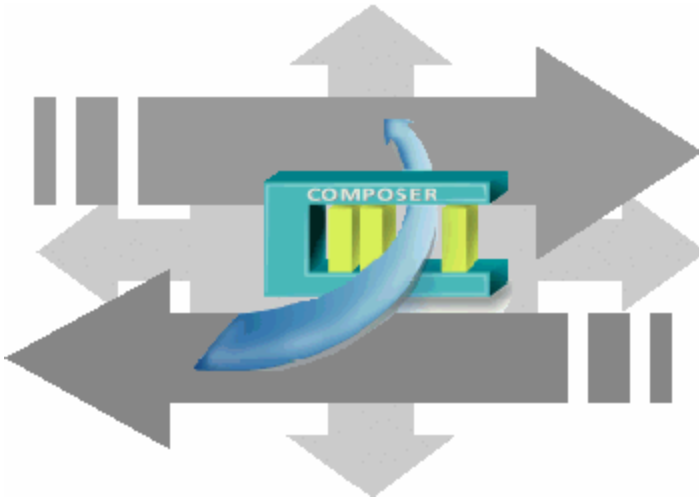


# SIEMENS



**DMS8000 MP4.10**

**Access Control Connectivity Guide**

**- SiPass**

**Building Technologies**

Fire Safety & Security Product

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# About this document

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## Purpose of this document

This manual is a guide to the configuration procedures for the integration of SiPass Access Control system in the DMS8000 systems: MM8000 management station and MK8000 OPC server. It is specifically for those individuals responsible for the commissioning of the management station, such as technical project managers, engineers, and commissioning personnel.

This guide is part of the general DMS8000 documentation set which includes the Composer Technical Manual, the other DMS8000 Connectivity Guides (Network/Fire/Intrusion, Video, and OPC), and the Installation, Configuration and Commissioning manual (ICC) for each specific product.

## Target audience

Individuals performing the operations described in this manual are expected to have prior expertise and training in the field of 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.

## Related training

Siemens Fire & Security Products offers a comprehensive training program. You can find information about training courses in the BT FS Intranet.

## Operational and safety regulations



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Before beginning work on the DMS8000 systems, you must have read and understood the related documents, in particular the Safety Regulations included in the Installation, Configuration, and Commissioning manual (ICC) for each specific product.

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## 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.

We have taken every possible care in preparing this manual. The contents of this manual are revised regularly and brought up to latest standards. Nevertheless, we are unable to provide any guarantee with regard to content, entirety or quality of the details contained in this manual.


We assume no liability for problems resulting from the use of this manual. The information contained in this document may be changed without prior notice. We reserve the right to publicize any such changes by issuing updated versions or new editions.

## Reference documents

The most recently released documentation for customers can be found in the STEP Documentation Repository System released at SBT FS for end-users via the STEP Web Client interface at the following address:

[https://intranet.sbt.siemens.com/dbcom/en/db\\_porta/client.asp](https://intranet.sbt.siemens.com/dbcom/en/db_porta/client.asp)

The following describes one way to search and find a document:

1. Click on the "STEP WEB Client" image: 
2. Choose "04 Fire -3F" from the "Product Segment" box and select "Activate filter".
3. Select "All" in the Documents section of the Quick Search page and select "Advanced Search".
4. Enter the document number in the "Brochure No." field (e.g. A6V10062415 or 007121) and press "Enter".

**Hint:** For a specific version, specify the Market Package as \*MPn.nn\* in the "Classification No." field (e.g. \*MP4.10\*).

**Note:** STEP provides no results when the number of found objects is equal to or greater than 200.

→ To learn about other ways to locate a document, see DMS8000 Quick Reference Guidelines for Search and Finding DMS Documents in STEP (A6V10064704).

Product and Document Name		Document no.	Date	Last upd.
<b>Sales documents</b>				
<b>MM8000</b>				
023	Product Datasheet	A6V10062415_a	06.2007	MP4.10
053	System Description	A6V10062417_a	06.2007	MP4.10
039	Sales Presentation	A6V10062423_a	06.2007	MP4.10
074	Sales Guide	A6V10062427_a	06.2007	MP4.10
074	Tender Specifications	A6V10062419_a	06.2007	MP4.10
074	Offer Template	A6V10062429_a	06.2007	MP4.10
<b>Technical documents</b>				
<b>MM8000</b>				
073	Release Notes MP4.10	A6V10062455_a	06.2007	MP4.10
073	Release Notes MP3.20-03	A6V10075048_a	07.2007	MP3.20-03
073	Release Notes MP3.20-02	A6V10067812_a	05.2007	MP3.20-02
029	Operation	A6V10062409_a	06.2007	MP4.10
022	Operation Quick Reference	A6V10067779_a	06.2007	MP4.10
048	Installation, Configuration and Commissioning (ICC)	A6V10062413_a	06.2007	MP4.10
022	Configuration Quick Reference	A6V10075052_a	06.2007	MP4.10
019	Localisation - Engineering guide	A6V10062459_a	06.2007	MP4.10
<b>DMS8000 and Composer</b>				
023	Composer Datasheet	A6V10062403_a	06.2007	MP4.10
054	Composer Technical Manual	A6V10062401_a	06.2007	MP4.10

022	Composer Config. Quick Reference	A6V10067783_a	06.2007	MP4.10
048	Network, Fire, and Intrusion Connectivity Guide	A6V10062425_a	06.2007	MP4.10
048	Access Control Connectivity	A6V10062451_a	06.2007	MP4.10
048	Video Connectivity	A6V10062457_a	06.2007	MP4.10
048	OPC Connectivity	A6V10065253_a	06.2007	MP4.10
048	Graphical Map Configuration	A6V10062441_a	06.2007	MP4.10
022	Graphical Map Configuration Quick Reference	A6V10069550_a	06.2007	MP4.10
016	Migration from DMS7000	A6V10062443_a	06.2007	MP4.10

### Standard symbols

<i>Italics</i>	Result
” “	Quotation, reproduced identically
→	Cross reference
(...)	Brackets contain supplementary text, suggestions etc.

### Modification index

Version	Date	Notes
A6V10062451_a_en	06.2007	Corresponds with DMS8000 MP4.10
009424_b_en	06.2006	Corresponds with DMS8000 MP3.20

### Operational and safety regulations



Before beginning work on the MM8000 Management Station, you must have read and understood the Operational and Safety Regulations included in the document no. A6V10062413 'MM8000 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.
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We assume no liability for problems resulting from the use of this manual. The information contained in this document may be changed without prior notice. We reserve the right to publicize any such changes by issuing updated versions or new editions.

# Definitions of terms

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<b>Control unit</b>	The physical panel (for example, CS11 fire subsystems) that is connected to a group of detectors. The control unit receives messages from and sends commands to the detectors. When a control panel is connected to a DMS, it behaves as a translator between the detectors and the DMS. It receives commands from the DMS, and communicates them to the detectors, and it receives messages from the detectors and communicates them to the DMS.
<b>Data Point</b>	The software representation of any item whose state can be changed. Changes of state can occur on subsystems, groups of subsystems, sections, zones, and detectors.
<b>DMS</b>	<p>Danger Management System. The term DMS is commonly referenced in two contexts.</p> <p>The first, 'DMS8000', refers to the Siemens family of Danger Management System products, which includes the MM8000, MK8000, MT8000 management stations and terminals, as well as the connectivity and configuration solutions, CDI-Net, NK8000 (formerly CDI-WAN) and Composer.</p> <p>The second, 'DMS', refers to the management stations / terminals in the DMS8000 family. Those are the MK8000, MM8000 and MT8000. When using this manual, reference is made to the 'DMS'. This means the specific product that you are currently configuring.</p>
<b>Internal user</b>	<p>In order to exchange data messages between tasks, DMS8000 systems require a Windows user account that is used as an identifier to get the necessary permissions from the Windows operating system. By default, this user is called "DMS8000_PROC". This default setting can be changed if, during the software setup, you select the "Restricted Security option and fill out the fields for the account name and password.</p> <p>It is very important not to change the data associated to this user in the Windows user list. Modifying the information of the internal user will prevent the MM8000 or MK8000 tasks from working properly and require a complete re-installation.</p>
<b>Metafile</b>	A configuration file that is generated by the configuration tool of a corresponding control unit. It contains all the details of the local configuration (all the objects handled by a particular control unit). The information in this file can be read by and integrated into the DMS8000 internal database (import procedures), ensuring accuracy, and saving configuration time.
<b>Operator</b>	The person responsible for treating events using the management station. The operator is usually either a member of the security force, or the fire brigade.
<b>PAK</b>	Product activation key: a 16-character code, associated to a hardware key (dongle) that enables DMS8000 software to run and to perform.
<b>Plant</b>	The physical location being protected by the security detectors and controlled with the DMS. Synonyms are: facility, site, building, area, etc.
<b>Plug-In</b>	A subsystem tool used during the configuration process in Composer. The Plug-ins are typically installed along with the MM8000/MK8000 product and are represented as icons in the Composer toolbar.
<b>Subsystem</b>	A control unit configured in the Composer environment.

# 1 Introduction

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This is a guide to the software configuration procedures for the integration of SiPass Access Control systems in the MM8000 Management Station and MK8000 OPC server.

For a complete guide to the configuration process, this manual should be used with the DMS8000 Network, Fire and Intrusion Guide, and with the Installation, Configuration and Commissioning manual (ICC) of the specific product.

## SiPass

SiPass is an access control system that monitors and controls access to a site. It is a complete system that packages all access control needs into a single application.

DMS8000 products and SiPass can coexist in the same installation; SiPass and MM8000/MK8000 servers can run on the same machine or on different networked PCs. Client functions may also be combined on the same PC.

The exact SiPass software version to use in the integrated systems is indicated in the latest MM8000 or MK8000 Release Notes.

## Software License

A specific license id required for enabling the SiPass integration functions in MM8000.

→ Please refer to the local sales support for more details about MM8000 licenses.

## 1.1 What has been changed in MP4.10 configuration tools

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Here is the list of modifications included in MP4.10 for new functions and software improvements.

Section, Page	Modifications
	Safety Regulations moved to ICC manuals
	DLCS moved to a separated Add-on document (A6V10067792)
2.5.1, p.16	Multiple connections to SiPass systems are now allowed (max 4). Removed limitation to one system.



## 2 Configuring SiPass Access Control System

### 2.1 SiPass integration

---

The DMS8000 systems MM8000 and MK8000 can support the integration of SiPass access control system in order to provide for a comprehensive security solution.

Currently, the integrated solution with MM8000 management station can:

- Substitute the existing MM8000 functionalities for the SiPass functions related to door event management, thus harmonising the entire event treatment of the safety and security devices.
- Handle the AC users and access permissions configuration using the SiPass software integrated into the MM8000 user interface.
- Allow for basic door statuses and control commands from the MM8000 text pages and graphic maps.
- Store the security-relevant AC transactions (e.g. access denied) in the MM8000 history database.
- Support the connectivity to ACC controllers over a LAN network. Note that CerPass CC30 units are not supported yet.

Instead, the integrated solution with MK8000 OPC server can:

- Allow for door statuses and control commands to be mapped in OPC items.

### 2.2 SiPass Driver

---

The Access Control integration requires a basic communication infrastructure between MM8000/MK8000 and SiPass software; this is actually a software driver.

In Composer, the SiPass Driver should be added to the MM8000/MK8000 main station in order to enable the SiPass configuration functions.

The Fig 1 illustrates how to add the SiPass driver to the MM8000 configuration:

1. In the MM8000 physical configuration, select the main station name:  
'Supervisor System Settings → MM8000 System → Physical configuration → <Station name>'.

In the MK8000 project, the selection is quite similar:

'MK8000 System → MK8000 → Physical configuration → <Station name>'.

2. Click the button A to add the driver (see Fig 1).  
→ *A new node is added. No further configuration is required by the driver.*

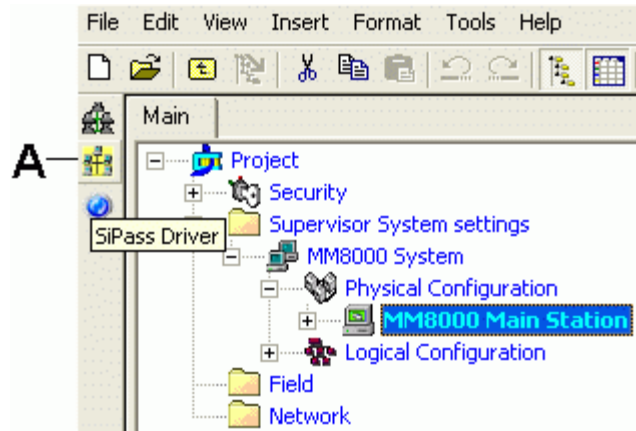


Fig 1 Adding the SiPass Driver (A)

**Note:** The Composer plug-in #252401 is required.

## 2.3 Configuration checklist of SiPass

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

### ITEMS NEEDED FOR CONFIGURATION

- The SiPass system should be configured and reachable, either locally (on the same PC as MM8000/MK8000) or over the network, for importing the SiPass database into the Composer structure.  
Alternatively, the SiPass export file (.XML) should be created, using the utility available in MM8000/MK8000 (SiPass Export Tool), and then imported off-line into Composer.
- Plug-ins needed:
  - Plug-in #252501, which must be installed before you can configure your system.

## 2.4 Configuration procedure

The following are the configuration procedures for SiPass.



### Adding the SiPass Driver

1. Open the Composer project.
2. If not already done, add the SiPass Driver (→ see 2.2 at pag.7).

### Adding the folder for the Access Control

- Optionally, add one or more folders.

### Adding the SiPass subsystem

1. Select the destination folder.
2. In the left-hand bar, select the Access Control folder  and then the SiPass icon .

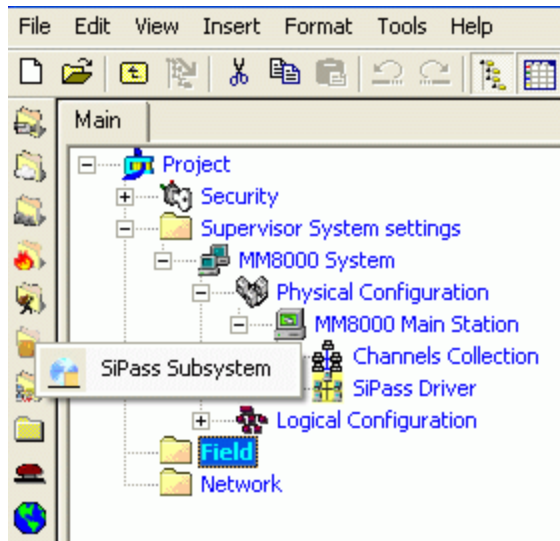


Fig 2 Adding the SiPass subsystem

### Linking the SiPass subsystem to the SiPass Driver

You have now to link the subsystem to the Driver.

1. Select the SiPass subsystem node.
2. Drag and drop it on the SiPass Driver (Fig 3).

*A new link node appears.*

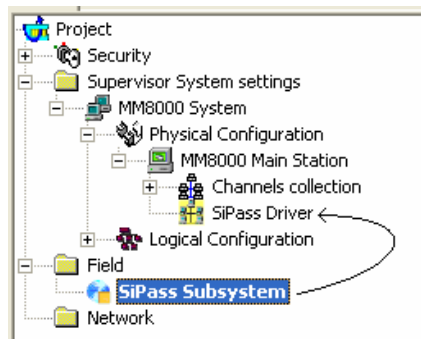


Fig 3 Linking the SiPass subsystem

### Setting the SiPass server address

In this step, you have to specify the network name or address of the SiPass server.

1. Select the SiPass Subsystem node.
2. Select the Node tab.
  - Note:** Here you can customise the node name in the Description field.
3. In the Computer Name field, enter the IP address of the SiPass server PC.

There are two possible cases:

- The SiPass server is the same as for MM8000/MK8000. In this case, the default IP address 127.0.0.1 is valid in any case.
- The SiPass server is another PC on the network. If so, enter the IP address or the PC name.

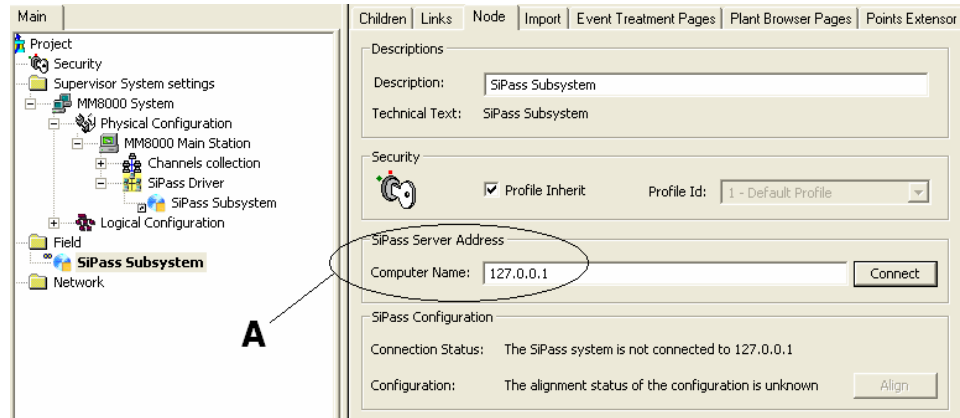


Fig 4 Setting the SiPass Server IP address

**A** Enter the PC name or IP address of the SiPass server. Note that the value 127.0.0.1 is always valid if the SiPass and MM8000/MK8000 servers are installed on the same PC.

### Setting up the SiPass configuration structure

The SiPass configuration can be imported into Composer in order to allow a fast and seamless alignment process between the two systems.

There are two ways to import the configuration:

- A.** On-line mode: the SiPass server is accessible over the network and the configuration data can be acquired directly.
- B.** Off-line mode: the SiPass server is not yet accessible over the network and the configuration data can be acquired by means of an export file.

### Importing the SiPass configuration: on-line mode

In the first case, once the SiPass server name is properly set, you can proceed as follows:

1. Click the button Connect.

→ *A connection with the SiPass server is established.*

In a few seconds, the Connection Status will indicate the successful connection (Fig 5).

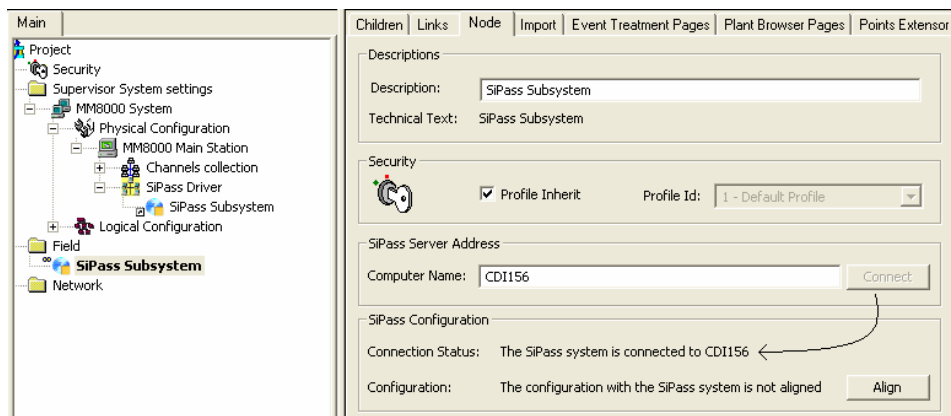


Fig 5 Connecting to SiPass server for on-line configuration

If the connection fails, an error message appears (Fig 6). In this case, check that:

- The network connection is working (e.g. use the Ping command).
- On the server machine, the SiPass software is running properly.



Fig 6 Error in connecting to SiPass server

2. Click the button Align.

→ *The SiPass configuration data is transferred over the network to Composer.*

In a few seconds, the configuration status message will show “system is aligned” and the SiPass structure will become available in the Composer tree (Fig 7).

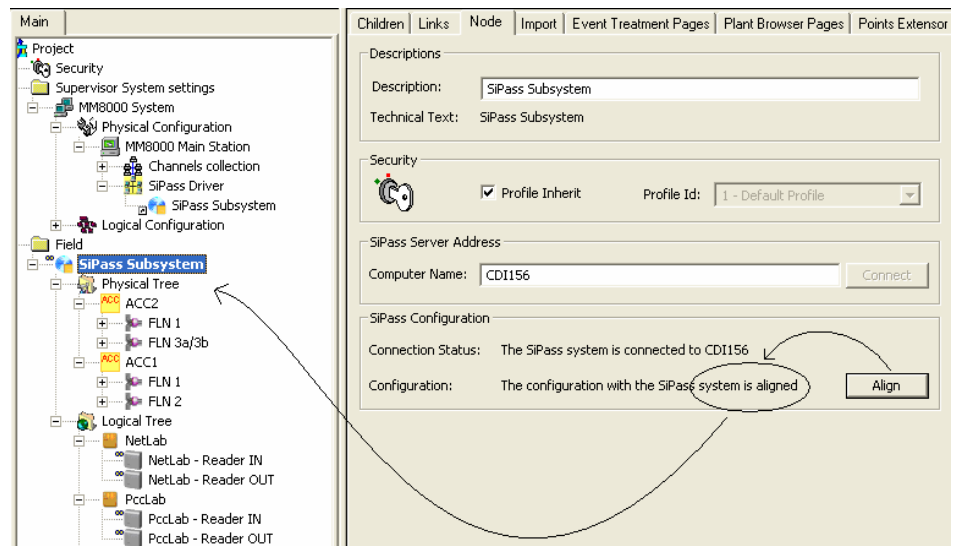


Fig 7 Transferring SiPass configuration

3. While the connection with SiPass stays active, any modification in the SiPass configuration is detected by Composer. If the configuration status shows “system not aligned” again, it means that a new import is necessary: just press the button Align as described above. The modified objects will be imported without affecting the remaining part of the structure.

**Importing the SiPass configuration: off-line mode**

If the SiPass server cannot be directly connected to the PC running Composer, an off-line mode is available. On the SiPass server, you need to run the utility program “SiPass Export Tool”, available on the MM8000/MK8000 CD, and create an export file (there is no need to install the entire MM8000 or MK8000 on the SiPass server).

The SiPass Export Tool can create an XML file containing the SiPass configuration, which can then be imported into Composer. The Fig 8 shows the simple utility interface: you just need to indicate the SiPass IP address or name (the default value 127.0.0.1 is valid if running locally on the server) and the export file name, then click Create file to proceed.

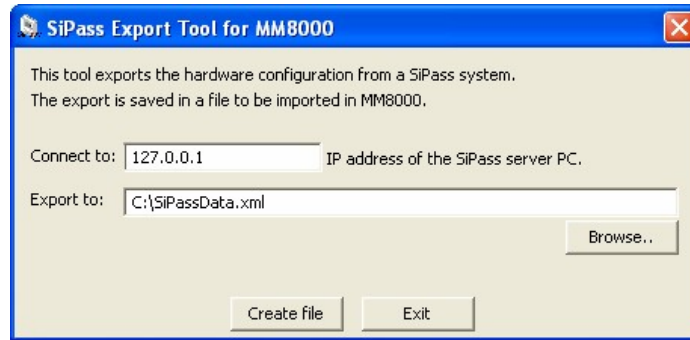


Fig 8 Exporting SiPass configuration

Then, the resulting XML file can be imported into Composer with the following procedure:

1. Select the SiPass Subsystem node.
2. Select Tools→Import or right-click the SiPass node and select Import (Fig 9).

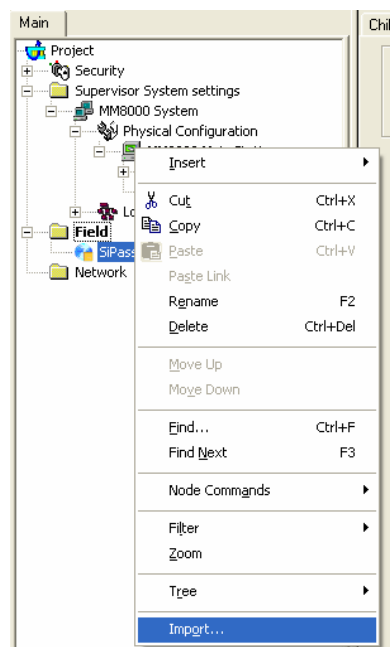


Fig 9 Start SiPass off-line import

- ➔ *After a confirmation request, the software presents a browsing window to search for the file to import (a file with extension XML is expected).*
3. Using standard Windows controls, do the following:
    - Locate the file
    - Select it and click 'Open' (Fig 10)

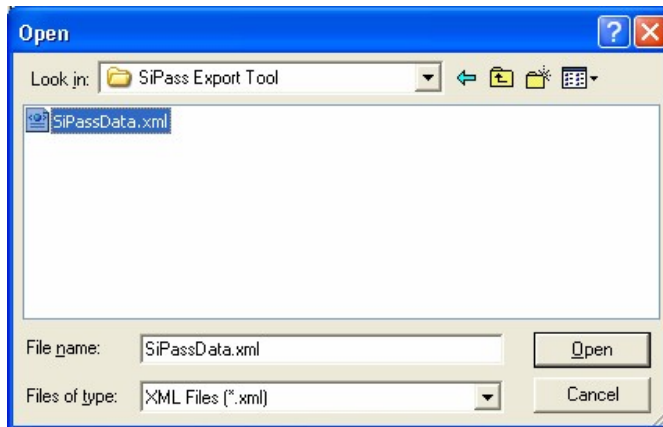


Fig 10 Selecting the SiPass XML file

→ In a few moments, the SiPass structure is imported, and the node is represented in the Composer tree.



Selecting the 'Import' tab results in a page report being displayed. This page contains the detailed logs of the latest import procedure, including all the added (or removed) objects.

### Customising the SiPass configuration point (MM8000 only)

Once the SiPass structure is imported, it is ready to be downloaded. However, in MM8000, customisations are possible as for the other points. Namely:

- In the Point Extensor tab of each individual point, customise the description and icon (Fig 11)

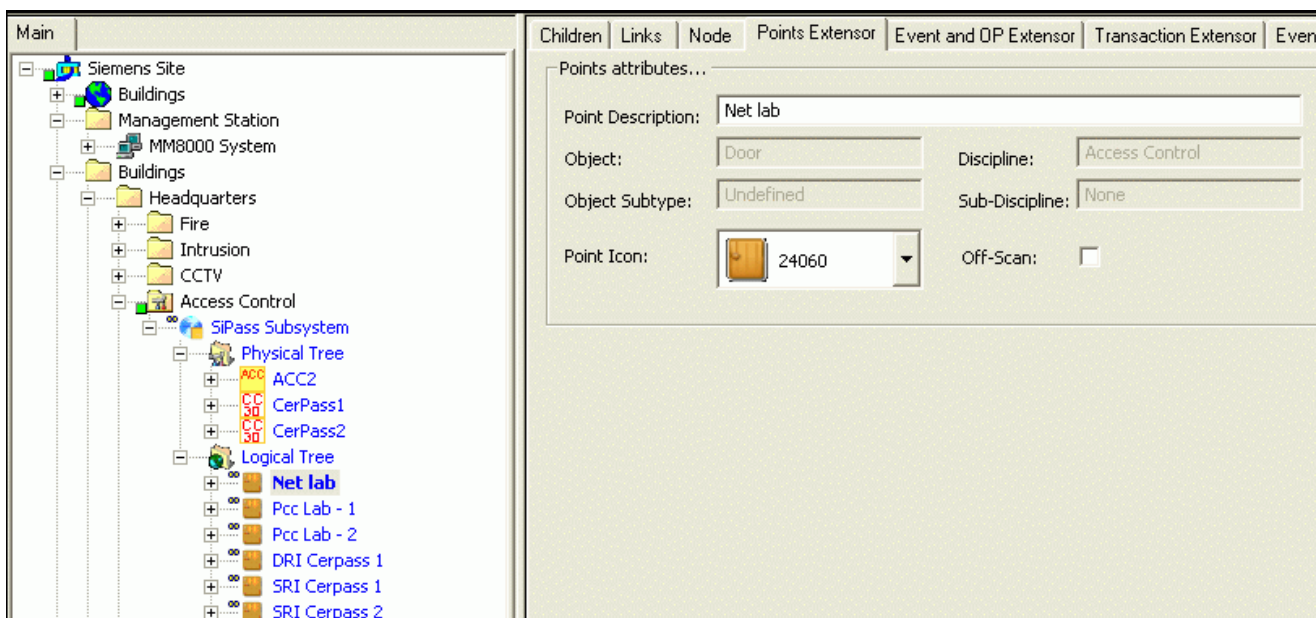


Fig 11 Customising individual SiPass points

- In the Event and OP Extensor tab of each individual point, customise the options of an event (e.g.: modifying the event settings for the properties as in Fig 14)

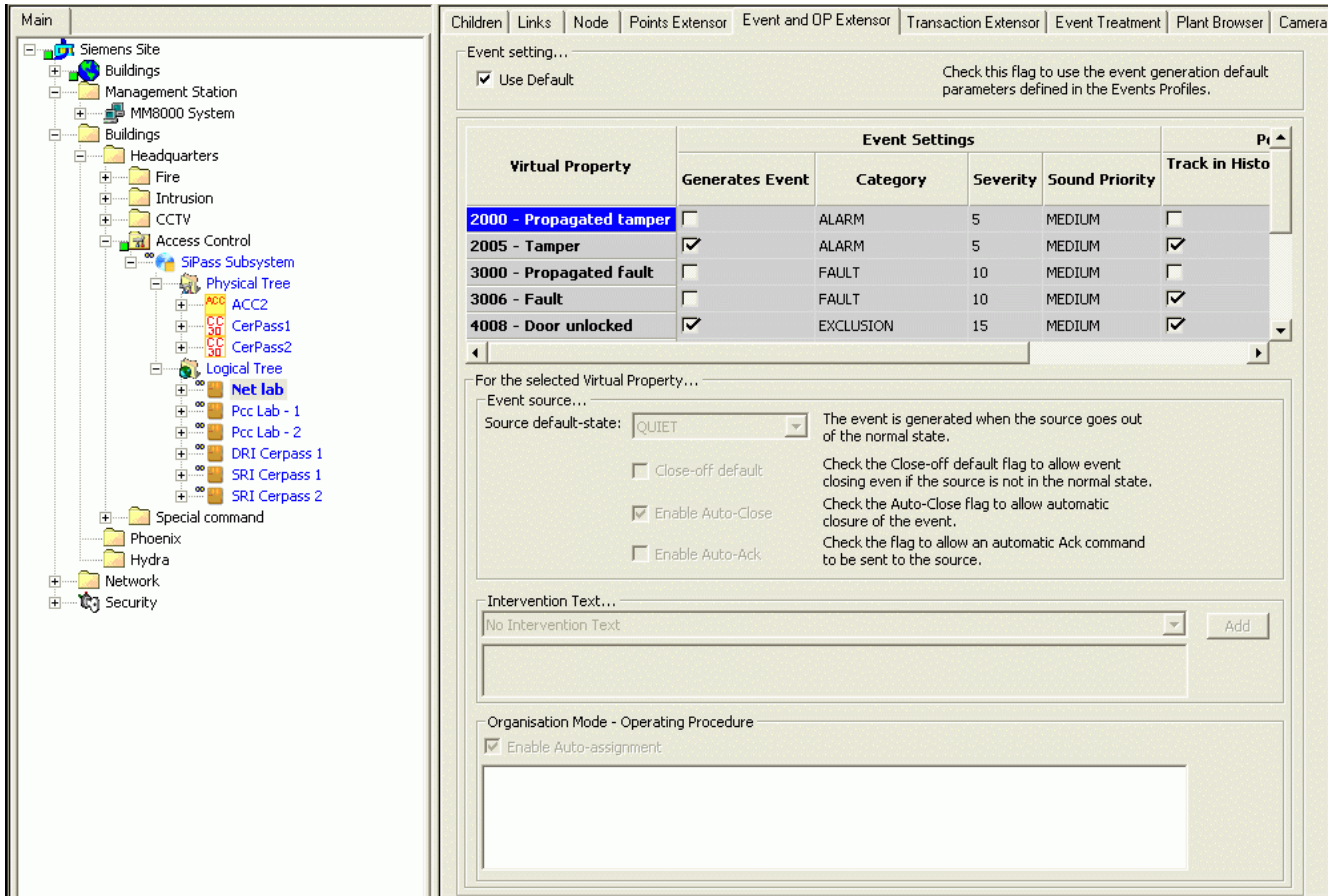


Fig 12 Customising individual SiPass points event setting

- In the Transaction Extensor tab of each individual point and transaction, customise the log options (e.g.: enabling/disabling properties as in Fig 13)

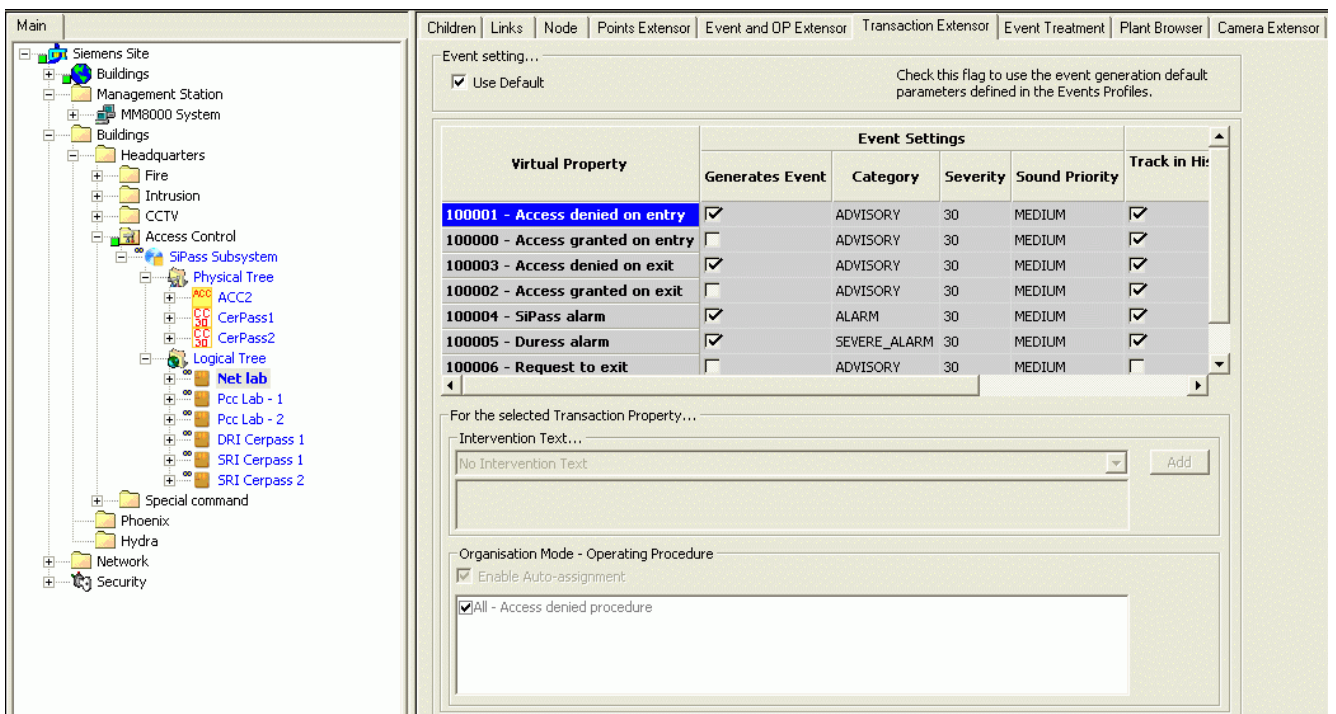


Fig 13 Customising individual SiPass log options



- In the Style tab of 'MM8000 system - Logical configuration - User Data - Event and Points - Style', customise the options of a class of points (e.g.: modifying the event settings for the properties of Door points as in Fig 14)

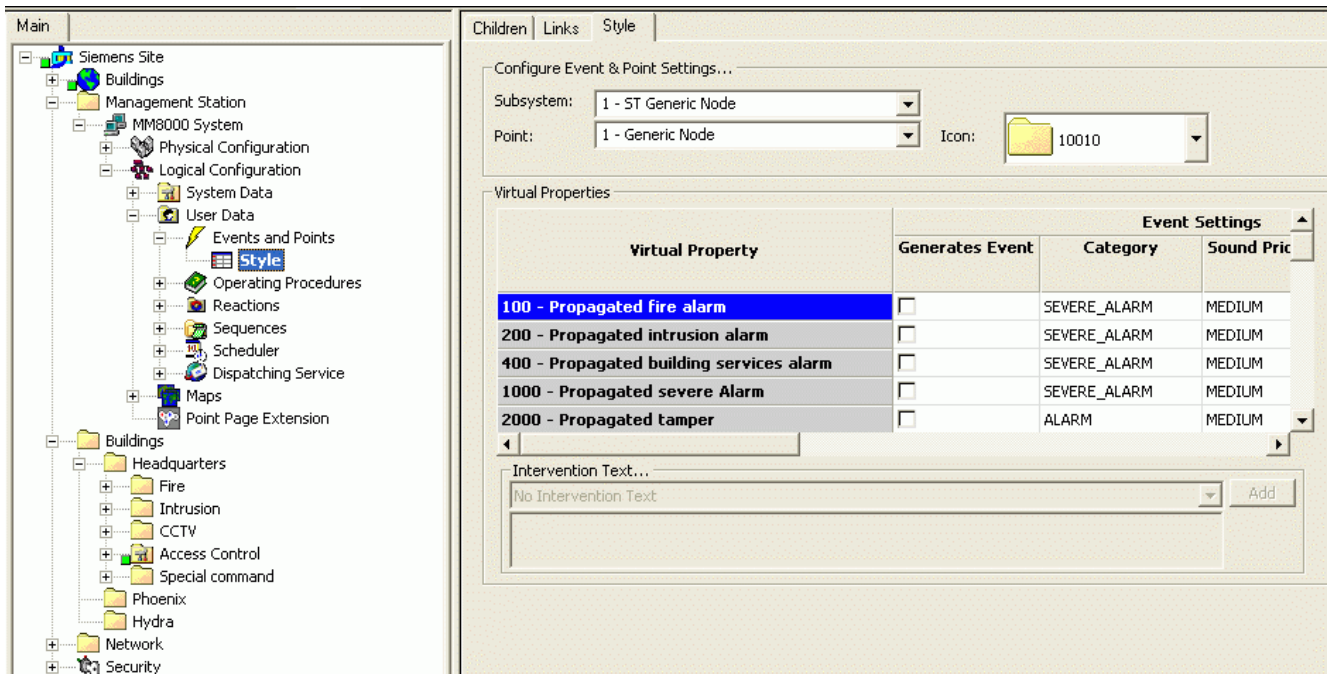


Fig 14 Customising event settings of SiPass Doors

## 2.5 Further SiPass configuration notes

### 2.5.1 Tips and hints

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- **SiPass configuration (MM8000 only).** In order to work with MM8000, the SiPass configuration must include the following:
  - Users authorised on both MM8000 and SiPass have to be configured in both environments with balanced permissions (MM8000 security profiles and SiPass Operator Group functions).
  - In SiPass, the common Operator(s) must be enabled to Automatic Logon as Windows users. In the Operator form, click the “Use the Windows logon ...” option and then select the correspondent MM8000 Domain and User.
- **SiPass license.** In order to work with MM8000 or MK8000, SiPass requires a software license. Please refer to the SiPass documentation..

#### Known issues and limitations

- **SQL Server.** In the integrated system on the same server PC, the SQL Server (MSDE) has to be installed by SiPass, which must therefore be installed first. If you have installed MM8000/MK8000 before SiPass, do the following:
  - Uninstall MM8000 or MK8000 and reboot
  - Uninstall MSDE and reboot
  - Delete the MSDE folder, typically C:\Program Files\Microsoft SQL Server
  - Install SiPass
  - Re-install MM8000 or MK8000 (refer to the ICC manual).
- **Reader name, FLN name and structure.** This information cannot be acquired from SiPass; this prevents MM8000 and MK8000 from representing the entire physical structure of the devices.
- The **SiPass functions which are also available in MM8000** - e.g. event notification (message forwarding in SiPass), reactions and sequences (event tasks in SiPass) - should be clearly assigned to either of the two systems, according to specific requirements, thus preventing any functional overlap.

### 2.5.2 SiPass alarm classes

---

In the integrated system, the use of SiPass **Alarm Classes** requires a special attention. In fact, MM8000/MK8000 can receive and then present the SiPass events only if:

- ‘Alarm Class Type’ is Input (no Outputs, Access or any other type)
- ‘Alarm Handling’ is set to “Require Acknowledging”
- ‘Alarm Options’ do not include the “Restorable Alarm”
- The definition includes all the possible input states of the object (e.g.: ‘Door forced’ and ‘Door held’, etc.)

In general, whenever possible, **we recommend not configuring any Alarm Classes in SiPass.** When necessary, specific needs cases can be handled as follows:

- For Input Alarm events, use SiPass Input activation status, assigning a category, e.g. Alarm, in the “Event and OP Extensor” tab of the Composer point.
- In other cases, you can use controller event tasks to activate an assigned input and then, in turn, use this input to generate a message to MM8000/MK8000.

This approach allows getting the current Input state properly displayed in MM8000 (or processed by MK8000) and the event being closed only when the corresponding Input is in quiet state. Also, the same event is used for subsequent triggers, i.e. if the input is re-activated while the event is still open. The event handling in MM8000 is therefore fully standard.

The table below presents the possible scenarios and the results for the system operator. Refer to this table for any further needs of Alarm Classes when discussing the issue with SiPass specialists.

	<b>Effect in MM8000/MK8000</b>	<b>Effect in SiPass</b>
No Alarm Classes defined	Event generation and transactions (within the documented limitations) as configured in Composer by default.  Door alarms received and displayed as Severe Alarm.	No alarm pop-ups.  Registrations in audit trail.
Alarm Class of any point type configured as: <b>'No Acknowledge required'</b>	No additional event.	No alarm pop-up.  Registrations in audit trail.
Input Alarm Class configured as: <b>'Acknowledge required'</b> <b>'Not Restorable'</b>	Event generation; <b>point status is not visible.</b> Event closing always possible regardless of the point status.  Subsequent events from this point are displayed as new events.  <b>Input activation Advisory never receives and displays the Inactive point state.</b>	No alarm pop-up of this input.  Registrations in audit trail.
Input Alarm Class configured as: <b>'Acknowledge required'</b> <b>'Restorable'</b>	Event generation; <b>point status is not visible.</b> Event closing always possible regardless of the point status.  <b>Re-activated events (triggered by the Restorable "Once actioned ..." option) are no more received.</b>  Input activation Advisory receives and displays the Inactive point state.	No alarm pop-up of this input initial event.  <b>Re-activated pop-ups are displayed if the input remains active.</b>  Registrations in audit trail.
Alarm Class of any other type but Input configured as: <b>'Acknowledge required'</b> <b>'Restorable'</b>	None	<b>Alarm pop-up not removable → "freezing" SiPass client.</b>
Alarm Class of any other type but Input configured as: <b>'Acknowledge required'</b> <b>'Not Restorable'</b>	None	Alarm pop-up  Registrations in audit trail.

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