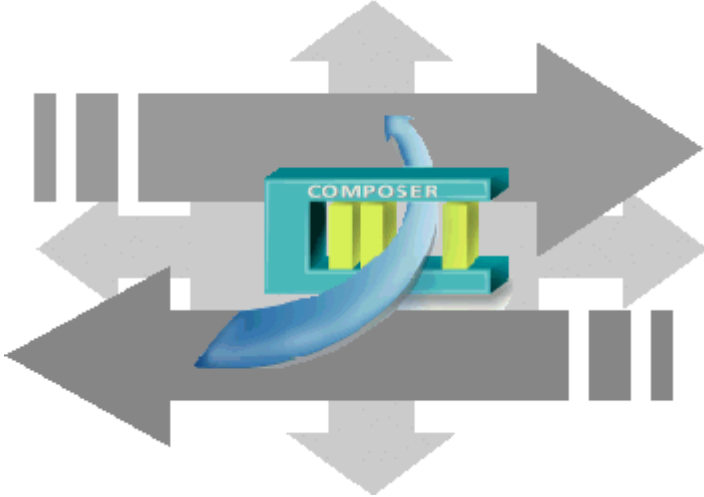


SIEMENS



DMS8000 MP4.60

**SiPass Access Control
Connectivity Guide**

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About this document

Purpose

This manual is intended as 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.

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.

Scope

This document applies to **DMS8000 MP4.60**.

Target audience

This documentation is intended for the following users:

- Project Managers
- Project Engineers
- Commissioning Personnel

It is assumed that individuals performing the operations described in this manual 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.

Documentation resource information

The *DMS8000 Documentation Resource Information and Glossary Guide* assembles important information regarding documentation resources. This document contains the following:

- Comprehensive definitions of the target audiences for Siemens FS DMS documents
- Training program information including the Siemens intranet link
- A complete list of all available DMS8000 documents
- Instructions for how to obtain a document via the Siemens intranet using the Siemens Asset Portal
- A map of relevant documents for each target audience group
- Customer Support links & resources
- A glossary containing definitions of all terms and acronyms used in DMS8000 documentation

To access the *DMS8000 Documentation Resource Information and Glossary Guide* (document no. A6V10089056), go to the link and follow the document search instructions below:

<http://assetportal.bt.siemens.com/portal/index.html>

1. In the Search column on the left, set:
 - Segment: **04 Fire -3F**

- Document Type: **All**
- Image Type: **All**
- Advanced search criterias: Select **Brochure No.** and enter the document number to search for (*A6V10089056*). Alternatively, select **Title** and enter the product name (*DMS8000*).

2. Click **Search** to start.

3. In the resulting area on the right, click on **Contents** link to show the list of search results.

For more information such as Siemens news and announcements, visit the STEP Web portal at:

<https://workspace.sbt.siemens.com/content/00001123/default.aspx>

Operational and safety regulations



Before groups of persons begin work on the system, they must have read and understood the Safety Regulations [→ 7] section in this manual.

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 checked the contents of this manual for agreement with the hardware and software described. Since deviations cannot be precluded entirely, we cannot guarantee full agreement. However, the data in this manual are reviewed regularly and any necessary corrections are included in subsequent editions. Suggestions for improvement are welcome.





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Documentation Conventions

The following table lists conventions to help you use this document in a quick and efficient manner.

Convention	Examples
Numbered Lists (1, 2, 3...) indicate a procedure with sequential steps.	<ol style="list-style-type: none"> 1. Turn OFF power to the field panel. 2. Disconnect the power cord. 3. Open the cabinet.
One-step procedures are indicated by a bullet	<ul style="list-style-type: none"> ● Expand the Event List.

point.	
Conditions that you must complete or must be met before beginning a procedure are designated with a ▷. Results, after completing a step or at the end of the entire procedure, are designated with a ⇨.	▷ The report you want to print is open. 1. Click the Print icon  . ⇨ The Print dialog box appears. 2. Select the printer and click Print . ⇨ The print confirmation appears.
Bold font in a procedure indicates something you should select or type.	Type F for Field panels. Click OK to save changes and close the dialog box.
Menu paths are indicated in bold .	Select File > Text, Copy > Group , which means from the File menu, then select Text, Copy and finally Group .
Error and system messages are displayed in Courier New font.	The message <i>Definition successfully renamed</i> displays in the status bar.
<i>Italics</i> are used to emphasize a term.	The Open Processor continuously executes a user-defined set of instructions called the <i>control program</i> .
	This symbol signifies a Note. Notes provide additional information or helpful hints.
 Caution	This is a Caution message and indicates that minor or moderate injury or property damage may occur if a procedure is not followed.
 Warning	This is a Warning message and indicates that a serious injury or a severe equipment and property damage may occur if a procedure is not followed.
Cross references to other information in printed material are indicated with an arrow and the page number, enclosed in brackets: [→92]	For more information on creating flowcharts, see Flowcharts [→92].

Modification index

Note: For versions more than four years old, please visit the Siemens Asset Portal.

Version	Date	Notes
A6V10062451_a_en	06.2013	DMS8000 MP4.60.
A6V10062451_a_en	06.2012	DMS8000 MP4.50.
A6V10062451_a_en	06.2011	DMS8000 MP4.40.
A6V10062451_a_en	06.2010	DMS8000 MP4.30.

1 Safety regulations

This section describes the danger levels and the relevant safety regulations applicable to the use of the products described in this manual. Please read the following work instructions as well as the preceding section *About this document* thoroughly before beginning any work.

1.1 Country-specific standards

Siemens products are developed and produced in compliance with the relevant international and European safety standards. Should additional country-specific, and/or local safety standards or regulations concerning project planning, installation, and/or operation of the product(s) apply, then these standards and/or regulations must also be taken into account, in addition to the safety regulations mentioned in the product documentation.

1.2 Assembly and installation

The NK8000 units and NE8000 cabinets should always be installed in a clean and stable environment; see the specific requirements given in the Technical Data section of the specific NK823x datasheets.

In particular, keep units and cabinets away from the following:

- High levels of dust
- High temperature and humidity
- Locations where it might become wet
- Vibration and impact

Also, abide by the safety regulations of the connected devices.

1.3 Commissioning and testing

- Activate security-, fire- and third party systems or devices *only* in the presence of the person responsible.
- Abide by the safety regulations of the connected sub-systems when working on management stations. This especially applies when switching-off system components.
- Inform people before the testing of alarm devices; take the possibility of panic reactions into account.
- Inform the alarm and fault receiving stations connected to the system before carrying out any tests.

1.4 Disposal and recycling

The NK8000 units include electrical and electronic components and must not be disposed of as domestic waste. **Current local legislation must be observed.**

These devices have been manufactured as much as possible from materials that can be recycled or disposed of in a manner that is not environmentally damaging. However, they contain parts (batteries) that require disposal in a controlled waste stream according to local environmental standards and/or regulations.

1.5 Modifications to system design and products



Modifications to a system or to individual products may cause faults or malfunctioning.

Please request written approval from Siemens Building Technologies, FS-DMS, and the relevant authorities concerning intended system modifications and system extensions.

2 Introduction

SiPass Access Control System

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.

- Detailed compatibility notes about SiPass software version(s) are available 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.

2.1 What's new

Here is the list of modifications for new functions and software improvements.

Section	Modifications
n/a	In this version, although a license is required for the general SiPass integration, Composer can provide the SiPass database alignment even without a specific Composer license.
n/a	Along with SiPass version 2.40 and 2.50, the new 2.60 is also supported, with the exclusion of ACC G2 and Granta Controllers. Check the DMS8000 product Release Notes for latest compatibility information.
n/a	Support for Door, Reader, and Input/Output text import (available for SiPass V2.50 SP3 and V2.60)
Configuration procedure [→ 11] Customising the SiPass configuration point (MM8000 only)	New images reflecting new point customization options in MP4.50 (refer to MM8000 ICC, doc.no. A6V10062413)

3 Configuring SiPass

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.

The integrated solution with **MK8000** OPC server can:

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

3.1 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.

To add the SiPass driver to the MM8000 configuration do the following:

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 **SiPass Driver** icon .

⇒ A new node is added. No further configuration is required by the driver.

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

3.2 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 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:
 - #252501



Note: Plug-ins are installed during the software setup procedure. You can check that the Plug-ins are actually available using the **Composer Plug-in Installer** in the DMS8000 start menu.

Configuration overview

1. Add the SiPass driver.
2. Add the folder for the Access Control.
3. Add the SiPass node.
4. Link the SiPass subsystem to the SiPass Driver.
5. Set the SiPass server address.
6. Set up the SiPass configuration structure.
7. Import the SiPass configuration (on-line mode or off-line mode).
8. Customise the SiPass configuration point (MM8000 only)

3.3 Configuration procedure

The following are the configuration procedures for SiPass.

Adding the SiPass Driver

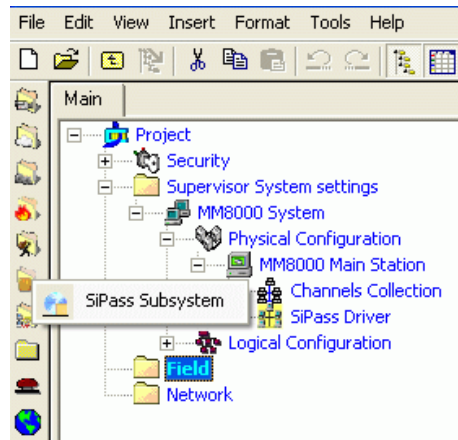
1. Open the Composer project.
2. If not already done, add the SiPass Driver [→ 10].

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 Subsystem** icon .



Adding the SiPass subsystem

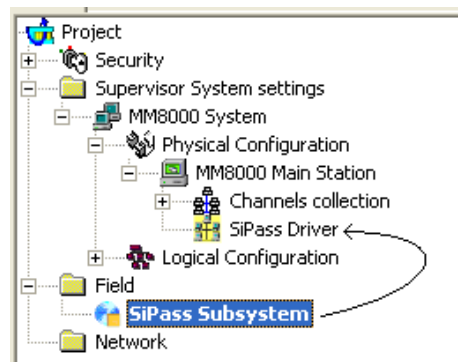


Note: You can customise the default name of the new node typing in a new name in the **Description** field of the **Node** tab.

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**.
- ⇒ A new link node appears.



Linking the SiPass subsystem

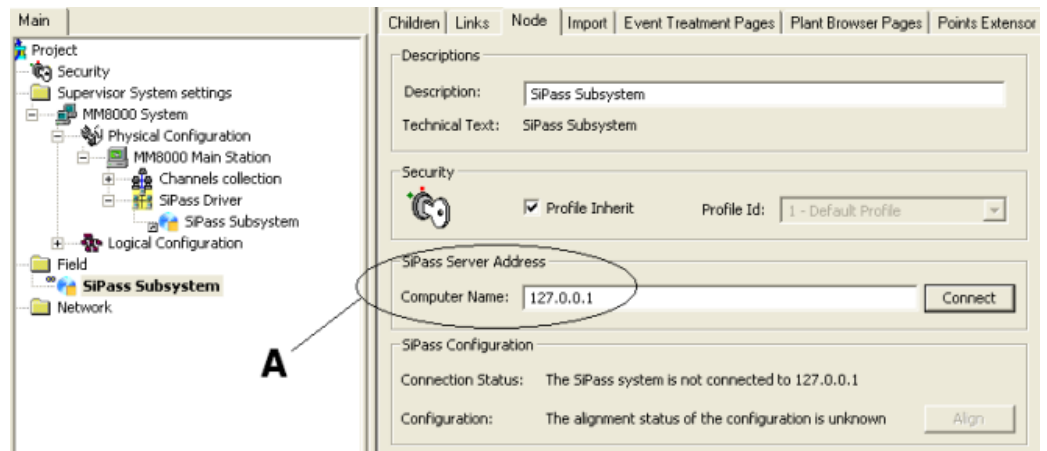
Setting the SiPass server address

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.
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.



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

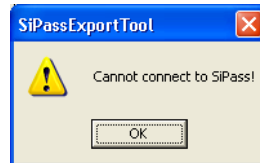
In the first case, once the SiPass server name is properly set, you can proceed as follows:

1. Click the **Connect** button.

⇒ A connection with the SiPass server is established.

In a few seconds, the **Connection Status** will indicate the successful connection.

If the connection fails, the following error message appears.

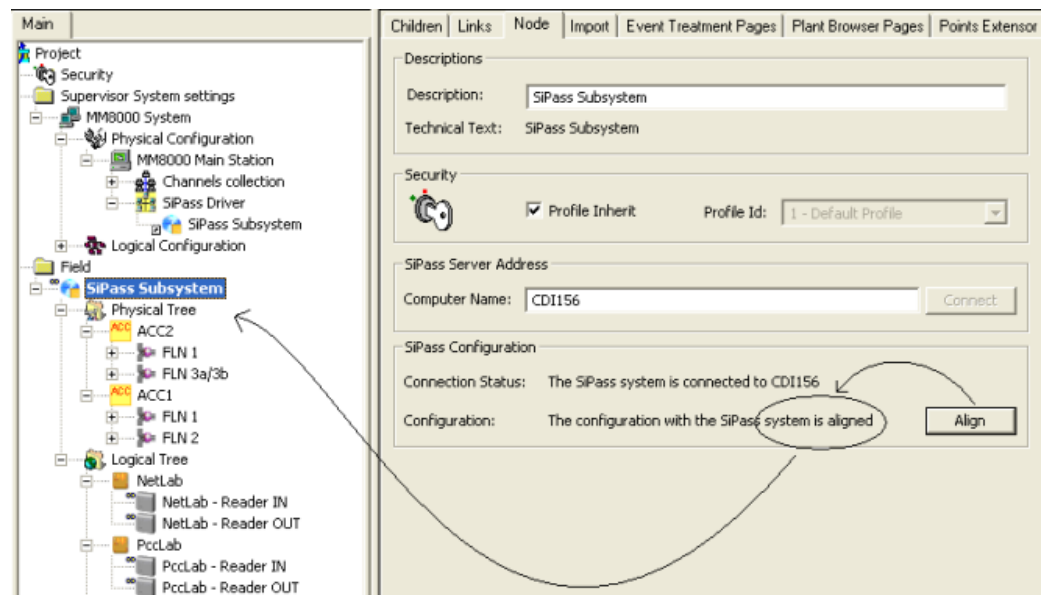


In this case, Check that:

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

2. Click the **Align** button.

⇒ 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.



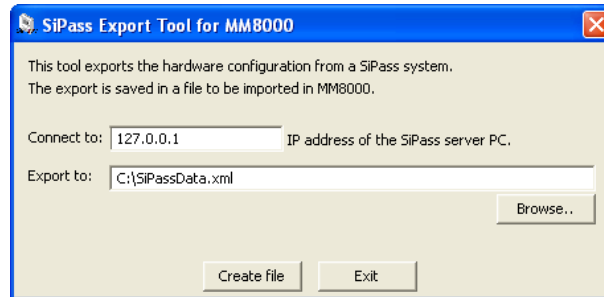
Transferring SiPass configuration

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: click the **Align** button 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 following figure shows the simple utility interface:

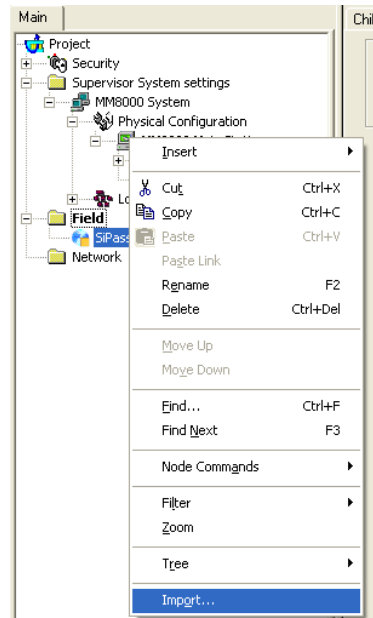


Exporting SiPass configuration

1. 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.
2. Click **Create file** to proceed.

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

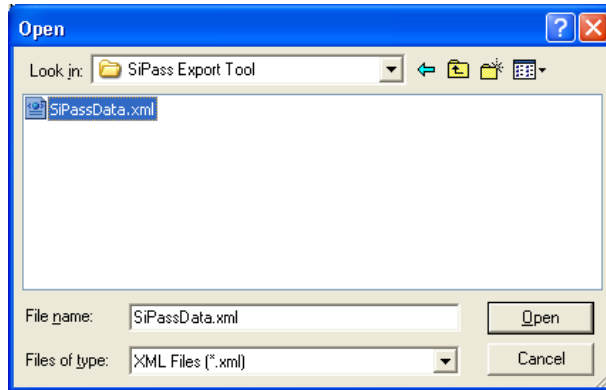
1. Select the **SiPass Subsystem** node.
2. Select **Tools > Import** or right-click the SiPass node and select **Import**.



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, locate the file and select it and click **Open**.



Selecting the SiPass XML file

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

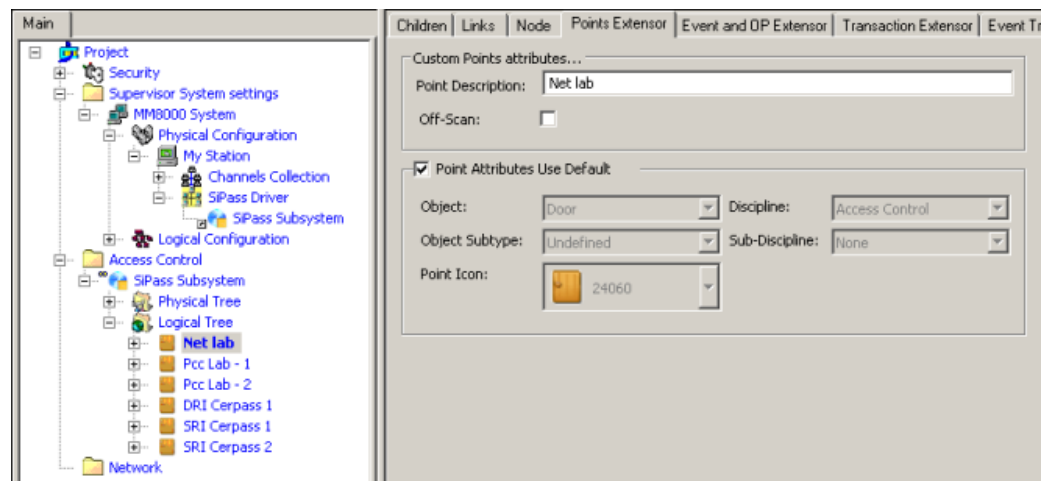


Selecting the **Import** tab results in a page report being displayed. This page contains the detailed logs of the latest import procedure, including all the added (or removed) objects.

Customising the SiPass configuration point (MM8000 only)

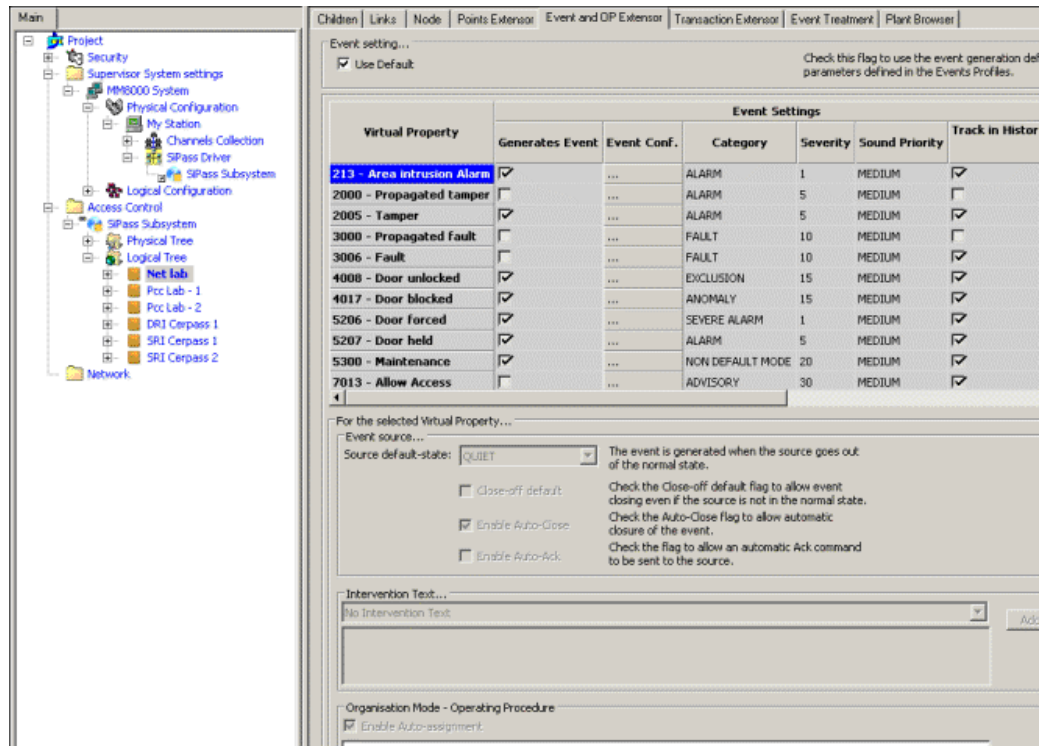
Once the SiPass structure is imported, it is ready to be downloaded. However, in MM8000, customisations are possible as for the other points. Namely:

- In the **Point Extensor** tab of each individual point, customise the description and icon.



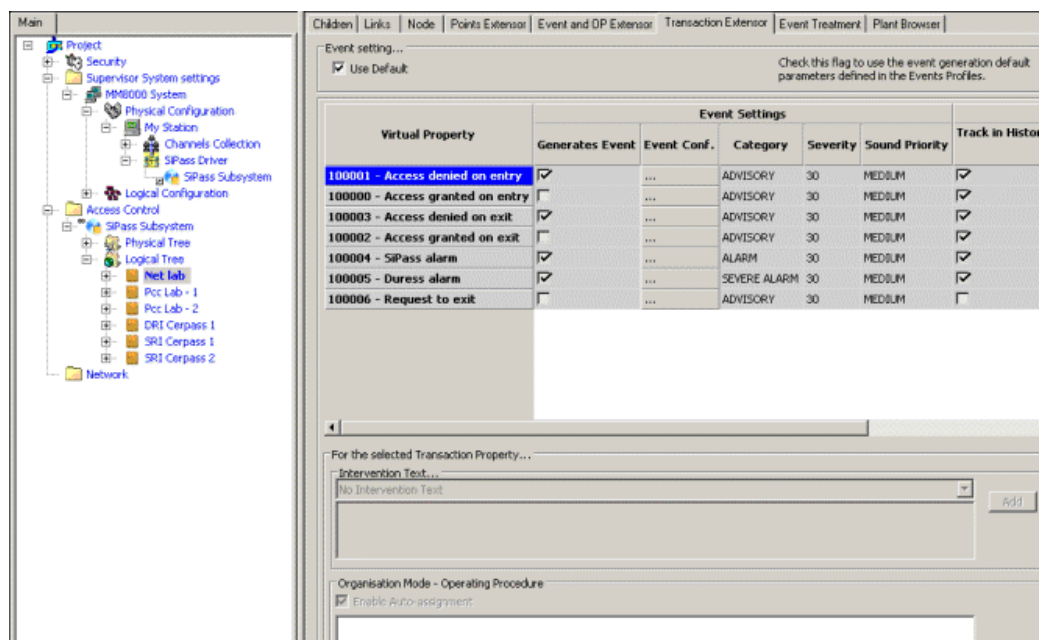
Customising individual SiPass points

- 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 the following figure).



Customising individual SiPass points event settings

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



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 the following figure).

The screenshot displays the configuration interface for SiPass doors. The left-hand pane shows a hierarchical tree view where 'Style' is selected under 'User Data - Event and Points'. The main window is titled 'Configure Event & Point Settings...' and shows the following configuration:

- Subsystem: 252501 - ST SiPass
- Point: 12 - Door
- Object Attributes Use Default:
- Object: door
- Object Subtype: Undefined
- Discipline: Access Control
- Sub-Discipline: None
- Icon: 24060

Below these settings are two tables for 'Event Settings'.

Virtual Properties Event Settings

Virtual Property	Generates Event	Event Conf.	Category	Severity	Sound Priority	Auto-Ack	Auto-CI
213 - Area intrusion Alarm	<input checked="" type="checkbox"/>	...	ALARM	1	MEDIUM	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2000 - Propagated tamper	<input type="checkbox"/>	...	ALARM	5	MEDIUM	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2005 - Tamper	<input checked="" type="checkbox"/>	...	ALARM	5	MEDIUM	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3000 - Propagated fault	<input type="checkbox"/>	...	FAULT	10	MEDIUM	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3006 - Fault	<input type="checkbox"/>	...	FAULT	10	MEDIUM	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4006 - Door unlocked	<input checked="" type="checkbox"/>	...	EXCLUSION	15	MEDIUM	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Transaction Properties Event Settings

Transaction Property	Generates Event	Event Conf.	Category	Severity	Sound Priority	Track in Histori
100001 - Access denied on entry	<input checked="" type="checkbox"/>	...	ADVISORY	30	MEDIUM	<input checked="" type="checkbox"/>
100000 - Access granted on entry	<input type="checkbox"/>	...	ADVISORY	30	MEDIUM	<input checked="" type="checkbox"/>
100003 - Access denied on exit	<input checked="" type="checkbox"/>	...	ADVISORY	30	MEDIUM	<input checked="" type="checkbox"/>
100002 - Access granted on exit	<input type="checkbox"/>	...	ADVISORY	30	MEDIUM	<input checked="" type="checkbox"/>
100004 - SiPass alarm	<input checked="" type="checkbox"/>	...	ALARM	30	MEDIUM	<input checked="" type="checkbox"/>
100005 - Duress alarm	<input checked="" type="checkbox"/>	...	SEVERE ALARM	30	MEDIUM	<input checked="" type="checkbox"/>

Customising event setting of SiPass Doors

3.4 Further SiPass configuration notes

3.4.1 Tips and hints

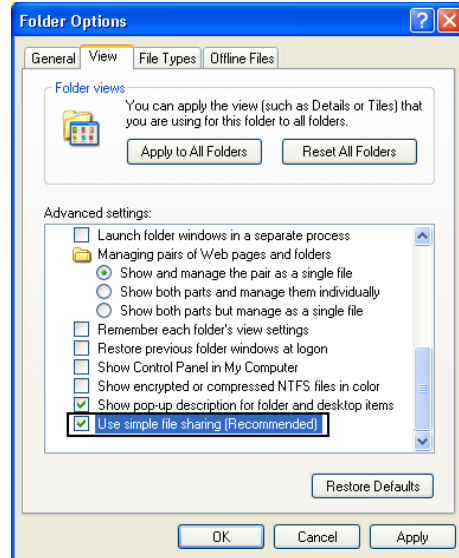
- **SiPass configuration (MM8000 only).** In order to work with MM8000, the SiPass configuration must include the following:
 - Users authorised on both MM8000 and SiPass have to be configured in both environments with balanced permissions (MM8000 security profiles and SiPass Operator Group functions).
 - 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 has to be installed by SiPass, which must therefore be installed first.

If you have installed MM8000/MK8000 before SiPass, do the following:

1. Uninstall MM8000 or MK8000 and reboot.
 2. Uninstall SQL Server.
 3. Install SiPass.
 4. 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.
 - In SiPass 2.40 and later, note that the **SiPassUser** password, required for MM8000 communication, must be in uppercase: **SIPASSPASSWORD**.
 - In case of communication problems between MM8000 and SiPass, make sure not to check the Windows Explorer folder option: **Use Simple File Sharing** (select **Tools > Folder Options** in the Explorer menu and then click the **View** tab as illustrated here below). This option should NOT be enabled on the SiPass server PC.

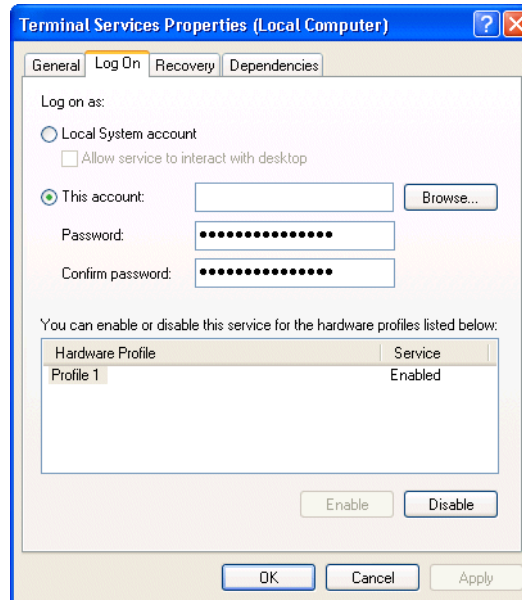


Folder Options

- **If the SiPass server does not run on the same PC as MM8000**, then specific installation steps are required on the networked PC where SiPass is installed:
 - 1) In the Windows user list, the SiPass PC should include the MM8000 *Internal User*, by default **DMS8000_Proc**. Use the same username and password as on the MM8000 PC. Refer to MM8000 ICC Manual (doc.no. A6V10062413).
 - 2) In the **SiPass Server Properties**, modify the Logon option in order to use the MM8000 *Internal User* as Logon account.

Perform the following steps:

1. Log on to the PC with the SiPass server.
2. Right-click on **My Computer** and select:
System Tools > Local User and Groups → Users
3. Add the new user **DMS8000_PROC** and assign administrator rights (for detailed instructions, please refer to the Windows documentation).
4. Right-click again on **My Computer** and select:
Services and Applications > Services
5. Double-click on the **SiPass** service and select the **Log On** tab.



6. Click the **This Account** button and then select **Browse**.
7. In the **Select User** window, select the **Advanced** button.
8. Select **Find Now** and then **DMS8000_PROC**.
9. Restart the PC.
10. From MM8000, select **Change Server** in the Composer Properties Management window, and select the SiPass server to connect.

3.4.2 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 following table 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.

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



Check latest MM8000 Release Notes for version compatibility and limitations.

3.4.3 SiPass Field Simulator

A simulation function is available for simulating the SiPass events in MM8000. However, this is not part of the Field Simulator described in the Appendix A of MM8000 Installation, Configuration, and Commissioning manual (MM8000 ICC, doc.no. A6V10062413).

Activating the SiPass simulator

The SiPass field simulator can be activated by selecting the **Children** tab of the **SiPass driver's parent node** and clicking the **Simulation** checkbox. The simulator is started automatically when MM8000 server restarts. It can also be started manually from the folder:

<installation folder>\Utilities\Field Simulator\SiPassSimulator.exe



⚠ WARNING

The SiPass Simulators only works properly when:

- The actual SiPass server is NOT running. Make sure to stop the **SiPassServer** service in the Windows service list.
- The PC is physically connected to a LAN network (valid network cable plugged in).

Issued by
Siemens Switzerland Ltd
Infrastructure & Cities Sector
Building Technologies Division
International Headquarters
Gubelstrasse 22
CH-6301 Zug
Tel. +41 41-724 24 24
www.siemens.com/buildingtechnologies

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