SIEMENS

Desigo Control Point

Operation Manual

A6V11211557_en--_f

2020-04-30

Smart Infrastructure

Edition notice

Technical specifications and availability subject to change without notice.

Edition: 2020-04-30

Document ID: A6V11211557_en--_f

Copyright

Trademarks

The trademarks used in this document are listed together with their legal owners in this section. The use of these trademarks is subject to international and national statutory provisions.

Desigo® and Desigo® CC™ are registered trademarks of Siemens Schweiz AG.

BACnet is a trademark of American National Standard (ANSI/ASHRAE 135-1995).

Chrome and the Chrome logo are trademarks of Google LLC.

Firefox is a registered trademark of Mozilla Foundation.

Internet Explorer is a trademark of Microsoft Corporation.

Oracle and Java are trademarks or registered trademarks of Oracle America, Inc.

Further to the notes in this section, and to facilitate the reading of the text, these trademarks will not be indicated elsewhere in the text by use of symbols, such as ® or ™.

Table of Contents

Cybersecurity disclaimer

Siemens provides a portfolio of products, solutions, systems and services that includes security functions that support the secure operation of plants, systems, machines and networks. In the field of Building Technologies, this includes building automation and control, fire safety, security management as well as physical security systems.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art security concept. Siemens' portfolio only forms one element of such a concept.

You are responsible for preventing unauthorized access to your plants, systems, machines and networks which should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. Additionally, Siemens' guidance on appropriate security measures should be taken into account. For additional information, please contact your Siemens sales representative or visit https://www.siemens.com/global/en/home/company/topic-areas/future-of-manufacturing/industrial-security.html.

Siemens' portfolio undergoes continuous development to make it more secure. Siemens strongly recommends that updates are applied as soon as they are available and that the latest versions are used. Use of versions that are no longer supported, and failure to apply the latest updates may increase your exposure to cyber threats. Siemens strongly recommends to comply with security advisories on the latest security threats, patches and other related measures, published, among others, under https://www.siemens.com/cert/en/cert-security-advisories.htm.

1 About this document

1.1 Scope

This manual provides an overview of the Desigo Control Point functions for managing your building automation system. It contains the following sections:

- *Overview* provides a high-level overview of the user interface, an outline of icons and state indicators and procedures for managing user profiles.
- The following sections provide a detailed overview of the user interface and procedures for using each Desigo Control Point function:
  - *Plant view* provides custom graphical views that you can use to operate and monitor your facility.
  - *Alarms* displays current and historical alarms and events. Users with the appropriate access can also acknowledge alarms, configure alarms settings, and purge the alarm history.
  - *Scheduler* allows you to view and modify the weekly schedule and exceptions that override the schedule.
  - *List view* provides a customized data point list that allows you to efficiently access the important data points in the system.
  - *Trends* displays trended data in a chart or table format and allows you to export trend data. Users with the appropriate access can also add, edit and remove data points from online trended objects.
  - *Reports* displays a point log report that can be filtered by device or object type. Users with the appropriate access can also send archived reports to email recipients or an FTP server and purge archived reports. This function is only available on selected Desigo Control Point devices.
  - *Documents* allows users to view and download files that have been saved on the Desigo Control Point device. Users with the appropriate access can also manage the files saved on the Desigo Control Point device. This function is only available on selected Desigo Control Point devices.
- *General settings* outlines procedures for configuring an SMTP server and FTP settings and managing email recipients.

1.2 Target reader

This document is intended for Desigo Control Point users doing the following tasks:

- Operating Scheduler or Trends and acknowledging alarms.
- Changing system settings, making basic system updates and performing simple service or maintenance tasks. This does not include commissioning.
- Trending values for troubleshooting.
- Performing energy monitoring through animated graphics that are associated with gauges, bar graphs, meters, and so on.
- Monitoring the status of the system using system reports and exporting the data.

!	*NOTICE*
	Desigo Control Point is an open protocol monitoring and operating solution that is compatible with certified BACnet devices. The content, structure, icons and navigation for each system depend on the BACnet device being used. The data displayed on your system may look different than what is shown in this manual.

1.3 Terms

Term	Definition
ABT-SSA	Setup & Service Application included in Desigo Control Point. Mainly intended for commissioning, service and other more advanced tasks. Also provides a generic data point list to operate all supported BACnet objects and properties of the assigned devices.
automation station	Primarily controls equipment and plants. An automation station samples and processes field data, initiates control actions, communicates with its operators, and generates reports, displays, and warnings.
BACnet/IP device	BACnet-certified device used for building automation.
BACnet/IP system	Includes 1…n BACnet devices.
BACnet/IP touch panel	Touch device with an integrated Web Server that processes data from BACnet building automation and control devices and presents it to Web clients via HTML5.0 Web pages. For example, Siemens devices PXM30.E, PXM40.E, PXM50.E.
BACnet/IP Web interface	Provides Web-based, graphical operation of BACnet automation stations using touch panels and devices with an HTML5.0 Web browser. For example, Siemens devices PXG3.W100-1, PXG3.W200-1.
Desigo Control Point	A full-featured Web-based solution that provides operating and monitoring functions for building automation and control systems.
Desigo Control Point device	A device that is primarily used for operating and monitoring systems. Standard BACnet devices, such as computers, tablets and smart phones with HTML5.0 Web browsers, are fully supported. For example, Siemens devices PXM30.E, PXM40.E, PXM50.E, PXM30-1, PXM40-1, PXM50-1, PXG3.W100-1, PXG3.W200-1.
HTML5.0 Web Server	Enables access from a standard Web browser to a specific system and provides its content in Web pages.

1.4 References

The following Desigo Control Point documents are available on the Internet:

- *Desigo Control Point BACnet/IP Touch Panels Data Sheet (PXM30.E, PXM40.E, PXM50.E)* (A6V11664137)
  Download center
- *Desigo Control Point BACnet/IP Web Interface Data Sheet (PXG3.W100-1, PXG3.W200-1)* (A6V10808336)
  Download center

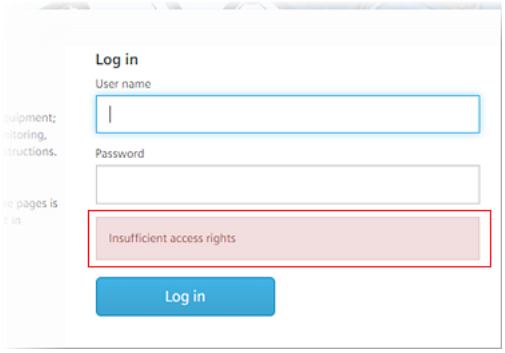
2 Overview

Desigo Control Point is a full-featured Web-based solution for managing your building automation system. In addition to operating HVAC, lighting and shading, Desigo Control Point provides energy dashboards for managing and analyzing the energy consumption of monitored systems.

- The available features depend on the Desigo Control Point device being used.
- Features and menu items only display for the core functions that a user role is allowed to access.

Accessing the login page

1. Type the IP address of a Desigo Control Point device in the address bar of a browser.
2. Once the login page displays, scan the QR code or click **Help** to download the user documentation.

!	*NOTICE*
	User accounts with limited access cannot log in if the previous user logged out from the ABT Setup & Service Assistant (SSA). If the following error displays when a user account with limited access tries to log in, a user account with access to ABT-SSA must log in, navigate to Desigo Control Point, and log out. The user account with limited access is then able to log in. 

2.1 User interface

The user interface automatically adjusts to fit your screen width and orientation. The following figures and legend outline the basic layouts.

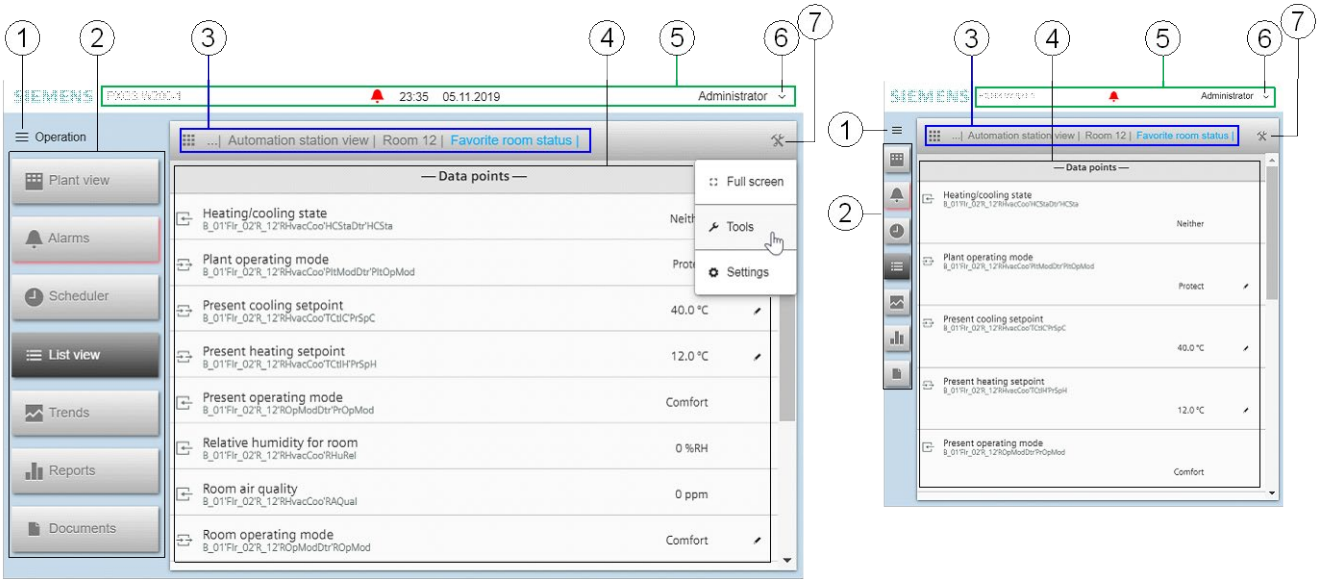


Figure 1: User interface adjusted to fit screen width.

① Main menu

② Core function pane

③ Root icon and breadcrumb navigation

④ Work area

⑤ Status bar

⑥ User management

⑦ Tools and Settings

① Main menu

Setting	Description
Main menu	Click to navigate to the same position in the building hierarchy in the ABT Setup & Service Assistant (SSA). Viewing additional data points [→ 41]

② Core function pane

Setting	Description
Plant view	Displays customized and standard graphics with real-time data point values and status updates. Plant view [→ 18]
Alarms	Displays active alarms and alarm history and allows you to send alarm notification emails. The **Alarms** button has a red shadow when there are active or unacknowledged alarms. Alarms [→ 22]
Scheduler	Configures the schedule program and creates exceptions for existing schedules. Scheduler [→ 29]

Setting	Description
List view	Changes data point values and places data points out-of-service. List view [→ 39]
Trends	Displays a graphic view of collected trend data and allows you to configure trend exports. Trends [→ 43]
Reports	Generates reports and exports report data. Reports [→ 56]
Documents	Allows users to view and download files that are saved on the Desigo Control Point device. Documents [→ 59]

③ Root icon and breadcrumb navigation

Setting	Description
Root	Click to clear the breadcrumb navigation list and display the top level of the building hierarchy.
Breadcrumb navigation	Select an item in the breadcrumb list to return to that level of the building hierarchy.

④ Work area

Setting	Description
Work area	Provides functions for working with data points. Information displayed depends on the selected core function and the position in the building hierarchy.

⑤ Status bar

Displays the following information (from left to right):

Setting	Description
Object name	Name of the Desigo Control Point device
Alarm state indicator	When the indicator is displayed, click to open the **Alarms** core function and display any pending acknowledgements for the currently selected building element.
Current time and date	Not displayed on smaller screens.
User name	The currently logged in user.
User management	Click ⌄ to display the **User management** menu (⑥).

⑥ User management

Setting	Description
User management	Click ⌄ to display the **User management** menu. The options displayed depend on the role of the currently logged in user. • All users can modify settings for their own account and log out. • Users with appropriate access can also add, edit and delete user accounts and reset passwords. User management [→ 15]

⑦ Tools and Settings

Setting	Description
	Access the **Full screen** option and the **Tools** and **Settings** panes. The options displayed depend on the role of the currently logged in user.
Full screen	Mainly for use with a graphic display. When selected, the browser bar displays at the top of the screen, but the **Status bar** (⑤) and the **Core function pane** (②) do not display.
Tools	Provides tasks that are specific to each core function. Tools and Settings [→ 16]
Settings	Provides general functions for configuring a Desigo Control Point device. Tools and Settings [→ 16]

Accessing Favorites on a touch panel

If Favorites have been set up on a touch panel, swipe down to display the URL bar and tap ★ to display the available pages.

2.1.1 Icons

The following icons represent the type of BACnet objects associated with a building, floor, and room.

Indicator	Description	BACnet object type
Structured view objects		
	Building	AreaView(Bldg)
	Floor	AreaView(Floor)
	Room	AreaView (R)
	Room segment	AreaView (RSegm)
	Central function	AreaView (CenFnct)
	Favorite view	FvrView
	Network view (Field buses)	NwkView
	Network view (Assigned devices, Discovered devices)	NwkView (AssgnDev, DscvdDev)
	Automation station	ASView
	Collection	Col (Infrastructure, Device, Third Party)
	Application function	FuncView
Value objects		
	Input value	AI, BI, BlsIn, LgtIn, MI
	Output value	AO, BO, BlsOut, EmgLgt, LgtAOut, LgtBOut, MO
	Calculated value	ACalcVal, BCalcVal, MCalcVal, PrphDev
	Process value	APrcVal, BPrcVal, MPrcVal
	Configuration value	ACnfVal, BCnfVal, MCnfVal, UCnfVal

Indicator	Description	BACnet object type
	Trigger value	MTrgVal
Centralized command grouping objects		
	Command object	CmdObj
	Group master	GrpMaster
	Group member	GrpMbr
System objects		
	Controller	Loop
Alarm and trend objects		
	Event enrollment	CmnEvtEnr, EvtEnr, DevAlert
	Trend log	TrndLogS
	Other special Objects	AppCnf, CmnEvt, DevObj, FileObj, FldBusMgmt, NotifClass, NwkPortIP, NwkPortMSTP, Pgm
System function objects		
	Diagnostics	Diag
	Event log	EvtLog
	Calendar	Calendar
	Scheduler	Schedule

2.1.2 State indicators

The state indicator icons represent the current condition of functions and/or objects associated with a room.

Indicator	Description	Cause
Value quality		
	Fault	Indicates a system or process alarm
	Transition	Indicates a non-alarm event (object not updated by data acquisition yet, or a command being processed)
Operating mode		
	Out of service	Indicates whether the physical input/output has been decoupled by means of property Out-Of-Service
	Overridden	Object overridden by external switch
	Life safety	Personal safety (Present priority is 1...3)
	Locked	Locked function/object (Present priority is 4...5)
	Time delay	Delay is active (Present priority is 6)
	Manual switch	Switch is set to manual (Present priority is 7)
	Manual Prio 8	Manual state of an object is indicated
Alarm state		
	In alarm. Alarm not acknowledged.	

Indicator	Description	Cause
	Not in alarm. Alarm not acknowledged.	
	In alarm. Alarm acknowledged.	
	Not in alarm. Alarm acknowledged.	
	Not in alarm. Reset.	

2.2 User management

The options displayed in the **User management** menu depend on the role of the currently logged in user.

Menu option	Description	User role access
User profile	Allows the currently logged in user to modify settings for their own account.	Displays for all user roles.
Manage users	Allows the currently logged in user to add, edit and delete user profiles. Managing user profiles [→ 15]	Only displays for the default **Administrator** user profile and user roles that have been granted access to create, update and delete user profiles.
Log out	Logs a user out of Desigo Control Point.	Displays for all user roles.

User profile

1. Select ⌄ **> User profile** in the status bar to modify the settings outlined in the following table.
2. When you are finished, click **Save** and **Close** to save your changes and return to the operating and monitoring functions.

Setting	Description
Password	1. Click **Change password** to display the password fields. 2. Enter your current password. 3. Type and confirm a password that complies with the password policy for your site. 4. Click **Change password** to save the new password.
Language	Select the user interface language.
Date format	Select a date format. For example, **DD.MM.YYYY**, **YYYY/MM/DD** or **MM-DD-YYYY**.
Time format	Select the **24h** or **12h** time format.

Table 1: User profile fields.

2.2.1 Managing user profiles

Note
The default **Administrator** user profile cannot be deleted and the **User name** and **User role** fields cannot be modified.

Managing password security

To help ensure a secure operating environment, use the following password recommendations when adding user profiles:

- Create unique usernames/passwords for each user.
- Do not create a common username/password to be shared by all employees.
- Require that passwords be changed at regular intervals, such as every 45 days.
- Do not allow users to write their password on a piece of paper and attach it to their monitor or leave it where it can be easily found.
- Remove user accounts for individuals who no longer require access or no longer work at the facility.
- Require that users create a robust/complex password.
  - Use a combination of uppercase and lowercase letters, numerals, and special characters.

  - Use a minimum of 8 characters for a user account and a minimum of 12 characters for privileged accounts.
- User profile passwords cannot be reset. If access is locked by failed login attempts, you must delete and re-add the user profile.

Adding a new user profile

1. Select ⌄ **> Manage users** in the status bar.
2. Click **Add** and then complete the fields outlined in the following table.
3. Click **Add** to save the new user profile and return to the **Manage users** page.

Editing a user profile

1. Select ⌄ **> Manage users** in the status bar.
2. Select ✎ for a user profile to modify the fields outlined in the following table.
3. Select **Save** and **Close** to save your changes and return to the operating and monitoring functions.

Setting	Description
User name	Type a user name. Each user profile must have a unique **User name**.
New password and Confirm password	If necessary, click **Change password** to display the password fields. Type and confirm a password that complies with the password policy for your site.
User role	Select a role from the drop-down list. The **User role** controls access to functions and tools.
Language	Select the user interface language.
Date format	Select a date format. For example, **DD.MM.YYYY**, **YYYY/MM/DD** or **MM-DD-YYYY**.
Time format	Select the **24h** or **12h** time format.

Table 2: Manage users fields.

Deleting a user profile

Note
The user profile for the currently logged in user cannot be deleted.

1. Select ⌄ **> Manage users** in the status bar.
2. Click ⊗ and **Delete user** to delete the selected user profile.
3. Click **Close** to return to the operating and monitoring functions.

Changing user passwords

Do the following to change another user's password:

1. Select ⌄ **> Manage users** in the status bar.
2. Click ✎ for the user profile.
3. Click **Change password**.
4. Enter the current password for the user profile.
5. Type and confirm a password that complies with the password policy for your site.
6. Click **Change password** to save the new password.
7. Click **Save** to save your changes and return to the **Manage users** page.

2.3 Tools and Settings

Click 🛠 in the work area heading to access the **Full screen** option and the **Tools** and **Settings** panes.

Menu option	Description	User role access
Full screen	Mainly for use with a graphic display. When **Full screen** is selected, the browser bar displays at the top of the screen, but the status bar and core function pane do not display. Select > to exit the full screen display.	Displays for all user roles.
Tools	Allows you to engineer, edit and modify the settings for each of the core functions. The **Data point integration** function displays under > for all core functions that a user role is allowed to access. Availability of all other **Tools** functions depends on the selected core function. For example, tools for managing graphics are available to user roles with access to **Tools** for the **Plant view**.	Only displays for user roles with access to **Tools** functions.
Settings	Allows you to manage email recipients and configure options for saving data to a server, integrating data points and managing alarms.	Depends on the user role and access to a core function.

3 Plant view

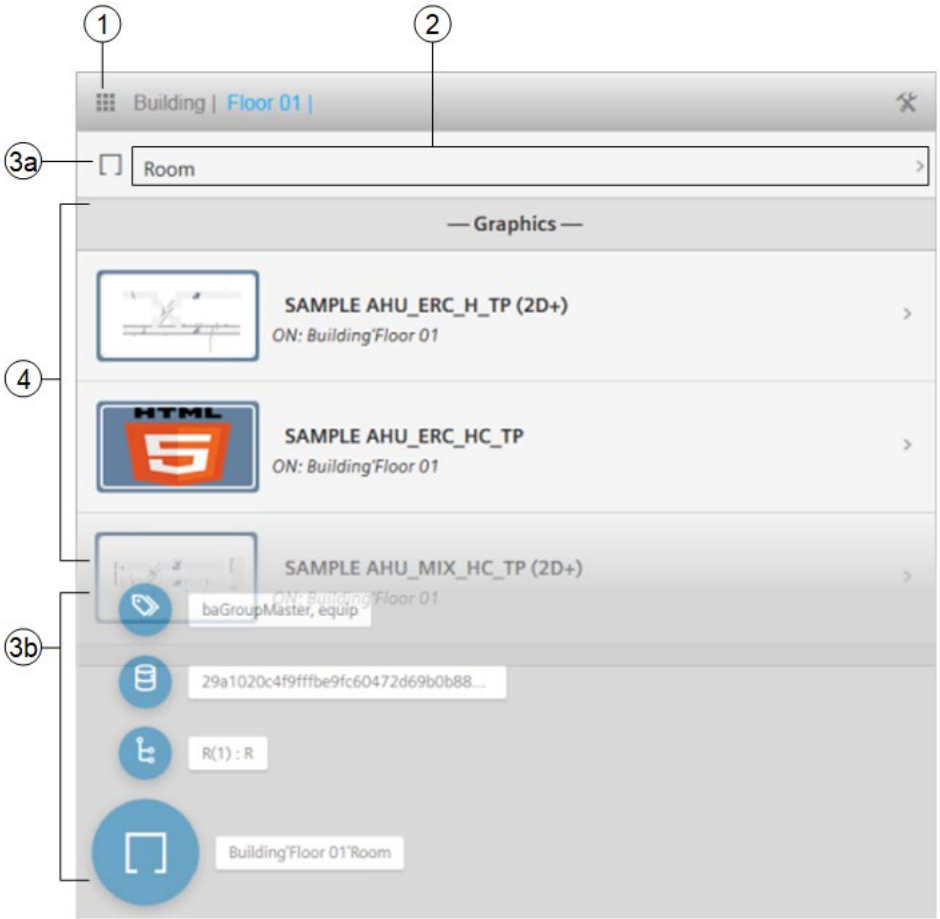
The **Plant view** core function provides custom graphical views that you can use to operate and monitor your facility.

This section discusses the following topics:

- Viewing the present value and current status of objects
  User interface [→ 18]
- Commanding objects [→ 20]

3.1 User interface

Graphics are saved in the **Graphics** list of the currently selected location in the building structure.



① **Root icon and breadcrumb navigation**

Click to clear the breadcrumb navigation list and only display building level graphics.

② **Additional navigation through the building structure**

Click the object name or › to navigate to graphics that are lower in the building structure.

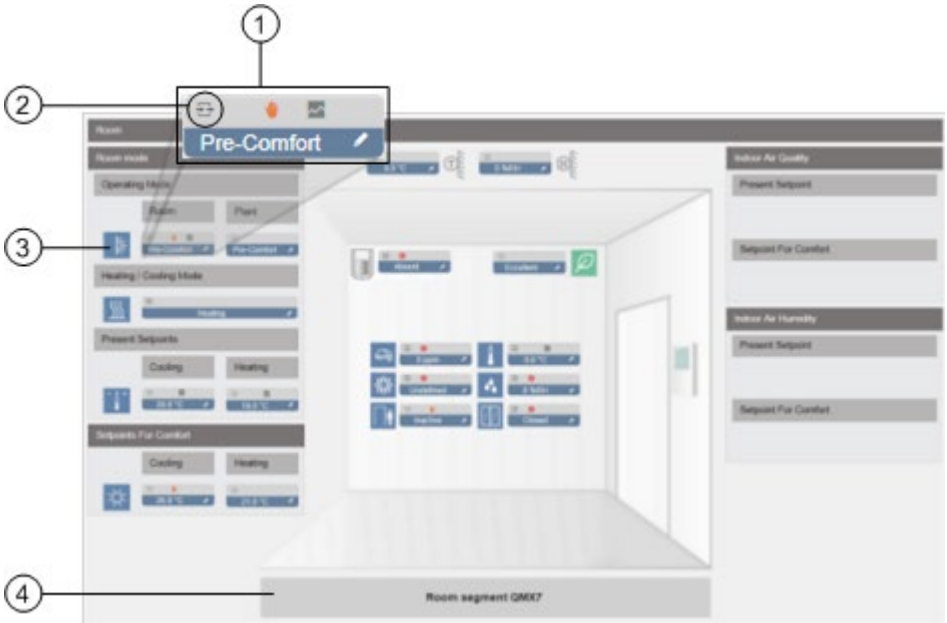
③ **Additional object properties**

Click the icon for the object (ⓐ), for example , to display additional object properties (ⓑ) that are used for engineering graphics.

④ **Graphics list**
Displays graphics and kiosks that can be viewed. A generic logo displays if a thumbnail image has not been assigned to the graphic or kiosk.
Click the thumbnail image or generic logo to display a graphic or kiosk.

Sample graphic user interface

The following figure shows the Siemens sample graphic for controlling a room.



① **Object label**
A label displays for each object in the graphic. Select the label to open the **Commander** dialog box for the object.
Icons at the top of the label indicate:

- The type of BACnet object represented.
- Value quality – indicates if an object is in **Fault** or in **Transition** to a new value.
- Operating mode – indicates if an object is **Overridden** or placed **Out of service**.
- Trend data collection status.
- Alarm state.

The present value of the data point displays at the bottom of the label.

② **Additional object properties**

Select the object icon, for example , to display additional object properties that are used for engineering graphics.

③ **Status icon**

Icons help you to quickly evaluate the operating status of an environment. For example, the operating mode for this room may display as **Protection** , **Economy** , **Pre-comfort** or **Comfort** .

④ **Link to related graphic**
Links to other graphics may be available to display related sections of the building structure.

3.2 Viewing the present value and current status of objects

▷ is selected in the core function pane.

1. Locate the desired graphic in the building structure and select the thumbnail image or name to display it.
2. To close the graphic, select another active item, such as a core function, or .

3.3 Commanding objects

The **Plant view** and **List view** core functions provide the same options for commanding objects. You can place objects **Out-of-service** or return them to **In service**, release objects from **Manual** control, and command objects to a new value.

Commanding objects

1. Display the graphic to use for commanding objects.
2. Select the object label to open the **Commander** dialog box.
3. Refer to the following figures and legend to complete the desired command.

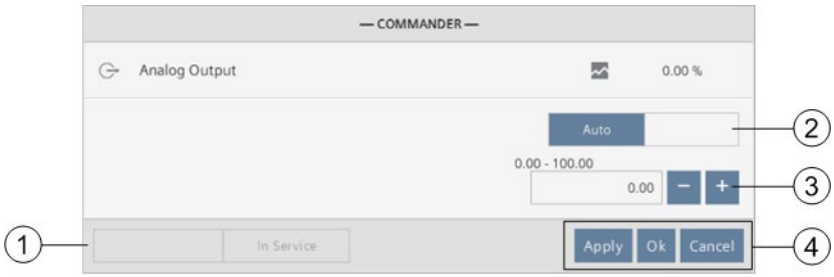


Figure 2: Commander dialog box for an Analog Object.

Figure 3: Commander dialog box for a Binary Object.

Figure 4: Commander dialog box for a Multistate Object.

① Commanding to Out-of-service / In service

The **Out-of-service / In service** toggle button displays for objects that can be placed out-of-service.

② Commanding to Auto / Manual

The **Auto / Manual** toggle button displays for objects with a BACnet priority array.

- If commanded to **Auto**, the slot in the object's priority array is cleared.
- If commanded to **Manual**, the object is commanded to the priority that has been assigned to the user role.
- If the toggle button is unavailable, check the integration status of the device and perform an integration, if needed.

③ Changing the value

Some objects must be placed out-of-service before the value is changed. In this case, select **Out of Service** (① in the figure) and then change the value.

- If minimum and maximum values have been defined for Analog objects, this range displays above the value field.
- If the object has an **Auto / Manual** toggle button, it is placed into **Manual** control.
- If the object has a priority array, it is commanded to the priority that has been assigned to the user role.

④ Command action buttons

- **Apply** saves your changes and keeps the dialog box open for further commands.
- **OK** saves your changes and closes the dialog box.
- **Cancel** closes the dialog box without applying any changes.

4 Alarms

The **Alarms** core function displays current and historical alarms and events. Users with the appropriate access can also acknowledge alarms and configure alarms settings.

This section discusses the following topics:

- User interface [→ 22]
- Viewing current alarms and events [→ 24]
- Viewing historical alarm events [→ 25]
- Acknowledging current alarms [→ 26] (for users with the appropriate access)
- Alarms tools [→ 27] (for users with the appropriate access)

4.1 User interface

The **Alarms** work area displays current alarm and event entries and unacknowledged alarms that have been received since the alarm history was last purged.

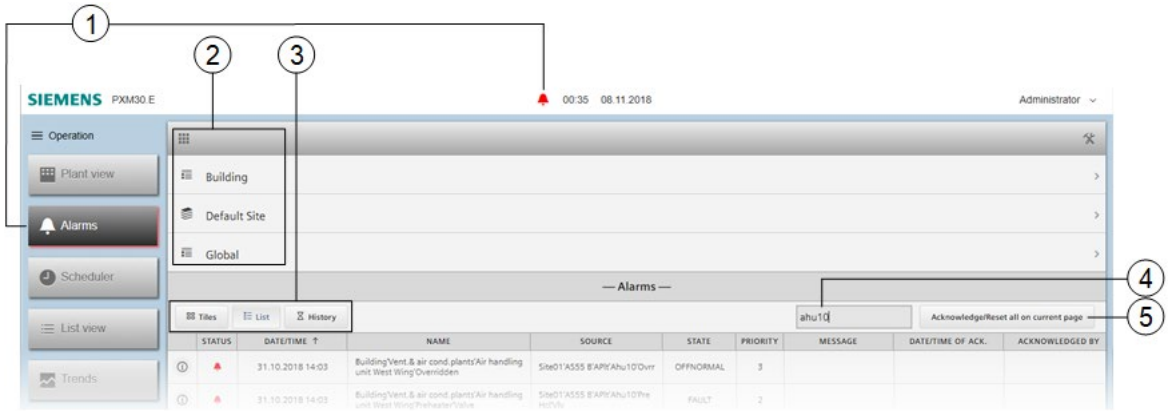


Figure 5: Heading for the Alarms core function.

① Alarm indicator

② Root icon and breadcrumb navigation

③ Work area views

④ Search field

⑤ Acknowledge/Reset or Acknowledge selected toggle button

① Alarm indicator

Setting	Description
Alarm indicator	Click to open the **Alarms** core function and display any pending acknowledgements for the currently selected building element.
Active or unacknowledged Alarms	• The **Alarms** button has a red shadow and displays in the status bar. • A red LED displays in the upper right corner of a touch panel (not shown).
No active or unacknowledged Alarms	• The **Alarms** button has a gray shadow and an alarm indicator does not display in the status bar. • A green LED displays in the upper right corner of a touch panel (not shown).

② Root icon and breadcrumb navigation

Setting	Description
Root	Click to clear the breadcrumb navigation list and display all alarm and event entries for all sites.
Breadcrumb navigation	• Navigate through the building structure to only display the alarms and events for the selected building element. • Select an item in the breadcrumb list to return to that level of the building hierarchy.

③ Work area views

Setting	Description
Tiles List	Select to display current alarms. Viewing current alarms and events [→ 24]
History	Select to display alarm history. Viewing historical alarm events [→ 25]

④ Search field

Setting	Description
Search	Displays the alarm and event entries that match the search string.

⑤ Acknowledge/Reset or Acknowledge selected toggle button

This button only displays if a user role has been granted access to acknowledge alarms and when an acknowledgment or reset is required.

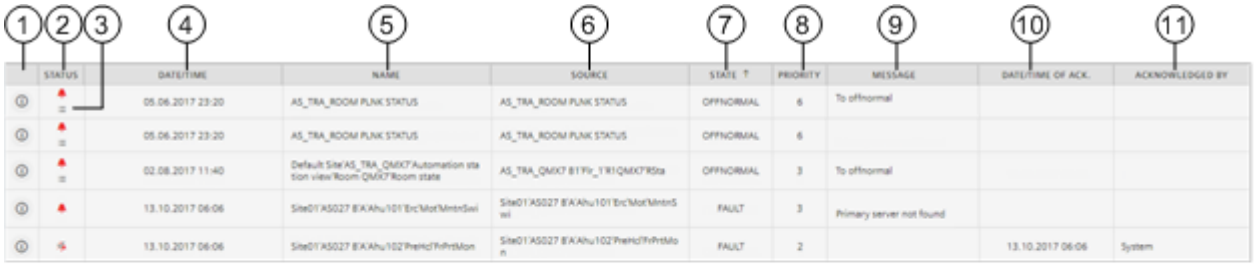
- An acknowledgement is required when an object is in a **Fault** or **OffNormal** state.
- A reset is required when an object in a **Normal** state requires an acknowledgement.

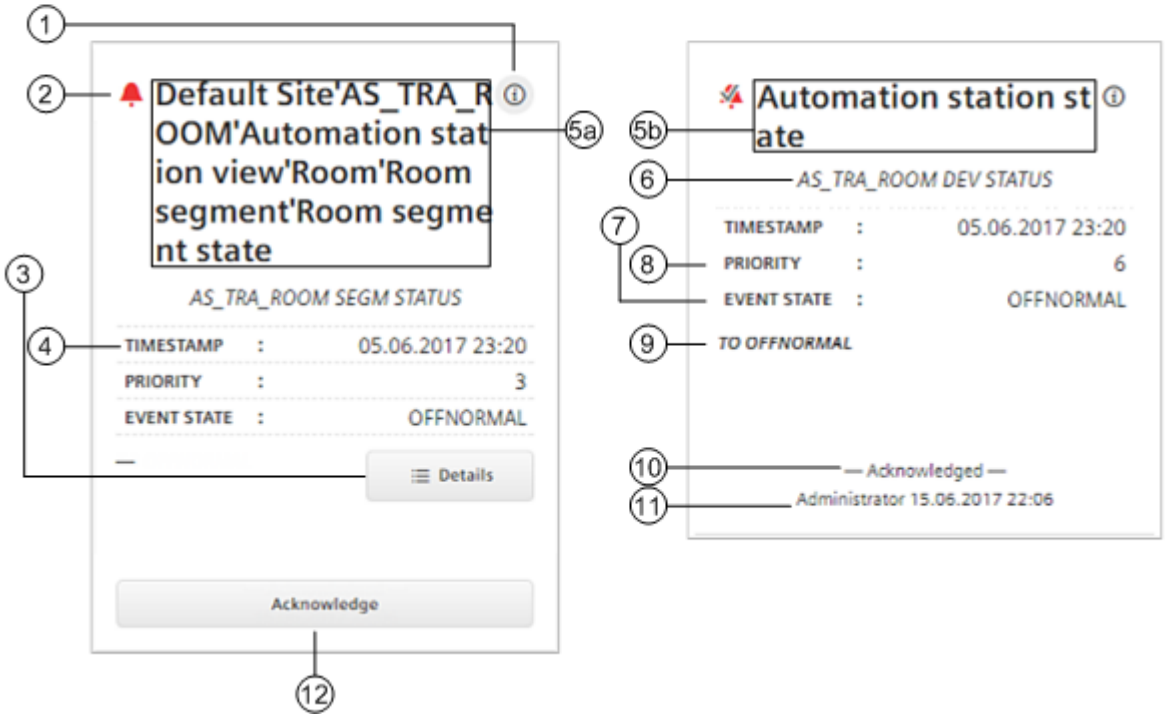
A *reset* is an acknowledgement for an object that went into alarm and then returned to the **Normal** state. The reset removes the notification. If an object is configured to automatically reset without user intervention, the notification never displays since user intervention is never required.

Setting	Description
Acknowledge/Reset all on current page	Click to acknowledge all alarms or events on the current page.
Acknowledge/Reset selected	Select one or more alarms in the **List** view and then click **Acknowledge/Reset selected**.

4.2 Viewing current alarms and events

- Current alarms can be displayed in a **Tile** view or **List** view (default).
- One tile or one row in the list displays an active alarm or event that requires acknowledgement.





① **information**

Displays additional information about the alarm or event transition. For more information, see the following table.

② **State indicator**
Indicator for the alarm state and acknowledge-required state.
State indicators

③ **Details**

If the alarm notification is from an aggregated event enrollment object, **Details** displays a list of the points referenced by the aggregated state information.

Click to display Faults, Aggregated information for Faults-Ext, Alarms and Unacknowledged events for the object.

④ **Date/Time**
Date and time of the alarm or event transition

⑤ **Name**
Name of the object in alarm.

ⓐ The building structure hierarchy displays for alarms received from integrated data points and from Desigo data points that are not integrated.

ⓑ Only the name of the object in alarm displays for alarms received from data points that are not integrated and from BACnet devices.

⑥ **Source**
Device name/Object name.

⑦ **Event state**
The BACnet alarm state.

⑧ **Priority**
Alarm or event priority.

⑨ **Message**
The alarm message that was defined in the alarm definition.

⑩ **Acknowledged date/time**
Time and date that the alarm or event was acknowledged.

⑪ **Acknowledged by**
User name that acknowledged the alarm or event.

⑫ **Acknowledge or Reset button** *(Tile view only)*
Only displays if a user role has been granted access to acknowledge alarms and when an acknowledgment or reset is required.

Additional alarm information

The following table outlines some of the alarm properties that are displayed when you click ⓘ. The properties displayed depend on the object type.

Property	Description
alarmState	The BACnet alarm state. For example, OFFNORMAL, HIGH_LIMIT, LOW_LIMIT, FAULT.
alarmText	The alarm message that was defined in the alarm definition.
eventType	The BACnet alarm or event type. For example, OUT_OF_RANGE.
notifyType	The BACnet notification type of ALARM or EVENT.
priority	The alarm or event priority
siteRefDis	Name of the highest level of the hierarchy where the object in alarm resides.
targetRefDis	Name of the object in alarm, including the building structure hierarchy. If the object in alarm is a data point, the **targetRefDis** and the **pointRefDis** are the same.
timeStamp	Date and time of the alarm or event transition

Table 3: Information dialog box.

4.3 Viewing historical alarm events

The **Alarms History** view displays the alarms, events and acknowledgments that have been received since the alarm history was last purged. If an alarm or event has been acknowledged, the information displays on a separate row in the table. To display alarms with their acknowledgements, sort the table on the **Source** column.

- Select ⧖ **History** to display a static view of the current alarm and event notifications.
- Select ⧖ **Refresh history** to refresh the display with new alarm, event or acknowledgement information.

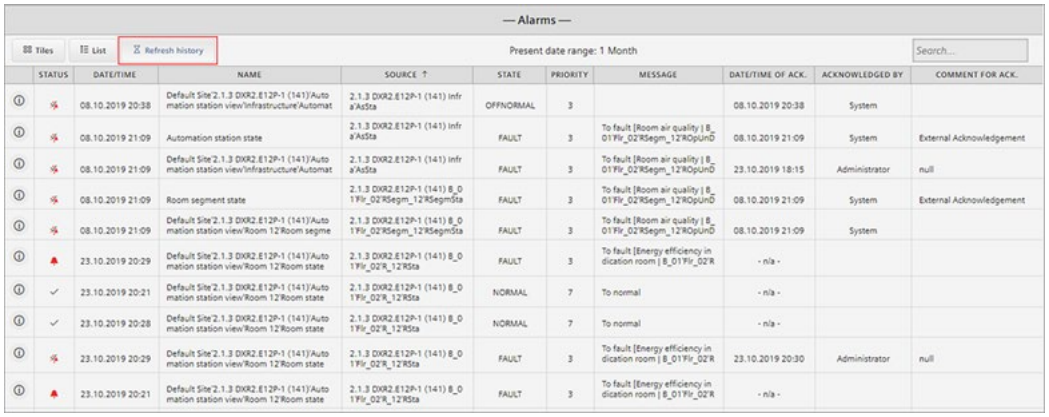
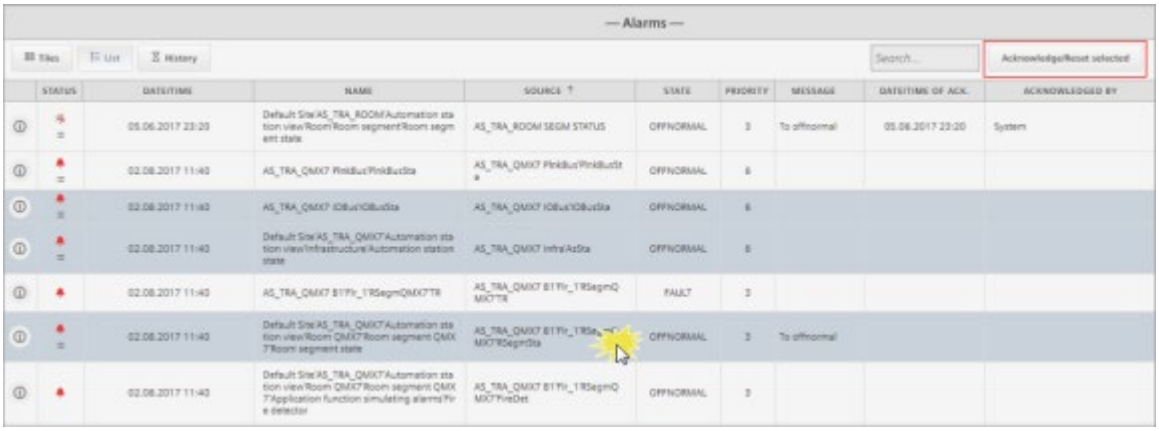


Figure 6: Alarms History view.

4.4 Acknowledging current alarms

User roles that have been granted access to acknowledge alarms have various options for acknowledging an alarm, which depend on the current work area view.

1. Select or to display current alarms and do one of the following:
   - Select **Acknowledge/Reset all on current page** to acknowledge all alarms or events on the current page.
   - Select a single alarm in the **Tiles** view and then select **Acknowledge/Reset**.
   - Select one or more alarms in the **List** view and then select **Acknowledge/Reset selected**.



2. *(Optional)* Enter an acknowledgement comment in the **Add comment** dialog box.

3. To send the acknowledgement to the device in alarm and save any related comments, select **Acknowledge/Reset**.

4.5 Alarms tools

Alarms tools are only available to users with the appropriate role assignment.

Filtering the alarms displayed

This procedure filters the **Alarms** displayed for your current session only. Once you log off, the display returns to the default configuration, which is outlined in the following table.

▷ is selected in the core function pane.

1. Select > > **Configure alarm view**.
2. Select one of the following to set filters:
   - for the **Tile** and **List** views
   - for the **History** view.
3. Use the following table to make selections in the **Configure alarm view** dialog box.
4. Click **Apply** to save the display settings.

Setting	Tiles/List description	History description
Date range drop-down list	All (default) Days Weeks Months Years	Days (default) Weeks Months Years
Priority	Priority or range of priorities where: • Entering a single priority (for example, **100**) only routes alarms or events of that priority. • Entering a range of priorities (for example, **1-255**) routes alarms or events within that range of priorities • Entering a selection of individual priorities (for example **100, 200, 255**) only routes alarms or events of these priorities. Default: 0-255	
State	The alarm state values displayed. Options are: • Acknowledged/Reset • Unacknowledged/Not reset • Alarm/Fault • Normal Default: All selected The logical operator for this setting is OR rather than AND. For example, if **Alarm/Fault** and **Unacknowledged/not reset** are selected, any Unacknowledged alarms that are not in Alarm or Fault (Normal), are displayed.	
Type	The type of alarm events displayed. Options are: • Alarms • Events Default: All selected	

Table 4: Configure alarm view dialog boxes.

4.6 Purging the alarm history

Access to manually purge the alarm history is only available to users with the appropriate role assignment.

!	*NOTICE*
	The alarm history purge can take up to 2 minutes. The **Alarms** display may not refresh while the system is purging old alarms. Users can continue to work in Desigo Control Point while the purge is taking place.

1. Select > > **Alarm history** > .
2. Click **Yes** to permanently delete the alarm history.

5 Scheduler

The **Scheduler** core function allows you to view and modify the weekly schedule and exceptions that override the schedule.

This section discusses the following topics:

- Viewing the **Scheduler** and **Calendar** objects in the database
  User interface [→ 29]
  Viewing Calendar objects [→ 36]
- Modifying a schedule [→ 31]
- Modifying the Schedule default [→ 33]
- Copying one day's activities [→ 33]
- Viewing and modifying **Exceptions**, which are used to override the weekly schedule
  Exception schedules [→ 34]

5.1 User interface

Scheduler objects are saved in the **Schedulers/Calendars** list of the currently selected location in the building structure.

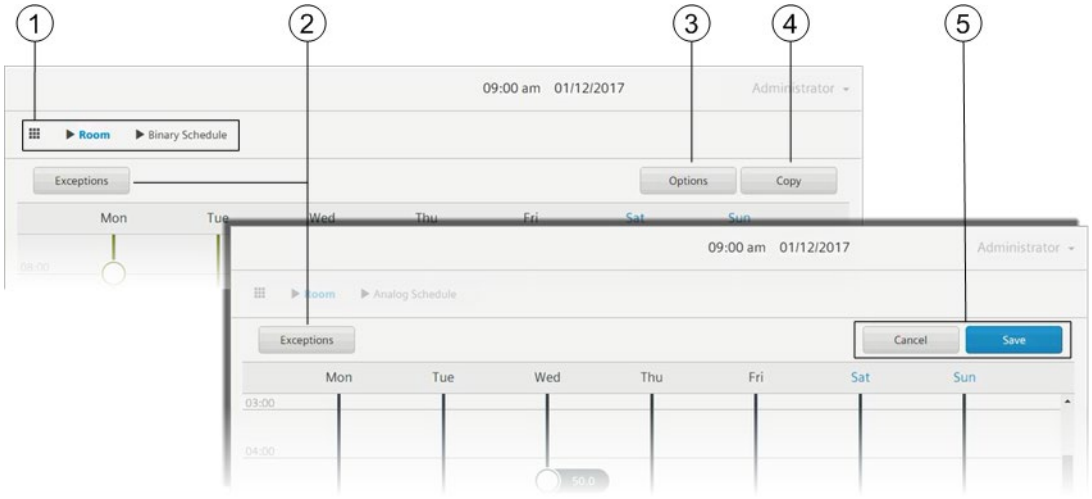


Figure 7: Heading for the Scheduler core function.

① **Root icon and breadcrumb navigation**

- Click to clear the breadcrumb navigation list and display the top level of the building structure.
- Select an the item in the breadcrumb list to return to that level of the building structure.

② **Exceptions / Schedule toggle button**
Tap to toggle the display between the **Schedule** and **Exceptions** calendar views. Exceptions are used to override the weekly schedule.

③ **Options button**
Modifies the **Schedule default** value.

④ **Copy button**
Copies the activities from one day to one or more other days in the weekly schedule.
Copying one day's activities [→ 33]

⑤ **Cancel and Save buttons**
Changes made in the **Scheduler** core function are not automatically saved. Any changes are lost if you navigate to a different work area in the **Scheduler** or to a different core function without saving.

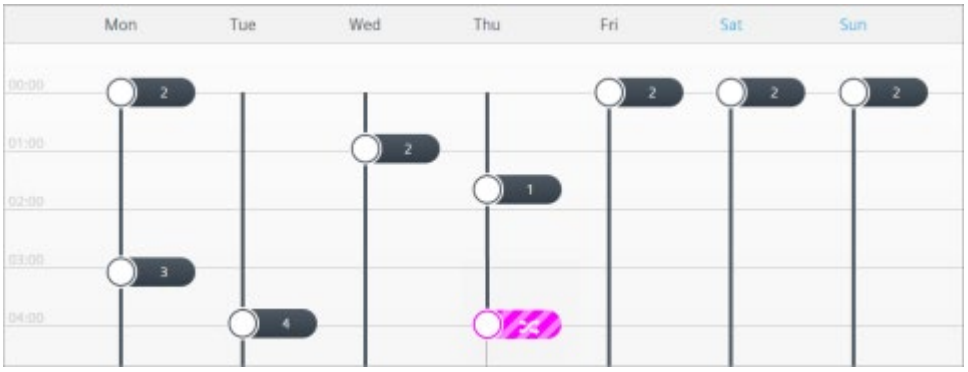
- **Save** is highlighted when there are unsaved changes.
- Tap **Cancel** to discard all changes made since the last save.

Work area views

A *switching point* displays in the work area to indicate the time for a change of value (analog object) or setting (binary or multistate object).

Analog object schedule

- Switching points display the value to which the referenced object(s) will be commanded.
-  indicates a switching point that returns to the **Schedule default.**



Binary or multistate object schedule

- The color of the switching point indicates the setting to which the referenced object(s) will be commanded.
-  indicates a switching point that returns to the **Schedule default.**

5.1.1 Viewing Scheduler objects

▷  is selected in the core function pane.

1. Locate the desired **Scheduler** object in the building structure.
2. Select  to display the schedule in the work area.

5.1.2 Modifying a schedule

This section outlines the following procedures for modifying a schedule:

- Adding a switching point
- Modifying the time of a switching point
- Using the expanded modification controls
  - Modifying the time
  - Deleting a switching point
  - Changing the current value or setting
  - Returning the object to the **Schedule default**

Adding a switching point

Use this procedure to add a new change of value or setting to the schedule.

1. Long press on the day and time where the switching point is needed.
   ⇨ A new switching point displays.
2. *(Optional)* Use the up-and-down arrows to adjust the time in one-minute increments.

3. Tap **Save** to save the new switching point to the database.
   Note
   Tapping **Cancel** discards all changes made since the schedule was last saved.

Modifying only the time of a switching point

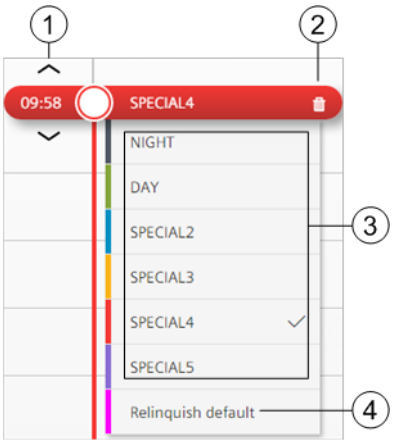
Use this procedure to change the time of a switching point.

1. Drag the switching point to the desired time. Use the up-and-down arrows to adjust the time in one-minute increments.
   ⇨ The time adjustment controls automatically close after five seconds of inactivity.
2. Tap **Save** to save the new switching point time.
   Note
   Tapping **Cancel** discards all changes made since the schedule was last saved.

Using the expanded modification controls

1. Tap the switching point to open the switching point widget.
   ⇨ The widget heading displays the current switching point time and the current value or setting.
2. Refer to the following figures and legend to complete the desired procedure.
3. Tap **Save** to save your modifications.
   Note
   Tapping **Cancel** discards all changes made since the schedule was last saved.

Expanded analog switching point widget.



Expanded binary or multistate switching point widget.

① **Modify the time**
Drag the switching point to the desired time. Use the up-and-down arrows to adjust the time in one-minute increments.

② **Delete the switching point**

Tap to remove the current switching point from the database.

③ **Command controls**
Enter a new value (analog object) or select a new setting (binary or multistate object). For analog objects, the minimum / maximum range for the object displays above this field.

④ **Return to default**
Select **Return to default** to return the object to the **Schedule default**. For more information, see the Modifying the Schedule default [➞ 33] section.

5.2 Modifying the Schedule default

The **Schedule default** is the value to which the schedule controls the referenced object when either of the following situations occurs:

- A switching point is not in control. This would happen on any day during the period of time before the first switching point is scheduled to occur.
- A switching point's value is set to **Return to default**. For more information, see the switching point widget examples in the Using the expanded modification controls [→ 32] section.

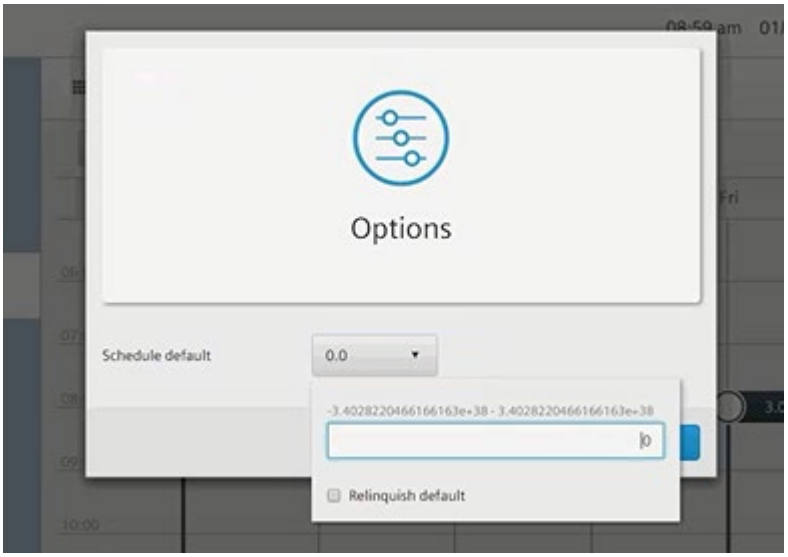
Modifying the Schedule default

Use this procedure to modify the default value or setting for switching points that are added to the schedule.

▷ A schedule is displayed in the work area.

1. Tap **Options** in the heading.

   ⇨ The **Options** dialog box displays the current **Schedule default**.



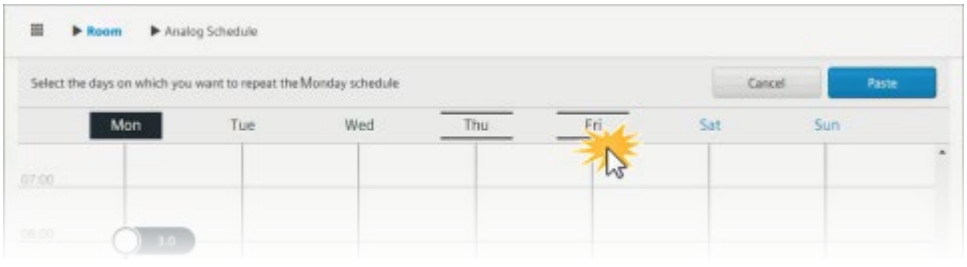
2. Tap the drop-down list to enter a new default value (analog object) or select a new default setting (binary or multistate object).
3. If the schedule should not attempt to control the referenced object(s) when a switching point is not in control or when a switching point's value is set to **Return to default**, select **Return to default** in the drop-down list.
4. Tap **OK** to save changes to the database.

5.3 Copying one day's activities

Use this procedure to copy the activities of one day to other days in the weekly schedule.

1. Tap **Copy**.
2. Select the day to be copied and tap **Next**.

   ⇨ When in a reduced weekly view, the currently selected day is automatically selected.
3. Tap to select the day(s) on which the schedule should repeat and then tap **Paste**.



⇨ The activities are added to the schedule and saved to the database.

5.4 Exception schedules

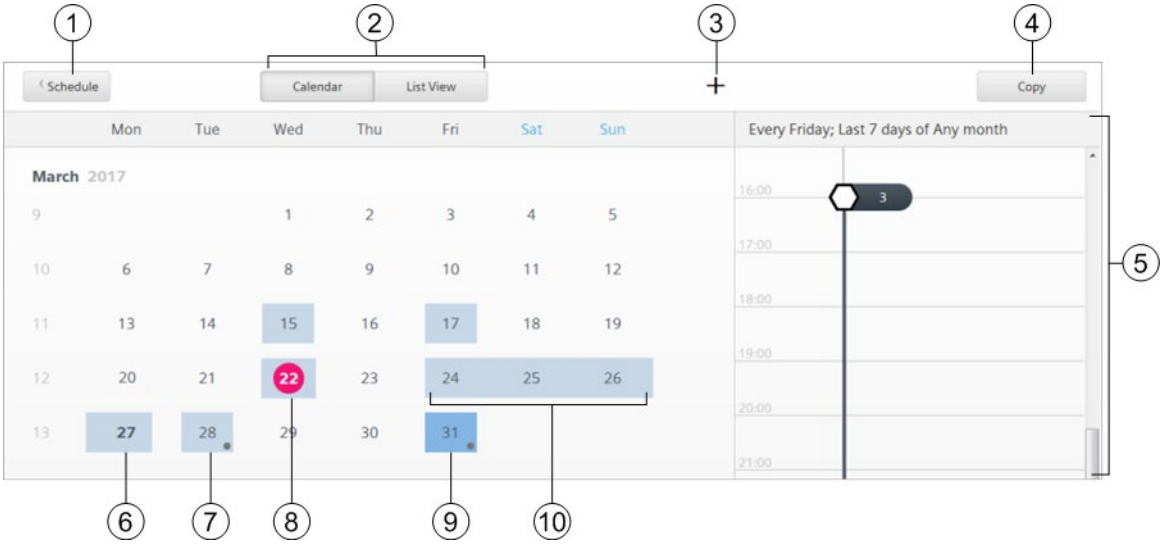
Exception schedules are used to manage deviations from the weekly schedule.

- When working online, exception dates can be added directly to the **Scheduler** object.
- Exception dates can also be added by referencing a **Calendar** object that manages a group of dates that share a specific exception profile, such as holidays. The Calendar object is then referenced in the **Scheduler** object.

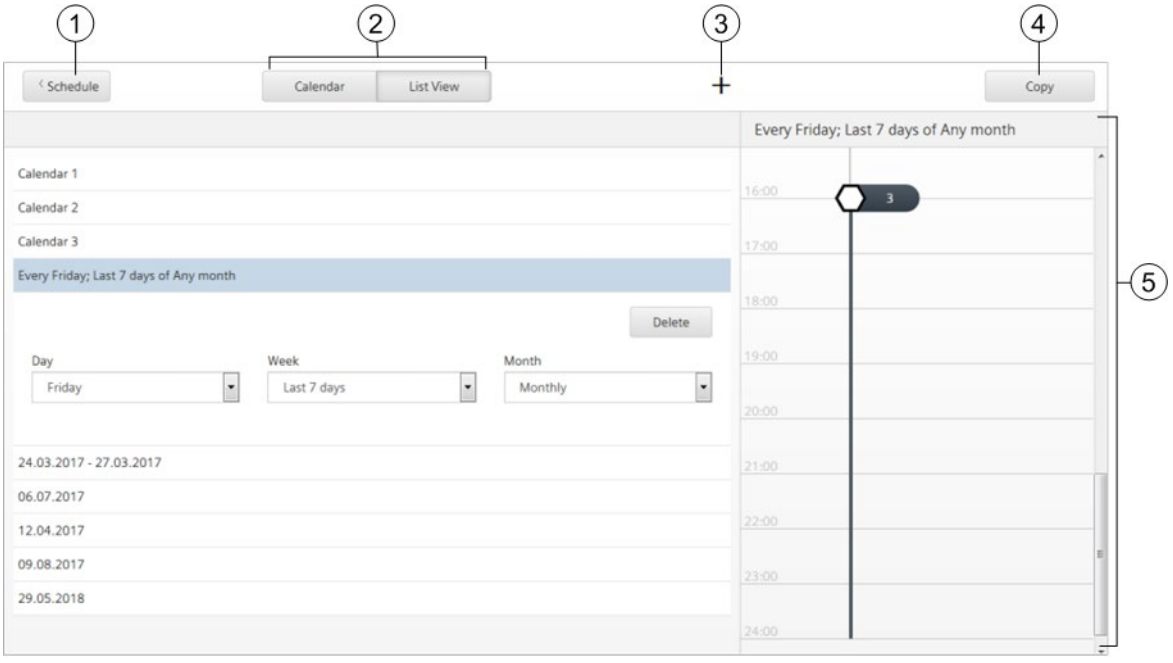
  Note
  A reference from a Scheduler object to a Calendar object cannot be added or deleted online. The device must be reconfigured to add or remove the reference to the Calendar object.

5.4.1 Viewing exceptions for a Scheduler object

1. Display the desired **Scheduler** object in the work area.
2. Tap **Exceptions** to display a calendar view of exceptions for the current month.



3. To display a list of all exceptions for the schedule, tap **List view**.



① **Schedule button**
Tap to return to the weekly schedule.

② **Calendar and List View buttons**
Tap to display the desired view.

③ **Add button**

- To quickly add a **Date** exception, long press on the date in the calendar view.
- Tap + to add a **Date, Date range**, **Weekday** or **Recurring** exception.

④ **Copy button**

- Copies the currently selected exception and creates a new date exception.
- Only displays when an exception is selected.

⑤ **Profile pane**

- Displays the description and time details of the selected exception.
- The **Profile** pane displays next to the **Calendar** or **List** view when the screen width is sufficient. To display the profile when the screen is compressed, tap the date in the **Calendar** view or select an exception and tap **Profile** in the **List view**.

⑥ **Multiple exceptions**
A bold date indicates there are multiple exceptions on the same date.

⑦ **Recurring exception**
A dot displays on the date of recurring exceptions.

⑧ **Current date**
Indicated with a circle.

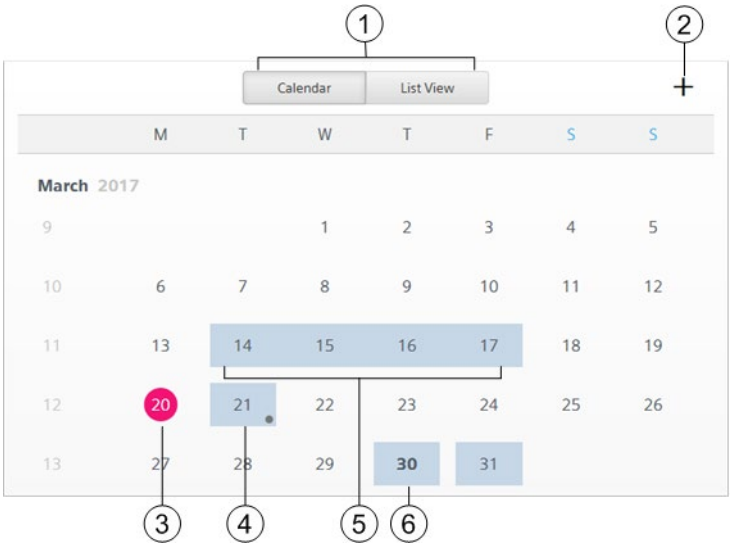
⑨ **Selected exception**
Indicated with darker shading.

⑩ **Date range exception**
Indicated with a continuous shaded bar over several days.

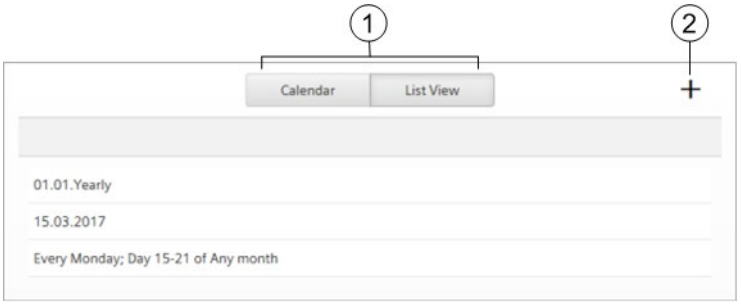
5.4.2 Viewing Calendar objects

Calendar objects are used to manage a group of dates that share a specific exception profile, such as holidays. **Calendar** objects are saved in the **Schedulers/Calendar** list of the currently selected location in the building structure.

1. Locate the desired **Calendar** object in the building structure.
2. Select to display the calendar in the work area.



3. To display a list of all exceptions for the calendar, tap **List view**.



① **Calendar and List View buttons**
Tap to display the desired view.

② **Add button**
- To quickly add a **Date** exception, long press on the date in the calendar view.
- Tap + to add a **Day, Date range**, **Weekday** or **Recurring** exception.

③ **Current date**

④ **Recurring exception**
A dot displays on the date of recurring exceptions.

⑤ **Date range exception**

⑥ **Multiple exceptions**
A bold date indicates there are multiple exceptions on the same date.

5.4.3 Managing exception schedules

Use the procedures in this section to manage exception schedules. All modifications are reflected in the Schedule(s) that reference the Calendar object.

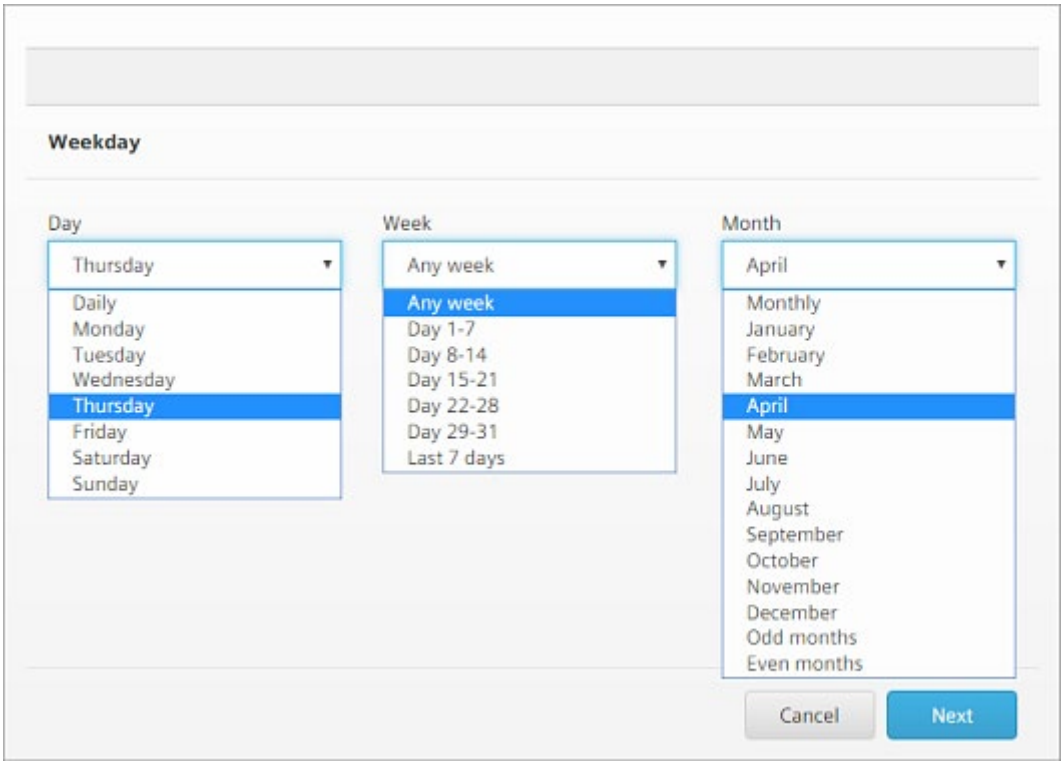
Quickly adding a Date exception

1. Display the desired **Scheduler** object in the work area and tap **Exceptions**.
   ⇨ The calendar view is displayed.
2. Long press on the date for the exception.
   ⇨ An exception profile pane displays for the newly created **Date** exception.
3. Long press on the time for the exception to add a switching point widget.
4. If necessary, use the up-and-down arrows to adjust the time.
5. Tap **Save** to add the exception to the database.

Adding a Date, Date range, Weekday or Recurring exception

Note
Calendar references cannot be added online. The device must be reconfigured to add the reference to the Calendar object.

1. Display the desired **Scheduler** object in the work area and tap **Exceptions**.
   ⇨ The calendar view is displayed.
2. Tap + in the upper right corner of the calendar.
   ⇨ The **Add new exception** dialog box displays
3. From the **Type** drop-down list, select **Date**, **Date range**, **Weekday**, or **Recurring** and tap **OK**.
4. Do one of the following:
   – For **Date** or **Date range**, enter the desired date(s).
   – For **Weekday** or **Recurring**, select the desired values from the drop-down lists.



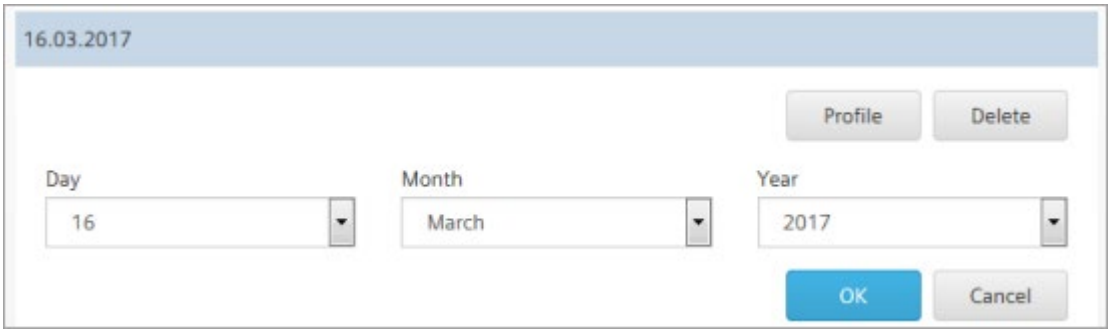
5. Tap **Next**.
   ⇨ An exception profile pane displays for the newly created exception.
6. Long press on the time for the exception to add a switching point widget.
7. If necessary, use the up-and-down arrows to adjust the time.
8. Tap **Save** to add the exception to the database.

Deleting an exception

Note

- References to **Calendar** objects cannot be deleted online. Reconfigure the device to remove the reference to the **Calendar** object.
- Individual dates from a referenced **Calendar** object cannot be deleted directly from the **Schedule's** exceptions list. It must be deleted from the **Calendar** object.

1. Locate the **Calendar** object that contains the exception to be deleted.
2. Select  and tap **List view** to display all exceptions for the schedule.
3. Tap the exception to delete.
   ⇨ The editing view is displayed.



4. Tap **Delete** and then tap **Delete again** to confirm the action.

6 List view

The **List view** core function provides a customized data point list that allows you to efficiently access the important data points in the system.

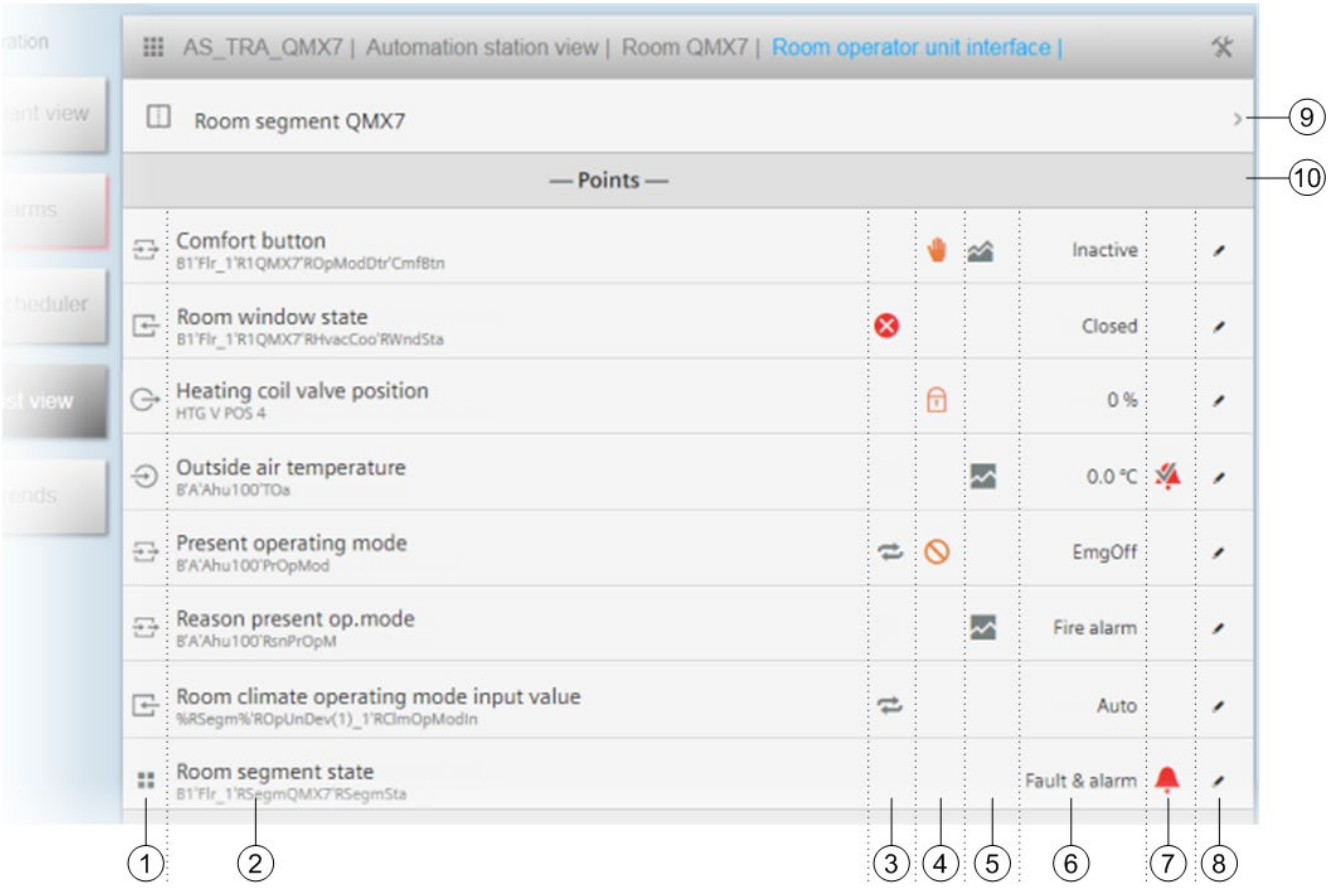
This section discusses the following topics:

- User interface [→ 39]
- Viewing additional data points [→ 41] (for users with the appropriate access)
- Commanding objects [→ 42]

6.1 User interface

The following figure outlines the information displayed in the **List view** work area.

Navigate through the building structure to display the present value and current status of objects.



① **Object type**
Icons represent the type of BACnet objects associated with a building, floor, room, or mechanical equipment.
Icons [→ 13]

② **Object display text**
Identifies the control data point. If a **Description** has been entered for the object, the description is displayed with the **Object name** below it. If the **Description** field is blank, only the **Object name** displays.

③ **Value quality**
Indicates if an object is in **Fault** or in **Transition** to a new value. For example, the value quality for a Blind object is **Transition** while the blinds are in the process of raising or lowering.
State indicators [→ 14]

④ **Operating mode**
Indicates if an object is **Overridden** or placed **Out of service**.
State indicators [→ 14]

⑤ **Trend data collection indicator**

Indicates if a trend collection is defined for the object and whether the data is being collected **online** through Desigo Control Point or **offline** by an end device. Collected data is displayed in the **Trends** core function.

Trends [→ 43]

⑥ **Present value**
Present value of the data point.

⑦ **Alarm state indicator**
State indicators [→ 14]

⑧ displays if an object can be commanded to a new value, placed **Out-of-Service**, returned to **In Service**, or released from **Manual** control.

⑨ **Additional navigation through the building structure**

Click › to navigate to data points that are lower in the building structure.

⑩ **Data point list**
Data points located at the currently selected level of the building structure.

Display of structured objects

As shown in the following figure, structured objects, such as blinds, are displayed as separate objects with an individual **Value quality**, **Operating mode**, and **Alarm state** for each component of the structured object.

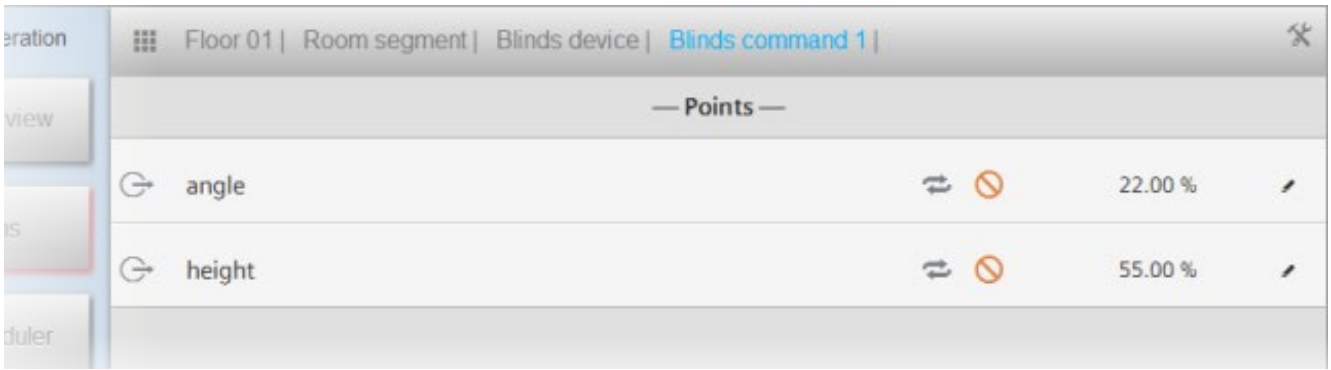


Figure 8: Example display of a structured object.

6.2 Viewing additional data points

In order to maximize the number of devices that can be monitored, only a select group of data points is integrated to Desigo Control Point. Data points that are not displayed in the **List view** can be accessed through the generic data point list in the Setup & Service Assistant without being integrated to Desigo Control Point.

For user roles with the appropriate access, do the following to access data points through the generic data point list:

1. From any core function (for example, **List view** or **Alarms**), select **> Setup & service**.

⇨ Additional data points at the same location in the hierarchy are displayed.

The navigation for each system depends on the devices being used. The data displayed on your system may look different than what is shown in this manual.

Desigo primary and room controllers

- When navigating from Desigo Control Point to SSA:
  - The same node is displayed in the SSA **Application** view if there is an exact match in the hierarchy.
  - The last found hierarchy in the path is displayed if there is not an exact match.
  - The root of the **Application** view is displayed if there is no match in the path.
- When navigating from SSA to Desigo Control Point the last selected node is displayed.

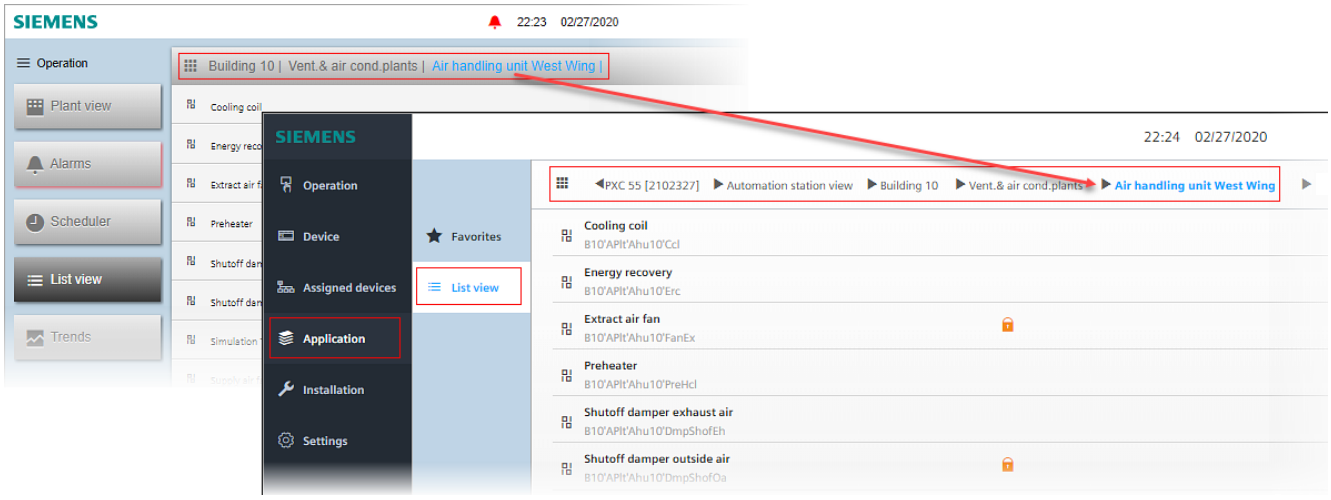


Figure 9: Navigating to SSA from the building hierarchy.

BACnet/IP devices

- When navigating from Desigo Control Point to SSA:
  - The last found hierarchy in the path is displayed if there is not an exact match.
  - The root of the **Assigned devices** view is displayed if there is no match in the path.
- When navigating from SSA to Desigo Control Point the last selected node is displayed.

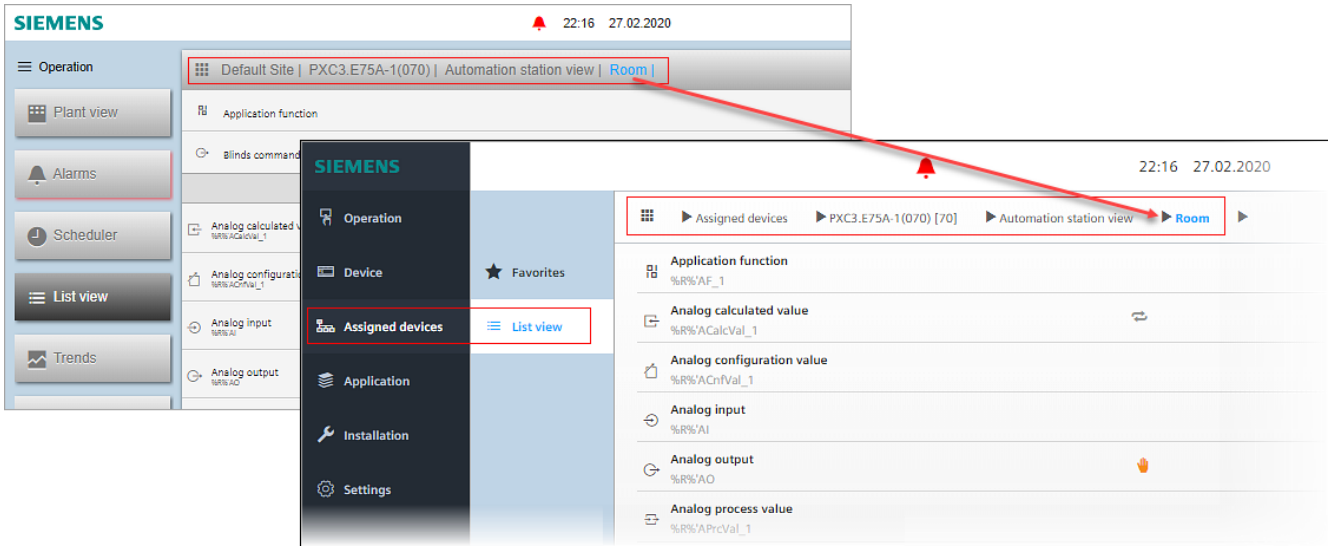


Figure 10: Navigating to SSA from the Default Site hierarchy.

6.3 Commanding objects

The **Plant view** and **List view** core functions provide the same options for commanding objects. You can place objects **Out-of-service** or return them to **In service**, release objects from **Manual** control, and command objects to a new value.

Commanding objects

▷ is selected in the core function pane.

1. Navigate through the structure to display the desired objects.
2. Click to open the **Commander** dialog box for an object.
3. See the figures in the **Plant view** section for an example of each type of command.
   Commanding objects [→ 20]

7 Trends

The **Trends** core function displays trended data in a chart or table format and allows you to export trend data. Users with the appropriate access can also add, edit and remove data points from online trended objects. Desigo Control Point supports both online and offline trends.

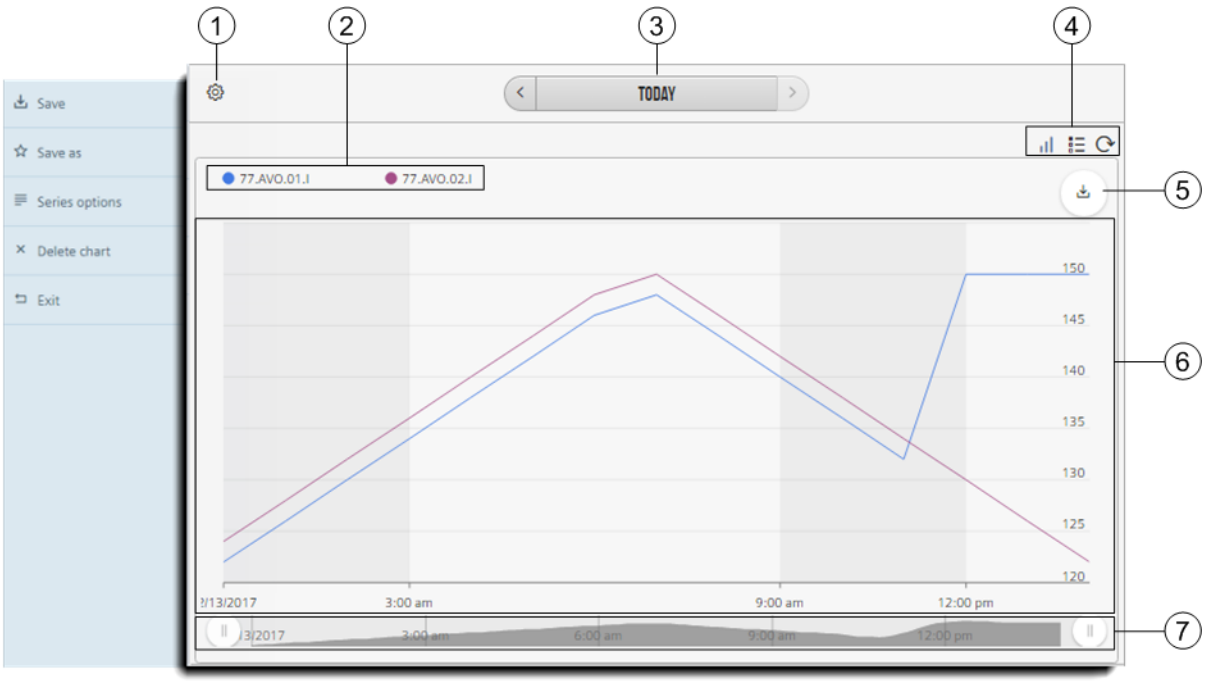
- For *online* trends, the Desigo Control Point device collects the trend data.
  - Trend data for each object can be collected by both timed interval and change-of-value (COV).
  - The total number of trend definitions allowed is limited by the device type.
- For *offline* trends, the Desigo Control Point device retrieves data stored in the remote device's trend objects.

This section discusses the following topics:

- Viewing trended data in a chart or table format
  User interface [→ 43]
- Saving chart views
  Options for saving chart views [→ 46]
- Exporting trend data as .csv or .json [→ 47]
- Customizing the colors, chart type and interval of time for a chart, and moving a sample set from one chart to another
  Managing the chart series options [→ 48]
- Using the **Trends** tools (for users with the appropriate access):
  - Exporting trended data to an FTP server or email recipients [→ 51]
  - Adding a trend definition [→ 52] (for online trended objects)
  - Editing a trend definition [→ 54] (for online trended objects)
  - Adding a chart view [→ 53]
  - Removing a trend definition and archiving data [→ 54] (for online trended objects)

7.1 User interface

The **Trends** work area displays a chart view of the samples collected for a trended object.



① **Settings for the displayed chart**

Select **Settings** to display or hide the **Chart View Settings** menu.

- **Save** saves the chart to the currently selected location in the building structure.
  Options for saving chart views [→ 46]
- **Save as** saves the chart with a different name.
- **Series options** customize the chart type, chart colors, etc.
  Managing the chart series options [→ 48]
- **Delete chart** deletes the currently displayed chart. This does not affect the related trend definition.
- **Exit** closes the chart.

② **Chart legend**
Outlines the colors used to plot the trended data for each object in the chart.
Changing chart colors [→ 51]

③ **Date range selector**
Trended data can be displayed by the **Day**, **Week**, **Month**, or **Year**.

- The default display is **Today**.
- Click the center of the **Date range selector** to display a calendar for selecting other timeframes.
- Select < to display the previous timeframe or select > to display the next timeframe.

④ **Chart view / Table view and Refresh buttons**

- Select **Chart** or **Table** to change the format of the displayed data. The default view is a chart.
- Select **Refresh** to update the trend data used for the chart.

⑤ **Manual export button**

Click to export trend data as **.csv** or **.json**.

Exporting trend data as .csv or .json [→ 47]

⑥ **Charted data**

- If multiple objects are selected from a single device, trend data with the same unit of measure displays in a single chart.
- If multiple objects are selected from multiple devices, trend data is grouped by device and unit of measure.

⑦ **Chart timeline selector**

Move the **Timeline** buttons to change the time period of data displayed across the x-axis. In this example, the full timeline is displayed. To focus on the data collected between 3:00 am and 9:00 am, you would move the left to 3:00 am and move the right to 9:00 am.

7.2 Viewing a chart and analyzing trends

The trend chart can only display a certain number of samples when the full timeframe is displayed. Use this procedure to display a larger number of samples and perform a detailed trend analysis. For example, to find peaks in the data.

▷  is selected in the core function pane.

1. Locate the desired chart view in the building structure and select it to display the trended data.
2. If desired, select an object in the legend to temporarily hide its trended data.
   ⇨ The graph for the selected object is removed from the displayed chart.
   ⇨ The object name and its corresponding color display dimmed in the legend.
3. To redisplay the trended data for hidden objects, select the object in the legend again.
4. Move the **Timeline**  buttons to zoom in to a smaller timeframe.

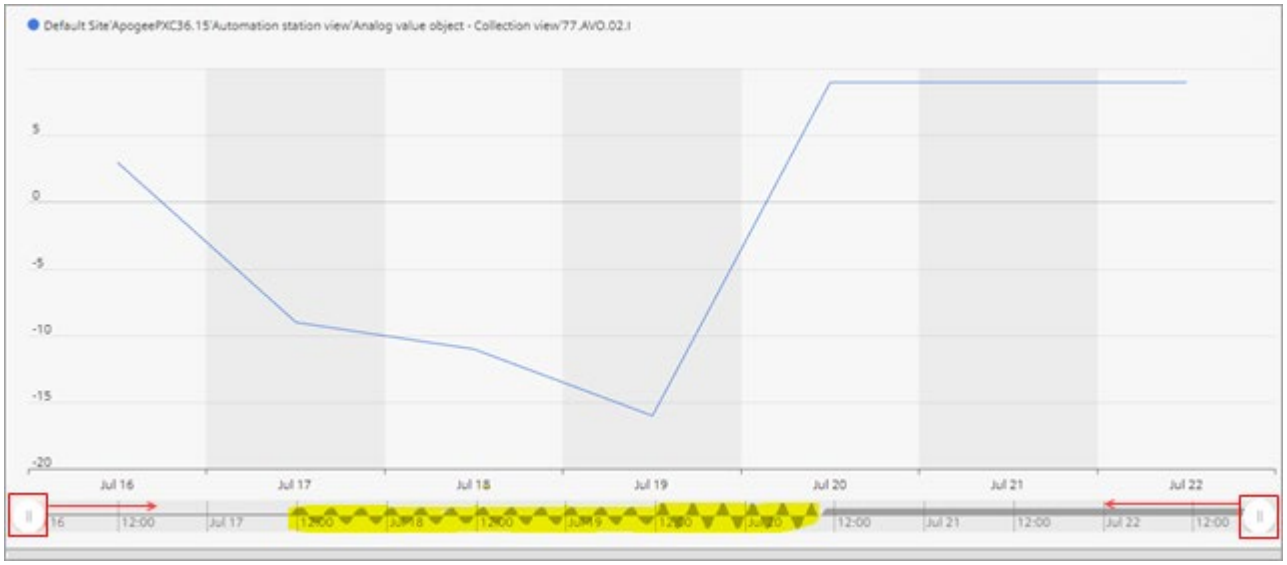


Figure 11: Full timeframe displayed.

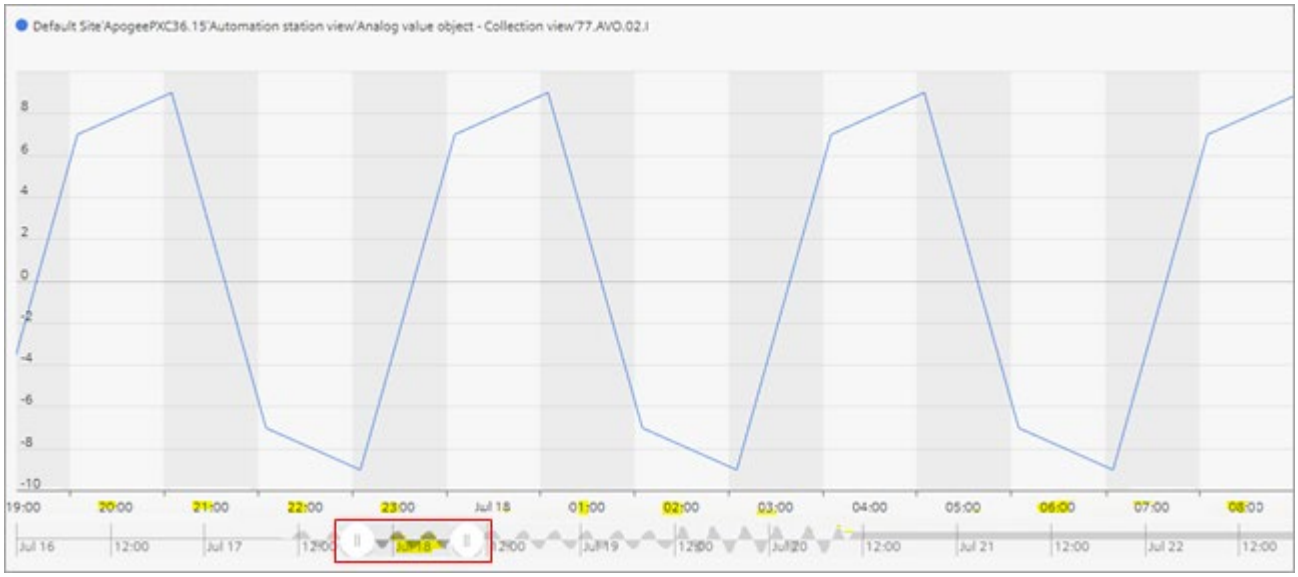


Figure 12: Timeframe restricted to one day.

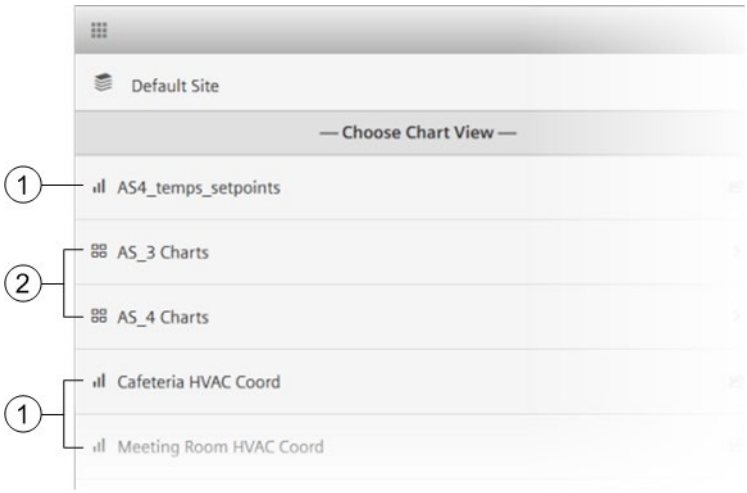
5. Change the date range selector to a smaller timeframe. For example, from **Month** to **Week** or **Day**.
6. Select **Chart** or **Table** to change the format of the displayed data.
7. For chart views containing analog data, adjust the **Convolution** property in the **Series settings**.
   Managing the chart series options [→ 48]

7.3 Options for saving chart views

Chart views are saved in the **Choose Chart View** list of the currently selected location in the building structure.

By default, **chart views** are saved in the **Choose Chart View** list at the currently selected location in the building structure. If desired, you can create **folders** in the **Choose Chart View** section for saving chart views.

Note
If you delete all the chart views in a folder, the folder is also deleted.



① Chart views saved at the currently selected location in the building structure.
② Folders that contain chart views.

Saving chart views to the currently selected location in the building structure

Prerequisite
A chart view has been created.
Adding a chart view [→ 53]

1. Navigate to the building structure location where you want the chart to reside.
2. Select in the upper left corner of the chart and then select in the **Chart View Settings** menu.
   – Type a name for the chart view in the field at the top of the dialog box.

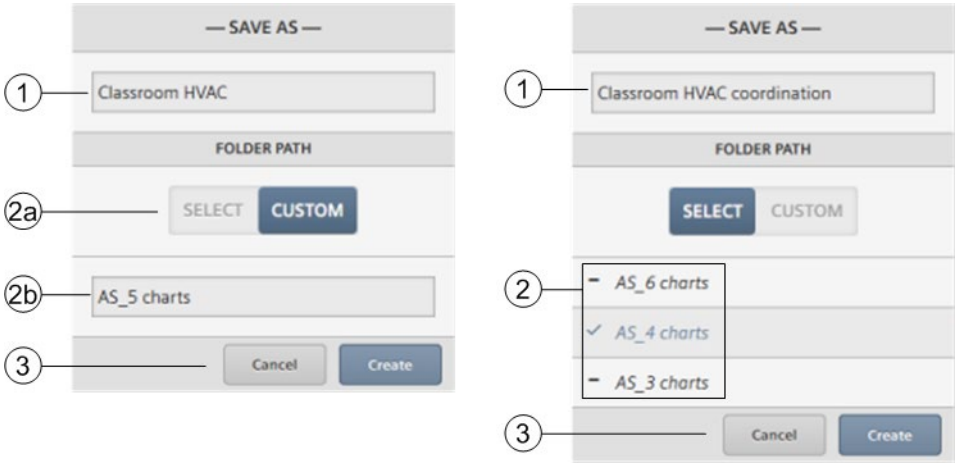
   – Click **Create** to save the chart view.

Saving chart views to a folder

Prerequisite

A chart view has been created.
Adding a chart view [→ 53]

1. Navigate to the building structure location where you want the chart to reside.
2. Select ⚙ in the upper left corner of the chart and then select ⬇ in the **Chart View Settings** menu.
3. Refer to the following figures to complete the remaining steps.



① Type a name for the chart view.

② Do one of the following:
- Click **Custom** (ⓐ) to save the chart view to a new folder and then type a name for the folder (ⓑ).
- Select an existing folder in the list.

③ Click **Create** to save the chart view.

7.4 Exporting trend data as .csv or .json

Use this procedure to export the trend data as a **.csv** or **.json** file.

Exporting trend data as .csv or .json

Prerequisite

For online trended objects, the trend definition must be created.
Adding a trend definition. [→ 52]

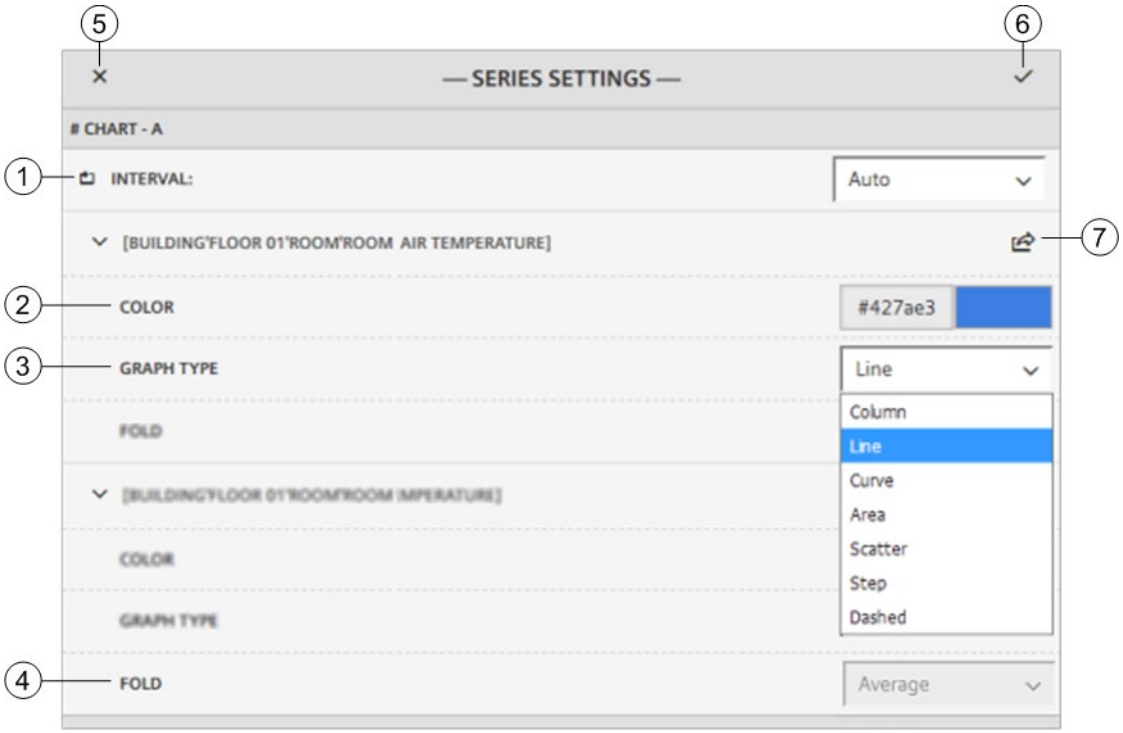
1. Click ⬇ and then select the file type.
2. The data is prepared for download with a file name in the following format:
   YYYY_MM_DD_HH_MM_SS_Chart with the extension **.csv** or **.json**
   (That is, the current **Year**, **Month**, **Day**, **Hour**, **Minute**, **Second**, based on the computer date and time.)
3. To save the data export to your local computer, click **Save**.

7.5 Managing the chart series options

This section outlines the options for customizing chart views, such as the chart type or color.

▷ is selected in the core function pane.

1. Locate the desired chart view in the building structure and select it to display the trended data.
2. Select > to display the **Series Options** dialog box.
3. Select to the left of an object name to display the series options for that object.



① **Interval**
For chart views containing analog data, this property defines the time interval for the x-axis division points. The default is **Auto**.

- When **Auto** is selected, the chart view determines the interval based on the sample data.
- When a different interval is selected, such as **1 hour**, the tic marks on the x-axis are labeled for the selected interval.

② **Color**
Defines the color used to plot the trended data for an object.

③ **Chart type**
Defines the format of the chart. The following figure shows an example of each chart type.
Chart view example [→ 49]

④ **Convolution**
For chart views containing analog data, this property works in conjunction with the **Interval** to perform logic on the sampled data. The result of this logic is displayed on the chart. **Convolution** is only available when **Interval** is not set to **Auto**. For example, if Interval is set to **1 hour** and **Convolution** is set to **Average**, the chart view displays the average of the samples taken each hour.

⑤ **Cancel**

Closes the **Series options** dialog box without applying any changes.

⑥ **Save**

Saves the selected **Series options** to the database and closes the dialog box..

⑦ **Group series**
Moves a sample set from one chart to another.
Moving a chart [→ 50]

Chart view example

The following example outlines the **Interval**, **Color**, and **Chart type** properties for a chart view.

① **Interval**
For chart views containing analog data, this property defines the time interval for the x-axis division points.

② **Color**
Outlines the colors used to plot the trended data for each object in the chart.

③ **Chart type**

ⓐ Column

ⓑ Line

ⓒ Curve

ⓓ Area

ⓔ Scatter

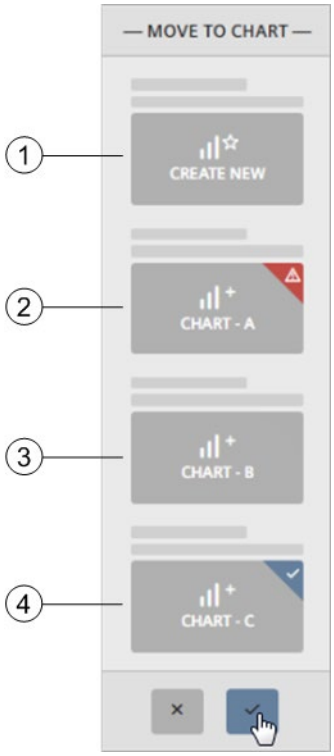
ⓕ Step

ⓖ Dashed

7.5.1 Moving a chart

GROUP SERIES moves the trend data for an object to a new chart or to an existing chart.

The following figure displays the options for moving an object to a different chart.



① **Create new**
Moves the selected object to a new chart.

② **Chart is not available**
The selected object can only be moved to an existing chart if the existing chart contains objects from the same device and if the objects have the same unit of measure.

③ **Available chart**
The selected object can be moved to this chart.

④ **Current chart**
The selected object is currently in this chart.

Moving a chart

1. Open a chart view and select > .
2. Select for the object to be moved.
   ⇨ The **GROUP SERIES** pane displays the available options for moving the selected object.
3. Do one of the following:
   - To move the object to a new chart, select **Create new**.
   - To move the object to an existing chart, select it in the pane.
4. Click to save your changes.

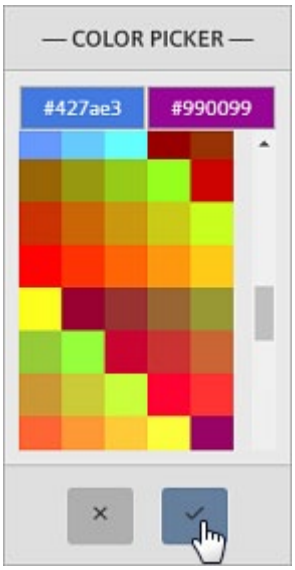
7.5.2 Changing chart colors

The **Color** series option defines the color used to plot the data samples for an object. The default colors are determined by the Trends application.

Changing chart colors

1. Open a chart view and select > .
2. Select for the object to be modified.
3. Click the current color sample to display the **Color Picker**.

4. Do one of the following:
   - Select a new color in the **Color Picker**.
   - Enter the Hex value of a color.
5. To save the new color, click .



7.6 Trends tools

Trends tools are only available to users with the appropriate role assignment.

7.6.1 Exporting trended data to an FTP server or email recipients

The trend export function is only available on selected Desigo Control Point devices.

	Workflow step
1	Adding a trend definition
2	Exporting trend data to an FTP server or email

Configuring a scheduled export of trend data to an FTP server or email

Prerequisites

- The trended data points are integrated to the Desigo Control Point device.
- To export trend data to an FTP server, the FTP settings are configured.
  Configuring the FTP settings [→ 61]

- To export trend data to email:
  - SMTP is configured.
    Configuring an SMTP server [→ 60]
  - Email addresses are in the recipient list.
    Configuring email recipients [→ 61]

① Adding a trend definition for online trended objects

Note

- If you define more trends than are allowed by the device type, the trend definition cannot be saved.
- To add a trend definition for offline trended objects, you must use the commissioning program for the device and then download the objects to the automation station.

▷  is selected in the core function pane.

1. Select > > **Configure trend definitions** > .
2. Navigate through the building structure and select the object(s) for trending.
   ⇨ Only objects that currently do not have a trend definition are displayed.
3. Click **Next**.
4. Use the following table to make selections in the **Trend definition** dialog box.
5. Click **Apply** to save the trend definition.

Setting	Description
Save every check box	Select to record the present value for the selected object(s) at the defined time interval. Default: Not selected
Drop-down list	The time interval for data collection. Default: 15 seconds
Save when value changes check box	Select to record the present value for the selected object(s) each time the value changes. Default: Not selected
Save when value changes more than field	The amount a value must change before a sample is collected. This field is only displayed if one or more sampled data objects are numeric (Analog). Default: 5
Delete trend data after check box	Select to delete trend samples that are older than the defined number of months. Default: Not selected
Delete data interval field	Trend data older than the defined number of months will be deleted. Default: 12 months

Table 5: Trend definition dialog box.

② Exporting trend data to an FTP server or email

1. Select > > **Configure trend export** > .
2. Use the following table to make selections in the **Configure trend export** dialog box and then click **Apply**.
3. If the **Send to email recipients** check box was selected, select email addresses from the list and click **Next**.
4. Click **OK** to close the confirmation dialog box.

Setting	Description		
Name	The name of the export job. Default: **Trend export - [selected location in the building structure]**		
Select data points	Navigate through the building structure to select objects that currently have a trend definition.		
Send to FTP server check box	Select to export trend samples to the FTP server. Default: Selected		
Send to email recipients check box	Select to export trend samples to selected email recipients. Default: Not selected		
Time of export	The default setting is **Weekly, Monday, –.**		
	If Field 1 is …	**Field 2 options**	**Field 3 options**
	Daily	–	–
	Weekly	Monday Tuesday Wednesday Thursday Friday Saturday Sunday	–
	Monthly	Week 1 (Days 1-7) Week 2 (Days 8-14) Week 3 (Days 15-21) Week 4 (Days 22-28) Week 5 (Days 29-31)	Monday Tuesday Wednesday Thursday Friday Saturday Sunday
Time	The default setting is **05:00** or **5:00 AM**, depending on the selected time format. • Field 1: Hours • Field 2: Minutes		

Table 6: Configure trend export dialog box.

7.6.2 Adding a chart view

Chart views can be defined for online and offline trended objects. Desigo Control Point supports a maximum of five chart views.

Prerequisites

- The trended data points are integrated to the Desigo Control Point device.
- For online trended objects, the trend definition must be created.
  Adding a trend definition [➙ 52]

1. Select > > **Create chart**.
2. Navigate through the building structure and use the toggle buttons to select the object(s) to display in a chart.
   ⇨ Only objects that currently have a trend definition are displayed.
3. Click **OK** to continue defining the chart view.
4. Do the following to save the chart view at the currently selected location in the building structure:
   – Select > .
   – Type a name for the chart view in the field at the top of the dialog box.
   – Click **Create** to save the chart view.

For information on saving the chart view to a folder, see the Options for saving chart views [➙ 46] section.

7.6.3 Editing a trend definition

Use this procedure to edit the trend definition for online trended objects.

Note
To edit a trend definition for an offline trended object, you must use the commissioning program for the device and then download the object to the automation station.

Editing a trend definition for online trended objects

▷ is selected in the core function pane.

1. Select > > **Configure trend definitions** > .
2. Expand the building structure to display the objects with a trend definition.
3. Select the trend definition(s) to be edited and click **Next**.
4. Make the necessary changes in the **Trend definition** dialog box and click **Apply**.

For information on the settings in the **Trend definition** dialog box, see the Adding a trend definition [→ 52] section.

7.6.4 Removing a trend definition and archiving data

To stop collecting trend data for an object, the trend definition must be removed from the database. This procedure removes a trend definition for an online trended object and archives data that was already collected.

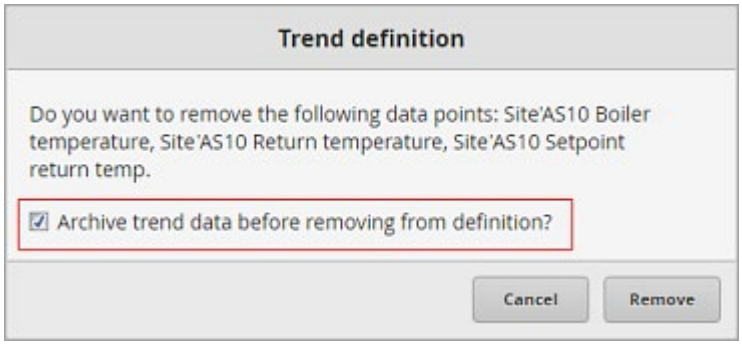
Note
When data points are integrated, any trend definitions already in the device are identified as *offline trended objects*. If an offline trended object is removed from a device, repeat the data point integration process to also remove the offline trended object from Desigo Control Point. An error occurs if you try to use an offline trended object that has been removed from a device.

Removing a trend definition and archiving data

▷ is selected in the core function pane.

1. Select > > **Configure trend definitions** > .
2. Expand the building structure to display the objects with a trend definition.
3. Select the trend definition(s) to be removed and click **Next**.

   ⇨ The **Trend definition** dialog box displays a list of the selected trend definitions and an option to archive collected trend data.



4. If desired, select the check box to archive collected trend data before removing the trend definition. Otherwise, trend data that was already collected is permanently removed.
5. Click **Remove** and **OK** to confirm removal of the trend definition(s) and close the dialog box.

⇨ Confirmation of the trend definition removal and data archive (if selected) displays.

File format for archived trend data

If you choose to archive collected trend data, it is saved as a **.csv** file with a file name in the following format:
YYYY_MM_DD_HH_MM_SS_*ObjectName*_**Trend.csv**

- That is, the current **Year**, **Month**, **Day**, **Hour**, **Minute**, **Second**, based on the computer date and time.
- The *ObjectName* is the **Description** or **Object Name** (as displayed in  **List view**) of the object whose samples are being archived.

8 Reports

The **Reports** core function is only available on selected Desigo Control Point devices.

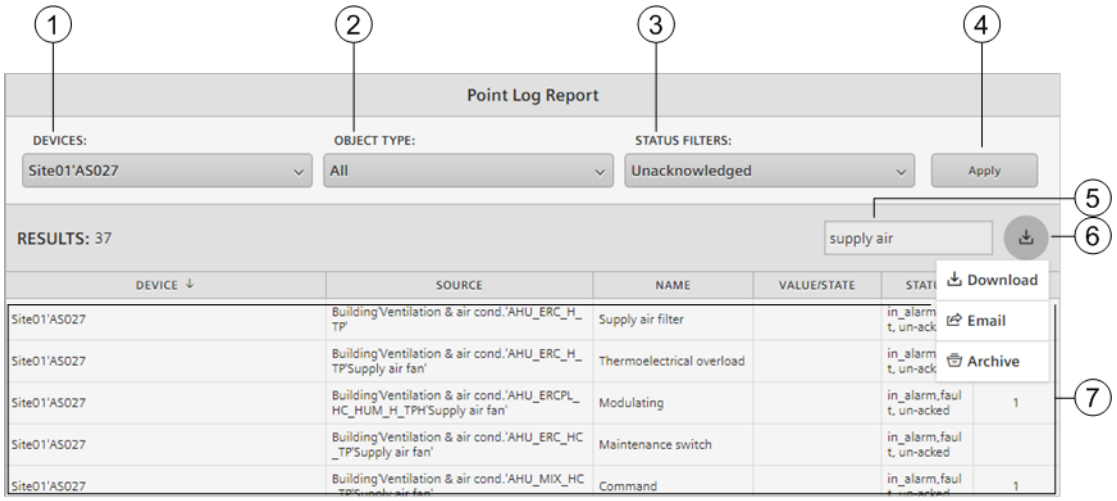
The **Reports** core function displays a point log report that can be filtered by device or object type. Users with the appropriate access can also send archived reports to email recipients or an FTP server and purge archived reports.

The point log report only displays data from integrated data points. In order to maximize the number of devices that can be monitored, Event Enrollment objects are not integrated to Desigo Control Point. Therefore, the point log report does not display any data for Event Enrollment objects.

This section discusses the following topics:

- Displaying a Point Log report, applying filters to limit the data displayed and searching for specific text in the object properties.
  User interface [→ 56]
- Use the **Reports** tools (for users with the appropriate access):
  - Emailing archived reports [→ 58]
  - Sending archived reports to an FTP server [→ 58]
  - Purging archived reports [→ 58]

8.1 User interface



① **Devices**
All devices that are currently being monitored by the Desigo Control Point device.
Default: All devices are selected.

② **Object type**
All object types that can currently be accessed through the Desigo Control Point device.
Default: All object types are selected.

③ **Status filters**
The current status of the object.
- If an object is in two states at the same time, both states are displayed separated by a comma, such as **Normal, Un-acked.**
- If no status filters are selected, all status states are displayed including **Normal**.

Default: No filters are selected.

④ **Apply button**
Click to apply the selected filters and display the report results.

⑤ **Search field**
Enter text to search the **Source** and **Name** columns for content that matches the search string.

⑥ **Download menu**
Includes the following options:

- **Download** - Generate and download a .csv file of the currently displayed data.
- **Email** – Send the currently displayed data to an email recipient. This option is not limited to the email recipients in the database.
- **Archive** - Archive the currently displayed data for future use. Archived data can also be sent to email recipients in the database or to an FTP server.

  Emailing archived reports [→ 58]

  Sending archived reports to an FTP server [→ 58]

⑦ **Report results**
Click a column heading to sort the report results by that property. The following columns are displayed:

- **Device** – Device where the object resides.
- **Source** – Location of the object within the building structure hierarchy.
- **Name** – Object name.
- **Value/State** – Present value of the object.
- **Status** – Current object status.
- **Priority** – Current object priority, if applicable.

8.2 Reports tools

Reports tools are only available to users with the appropriate role assignment.

8.2.1 Archiving a report

▷ **Reports** is selected in the core function pane.

1. Use the **Devices**, **Object type** and **Status filters** drop-down lists to filter the data in the report.
2. Click **Apply** to display the report.
3. Click and select .
   ⇨ The **Archive** dialog box displays a file name in the following default format:
   YYYY_MM_DD_HH_MM_SS_ObjectReport.csv
   (That is, the current **Year**, **Month**, **Day**, **Hour**, **Minute**, **Second**, based on the computer date and time.)
4. Type a new File name, if desired, and click **Create**.
   ⇨ Confirmation that the report has been archived displays.
5. Click **OK** to close the dialog box.

8.2.2 Emailing archived reports

This procedure sends archived reports to an email recipient in the database. The list of archived reports also includes trend data that was archived when the trend definition for an online trended object was deleted.

Prerequisites

- The report is archived
  Archiving a report [→ 57]
- SMTP is configured
  Configuring an SMTP server [→ 60]
- Email addresses are in the recipient list
  Configuring email recipients [→ 61]

Emailing archived reports

1. Select > > **Send archived reports** > .
2. Use the following table to make selections in the **Email archived reports** dialog box and then click **Send**.

Setting	Description
Email recipients	All email recipients in the database are listed. Press **CTRL** and click to select multiple recipients.
Email subject	Email subject line. This is a required field.
Contents	*(Optional)* Message for the recipient(s).
Select reports to email	Select one or more reports to email to the selected recipients.

Table 7: Email archived reports dialog box.

8.2.3 Sending archived reports to an FTP server

This procedure sends archived reports to an FTP server. The list of archived reports also includes trend data that was archived when the trend definition for an online trended object was deleted.

Prerequisites

- The report is archived
  Archiving a report [→ 57]
- The FTP settings are configured
  Configuring the FTP settings [→ 61]

Sending archived reports to an FTP server

1. Select > > **Send archived reports** > .
   ⇨ A list of archived reports displays.
2. Select one or more archived reports and click **Apply**.

8.2.4 Purging archived reports

This procedure purges archived reports and archived trend data for online trended objects.

1. Select > > **Purge archived reports**.
   ⇨ The **Purge archived reports** dialog box displays a list of archived reports and trend data.
2. Select the item(s) to purge and click **Remove** and **Apply**.
   ⇨ Confirmation that the report has been purged displays.
3. Click **OK** to close the confirmation dialog box.

9 Documents

The **Documents** core function is only available on selected Desigo Control Point devices.

The **Documents** core function allows users to view and download files that are saved on the Desigo Control Point device. User roles that have been granted access to **Tools** can also manage the files saved on the Desigo Control Point device.

- Only PDF files are supported
- Maximum file size: 10 MB
- Maximum memory for all files: 50 MB

Viewing and downloading documents

Use this procedure to view and download documents that are saved on the Desigo Control Point device.

- Click the desired document in the **Online files** list.
  - ⇨ An online view of the document displays in a new browser tab. See the following figure for more information.

① **Page**
Click the **+/-** symbols to navigate page-by-page.

② **Scale**
Click the **+/-** symbols to zoom in or out.

③ **Download**
Click to view the document with additional options for navigation and printing. The available options depend on the PDF plug-in installed on the client.

10 General settings

Settings provides general functions for configuring a Desigo Control Point device. Once a device is configured, only occasional updates are required.

Access to **Settings** depends on the user role; most end users do not need daily access to these functions.

This section discusses the following topics:

- Configuring an SMTP server [→ 60]
- Configuring the FTP settings [→ 61]
- Configuring email recipients [→ 61]

10.1 Configuring an SMTP server

SMTP settings configures an SMTP server to send emails through Desigo Control Point. Common uses for email include alarm notification, automatic email of exported trend data or emailing generated reports.

Note
Contact your IT department for the proper SMTP settings.

Configuring an SMTP server

!	*NOTICE*
	Corporate network restrictions may prevent you from using the configuration settings outlined in this section. Please clarify the network security policies at each site.

1. Select > > **SMTP settings** to display the SMTP settings from the project database.
2. Use the information in the following table to update the settings and then click **Apply**.
   ⇨ The **Test connection** dialog box displays.
3. To send a test email, enter an email address in the **Recipient** field and click **Test**. Otherwise, click **Cancel** to finish the configuration.
4. If the test fails, click **Edit** to review the settings and fix any errors. If the settings are correct, contact your IT department.

Setting	Description
SMTP server	The name of the SMTP server being used to route emails. For example, **smtp.gmail.com**.
User name	The user name of an account that is allowed to send emails using the SMTP server. For example, **username@gmail.com**.
Password	The password for the specified account that is allowed to send emails. For security, the actual characters do not display in this field.
Sender	The email address from which all Desigo Control Point emails are sent. For example, **server@sample.com**.
Port number	Port used by the SMTP server. Ports **465** (default) and **587** are supported. Contact your IT department for the proper settings at your site. **Note** There are no restrictions on the port for the SMTP configuration. However, many ISPs and hosting providers block or restrict SMTP connections on port **25** due to security risks.
SSL and **Plain text/TLS** radio buttons	• **SSL** uses the SSL security protocol when sending emails. • **Plain text/TLS** sends emails without SSL encryption.

Table 8: SMTP settings dialog box.

10.2 Configuring the FTP settings

FTP settings configures Desigo Control Point to save data to a server. The most common use for this feature is transferring trend data to an FTP server for archiving.

Note
Contact your IT department for the proper FTP settings.

Configuring the FTP settings

1. Select > > **FTP settings** to display the FTP settings from the project database.
2. Use the information in the following table to update the settings and then click **Apply**.
   ⇨ The **FTP settings** dialog box displays.
3. To test the FTP settings, click **Test**, enter the file path for the test and click **Apply**. Otherwise, click **Cancel** to finish the configuration.
4. If the test fails, click **OK** to review the settings and fix any errors. If the settings are correct, contact your IT department.

Setting	Description
FTP server	The IP address or DNS name of the FTP server that stores off-loaded data. For example, **ftps://Host**.
User name	The user name of an account that is allowed to access the FTP server. For example, **Administrator**.
Password and Confirm password	Type and confirm a password that complies with the password policy for your site. For security, the actual characters do not display in these fields.

Table 9: FTP settings dialog box.

10.3 Configuring email recipients

Configure email recipients allows you to add, edit and remove email addresses for those who are allowed to receive emails from Desigo Control Point. Common uses for email include alarm notification, automatic email of exported trend data or emailing generated reports.

Adding email recipients

1. Select > > **Configure email recipients** > .
   ⇨ The **Add email recipients** dialog box displays.
2. Type one or more email addresses separated by a comma and click **Apply** to save your changes.
3. If desired, select the **Send test email** check box to send a test email to the list of recipients.
4. Click **OK** to complete the procedure.

Editing email recipients

1. Select > > **Configure email recipients** > .
   ⇨ All email addresses in the application are displayed.
2. Select the email address(es) to edit and click **Edit**.
3. Modify the email addresses and click **Apply** to save your changes.
4. Do one of the following:
   – Select the **Send test mail** check box and click **OK**.
   – Click **OK** to complete the procedure.

Removing email recipients

1. Select > > **Configure email recipients** > .
   ⇨ All email addresses in the application are displayed.

2. Select the email address(es) to remove.
3. Click **Remove** and **OK** to complete the removal.

Index

Issued by
Siemens Industry, Inc.
Smart Infrastructure
1000 Deerfield Pkwy
Buffalo Grove IL 60089
+1 847-215-1000