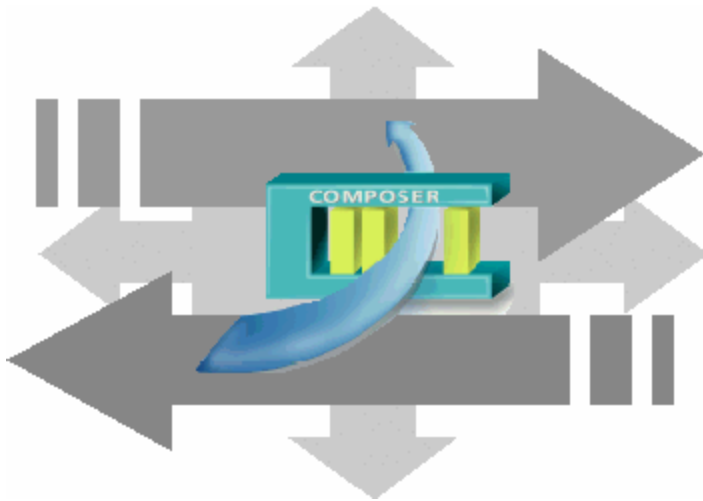


# SIEMENS



**DMS8000 MP4.10**

**Connectivity Guide Add-on**

- DLCS access control

**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 DLCS Access Control system in MM8000 management stations. 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 DMS8000 Network, Fire and Intrusion Connectivity Guide, the DMS8000 Video Connectivity Guides, and the Installation, Configuration and Commissioning manual 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 courses in the Siemens Intranet at the following address: <http://intranet.sbt.siemens.com/fs>. Choose "Our Offering" in the option list at the left of the screen; links to training material are available on the lower right of the screen.

## 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.

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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 Configuration 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	Access Control Connectivity DLCS Add-on	A6V10067792_a	06.2007	MP4.10
048	Video Connectivity	A6V10062457_a	06.2007	MP4.10
048	Video Connectivity Geutebrück Add-on	A6V10067796_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
A6V10067792_a_en	06.2007	Corresponds with DMS8000 MP4.10
009424_b_en	06.2006	Corresponds to DMS8000 MP3.20

# Definitions of terms

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<b>Control unit</b>	<p>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.</p> <p>The DMS8000 systems support different types of control units in the disciplines of fire and intrusion. Each type of control unit has a different set of terms to describe the hierarchical levels of the organisational structure it uses. At the lowest level are the detectors, which are organised into groups. These groups are organised into larger groups, and so on.</p>
<b>Data Point</b>	<p>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.</p>
<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. DMS8000 refers to the complete system, including subsystems, networks and management stations / terminals.</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 "MM8000_PROC" or "MK8000_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>Layer</b>	<p>A layer is part of a graphic Map. Actually, a Map is made up of multiple layers that are shown together like multiple overlapped transparencies. There can be Background and Foreground layers: background layers typically include Cad drawing and other objects representing the protected buildings, whereas database objects are contained in the foreground layers.</p>
<b>Metafile</b>	<p>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.</p>
<b>Operator</b>	<p>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.</p>
<b>PAK</b>	<p>Product activation key: a 16-character code, associated to a hardware key (dongle) that enables DMS8000 software to run and to perform.</p>
<b>Plant</b>	<p>The physical location being protected by the security detectors and controlled with the DMS. Synonyms are: facility, site, building, area, etc.</p>
<b>Plug-In</b>	<p>A subsystem tool used during the configuration process in Composer. Plug-ins are included in a folder on the CD-ROM that comes with the MM8000/MK8000 product. Once they have been imported into Composer, they are represented as icons.</p>
<b>Subsystem</b>	<p>A control unit configured in the Composer environment.</p>

# 1 Introduction

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This is a guide to the software configuration procedures for the integration of DLCS Access Control system 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.

## **DLCS**

The DLCS (Door Light Control System) can monitor and control the state of the connected doors. The MM8000 can receive the door states/alarms and issue control commands (unlock door) by means of a networked OPC server (Siemens WinCC V6.0 SP2).



## 2 Configuring DLCS

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The DLCS (Door Light Control System) can monitor the state of doors and detect the related alarm states. Also, a control command may be optionally available for unlocking doors.

The MM8000 can communicate with DLCS by means of a networked OPC server (Siemens WinCC V6.0 SP2), which provides as many as 3 OPC items to represent the conditions of each door. The item list includes:

- Door status (open/closed)
- Door alarm (normal/alarmed)
- Door control command (unlock, optional)

The OPC items can be imported in Composer using a WinCC export file. Then, the items should be manually linked to the door objects in order to build up the Composer tree that can map the actual door state.

➔ More than one OPC link can be supported, each one requiring the configuration of a DLCS node in Composer.

### 2.1 Configuration checklist

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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 general system architecture and the number of WinCC connections that will require configuration for each DLCS unit.
- For each DLCS, the list of doors and the associated OPC items in WinCC
- The WinCC export file including all the DLCS items
- Plug-ins needed:  
Plug-ins #252301 (ND Dics / ST ND OPC) and 353901 (DLCS / STDLCS2), which must be installed before you can configure your system

### 2.2 Configuration procedure

---

The following are the configuration procedures for a DLCS unit:

#### Adding the required Composer Plug-ins

1. Start the Subsystem Plug-in Installer, in the Windows Start menu, launch the program:  
Start → Programs → DMS8000 → Tools → Subsystem Plug-in Installer  
*The Installer tool starts up and shows a dual-pane window.*
2. In the right pane, select “Browser” and locate the Plug-in folder (see Fig 1).  
This is a subfolder of the DMS8000 software, normally installed in “C:\Program files”. However, depending on your national version of Windows and on the options selected during the software installation, this folder may have a different location on your hard disks.

Note that in the DMS800 folder there are 2 subfolders containing Composer Plug-ins; namely:

- ST Plug-ins, which contains tools for MP3.20
- ST Plug-ins NP4.10, which contains tools for MP4.10

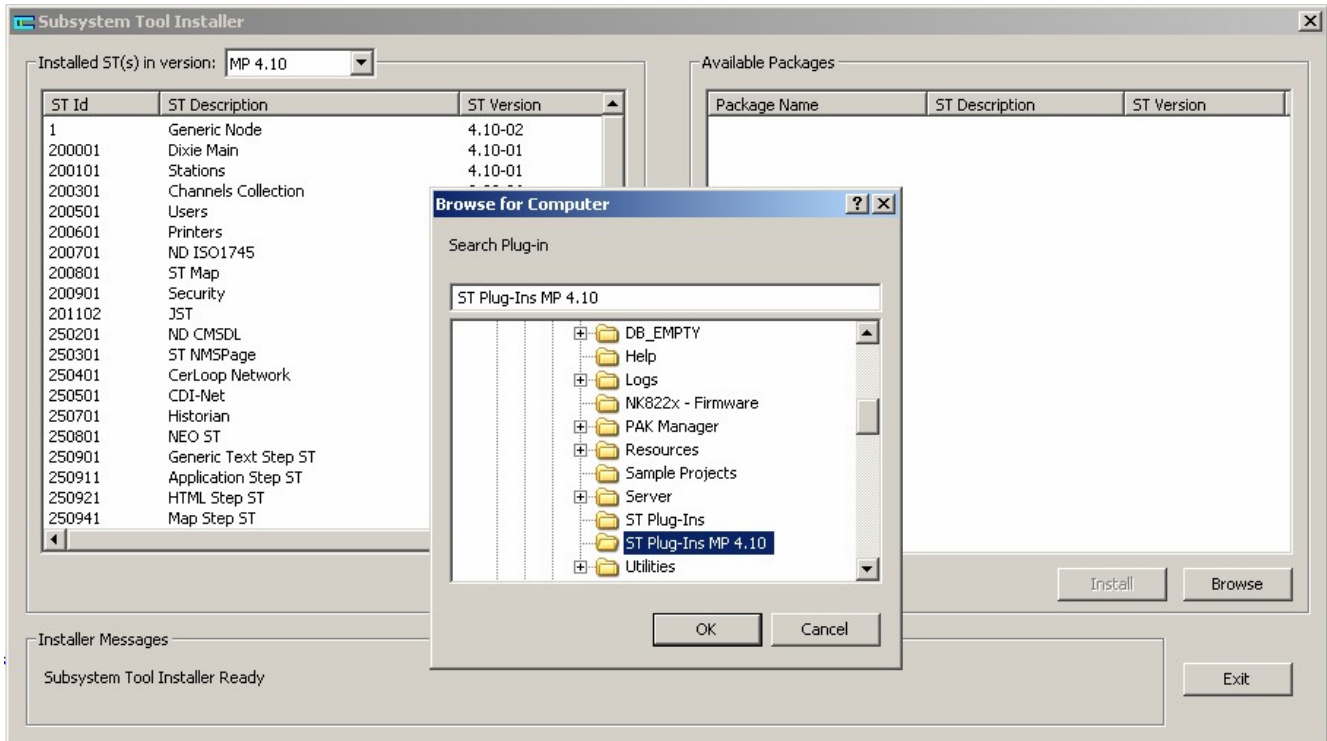



Fig 1 Installing the Composer Plug-ins

3. Click OK and open the Plug-in folder.  
At this point, the pane on the right hand side shows the available packages.
4. Select the following packages:
  - ND Dics - ST ND OPC (252301)
  - DLCS - STDLCS2 (353901)
and click "Install" for each of them.
5. Check the resulting message at the bottom of the Installer window.

#### Adding the DLCS driver

1. Open the Composer project.
2. If not already done, add the OPC driver:  
In the MM8000 physical configuration, select the main station name and then the Channel Collection.  
'Supervisor System Settings → MM8000 System → Physical configuration → <Station name> → Channels Collection'.
3. Click the driver icon  to add the OPC driver (see Fig 2).  
→ A new node is added. No further configuration is required for the OPC driver.

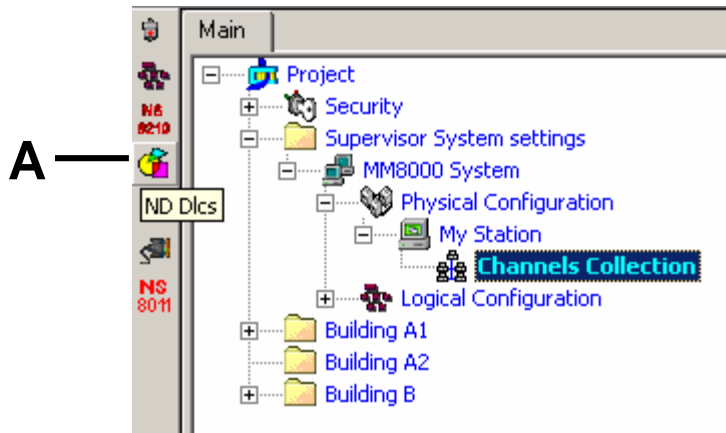




Fig 2 Adding the OPC driver

A Click this icon to add the OPC driver required for DLCS / WinCC

### Adding the folder for the DLCS system

1. Optionally, create a folder for the DLCS unit.

### Adding the DLCS node

1. Select the new folder.
2. Click the Access Control menu 
3. Select the DLCS icon  to add a new DLCS node (see Fig 3).

→ A new DLCS node is added to the Composer tree.

**Note:** By default, the node will be named 'DLCS #nn'. In the Node tab, you can customise the Description text.

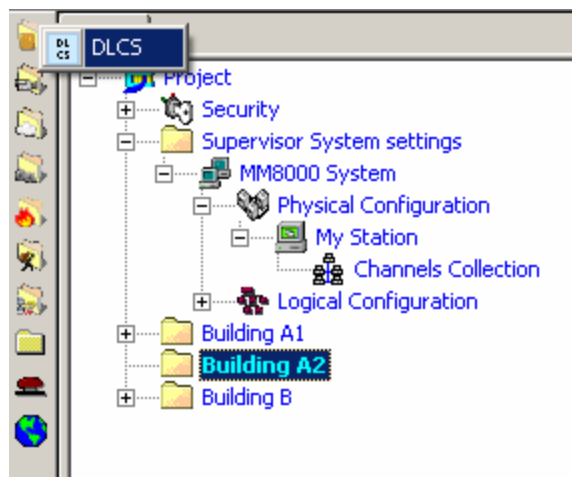


Fig 3 Adding the DLCS node

### Linking the DLCS node to the OPC driver

1. Select and expand the Channels collection of the main station.
2. Select DLCS node.
3. Drag and drop the DLCS node to the OPC Driver node (see Fig 4).

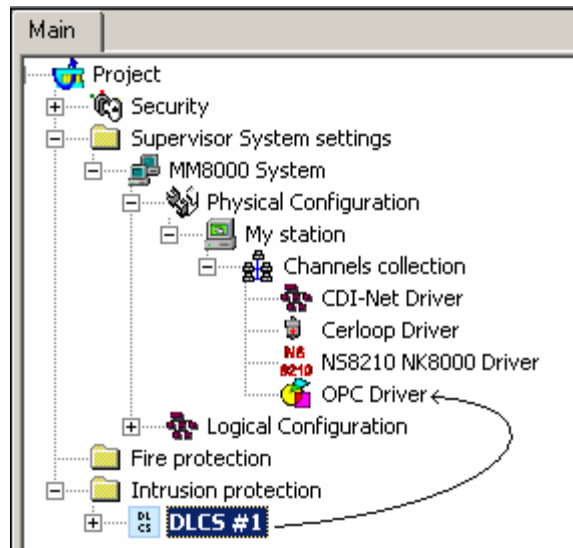


Fig 4 Linking DLCS node to the OPC Driver

### Setting the server computer name or IP address

1. Select and expand the Channels collection of the main station.
2. Select and expand the OPC Driver node.
3. In the Node tab, set the Remote server name or IP address (see Fig 5).  
By default, the field is set with the local IP address.



– Note that the next field (WinCC server name) contains by default the standard WinCC settings. Do not modify the default value.

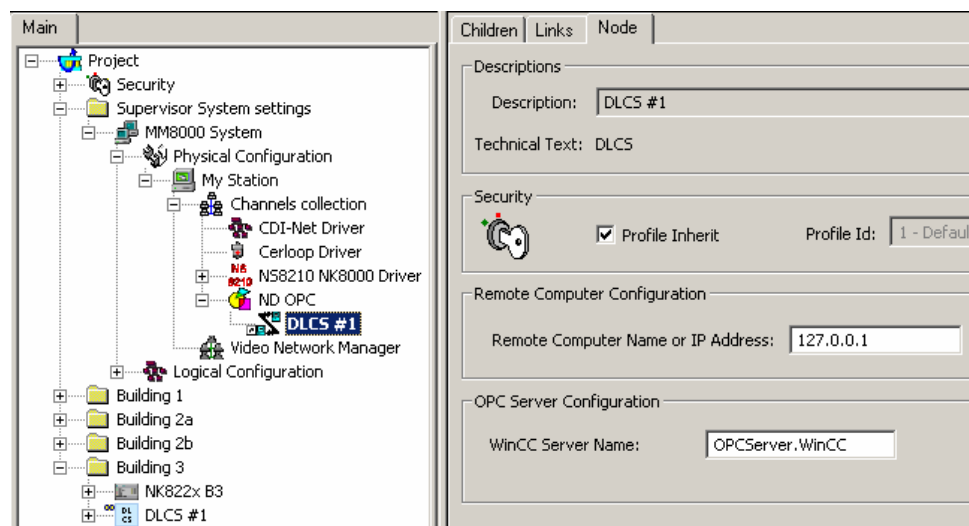


Fig 5 Setting server computer name or IP address



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In case of network-distributed solutions, be aware that DCOM security must be configured in order to enable the correct communication over the network.

In general, the MM8000 internal user (→ see MM8000 Installation, Configuration, and Commissioning manual) must be recognised by the server (i.e. defined locally on the server computer or at domain level) and granted the DCOM permissions for the WinCC process (DCOMCNFG settings).

Also, the computer running MM8000 should be configured in order to grant access the user of the WinCC server.

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### Importing the WinCC OPC items

1. Select and expand the DLCS node.
2. Select the 'Namespace' node.
3. Select Tools→Import in the Composer menu (see Fig 6)

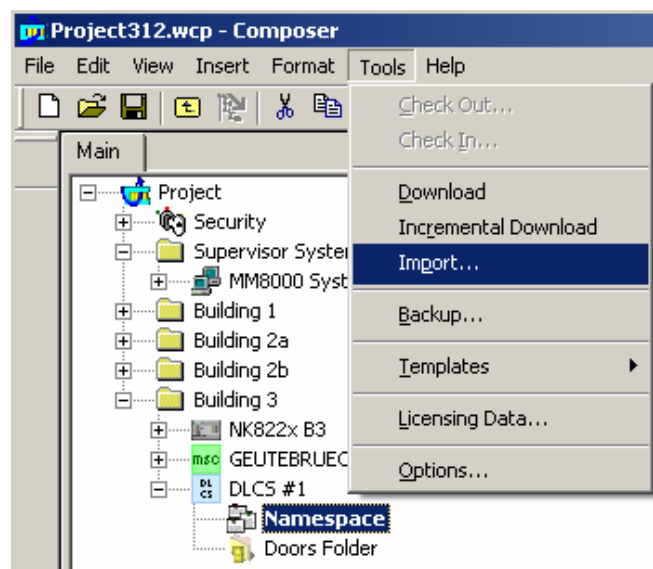


Fig 6 Importing the OPC items

→ After a confirmation request, the software presents a browsing window to search for the file to import (a file with extension CSV is expected).

4. Locate the CSV file and click 'Open'.

→ In a few moments, the OPC items are imported in the Composer tree.



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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.

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A new CSV file can be 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.
-

## Setting the OPC items property

The OPC items should be configured to set the type of item in relation to the DLCS application. The type can be:

- Unused
- Door Status
- Door Alarm
- Door Open Command

In order to set the item type, proceed as follows:

1. Select and expand the 'Namespace' node.
2. Select the first OPC item used by DLCS and click the Node tab.
3. In the Item Type drop-down list, set the type (see Fig 7).
4. Repeat steps 2 and 3 for the remaining items used by DLCS.

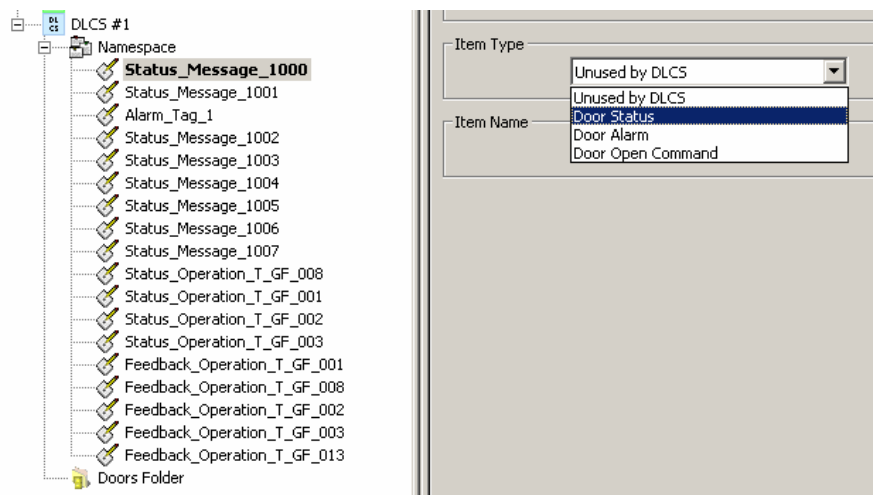


Fig 7 Setting the item type on the Node tab

**Note:** If you are familiar with the Composer tool, select the Children tab of the 'Namespace' node. At this point, you can quickly set the item types in the spreadsheet page (see Fig 8).

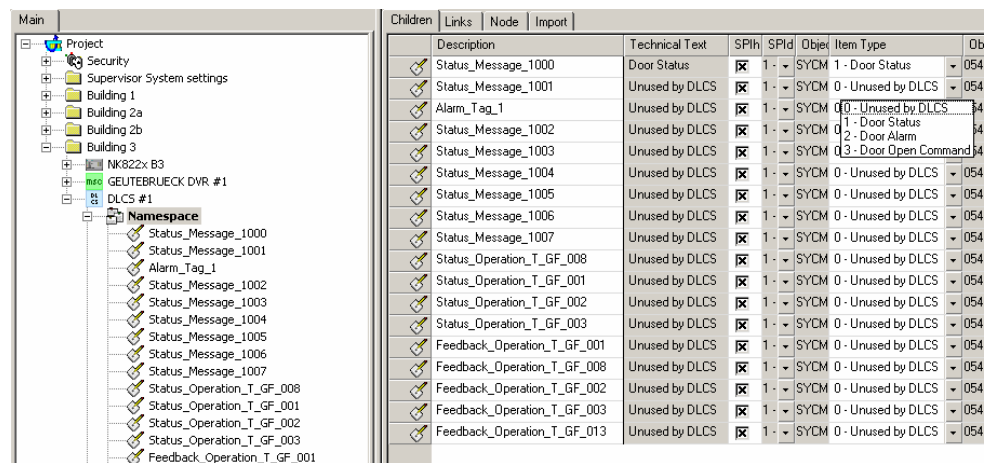



Fig 8 Setting the item types on the Namespace Children tab

### Adding the door nodes

1. Select and expand the DLCS node.
2. Select the 'Doors folder'.
3. Click the door icon  to add a new door (see Fig 9)  
→ A new Door node is added to the Composer tree.

**Note:** By default, the node will be named 'Door #nn'. In the Node tab, you can customise the Description text.

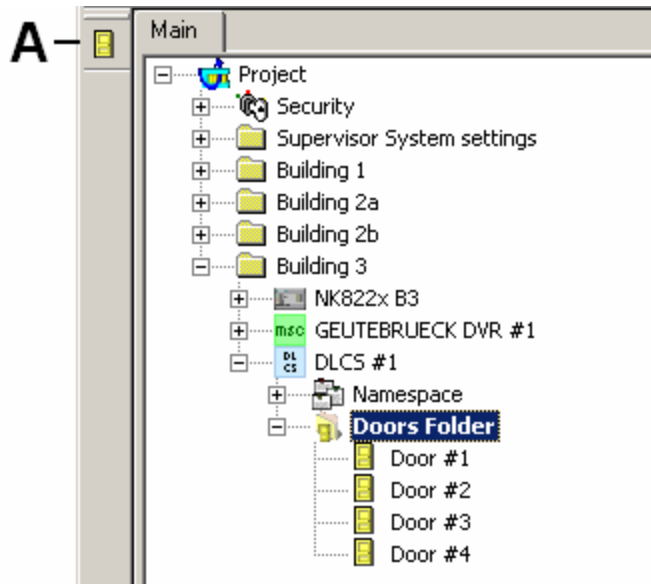


Fig 9 Adding a new door

A Click this icon to add a new door

### Linking the OPC items to the door nodes

1. Select and expand the DLCS node.
2. Select and expand the 'Namespace' node.
3. Select and expand the 'Door folder'.
4. Drag and drop the OPC items to the corresponding door (see Fig 10).

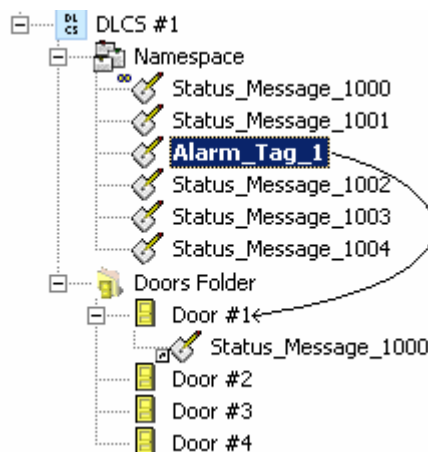


Fig 10 Linking OPC items in the Composer tree

**Note:** If you are familiar with the Composer tool, click the Children tab of the 'Namespace' node. At this point, you can select the three associated items (keep the Ctrl key pressed and click them all) and then drag and drop them together to the corresponding door node (see Fig 11).

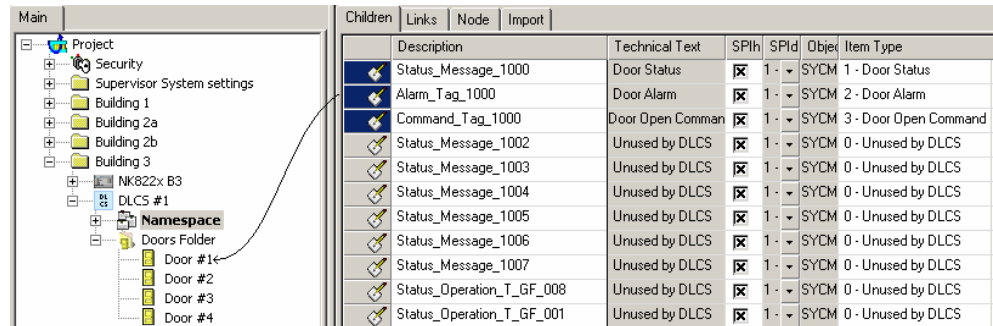


Fig 11 Linking OPC items from the Namespace Children tab



Each door requires a link to at least two items (Door Status and Door Alarm), whereas the third item (Open Command) may or may not be present depending on whether the door can be remotely unlocked or not.

Door nodes that are not properly linked to two or three OPC items will not be downloaded (an error message will display during the download procedure).





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