SIEMENS

Desigo Control Point

Operation Manual

Building Technologies

Edition notice

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2 Before you start

This section covers conventions used in the manual, how to access help, related publications, and other information to help you use this manual.

This document is intended for 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.
- Using a heating curve.
- 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.

Additional documentation

- Additional links for Desigo documents are available on the Internet:
  Desigo references
- For information on hardware components, such as DXR2... automation stations or KNX PL-Link devices, see the Hardware documentation reference file (PDF).
  A6V10479649

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3 Overview

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

- The model of operating and monitoring device determines which Desigo Control Point features are available.
- Features and menu items only display for the core functions that a user role is allowed to access.

Accessing the Operation 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.

3.1 User interface

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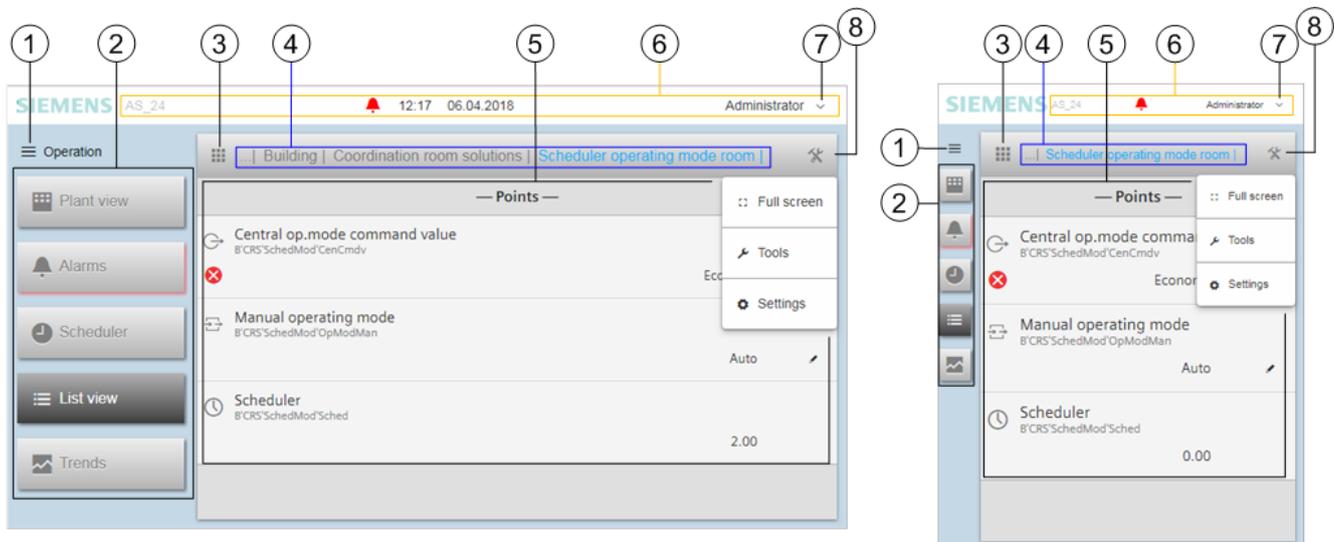

Figure 1: User interface adjusted to fit screen width.

①   **Main menu**

Click ▤ to navigate to the ABT Setup & Service Assistant (SSA).

②   **Core function pane**

▦ **Plant view** displays customized and standard graphics with real-time data point values and status updates.

🔔 **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.

🕐 **Scheduler** configures the schedule program and creates exceptions for existing schedules.

☰ **List view** changes data point values and places data points out-of-service.

📈 **Trends** displays a graphic view of collected trend data and allows you to configure trend exports.

📊 **Reports** generates reports and exports report data.

③   **Root**

Click ▦ to clear the breadcrumb navigation list and display the top level of the building structure.

④   **Breadcrumb navigation for the work area**
The breadcrumb list is created as you navigate through the building structure. Navigate back to a level of the building structure by selecting it in the breadcrumb list.

⑤   **Work area**
Provides functions for operating and monitoring data points. Information displayed depends on the option selected in the core function pane and the position in the breadcrumb navigation.

⑥   **Status bar**
Displays the following information (from left to right):

- Name of the device.

    State indicators. When there are active or unacknowledged alarms, click 🔔 to open the **Alarms** core function.

- Current date and time. (Not displayed on smaller screens.)
- User name of the currently logged in user.

    ⌄ **User management** menu icon (⑦).

⑦   **User management**
Allows all users to log out and manage their user profile. Users with administrator privileges can also add, edit and delete user accounts and reset passwords.

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

⑧   **Tools and Settings**

Click 🛠 to access the **Tools** and **Settings** menus. The options displayed depend on the role of the currently logged in user.

⛶ **Full screen** is mainly for use with a graphic display. When selected, the browser bar displays at the top of the screen, but the **Status bar** (⑥) and the **Core function pane** (②) do not display.

🔧 **Tools** provides tasks that are specific to each core function.

⚙ **Settings** configures SMTP, FTP, email recipients, alarm polling, alarm history and alarm routing, and manages data point integration settings.

Accessing Favorites on a touch panel

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

3.1.1 Icons

The Desigo 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
	Trigger value	MTrgVal
Centralized command grouping objects		
	Command object	CmdObj
	Group master	GrpMaster
	Group member	GrpMbr
System objects		
	Controller	Loop

| Indicator	Description	BACnet object type
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

3.1.2 State indicators

The Desigo 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.	
🔔	Not in alarm. Alarm not acknowledged.	
🔔	In alarm. Alarm acknowledged.	
🔔	Not in alarm. Alarm acknowledged.	
✔	Not in alarm. Reset.	
Primary server		
🎖	Indication of the primary server type (only for PX primary controllers)	

3.2 User management

Click ⌄ in the status bar to display the following options in the **User management** menu:

As shown in the following figure, the options displayed depend on the role of the currently logged in user.
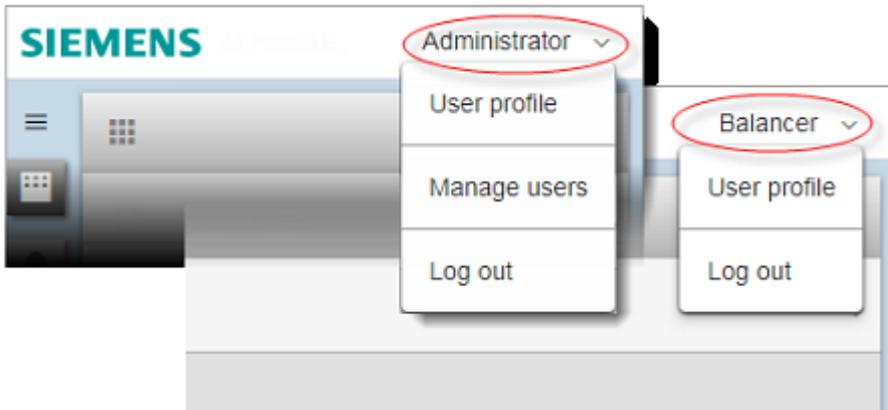
- **User profile** and **Log out** are available to all users.
- **Manage users** is only available to users with administrator privileges.

User profile

Allows the currently logged in user to modify settings for their own account.

▷ Click ⌄ in the status bar and select **User profile** to modify the following settings:

1. **Password**
   - Click **Change password**.
   - Enter your current password.
   - Type and confirm a password that complies with the password policy for your site.
   - Click **Change password** to save the new password.

2. **Language**
   Select the user interface language.

3. **Date format**
   Select the format for dates. For example, **DD.MM.YYYY** or **MM/DD/YYYY**.

4. **Time format**
   Select the **24h** or **12h** time format.

5. Click **Save** to save your changes and return to the **Manage users** page.

Manage users

Allows the currently logged in Administrator to add, edit and delete user profiles. This option only displays for users with the Administrator role.
Managing user profiles [➜ 13]

Log out

Logs a user out from the Operation application.

3.2.1 Managing user profiles

User roles that have been granted access to **Manage users** in the **User management** menu are allowed to add, edit and delete user profiles and change another user's password.

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, such as under the keyboard.
- 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.
- Passwords for user profiles cannot be reset. If access to the Operation application is locked by failed login attempts, you must delete and re-add the user profile.

Adding a new user profile

The Desigo Control Point device contains a set of default user names and user roles. Use this procedure to set up additional user profiles.

1. Click ⌄ in the status bar and select **Manage users**.
2. Click **Add** and then complete the fields outlined in the Table *Fields for adding or editing a user profile*.
3. Click **Add** to save the new user profile.

Editing a user profile

For the default **Administrator** user profile, the **User name** and **User role** fields cannot be modified.

1. Click ⌄ in the status bar and select **Manage users**.
2. Click ✐ for a user profile to modify the fields outlined in the Table *Fields for adding or editing a user profile*.
3. Click **Save** to save your changes.

Deleting a user profile

- The default **Administrator** user profile cannot be deleted.
- The user profile for the currently logged in user cannot be deleted.

1. Click ⊗ for the appropriate user profile.
2. Click **Delete user** to confirm that the user profile should be deleted.

Setting	Description
User name	Type a user name. **Note** This field cannot be modified for the default **Administrator** user profile.
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. **Note** This field cannot be modified for the default **Administrator** user profile.
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: Fields for adding or editing a user profile.

Changing user passwords

Do the following to change another user's password:

1. Click ⌄ in the status bar and select **Manage users**.
2. Click ✎ for the user profile.
3. Click **Change password**.
   ⇨ The password fields are displayed.
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 return to the **Manage users** page.

3.3 Tools and Settings

Select ⚒ in the heading for the work area to access the **Full screen** option and **Tools** and **Settings** menus.

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.	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 ⚒ > **Tools** 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, if a user selects ▦ **Plant view**, the tool for managing graphics is available.	Only displays for user roles with access to **Tools** functions.
⚙ Settings	Allows you to set up email recipients and configure options for saving data to a server, integrating data points and managing alarms.	Related to core function access. For details, see General settings [➜ 64].

4 Plant view

The ▦ **Plant view** core function provides custom graphical views of the current control within your facility.

Using graphics that have been created to operate and monitor your facility, ▦ **Plant view** allows you to:

- View the present value and current status of objects.
  Plant view user interface [➜ 16]
- Command objects to a new value.
 Commanding objects through a Plant view graphic [➜ 18]

4.1 Plant view user interface

Viewing the present value and current status of objects

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

▷ ▦ **Plant view** is selected in the core function pane.

1. Navigate through the building structure to locate the desired graphic.

2. Click the thumbnail image, name or navigation arrow ❯ to display the graphic.
   ⇨ See the following figure for more information.

3. To close the graphic, select another active item, such as a core function button or the ▦ **Root** icon.
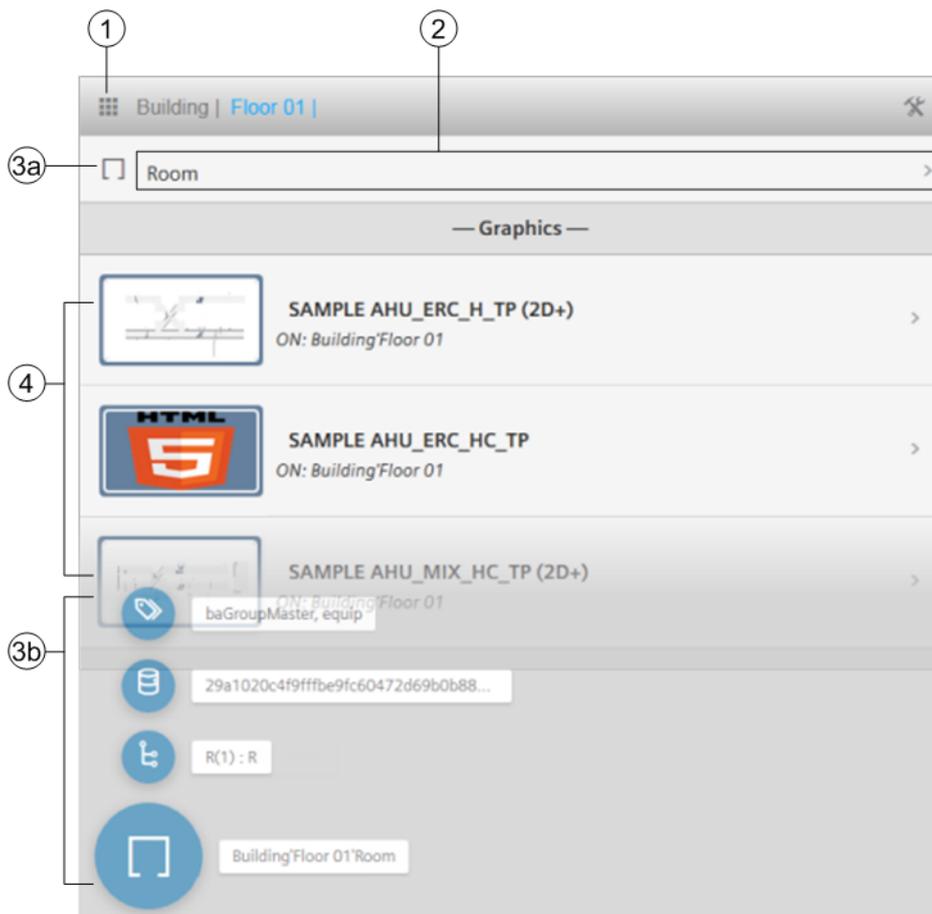
①   **Root icon and breadcrumb navigation**

     Cick ⚏ **root** to navigate back to the top-level of the building structure and only display building level graphics.

②   **Next level in the navigation**

     Click the object name or navigation arrow ❯ to display graphics available at the next level of 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 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, name or navigation arrow ❯ to display a graphic or kiosk.

Heating curve graphic

The ⚏ **Plant view** core function contains a heating curve graphic that calculates the flow temperature setpoint based on outside air temperature, room setpoint and other factors, such as wind and solar.
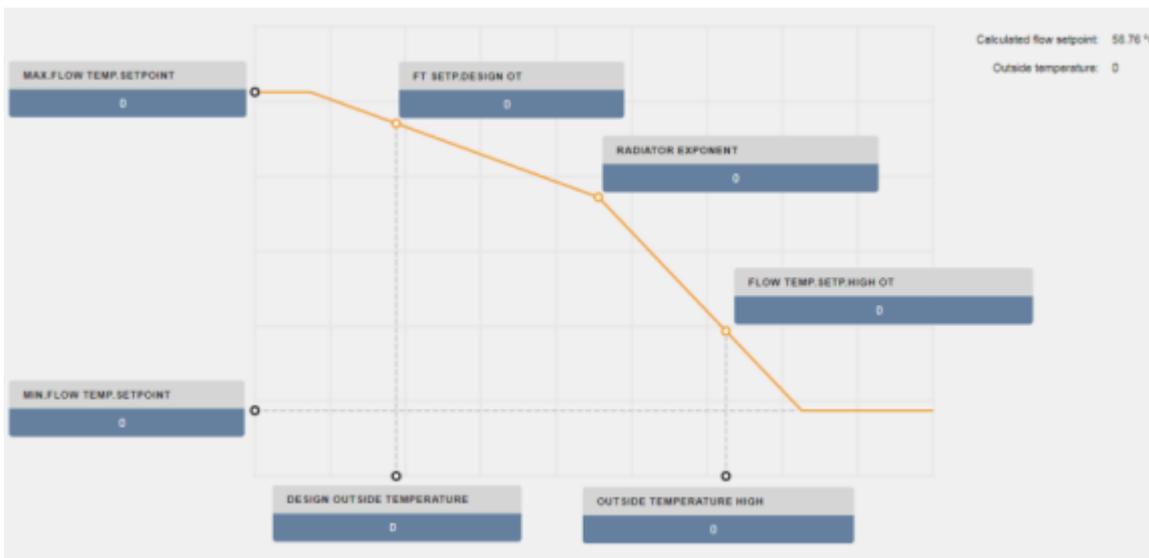

Figure 2: Heating curve example.

4.2 Commanding objects through a Plant view graphic

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.

The following figure shows the Siemens sample graphic for controlling a room.
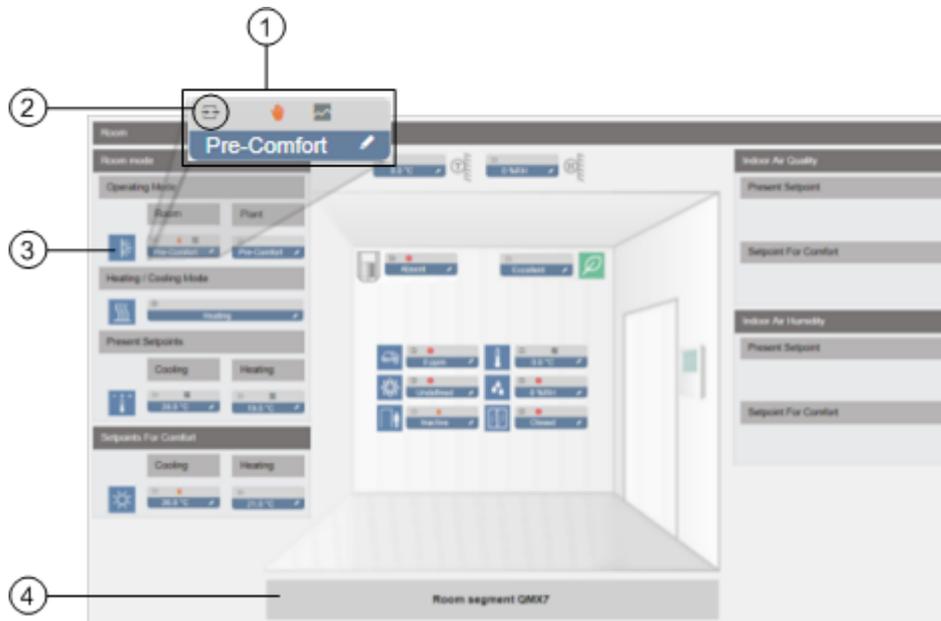
① **Object label**

A label displays for each data point in the graphic. Click the label to open the **Commander** dialog box for the data point.

Icons at the top of the label indicate:

- The type of BACnet object represented.
- Value quality – if the object is in Fault or in transition to a new value.
- Operating mode – if a data point has been 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**

Click the icon for the object, 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 added to display related sections of the building structure.

Commanding objects

1. Navigate to the building structure element where the graphic resides and display the graphic to use for commanding objects.

2. Click the object label to open the **Commander** dialog box.

3. Refer to the following figures and the appropriate following subsection to complete the desired command.
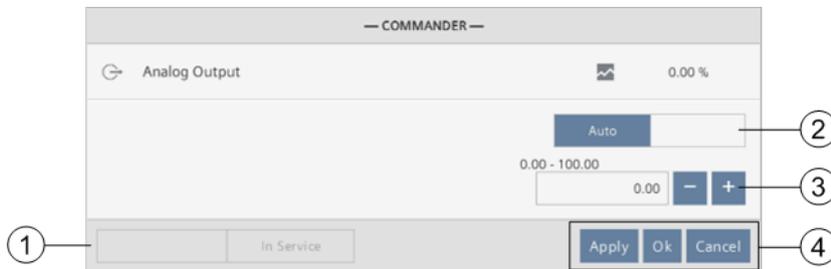
Figure 3: Commander dialog box for an Analog Object.

Figure 4: Commander dialog box for a Binary Object.

Figure 5: Commander dialog box for a Multistate Object.

① **Placing an object Out-of-Service or returning it to In Service**

The **Out of Service** toggle button displays for data points that can be placed out-of-service.

● Click the toggle button to change the object status to **In service** or **Out of service**.

② **Placing objects into Manual control or returning them to Auto control**

The **Auto/Manual** toggle button displays for data points that have a BACnet priority array.

● Click the toggle button to place the object in **Auto** or **Manual** control.

⇨ 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.

③ Commanding objects to a new value

If minimum and maximum values have been defined for Analog objects, this range displays above the value field.

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

● Change the value field or select a new value from the drop-down list.

⇨ If the object has an **Auto/manual selector**, it is placed into **Manual** mode.

⇨ If the object has a priority array, the object is commanded to the priority that has been assigned to the user role.

④ Command action buttons

● Click **Apply** to save your changes and keep the dialog box open for further commands.

● Click **OK** to save your changes and close the dialog box

● Click **Cancel** to close the dialog box without applying any changes.

5 Alarms

The 🔔 **Alarms** core function allows you to:

- View current alarm and event entries as ⊞ **Tiles** or a ☰ **List**
  Alarms user interface [➜ 21]
- View historical alarm events
  Viewing historical alarm events [➜ 25]
- Acknowledge alarms, if your user role has this permission
  Acknowledging current alarms [➜ 26]
- Configure the following **Alarms** settings:
  - Alarm polling
  - Alarm history
  - Alarm routing
    General settings [➜ 64]
- Use the **Alarms** tools (for users with the appropriate role assignment):
  - Configure alarm routing.
    Workflow for configuring alarm routing [➜ 27]
  - Configure alarm view.
    Filtering the alarms displayed [➜ 30]

5.1 Alarms 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.

Configure alarm history [➜ 68]

Figure 6: Heading for the Alarms core function.

① **Alarm indicator**

Select ▲ in the status bar to jump to the **Alarms** core function and display any pending acknowledgements for the currently selected building element.

- When the **Alarms** list contains any pending acknowledgements:

  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).

- When there are no pending acknowledgements:
  - 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 level and breadcrumb navigation**

Click ▦ to display all alarm and event entries for all sites.

- To filter the entries displayed, navigate through the building structure to only display the alarms and events for the selected building element.
- Return to any level of the building structure by selecting the item in the breadcrumb list.

③ **Work area views**

Select **Tiles** ▦ or **List** ▤ to display current alarms. For more information, see the following figures.

Select **History** ⌛ to display alarm history.

Viewing historical alarm events [➔ 25]

④ **Search field**

Use the **Search** field to only display the alarm and event entries with contents that match the search string.

⑤ **Acknowledge/Reset or Acknowledge selected toggle button**

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

- Click **Acknowledge/Reset all on current page** to acknowledge all alarms or events on the current page.

  Select one or more alarms in the ▤ **List** view and then select **Acknowledge/Reset selected**.

Work area views

Current alarms can be displayed in a **Tile** or **List** view. By default, the **List** view is displayed. 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.

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.

Select 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 third-party 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 the alarm properties that are displayed when you select ⓘ. The properties displayed depend on the data point type.

Property	Description
ackDesignator	
ackDesignatorTimezone	
ackDesignatorOffset	
alarmState	The BACnet alarm state. For example, OFFNORMAL, HIGH_LIMIT, LOW_LIMIT, FAULT.
alarmText	The alarm message that was defined in the alarm definition.
baAggregatedStateObject	
deviceInstance	
eventEnrollmentinstance	
eventType	The BACnet alarm or event type. For example, OUT_OF_RANGE.
notifyType	The BACnet notification type of ALARM or EVENT.
objectidentifier	
priority	The alarm or event priority
reliability	
siteRefDis	Name of the highest level of the hierarchy where the object in alarm resides.
targetDis	
targetPointDis	
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
timeStampTimezone	
timeStampOffset	

Table 2: Information dialog box.

5.2 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. Configure alarm history [➜ 68]

- Click ⌛ **History** to display a static view of the current alarm and event notifications.

- Click ⌛ **Refresh history** to refresh the display with new alarm, event or acknowledgement information.

STATUS	DATE/TIME	SOURCE ↑	STATE	PRIORITY	MESSAGE	ACKNOWLEDGED DATE/TIME	ACKNOWLEDGED BY	ACKNOWLEDGED COMMENT
ⓘ 🔥	28.08.2017 13:05	SysTestPASG01 AS01'CmnAlm	OFFNORMAL	3				
ⓘ 🔥	28.08.2017 13:05	SysTestPASG01 Analogue value 005	HIGH_LIMIT	3		28.08.2017 13:05	System	External Acknowledgement
ⓘ 🔥	28.08.2017 13:05	SysTestPASG01 Analogue value 004	HIGH_LIMIT	3		28.08.2017 13:05	System	External Acknowledgement
ⓘ 🔥	28.08.2017 13:05	SysTestPASG01 Analogue value 003	HIGH_LIMIT	3		28.08.2017 13:05	System	External Acknowledgement
ⓘ 🔥	28.08.2017 13:05	SysTestPASG01 Analogue value 002	HIGH_LIMIT	3		28.08.2017 13:05	System	External Acknowledgement
ⓘ 🔥	28.08.2017 13:05	SysTestPASG01 Analogue value 001	HIGH_LIMIT	3		28.08.2017 13:05	System	External Acknowledgement
ⓘ 🔺	29.08.2017 16:48	PXM77 BV5	OFFNORMAL	200				
ⓘ 🔺	29.08.2017 16:46	PXM77 BV4	OFFNORMAL	200	77.BVO.05.I (77.BVO.05.I) ON *A6*unACK BN16			
ⓘ 🔺	29.08.2017 16:48	PXM77 BV4	OFFNORMAL	200				
ⓘ 🔺	29.08.2017 16:48	PXM77 BV3	OFFNORMAL	200				
ⓘ 🔺	29.08.2017 16:46	PXM77 BV3	OFFNORMAL	200	77.BVO.04.I (77.BVO.04.I) ON *A6*unACK BN16			
ⓘ 🔺	29.08.2017 16:48	PXM77 BV2	OFFNORMAL	200				
ⓘ 🔺	29.08.2017 16:46	PXM77 BV2	OFFNORMAL	200	77.BVO.03.I (77.BVO.03.I) ON *A6*unACK BN16			
ⓘ 🔺	29.08.2017 16:48	PXM77 BV1	OFFNORMAL	200				

Figure 7: Alarms History view.

5.3 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. Do one of the following to select the alarms for acknowledging:

   – In both the **Tile** and **List** views, acknowledge all alarms on the current page by clicking **Acknowledge/Reset all on current page**.

   – In the **Tile** view, acknowledge a single alarm by clicking **Acknowledge/Reset**.

   – In the **List** view, select / deselect row(s) in the list and click **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, click **Acknowledge/Reset**.

5.4 Alarms tools

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

5.4.1 Workflow for configuring alarm routing

This procedure configures alarm routing so that recipients only receive the information that applies to them. For example, a selected list of recipients may only receive an email for an alarm on weekends or during a specific timeframe.

	Workflow step
1	Configuring email recipients
2	Configuring alarm routing

Prerequisite

Data points from the devices being monitored for alarms must be integrated to the Desigo Control Point device.

① Configuring email recipients

1. Select ⚒ > ⚙ > **Configure email recipients** > ➕ .

2. In the **Add email recipients** dialog box, type one or more email addresses separated by a comma.

3. Click **Apply** to save the email addresses.

4. If desired, select the **Send test email** check box to send a test email to the list of recipients.

5. Click **OK** to complete the procedure.

② Configuring alarm routing

▷ 🔔 **Alarms** is selected in the core function pane.

1. Select ⚒ > 🔧 > **Configure alarm routing** > ➕ .

2. Use the Table *Configure alarm routing dialog box* to make selections in the first dialog box.

3. Click **Next**.

4. Use the Table *Alarm filter dialog box* to make selections in the second dialog box.

5. Click **Apply** to save your selections.

Setting	Description
Name	Name of the alarm routing configuration. Default: **Alarm routing** If a configuration is saved with the default name, subsequent default names are **Alarm routing** *n*.
Email subject	The email subject line for the routed alarm. Default: **Alarm notifications**
Email recipients	Select one or more email addresses from the predefined list. Press **CTRL** and click to select multiple items. Default: No email addresses are selected
Select all contents check box	Select to include all the **Contents** fields in the routed emails. Default: Check box is selected and all fields are included in the email.
Contents	A list of predefined alarm fields that can be included in the body of the email. Fields include: • Initiating device • Site • Object name • Priority • Alarm state • Date/Time • Message text

Table 3: Configure alarm routing dialog box.

Setting	Description
Time range	**Start** Route alarms that occur after this time on the selected day(s). Default: **8:00** or **8:00 AM** Time is displayed in the format selected by the currently logged in user. **End** Route alarms that occur before this time on the selected day(s). Default: **17:00** or **5:00 PM** Time is displayed in the format selected by the currently logged in user.
Days	Route alarms on the selected day(s) during the selected time range. Default: No days are selected
Priority range	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: 1-255
Type	The type of alarm events that the email recipients receive. Options are: • Alarm • Event • Acknowledgement/Reset Default: All event types are selected
State	The alarm state values that the email recipients receive. Options are: • Alarm • Fault • Return to normal Default: All states are selected

Table 4: Alarm filter dialog box.

5.4.1.1 Editing an alarm routing

This procedure modifies an existing alarm routing.

▷ 🔔 **Alarms** function is selected in the core function pane.

1. Select ⚒ > 🔧 > **Configure alarm routing** > 📝 .

     ⇨ The **Edit alarm routings** dialog box displays the settings for each schedule.
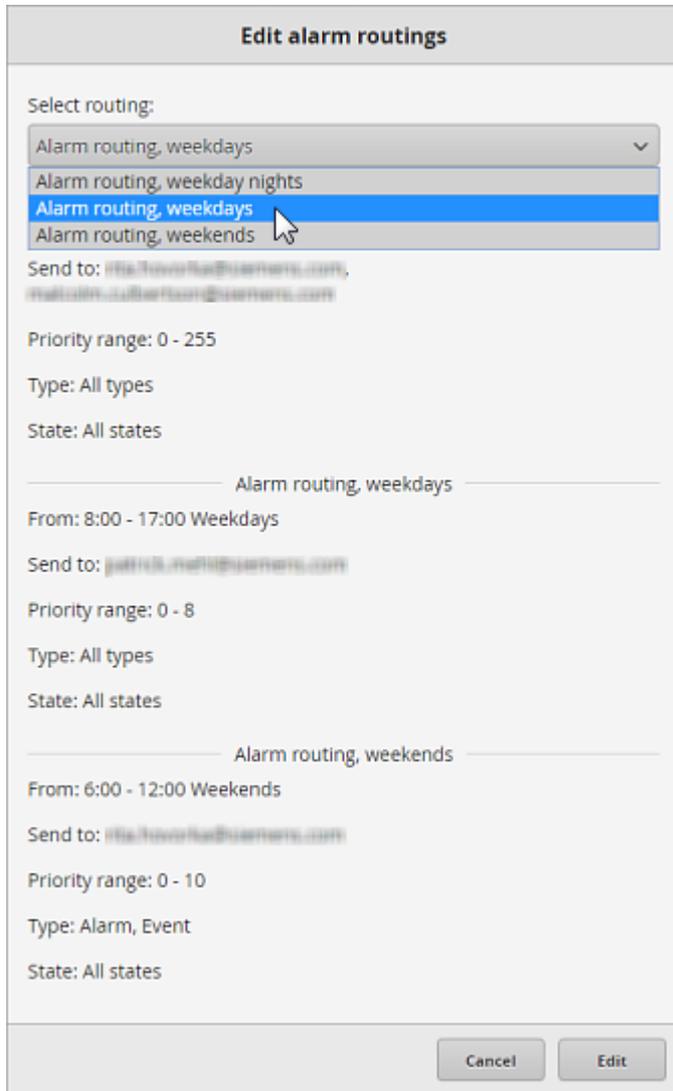
2. Select an alarm routing from the drop-down list and click **Edit**.

3. Make the necessary changes in the **Configure alarm routing** dialog box and click **Next**.

4. Make the necessary changes in the **Alarm filter** dialog box.

5. To save your changes, click **Apply**.

For information on the settings in the **Configure alarm routing** and **Alarm filter** dialog boxes, see the Adding an alarm routing schedule section.

5.4.1.2 Purging an alarm routing

This procedure removes an alarm routing from the database.

▷ 🔔 **Alarms** function is selected in the core function pane.

1. Select ⚒ > 🔧 > **Configure alarm routing** > ✖.

   ⇨ The **Purge alarm routings** dialog box displays all alarm routings.

2. Select the alarm routing(s) to be removed and click **Remove**.

3. Click **Apply** to complete the removal.

5.4.2 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.

Filtering the alarms displayed

▷ 🔔 **Alarms** function 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. To save the display settings, click **Apply**.

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 5: Configure alarm view dialog boxes.

6 Scheduler

The **Scheduler** core function allows you to:

- View the **Scheduler** and **Calendar** objects in the database.
  Scheduler user interface [➜ 32]
  Managing exception schedules [➜ 41]

- View and modify the **Exceptions**, which are used to override the weekly schedule.
  Exception schedules [➜ 38]

- Modify the schedule
  - Add a new switching point (change of value or setting).
  - Modify the time, value or setting for a switching point.
  - Delete a switching point, which indicates the time for a change of value or setting.
  - Return an object to the **Schedule default.**
    Modifying a schedule [➜ 35]

- Modify the Schedule default value.
  Modifying the Schedule default [➜ 36]

- Copy the activities from one day to other days in the weekly schedule.
  Copying one day's activities [➜ 37]

6.1 Scheduler user interface

This section outlines the **Scheduler** controls and the value or setting indicators displayed in the work area.

Viewing Scheduler objects in the database

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

▷ 🕐 **Scheduler** is selected in the core function pane.

1. Navigate through the building structure to locate the desired object.

2. Select 🕐 to display the schedule in the work area.
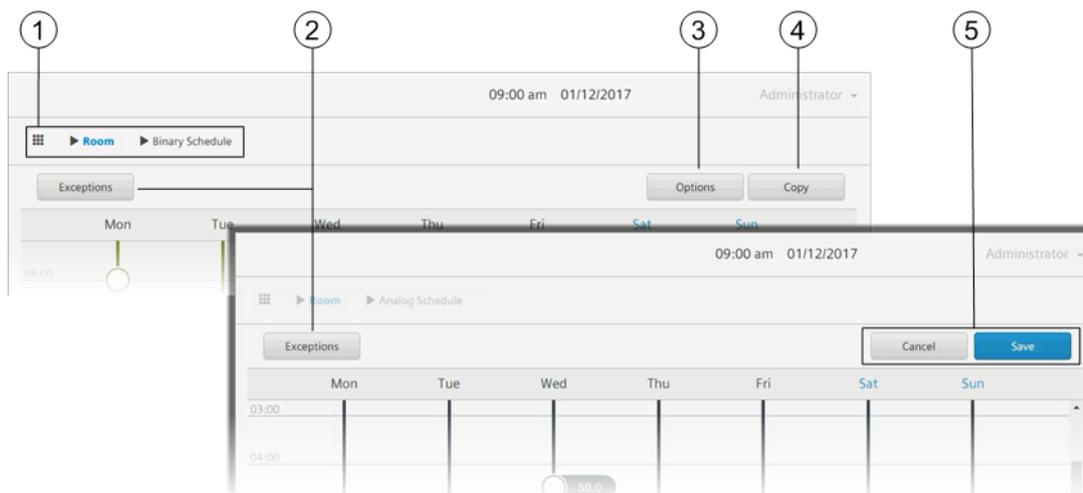
Figure 8: Heading for the Scheduler core function.

①	**Root icon and breadcrumb navigation**
	Cick the **Root** ⊞ icon to return to the top level of the hierarchy.
	Return to any level of the building structure by tapping the item in the breadcrumb list.
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 [➜ 37]
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.**
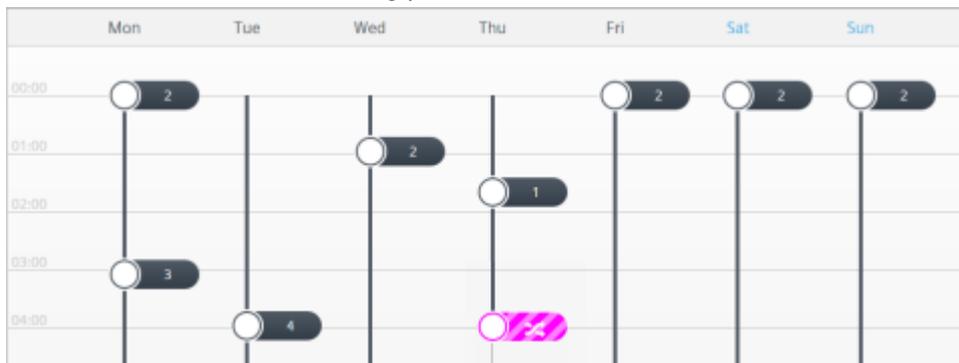
Binary or multistate object schedule

- The switching point color indicates to which setting the referenced object(s) will be commanded.

- ⭕ indicates a switching point that returns to the **Schedule default.**
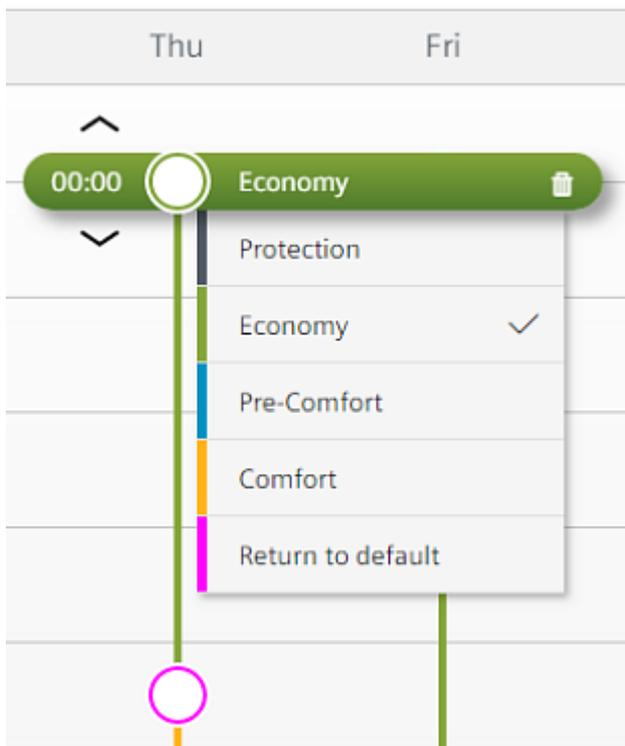
6.1.1 Modifying a schedule

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

Do the following 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. Otherwise, tap **Cancel** to discard 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 widget 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. To save the new switching point time, tap **Save**. Otherwise, tap **Cancel** to discard 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. To save your modifications, tap **Save**. Otherwise, tap **Cancel** to discard all changes made since the schedule was last saved.
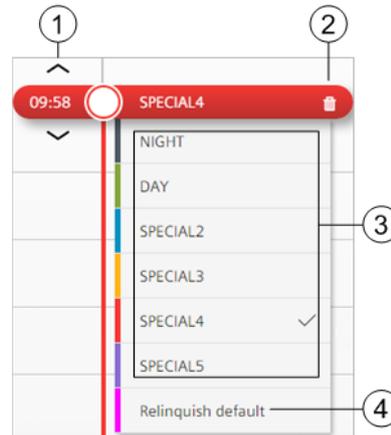
Expanded analog switching point widget.

Expanded binary or multistate switching point widget.

①   **Modify the time**
Drag the switching point widget 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 [➜ 36] section.

6.2   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 [➜ 36] 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**.
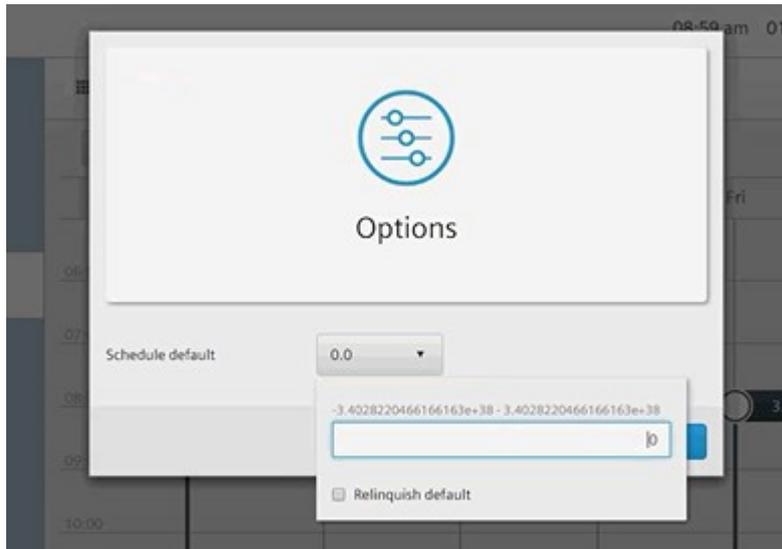
2. Tap the drop-down list to enter a new default value (analog object) or select a new default setting (binary or multistate object).

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.

6.3 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**.
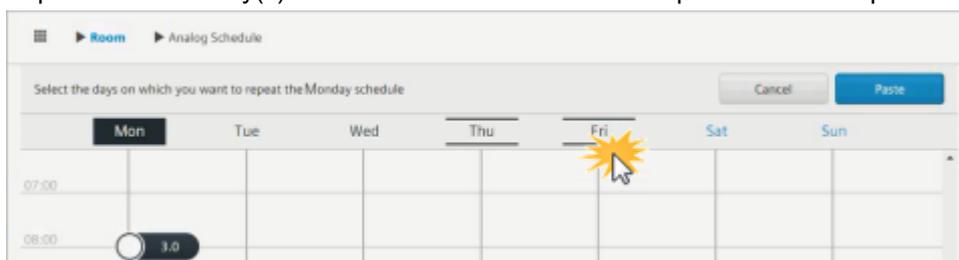
⇨ The activities are added to the schedule and saved to the database.

6.4 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.

6.4.1 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.
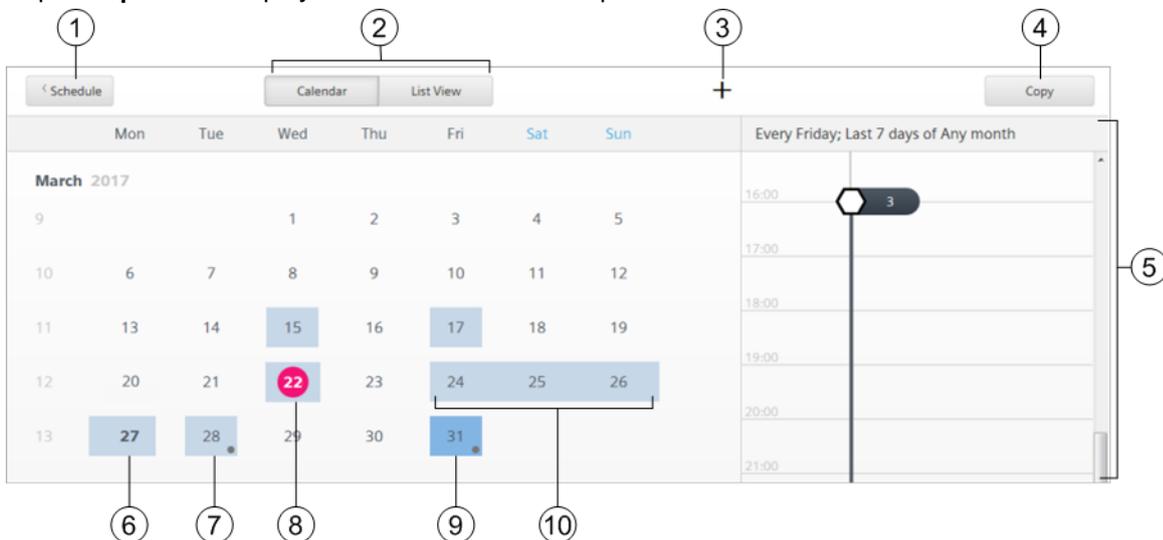
3. To display a list of all exceptions for the schedule, tap **List view**.
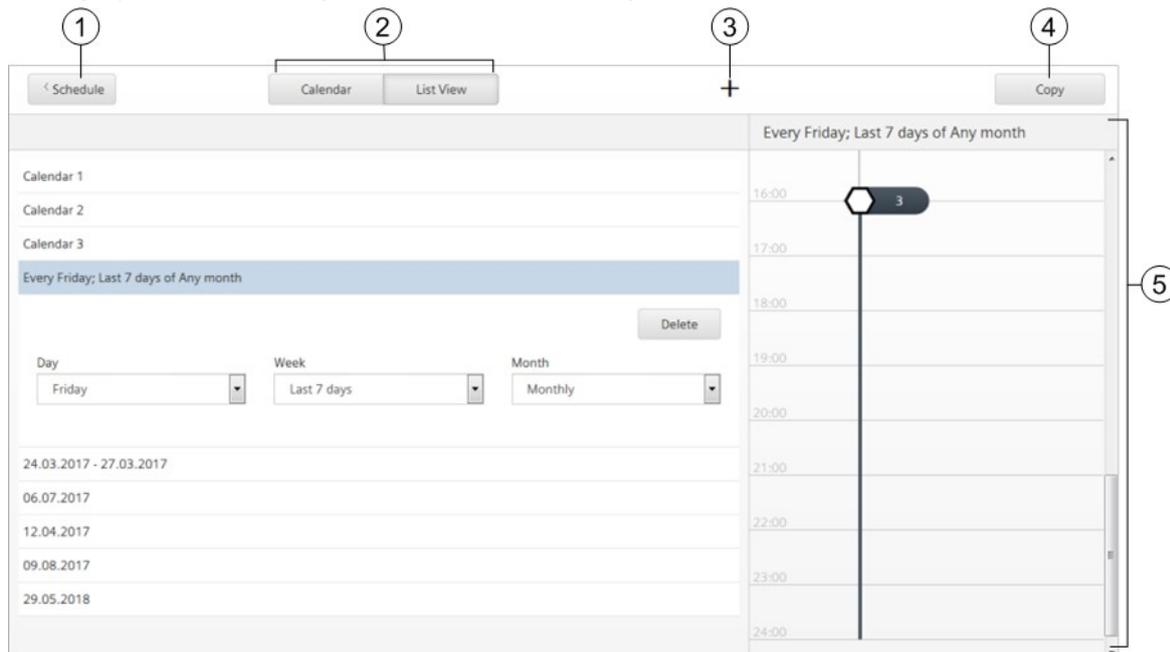
① **Schedule button**
Cick to return to the weekly schedule.

② **Calendar and List View buttons**
Click 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.

6.4.2 Viewing Calendar objects in the database

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. Navigate through the building structure to locate the desired **Calendar** object.

2. Select to display the calendar in the work area.
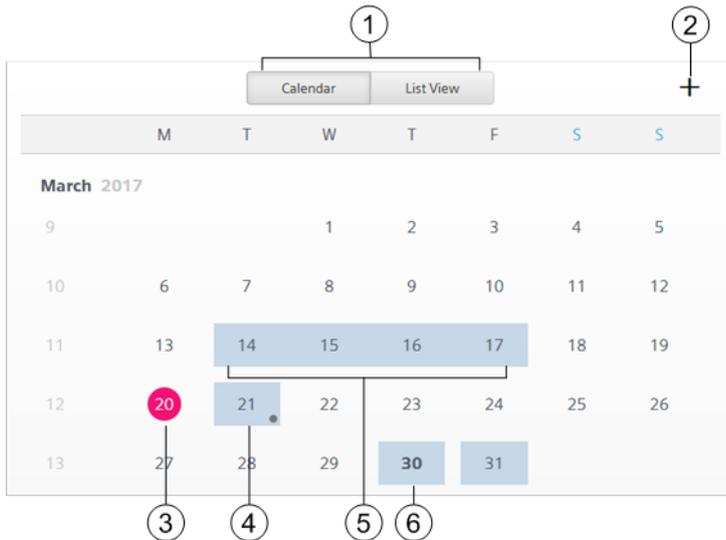
3. To display a list of all exceptions for the calendar, tap **List view**.
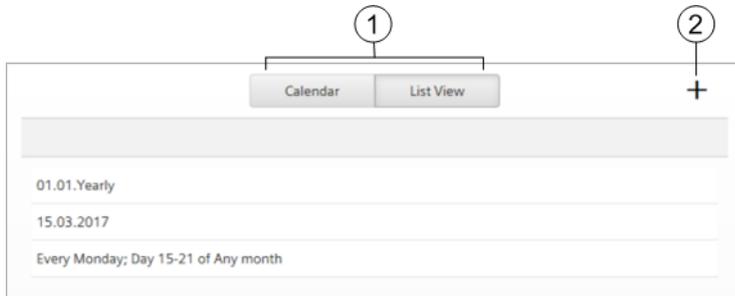
①	**Calendar and List View buttons**
	Click to display the desired view.
②	**Add button**
	• To quickly add a **Date** exception, long press on the date in the calendar view.
	Tap to add a **Day, Date range**, **Weekday** or **Recurring** exception.
③	**Current date**
④	**Recurring exception**
	A dot 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.

6.4.3   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.

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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. Navigate through the building structure to 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.
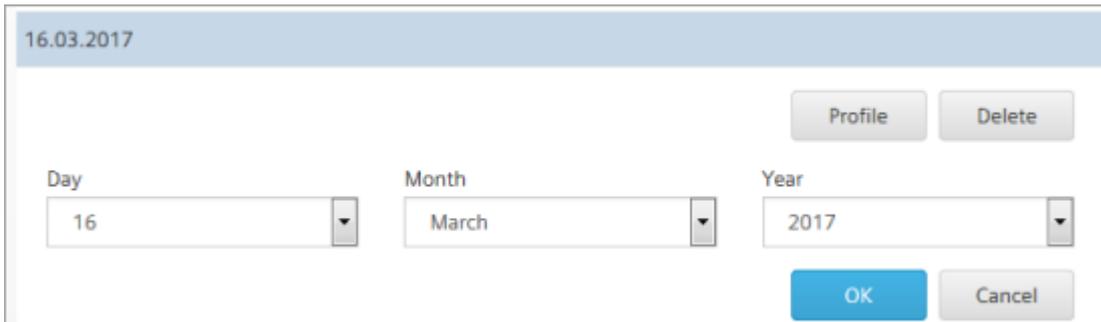
4. Tap **Delete** and then tap **Delete again** to confirm the action.

7 List view

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

The ☰ **List view** core function allows you to:

- View the present value and current status of objects.
  List view user interface [➜ 44]
- Command objects to a new value.
  Commanding objects in the List view [➜ 46]

Viewing additional data points

In order to maximize the number of monitored devices, only a select group of data points is integrated to the Operation application. Data points that are not displayed in the ☰ **List view** can be accessed through the generic data point list in the Setup & service ⊜ **Application** view without being integrated to the Operation application.

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

1. Click ☰ and select **Setup & service**.

2. Select 🔳 **Assigned devices > Assigned devices** and verify that ☰ **List view** is selected in the core function pane.
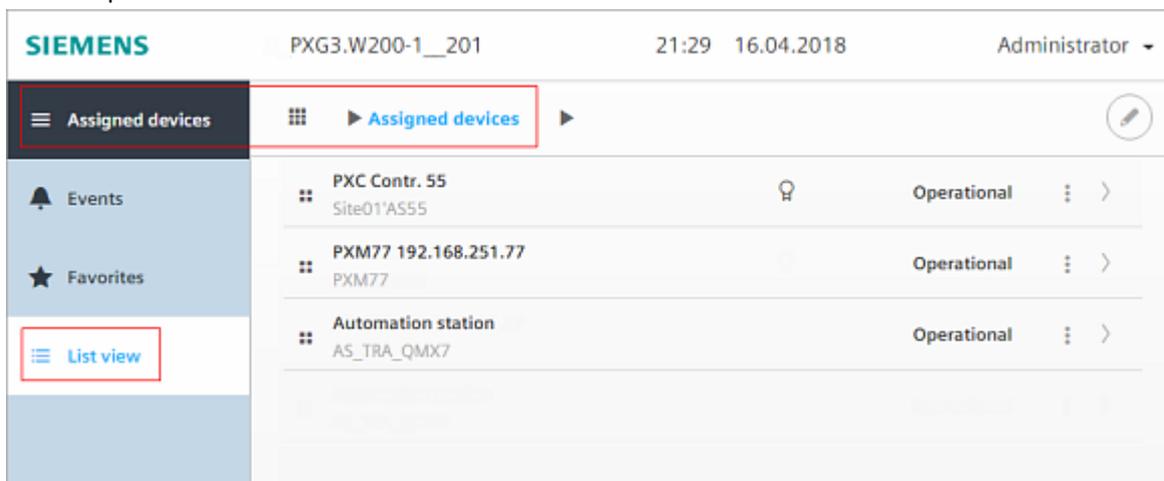
   ⇨ A list of devices that are currently monitored by the Desigo Control Point device is displayed.

3. Navigate through the building structure to locate the desired data point.

Note
Do the following to locate data points on PX primary controllers:

1. Click ☰ and select **Setup & service**.

2. Select 🖵 **Device > Infrastructure**.

3. Navigate through the building structure to locate the desired data point.
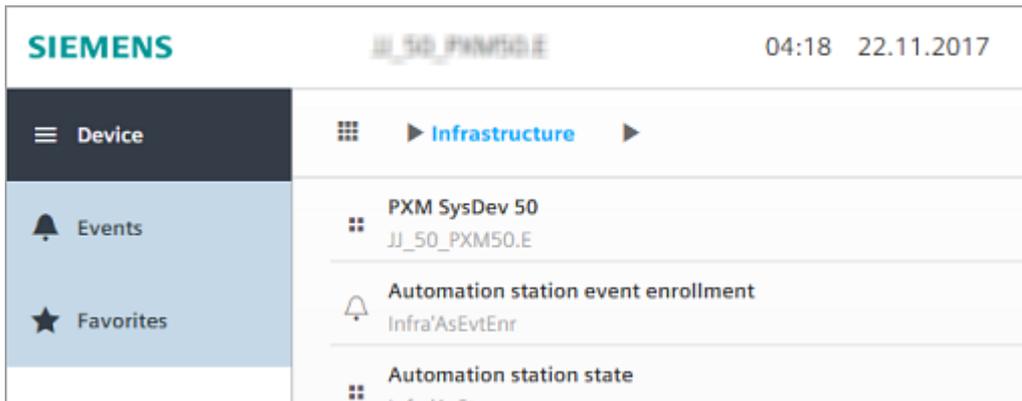
For more information, see the *Navigating in the Work area* section of the *Desigo Setup & Service Assistant User Guide* (A6V10429119).

7.1 List view user interface

Viewing the present value and current status of objects

▷ ▤ **List view** is selected in the core function pane.

● Navigate through the building structure to display the desired objects.

The following figure outlines the information displayed in the work area.
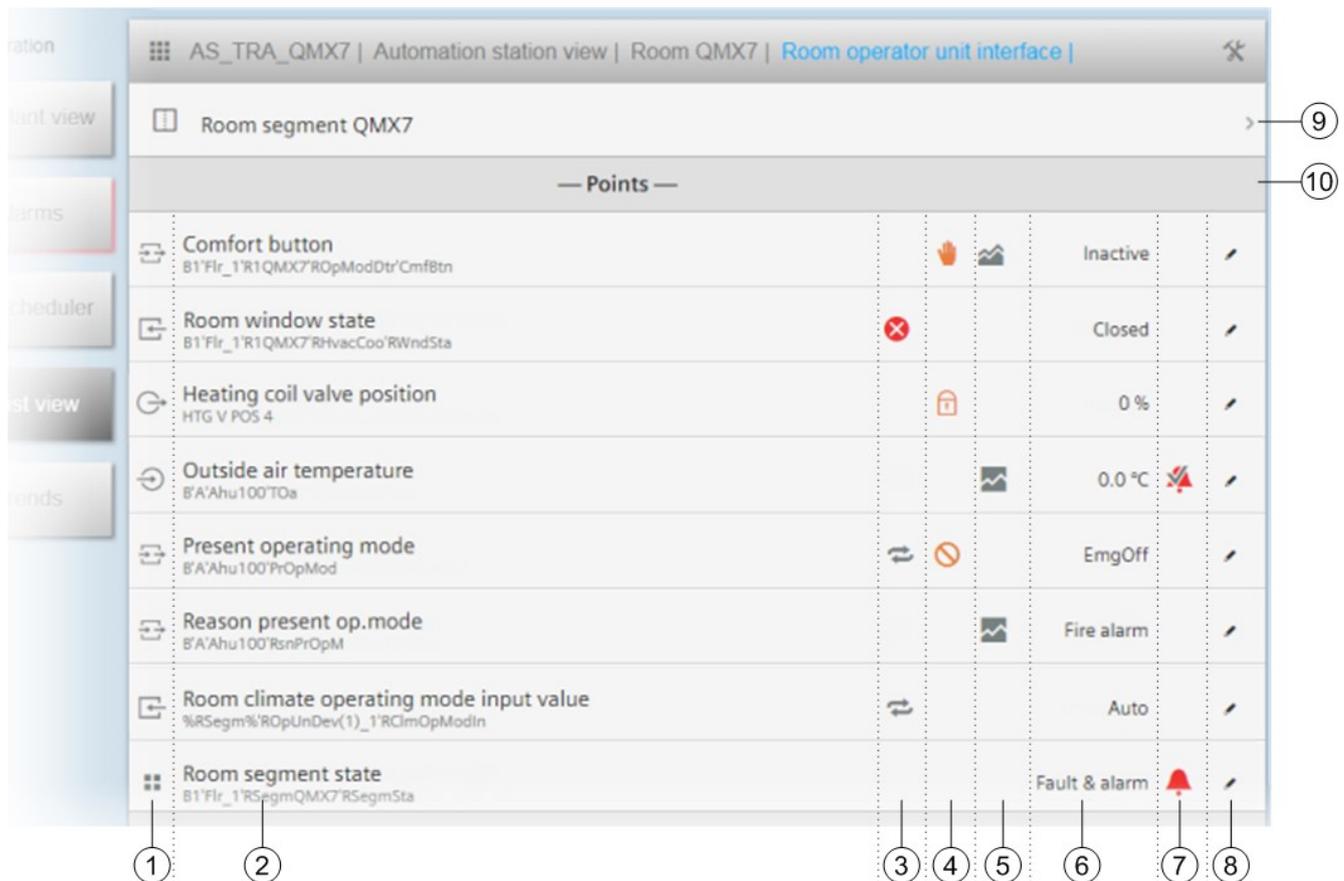
①	**Object type**
	Icons represent the type of BACnet objects associated with a building, floor, room, or mechanical equipment.
	Icons [→ 10]

① **Object type**
Icons represent the type of BACnet objects associated with a building, floor, room, or mechanical equipment.
Icons [→ 10]

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 a data point is in Fault or in transition to a new value. For example, a Blind object indicates it is in transition while the blinds are in the process of raising or lowering.
State indicators

④ **Operating mode**
Indicates if a data point has been overridden or placed out of service.
State indicators

⑤ **Trend data collection indicator**

Indicates if a trend collection is defined for the object and whether data is being collected **online** ⤴ through the Operation

application or **offline** ⤴ by an end device. Collected data is displayed in the **Trends** core function.

Trends [→ 47]

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

⑦ **Alarm state indicator**
State indicators

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 9: Example display of a structured object.

7.2 Commanding objects in the List view

The **Plant view** and the **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

▷   **List view** 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 through a Plant view graphic [➔ 18]

8 Trends

The Operation application 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.

The ⊠ **Trends** core function allows you to:

● View trended data in a chart or table format.
Trends user interface [➜ 47]

● Save chart views.
Options for saving chart views [➜ 50]

● Export trend data as **.csv** or **.json**.
Exporting trend data as .csv or .json [➜ 51]

● Customize the colors, chart type and interval of time for a chart, and move a sample set from one chart to another.
Managing the chart series options [➜ 52]

Use the **Trends** tools (for users with the appropriate role assignment):

● For online trended objects, add, edit, and remove data points from a trend definition.
Adding a trend definition [➜ 56]
Editing a trend definition [➜ 58]
Removing data points from a trend definition and archiving data [➜ 59]

● Add a chart view.
Adding a chart view [➜ 58]

● Export trended data to an FTP Server or email recipients.
Configuring a scheduled export of trend data to an FTP server or email [➜ 56]

8.1 Trends user interface

This section outlines the **Trends** view user interface for displaying saved chart views. A chart view displays the samples collected for a trended object. Chart views are saved in the **Choose Chart View** list of the currently selected location in the building structure.

Viewing a saved chart view

▷ ⊠ **Trends** is selected in the core function pane.

1. Navigate through the building structure to locate the desired chart view.

2. Select a chart view to display it in the work area.

The following figure outlines the information displayed in the work area.
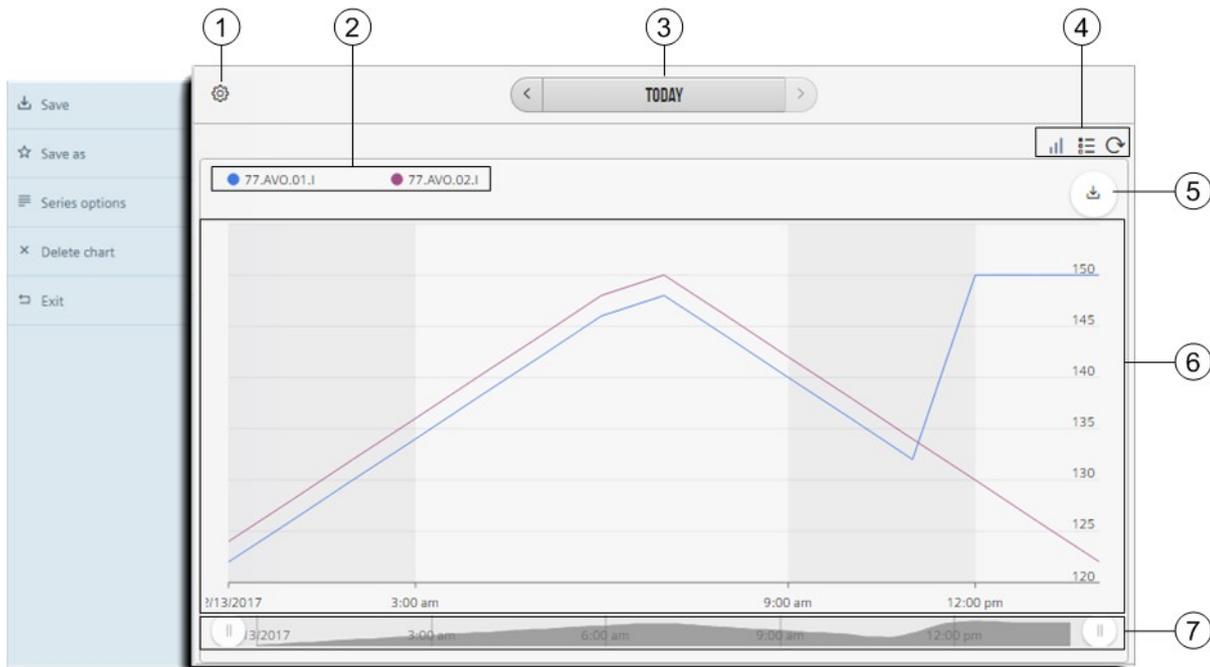
① **Settings for the displayed chart**

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

⬇ **Save** saves the chart to the currently selected location in the building structure.

☆ **Save as** saves the chart with a different name.

☰ **Series options** customize the chart type, chart colors, etc.

✕ **Delete chart** deletes the currently displayed chart. This does not affect the related trend definition.

⮌ **Exit** closes the chart.

Options for saving chart views [➜ 50]
Managing the chart series options [➜ 52]

② **Chart legend**
- Outlines the colors used to plot the trended data for each object in the chart.
- To temporarily hide the trended data for a particular object, do the following:
  - Select the object in the legend to remove its graph from the displayed chart. The object name and its corresponding color will display dimmed in the legend.
  - To redisplay the trended data for hidden objects, select the object in the legend again.

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.

  Use the arrows to change the display by one unit of the selected timeframe. For example, if the selected timeframe is

  Month, selecting ‹ **Back** displays the previous month and selecting › **Forward** displays the next month.

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

Trend data can be displayed in a ⅰⅱ **Chart** or ☷ **Table** format. 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 [➜ 51]

⑥   **Charted data**
- If multiple objects are selected, trend data with the same unit of measure displays in a single chart.
- If the Chart View contains objects from multiple devices, trend data from the same device and with the same unit of measure displays in a single chart.

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.

Using the trend chart to analyze trends

The trend chart can only display a certain number of samples when the full timeframe is displayed. To perform a detailed trend analysis, for example to find peaks in the data, do the following to display a larger number of samples:

- Move the **Timeline** ⏸ buttons to zoom in to a smaller timeframe.
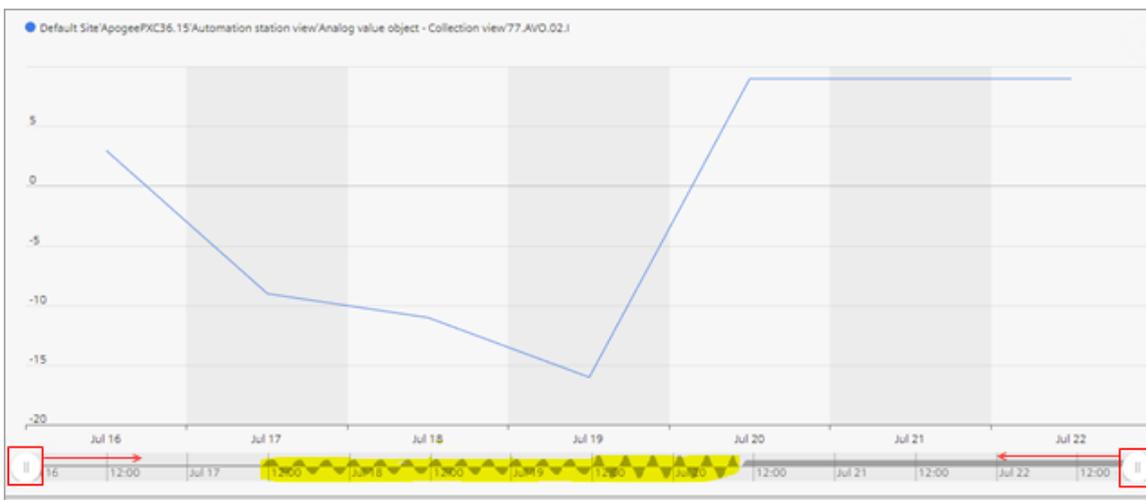
Figure 10: Full timeframe displayed.
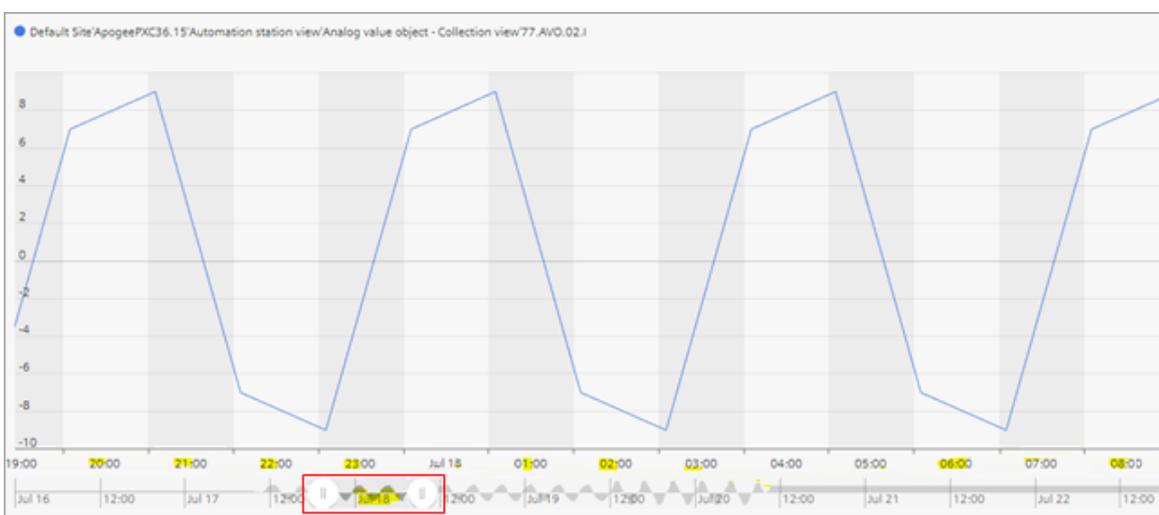
Figure 11: Timeframe restricted to one day.

- Change the date range selector to a smaller timeframe. For example, from **Month** to **Week** or **Day**.

- Click **Chart view** 📊 to view the data in a **Table** ≣, which displays all trend values.

- For chart views containing analog data, adjust the **Convolution** property in the **Series settings**. Managing the chart series options [➜ 52]

8.2   Options for saving chart views

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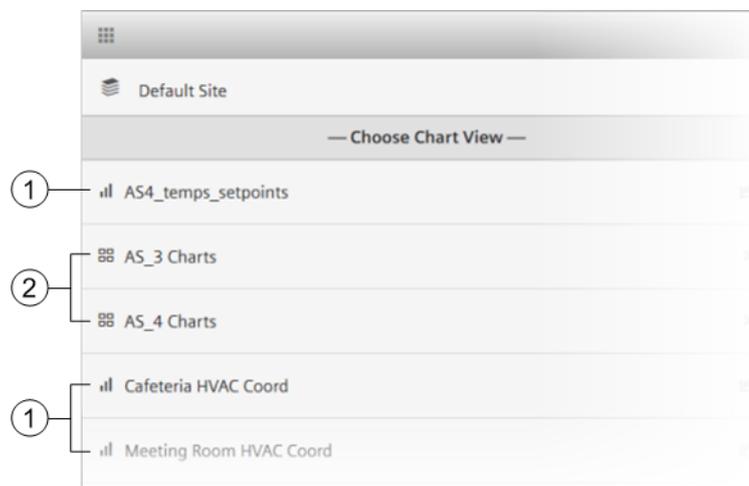
①	Chart views saved at the currently selected location in the building structure.
②	Folders that contain chart views.

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

Prerequisite
A chart view has been created.
Adding a chart view [➜ 58]

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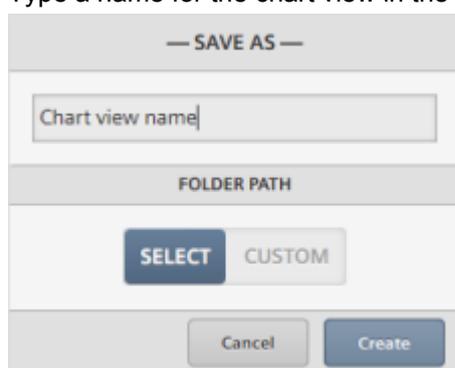
   - Click **Create** to save the chart view.

Saving chart views to a folder

Prerequisite

A chart view has been created.
Adding a chart view [➜ 58]

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.
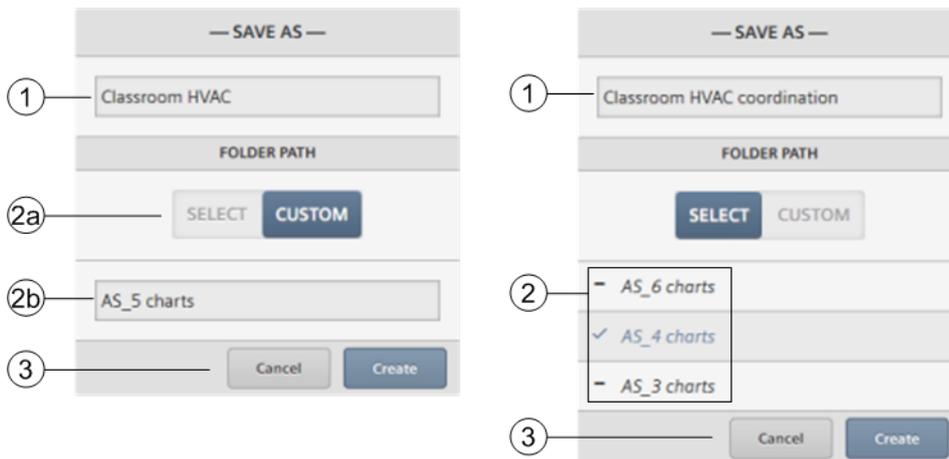
①	Type a name for the chart view.
②	Do one of the following:
	• Click **Custom** (ⓐ) to save the chart view to a new folder and then type a name for the folder (ⓑ).
	• Select an existing folder in the list.
③	Click **Create** to save the chart view.

8.3 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. [➜ 56]

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**.

8.4   Managing the chart series options

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

▷ ⊠ **Trends** is selected in the core function pane.

1. Navigate through the building structure to locate the desired chart view.

2. Select a chart view to display it in the work area.

3. Select ⚙ > ≡ to display the **Series Options** dialog box.

4. Select ❯ to the left of an object name to display the series options for that object.
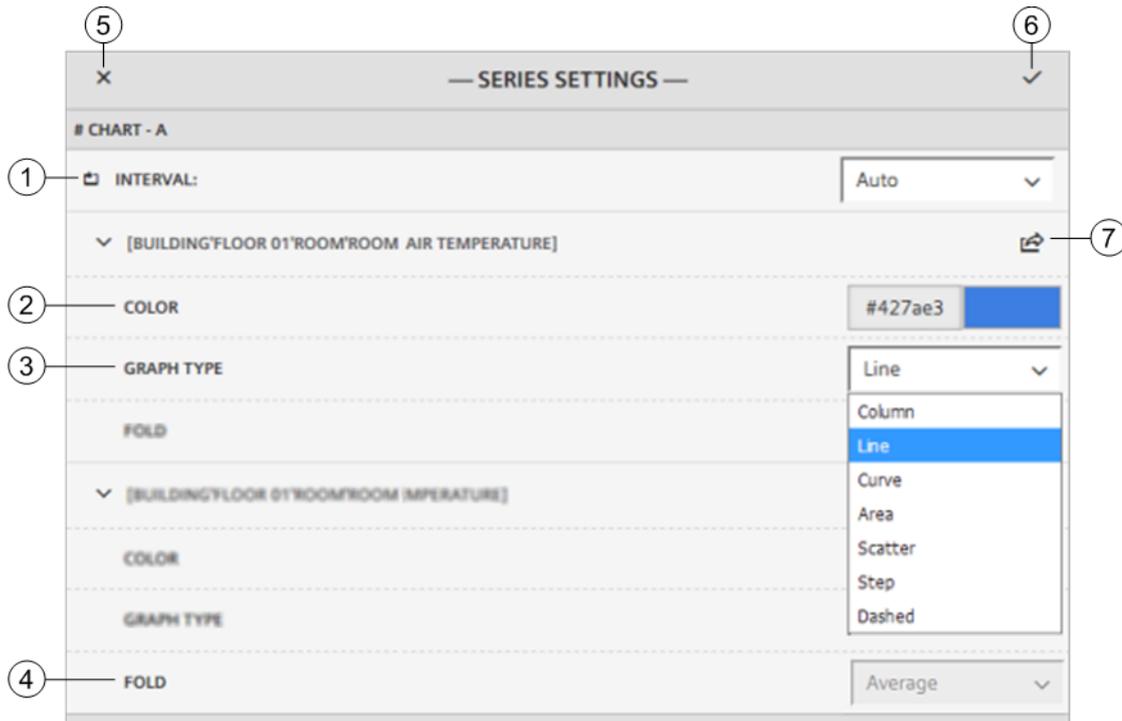
①   **Interval**
For chart views containing analog data, this property defines the time interval for the x-axis division points. The default is **Auto**.

- 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 [➜ 53]

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 [➜ 54]

Chart view example

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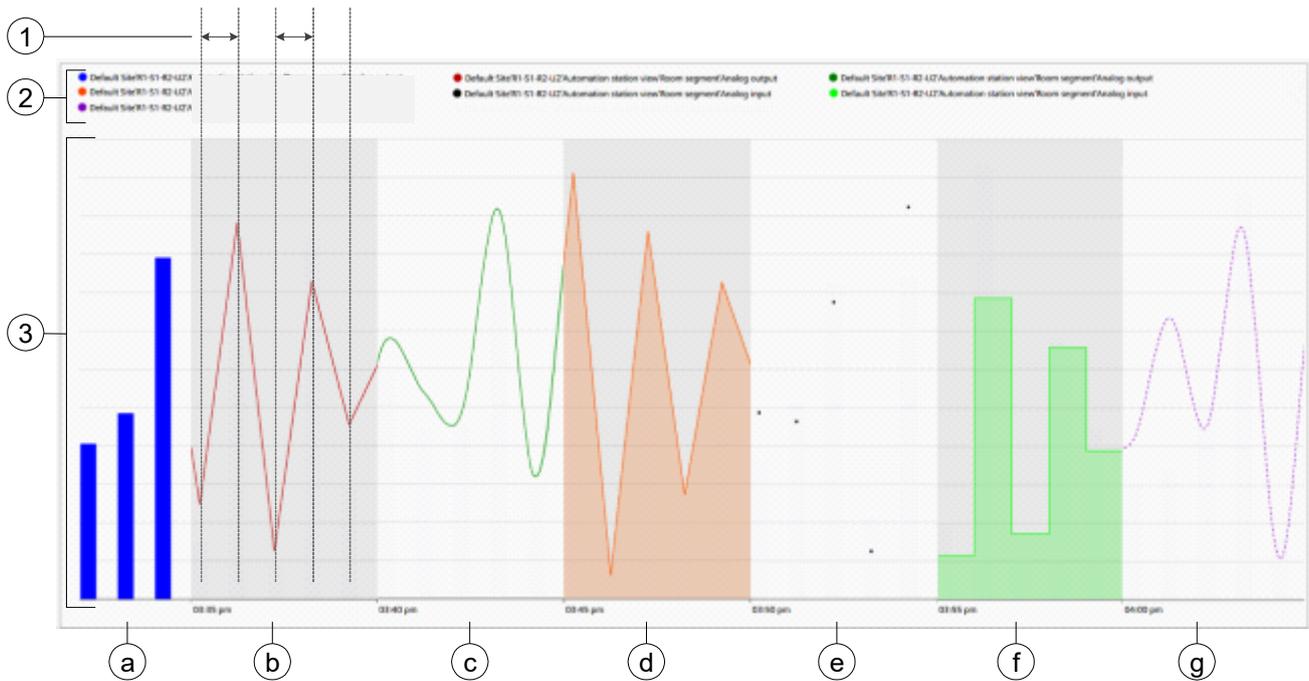

① **Interval**
For chart views containing analog data, this property defines the time interval for the x-axis division points.

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

8.4.1   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.
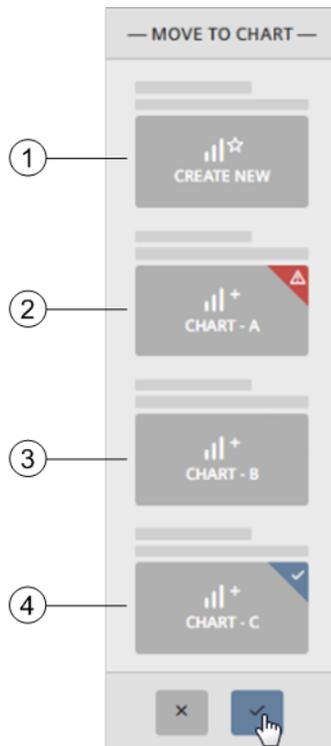
①	**Create new**
	Moves the selected object to a new chart.
②	**Chart is not available**
	The selected object can only be moved to an existing chart if the existing chart contains objects from the same device and if the objects have the same unit of measure.
③	**Available chart**
	The selected object 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 (if available), select it in the pane.

4. To save your changes, click ✓ .

8.4.2 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 ✓ .
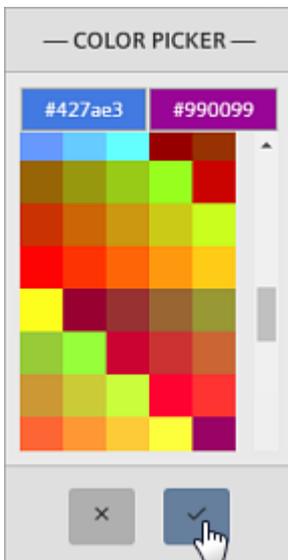
8.5 Trends tools

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

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

The model of operating and monitoring device determines the availability of the trend export function.

	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 operating and monitoring device.
- To export trend data to an FTP server, the FTP settings are configured.
  Configuring the FTP settings [➜ 65]
- To export trend data to email:
  - SMTP is configured.
    Configuring an SMTP server [➜ 64]
  - Email addresses are in the recipient list.
    Configuring email recipients [➜ 66]

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, such as ABT Pro or XWP, and then download the objects to the automation station.

▷ Trends 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

Setting	Description
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 6: 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 7: Configure trend export dialog box.

8.5.2 Adding a chart view

Chart views can be defined for online and offline trended objects. The Operation application supports a maximum of five chart views.

Prerequisites

- The trended data points are integrated to the operating and monitoring device.
- For online trended objects, the trend definition must be created.
  Adding a trend definition [➜ 56]

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.
     Click **OK** to continue defining the chart view.

3. 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 [➜ 50] section.

8.5.3 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, such as ABT Pro or XWP, and then download the object to the automation station.

Editing a trend definition for online trended objects

▷ 📈 **Trends** 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 [➜ 56] section.

8.5.4 Removing data points from 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 the Operation application. An error occurs if you try to use an offline trended object that has been removed from a device.

Removing data points from a trend definition and archiving data

▷ 〰 **Trends** 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.

   Trend definition

   Do you want to remove the following data points: Site'AS10 Boiler temperature, Site'AS10 Return temperature, Site'AS10 Setpoint return temp.

   ☑ Archive trend data before removing from definition?

   [Cancel] [Remove]
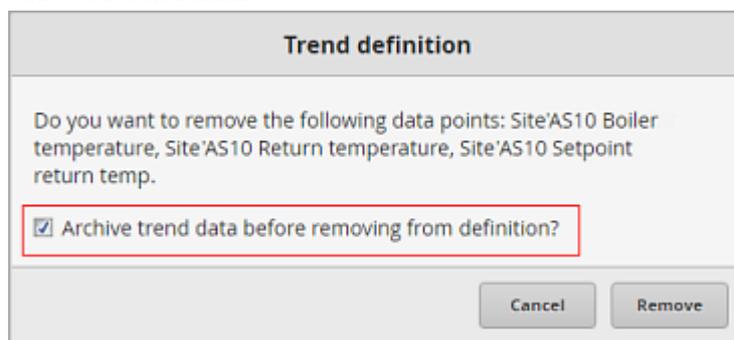
4. If desired, select the check box to archive collected trend data before removing the trend definition. Otherwise, trend data that was already collected is permanently removed.

5. Click **Remove** to confirm removal of the trend definition(s).

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

6. Click **OK** to close the dialog box.

File information 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.

9   Reports

The model of operating and monitoring device determines the availability of the 📊 **Reports** core function.

The 📊 **Reports** core function allows you to:

- Display a Point Log report, apply filters to only display selected object types from specific devices and search for specific text in the object properties.
  User interface [➜ 60]
- Use the **Reports** tools (for users with the appropriate role assignment):
  - Workflow for sending archived reports to email recipients [➜ 61]
  - Workflow for sending archived reports to an FTP server [➜ 62]
  - Purging archived reports [➜ 63]

9.1   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.

Workflow for sending archived reports to email recipients [➜ 61]

Workflow for sending archived reports to an FTP server [➜ 62]

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.

9.2 Reports tools

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

9.2.1 Workflow for sending archived reports to email recipients

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.

	Workflow step
1	Archiving a report
2	Sending archived reports by email

Prerequisites

- SMTP is configured.
  Configuring an SMTP server [➜ 64]
- Email addresses are in the recipient list.
  Configuring email recipients [➜ 66]

① Archiving a report

Select 📊 **Reports** 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.

② Sending archived reports by email

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 8: Email archived reports dialog box.

9.2.2   Workflow for 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.

	Workflow step
1	Archiving a report
2	Sending archived reports to an FTP server

Prerequisite

The FTP settings are configured.
Configuring the FTP settings [➜ 65]

① Archiving a report

Select 📊 **Reports** 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.

② 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**.

9.2.3 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**.

3. Click **Apply** to purge the selected item(s).
   - ⇨ Confirmation that the report has been purged displays.

4. Click **OK** to close the confirmation dialog box.

10   General settings

The ⚙ **Settings** menu 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.

The following table outlines the ⚙ **Settings** that are accessed through 🔧.

Setting	Description
SMTP settings	Configures an SMTP server to send emails through the Operation application. Configuring an SMTP server [➜ 64]
FTP settings	Configures the Operation application to save data to a server. Configuring the FTP settings [➜ 65]
Configure email recipients	Allows you to add, edit and remove email addresses for those who are allowed to receive emails from the Operation application. Configuring email recipients [➜ 66]
Alarm polling	How often the database is checked for any objects with an active alarm state or an acknowledge-required state. By default, the database is polled every two seconds.
Configure alarm history	Determines when old alarms are purged from the system. By default, alarms older than one year are deleted every day at 10:00 PM.
Configure alarm routing	Configures the number of minutes the application waits before resending an email for an unacknowledged alarm.
Data point integration settings	The selections for **Data point integration settings** determine if data points are automatically integrated to the Operation application and how many BACnet objects are saved to the Desigo Control Point device when data points are integrated.

10.1   Configuring an SMTP server

SMTP settings configures an SMTP server to send emails through the Operation application. 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 for sending emails through the Operation application

❗	*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.

3. To save your changes, click **Apply**.

   ⇨   The **Test connection** dialog box displays.

4. To send a test email, enter an email address in the **Recipient** field and click **Test**. Otherwise, click **Cancel** to finish the configuration.

5. 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 Operation 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	Select the **SSL** radio button to use the SSL security protocol when sending emails. Otherwise, select the **Plain text/TLS** radio button to send emails without SSL encryption.

Table 9: SMTP settings dialog box.

10.2 Configuring the FTP settings

FTP settings configures the Operation application 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 for saving data to a server

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.

3. To save your changes, click **Apply**.

   ⇨ The **FTP settings** dialog box displays.

4. To test the FTP settings, click **Test**. Otherwise, click **Cancel** to finish the configuration.

5. Enter the path of the file for the test and click **Apply**.

6. 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 10: FTP settings dialog box.

10.3 Configuring email recipients

Configure email recipients adds, edits and removes email addresses for those who are receiving emails from the Operation application. Common uses for email include alarm notification, automatic email of exported trend data or emailing generated reports.

Adding email recipients to the Operation application

1. Select ⚒ > ⚙ > **Configure email recipients** > ➕ .

2. In the **Add email recipients** dialog box, type one or more email addresses separated by a comma.

3. Click **Apply** to save the email addresses.

4. If desired, select the **Send test email** check box to send a test email to the list of recipients.

5. Click **OK** to complete the procedure.

Editing email recipients in the Operation application

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

2. Select the email address(es) to edit and click **Edit**.

3. Modify the email addresses as needed.

4. Click **Apply** to save your changes.

5. Do one of the following:

   – Select the **Send test mail** check box and click **OK**.
   – Click **OK** to complete the procedure.

Removing email recipients from the Operation application

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

2. Select the email address(es) to remove.

3. Click **Remove** to complete the removal and then click **OK**.

10.4 Data point integration for newly assigned and updated devices

Data point integration only displays under ⚒ > ⚙ **Settings** if a user role has been granted access to both the ▤ **List view** core function and 🔧 **Tools**.

The selections for **Data point integration** determine if data points from monitored automation stations are automatically integrated to the Operation application and how many BACnet objects are imported when data points are integrated.

Data point integration for newly assigned and updated devices

1. Select ⚒ > ⚙ > **Data point integration**.

2. Select or clear the options for newly assigned and updated devices. See the following table for more information.

3. Click **Apply** to save the settings.

Note

Each device manufacturer determines what type of update causes the BACnet database revision number to change. Occasionally, you may find that data points from an updated device have not been automatically integrated because the BACnet database revision number did not change. Should this happen, you must manually reintegrate the data points through ⚒ > 🔧 > **Data point integration**.

Setting	Description
Automatically integrate newly assigned devices	• If selected, data points are automatically integrated to the Operation application as soon as the automation station is assigned to the Desigo Control Point device. • If cleared, you must manually integrate data points for newly-assigned devices.
Automatically update assigned devices	• If selected, data points from an assigned device are automatically integrated if there is a change in the device type or the BACnet database revision number. When data points are automatically integrated: – The system uses the original Integration level as well as any advanced selections that were originally made for including or excluding objects. – Any new data points that meet the selected Integration level are integrated. – Any objects that are no longer in the updated object list are removed. If cleared, you must manually reintegrate the device through ⚒ > 🔧 **Data point integration**.

Table 11: Data point integration dialog box.

10.5   Configuring the alarm poll rate

The 🔔 **Alarms** polling function periodically checks the database to identify any objects with an active alarm state, an acknowledge-required state, or a reset-required state.

• Typically, the default Alarm polling settings can be used.
• For sites with a very high network load, you may need to adjust the Alarm polling settings in order to optimize the performance of the device.

Configuring the Alarm poll rate

▷   🔔 **Alarms** is selected in the core function pane.

1. Select ⚒ > ⚙ > **Alarm polling**.

2. Select a value from the **Poll rate** drop-down list.

3. To save your selections, click **Apply**.

10.6 Configure alarm history

By default, alarms in the **History** ⧖ view that are more than one year old are purged by the Operation application every day at 10:00 P.M. If this setting is not appropriate for your site, do the following to configure alarm history:

▷ 🔔 **Alarms** is selected in the core function pane.

1. Select ⚒ > ⚙ > **Configure alarm history**.

2. Use the following table to make selections in the **Configure alarm history** dialog box.

3. To save your selections, click **Apply**.

Setting	Description		
Purge if older than	The default setting is **1 year**. • Amount field: Valid entries are numbers greater than **0**. • Unit of measure drop-down list: **Days**, **Weeks**, **Months**, **Years** or **All**.		
Time for purge	The default setting is **Daily**, **–**, **–**.		
	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	Displayed in the format selected by the currently logged in user. The default setting is **22:00** or **10:00 PM**. • Field 1: Hours • Field 2: Minutes		

Table 12: Configure alarm history dialog box.

10.7 Configuring alarm routing

The Operation application checks the database once per minute for alarms that need to be sent. If there are multiple alarm notices for a recipient, they are sent in a single email.

By default, the application makes three attempts to send an alarm notification email if the alarm has not been acknowledged. The default interval between each attempt is 15 minutes.

Configuring alarm routing

▷ 🔔 **Alarms** is selected in the core function pane.

1. Select 🛠 > ⚙ > **Configure alarm routing**.

2. Use the following table to make selections in the **Configure alarm routing** dialog box.

3. To save your selections, click **Apply**.

Setting	Description
Max. number of resend attempts	The maximum number of times the application attempts to send an alarm notification email if the alarm requires an acknowledgement and it has not yet been acknowledged.
	If the object is no longer in alarm, an alarm notification email is not resent even if the alarm requires an acknowledgement, but it has not yet been acknowledged.
	Valid entries are numbers greater than or equal to **0**. The default is **3**.
Retry interval (minutes)	The number of minutes the application waits before resending an email for an unacknowledged alarm.
	Valid entries are numbers greater than or equal to **1**. The default is **15**.

Table 13: Configure alarm routing dialog box.

10.8 Local settings

This section outlines how to configure local settings, such as language, time, or the screen brightness for a touch panel.

1. In ABT-SSA, select [⚙] > **Favorite commissioning**.

2. Select [⋮] for the desired item in the list.
   ⇨ The most commonly used parameters are displayed.

3. Use the following table to make selections for each item.

	Name	Description
①	Desigo Control Point device	**Location** Location description for the device.
		Time zone Drop-down list of global time zones.
		Active system language User interface language for the application. Default: The language selected on the login page.
		Equipment identifier Modify the equipment identifier for the device.
		Description Text field to describe the device. This description displays in the work area.
②	Network port for IP	**Network number** Range is **0** to **65534**.
		UDP port Range is **0** to **65535**.
		IP address
		IP subnet mask
		IP default gateway
		Enable (IP) DHCP **Yes** – Use dynamic IP addressing. **No** – Use a fixed IP address.
		Device instance number Range is **0** to **4194303**.
		Device name Modify the device name.

	Name	Description
		Command **Activate** – Apply the new settings. The device may reboot depending on the settings changed. **Discard changes** – Discard your changes and return to the **Favorites** list. **Restart port**– Restart the IP port.
③	Network port for browser connection **Note** This setting only displays for a PXM touch panel.	**Screen brightness** Use the slider or enter a value to adjust the screen brightness.
		Screen brightness mode Automatic Manual
		Screensaver timeout Select the number of minutes the touch panel must be inactive before the screensaver displays. Options are 5, 10, 15, 30, 45 and 60 minutes.
		Screen orientation Landscape Portrait Landscape flipped Portrait flipped
		Keyboard Select a keyboard language from the dropdown list.
④	Assigned devices	No configuration required.
⑤	Discovered devices	**Discovery scope** Determines if the device discovery is restricted to the local network or if remote networks are included.
		Network number The network number to use for the device discovery.
		Max. device instance number **Min. device instance number** Limits the device discovery to a range of devices.
		Include 3rd party devices Determines if third-party devices are included in the device discovery.
		Command Issues a **Discover** command using the modified parameters.