
- 6. Repeat steps 2 to 4 for all the MAXSYS units of the system
- 7. Link the MAXSYS to the communication network p. 16
- 8. Repeat steps above for all the MAXSYS systems in the project
- 9. Download the configuration p. 17


3.2 Configuration procedure

The following are the configuration procedures for the MAXSYS control unit:

Adding the folder for the MAXSYS system

1. Open the Composer project.
2. Create a folder for the control unit.

Adding the main MAXSYS node (PC6442 interface)

1. Select the new folder.
2. Select the MAXSYS icon  (see Fig. 11):

→ *The new node is added to the project structure.*

By default, the node will be named 'PC6442 Maxsys Interface #1'. You can customise the text by clicking once on the name, typing a new name, and pressing 'Enter'.

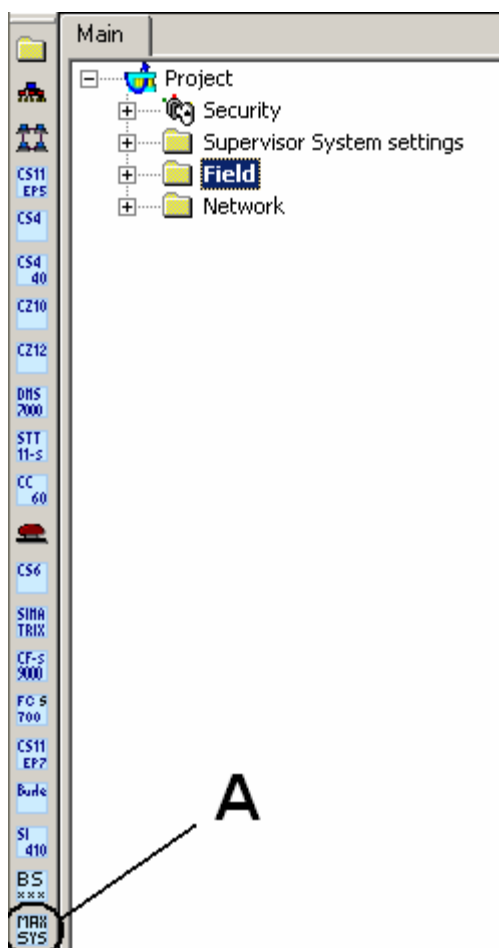


Fig. 11 Adding a MAXSYS subsystem (A)

Setting the encryption key

1. Select the PC6442 Maxsys Interface node.
2. Set the 'Private key' field.
 - This is an 8-character field that should match the hexadecimal value set in the PC6442 unit (Fig. 12).

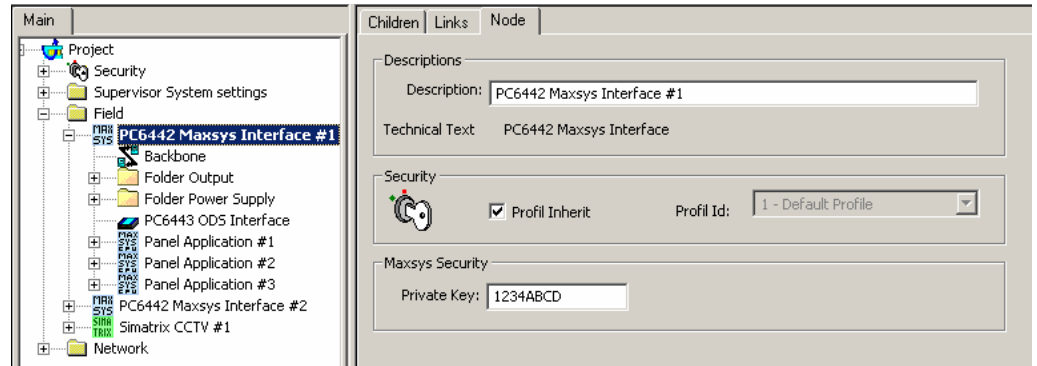



Fig. 12 Setting the MAXSYS encryption key

Adding the MAXSYS control unit nodes (Panel Application)

1. Select the PC6442 Maxsys Interface node.
2. Select the MAXSYS CPU icon  (see Fig. 13):
 → *The new node is added to the project structure.*

By default, the node will be named 'Panel Application #1'. You can customise the text by clicking once on the name, typing a new name, and pressing 'Enter'.

Note: The local address of the unit is automatically set to the next available number from 1 to 32. The units should be inserted following the address sequence, from 1 to 'n'.

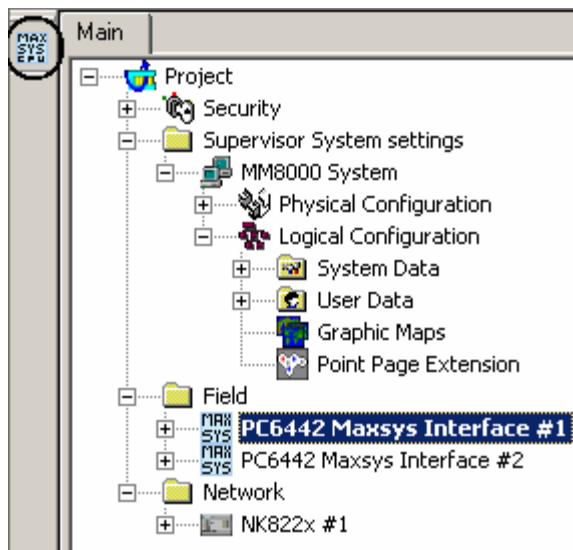


Fig. 13 Adding a MAXSYS subsystem (A)

Importing the Panel Reader configuration file

1. Select the Panel Application (control unit) node.
2. Select Tools→Import in the Composer menu (Fig. 14).
 → *After a confirmation request, the software presents a browsing window to search for the files to import.*
3. Using standard Windows file browser, do the following:
 - Look for Panel Reader export files, selecting the extension CSV in the browsing window.
 - In the file system, locate the CSV file.
 - Select the file and click 'Open' (Fig. 15).
 → *In a few moments, the unit structure is imported.*

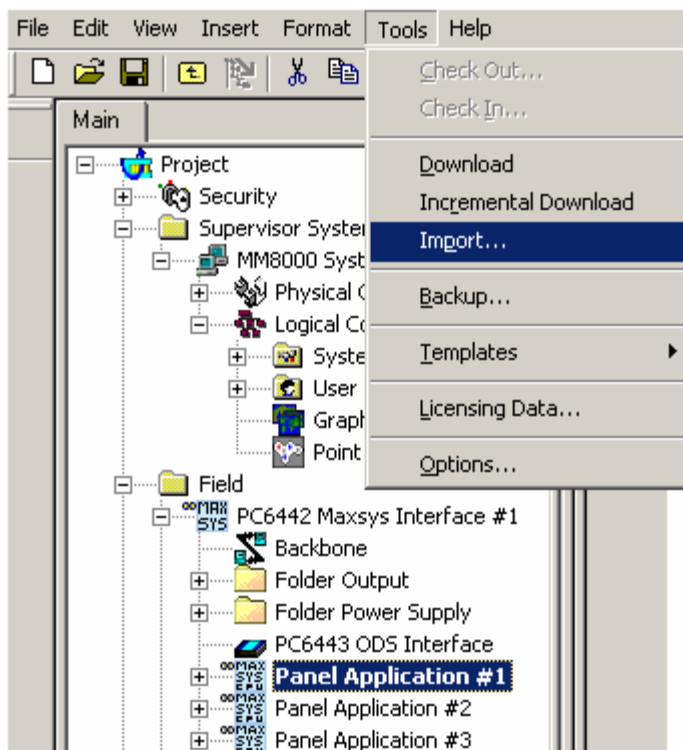


Fig. 14 Starting the import procedure



The CSV file is unique for the entire MAXSYS system, i.e. it includes all the panels (CPU nodes) for a given interface node. Nevertheless, the import procedure must be executed at panel level and the same CSV file selected for the set of associated panels.

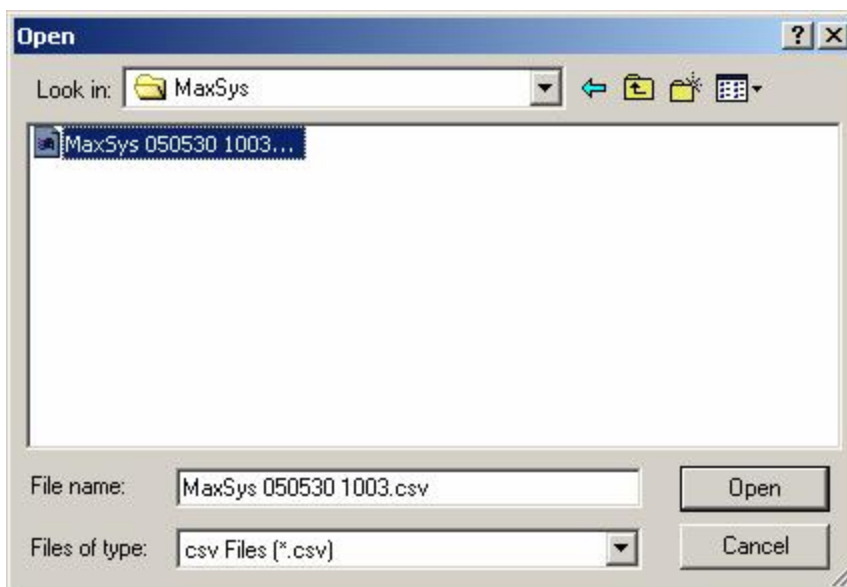


Fig. 15 Selecting the metafile



CSV files can be re-imported after a configuration change. Note the behaviour of the import procedure:

- New objects in CSV (not configured in Composer) are added to the configuration.
- Old objects in CSV (already configured in Composer) are updated.
- Removed objects in CSV (configured in Composer) are removed.

Manual configuration

If you are not able to import the configuration, you can configure the MAXSYS system by hand to reflect the actual control unit configurations.

The following list shows where different objects are located in the in the Composer tree:

- PC6442 interface
 - Physical tree (see below)
 - Logical tree (see below)
 - PC link (local service PC)
 - Primary lines
 - Infranet
 - Users (a single object collects the status messages of all local users)
- Physical tree:
 - PC6010 Main Board
 - Zones
 - Outputs: Bell, Auxiliary (AUX), Programmable (PGM)
 - Backbone (external bus)
 - Telephone line module (TLM)
 - Power Supply (Main units and Auxiliary unit)
 - Combus (internal bus)
 - PC6108A zone expander
 - PC6204 4-output module
 - PC6216 16-output module
 - PC6501 LCD keypad unit
 - PC6400 serial interface units
 - PC6820 2-door access control module
- Logical tree:
 - Areas
 - Linked zones
 - Groups
 - Linked Alarm and Seismic zones



Warning: manual configuration in Composer changes may be overwritten by subsequent import if the imported file does not include them too.

Linking the MAXSYS interface to the Communication network



1. Open NK822x sub-folders

Expand the NK8000 network folders until you reach the node that represents the NK882x COM port that is physically connected to the MAXSYS.

2. Select the MAXSYS main node.

3. Drag and drop the MAXSYS node to the network COM port (see Fig. 16).

Note: Composer helps you recognise the valid link by displaying a shortcut

'Link' icon  instead of the circle 'No-link' icon .

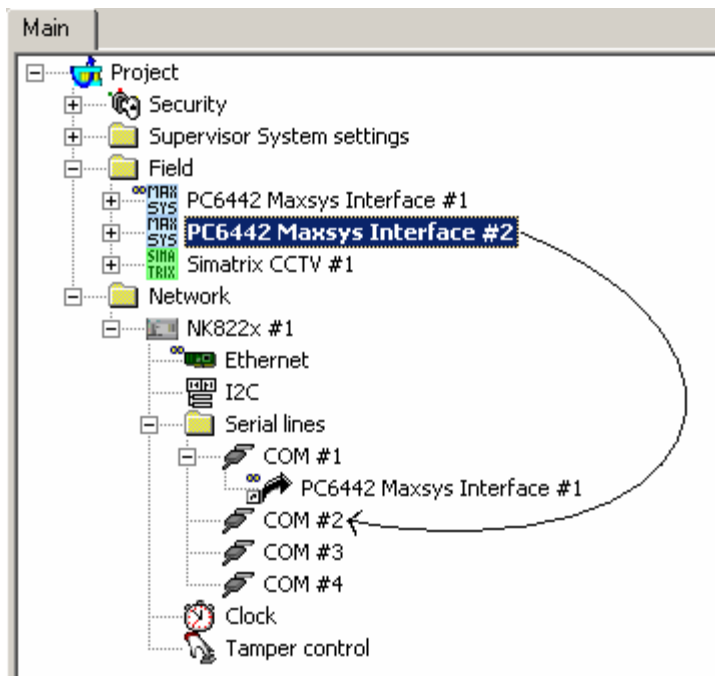


Fig. 16 Link MAXSYS to the NK8000 network

→ When the link is established, a new node appears on the structure tree, and its properties can be seen on the 'Link' tab of both the connected nodes.

Downloading the MM8000 configuration

Before operating with the new MM8000 configuration, you need to download it. In Composer, the download command is available in the Tools menu. The preparation to the download is discussed in the document no. 006799, MM8000 Installation, Configuration and Commissioning, section 5.16.

Downloading the NK822x configuration

After any modifications on the MAXSYS systems, a new configuration download is required for the NK822x devices.



Warning: the NK822x units handle the MAXSYS messages interpretation for MM8000. 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.: after having imported an updated metafile including new objects). 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 an NK822x download after any change in the configuration.

The download procedure can be started in two ways:

1. In the 'Download' tab of the 'NS8210 driver' node:
 - select → Supervision System Settings → MM8000 System → Physical configuration → Station (or FEP) → Channel collection → NK8210 driver → see Fig. 7 above
 - in the list that shows up, select the NK822x units

Note: In order to select multiple branches, keep the CTRL key pressed while you make your selections
 - click the button "Download Configuration"

Configuration

- ensure that you have successfully completed all downloads
 - Verify that the “Cfg Downloaded” checkboxes contain ‘X’s see Fig. 8 above
- 2. In the ‘NS822x’ node (select all units one after the other):
 - Right click the node
 - In the menu, click “Node commands” → “Download file CNF”

4 Operations

MM8000 operations are described in the document no. 6798, MM8000 Operation Manual. Specifically, the possible events related to MAXSYS control units are listed in the table below.

Notes:

- When an alarm occurs, both Area and Zone objects generate an event message. Also, the MAXSYS control unit requires that the Area gets acknowledged before resetting the alarm on the Zone.
It order to simplify the operations, the MM8000 provides an automatic treatment on the Area object that does not necessitate any user action. This is conforming to the MAXSYS operations at panel level, which are also limited to the zone treatment.
- In some cases the control panel sends only the “tamper event” of the board broken but not the tamper event of the “main board combus”. (The control panel should send both the tamper events (combus + board)). In these conditions, if the tamper is ended, only a manual “status request command” from MM8000 will reset the board tamper event, since that event isn’t resettable by protocol.
- In some cases the control panel sends only the “fault event” of the board fault but not the tamper event of the “main board combus”. (The control panel should send both fault events (combus + board)). In these conditions, if the fault is terminated, only a manual “status request command” from MM8000 will reset the board fault event, since that event isn’t resettable by protocol.
- In some cases, after a reconnection of the NK8223, the control panel sends to MM8000 also some alarm detector events previously occurred and already resetted (events no more physically active and no displayed on the control panel LCD). Moreover, if during the NK disconnection, some new events occur, at the reconnection, the control panel send the above-mentioned events with the same format of the new events.

Node	Alarms	Faults	Other events
PC6442 interface node	Tamper	Fault: - internal fault - RS232 fault	
Backbone		Fault: - internal fault - connection fault	Advisory
Power supply		Fault: - AC fault - battery fault	
PC6443 Interface	Tamper	Fault: - internal fault - RS232 fault	
Panel (Control Unit)		Fault: - connection fault	Anomaly: - restart - default Advisory: - test
Primary line		Fault: - line fault	
Infranet		Fault: : - line fault	
PC6010 Main board		Fault: - internal fault	
Zone	Severe alarm Tamper: - open/short line	Fault: - internal fault	Exclusion: - disabled - disconnected Advisory: - bypassed
Bell output		Fault: - internal fault	Advisory: - active - test
Output, TLM			Advisory: - active
Backbone		Fault: - connection fault	
Power supply		Fault: - AC fault - battery fault	
Combus	Tamper	Fault: - power supply flt - connection fault	
PC6108A zone expander	Tamper	Fault: - power supply flt - connection fault	
PC6501 LCD keypad	Tamper	Fault: - power supply flt - connection fault	Advisory: - authorised access
PC6400 serial interface	Tamper	Fault: - power supply flt - connection fault	
PC6204 output module	Tamper	Fault: - power supply flt - connection fault	Advisory: - propag.active
PC6216 output module	Tamper	Fault: - power supply flt - connection fault	
PC6820 Access control module	Tamper	Fault: - internal fault	Advisory
Area		Fault: - fire fault - automatic off	Exclusion: - off duty - partially off Anomaly: - not ready Advisory: - activation
User	Sev.alarm: - acc.ctrl alarm - duress alarm		Advisory: - logged in

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