

# OPENview Control Panel User Guide

## For GSM-1000-BMX

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## 1. Introduction

### 1.1. About this manual

This manual is for system technicians. You must have knowledge about the special features of GSM-1000-BMX, where it is used as well as the Windows operating system, control technology and you must also have IT experience. The manual provides support in the administration, maintenance, system monitoring and servicing of GSM-1000-BMX via the OPENview Control Panel.

#### General icons and characters

icons	characters
	<b>INFORMATION / EXPLANATION / TERM / DEFINITION</b>
	<b>NOTE</b>
	<b>CAUTION!</b>
	<b>TIP</b>
	<b>EXAMPLE</b>
	<b>READ MANUAL</b>
	<b>DETAIL</b>
	<b>LEGEND</b>

### 1.2. System Requirements

To operate the OPENview Control Panel in order to use GSM-1000-BMX controller, the corresponding requirements concerning the operating system and the corresponding PC components must be satisfied.

#### Operating systems

Windows 7 Professional SP1 (64-bit)  
Windows 7 Ultimate SP1 (64-bit)  
Windows 8 Pro (64-bit)  
Windows 8 Enterprise (64-bit)  
Windows 8.1 Pro (64-bit)  
Windows 8.1 Enterprise (64-bit)  
Windows 10 Professional (64-bit)  
Windows 10 Enterprise (64-bit)  
Windows Server 2008 R2 (64-bit)  
Windows Server 2012 R2

#### PC components

PC components	Requirement (minimum)	Recommendation
Processor	Single core (> 1.2 GHz)	Dual core
Working memory	4 GB RAM	8 GB RAM
Free hard drive space (File system: NTFS)	10 GB	50 GB
Screen / graphic card	1024 x 768 pixels, true color	Full HD, true color
Interfaces	TCP/IP (network card)	



#### Firewall:

If the firewall prevents the program from starting, check the IT network rules and adjust them, if necessary.

### 1.3. General information

#### 1.3.1. OPENview activation

An GSM-1000-BMX is delivered with OPENview already activated.



Details about OPENview are provided in this OPENview user manual.

#### 1.3.2. GSM-1000-BMX passwords

Each user must be assigned a password level with the corresponding access rights to the GSM-1000-BMX. Different GSM-1000-BMX functions are enabled after entering the corresponding password, depending on the access level. Passwords and access rights can be changed by "E" and "F" access level users.



Information on the preset access levels and passwords is provided in FXL in the "HTMLConf" area. Information on the preset access levels and passwords is provided in FXL in the "HTMLConf" area. In the tree view of the "HTMLConf" area, select the "Passwords" menu item.

##### 1.3.2.1. Reactivating a session

After you successfully log in, you are provided access to the GSM-1000-BMX. If the GSM-1000-BMX is not operated for more than 5 minutes during a session, the password of the access level that was last authenticated must be entered again.



Data can only be transferred to the controller during an active session. If a session expires, the session must be reactivated by entering the password of the access level that was last authenticated.



The inactivity period can be changed by "E" and "F" access level users using the "Service Controller → System → Service" (standard path) menu item.

##### 1.3.2.2. Changing GSM-1000-BMX passwords

Passwords and access rights can be changed changed by "E" and "F" access level users.

#### Procedure

1. Start the OPENview user interface and open the "E" or "F" access level by entering the respective password. To change the password of this access level, click "Password" in the tree view.

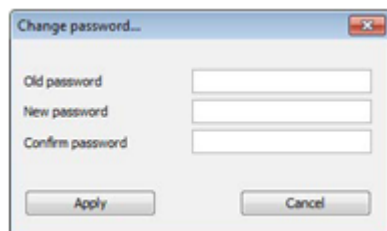
#### Text-based user interface:

In the application area, enter the "password" password under "(\*\*\*\*\*)" and confirm with "Enter".

#### Graphic user interface:

To enter the password, first click the "Change user" button. In the login window, enter the "password" password and confirm with "Login". The window for changing the password opens.

Figure graphic user interface



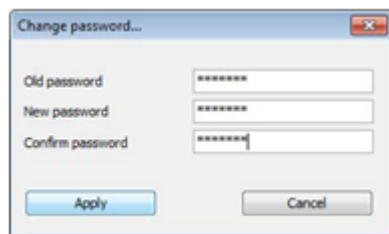
### 2. Text-based user interface:

Enter the old and new password in the corresponding input fields and confirm with "OK".

#### Graphic user interface:

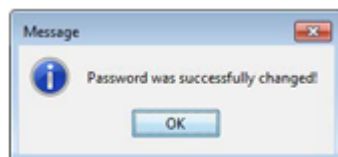
Enter the old and new password in the corresponding input fields and confirm with "Apply".

Figure graphic user interface



### 3. If the password was successfully changed, confirm the message with "OK".

Figure graphic user interface



### 1.3.3. GSM-1000-BMX language setting



The GSM-1000-BMX language setting does not affect the display of the OPENview Control Panel. It only affects the OPENview user interface.

### 1.3.4. OPENview settings

#### 1.3.4.1. Changing the general OPENview settings

The OPENview settings can be changed by "E" and "F" access level users.

#### Procedure

1. Start the OPENview user interface and open the "E" or "F" access level by entering the respective password. To change the access rights in the tree view, select the "Service Controller → System → Service" (standard path) menu item.

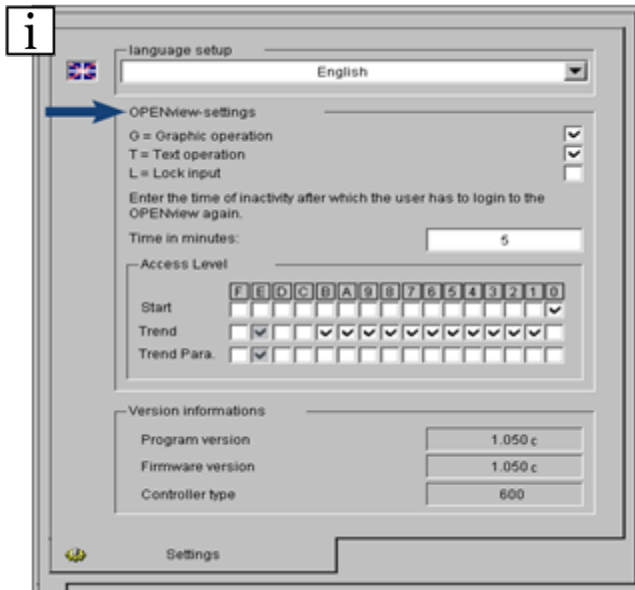
#### Text-based user interface:

Set the OPENview settings by entering the corresponding letters. The entries are saved and forwarded to the controller for processing.

#### Graphic user interface:

Set the OPENview settings by selecting or deselecting the checkbox. The entries are saved and forwarded to the controller for processing.

Figure graphic user interface



**i = Graphic operation:**

Activates or deactivates the OPENview graphic user interface



Changes only take effect after an update is carried out using the OPENview Control Panel.



If this function is deactivated, only text pages are displayed in the OPENview Control Panel. You can reactivate this function using the OPENview text-based user interface.

**T = Text operation:**

Activates or deactivates the OPENview text-based user interface.



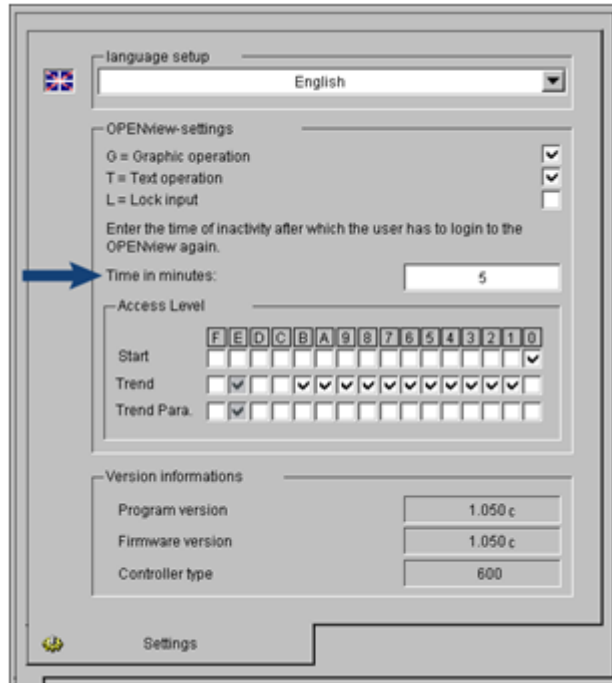
Changes only take effect after an update is carried out using the OPENview Control Panel.

**L = Lock input:**

This function is not enabled in the current version. Please do not check this!

2. If the GSM-1000-BMX is not operated for a certain period during a session, the password of the access level that was last authenticated must be entered again. To change the duration of a session, enter the desired time (time in minutes). The entries are saved and forwarded to the controller for processing so that the duration of the current session is immediately updated.

Figure graphic user interface



#### 1.3.4.2. Changing access rights

Access rights can be changed by "E" and "F" access level users.

##### Procedure

1. Start the OPENview user interface and open the "E" or "F" access level by entering the respective password. To change the access rights in the tree view, select the "Service Controller → System → Service" (standard path) menu item.

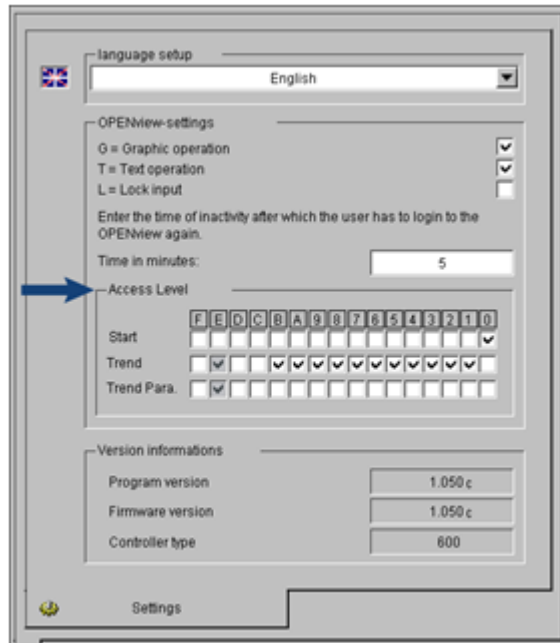
##### Text-based user interface:

Assign the access rights of the access levels (0 - F) by entering the corresponding numbers or letters. The entries are saved and forwarded to the controller for processing.

##### Graphic user interface:

Assign the access rights of the access levels (0 - F) by selecting or deselecting the checkbox. The entries are saved and forwarded to the controller for processing.

Figure graphic user interface



### **i**art:

Select the starting access level (standard "0").



You cannot skip this step, since a starting access level must always be selected.

### **Trend:**

Assign or cancel access rights to the "Trend export" function for access level users (0 - F). (Multiple selections are possible)



This function is assigned to access level "E" users by default and cannot be cancelled.

### **Trend Para.:**

Assign or cancel access rights to the "Trend parameterization" function for access level users (0 - F). (Multiple selections are possible)



This function is assigned to access level "E" users by default and cannot be cancelled.

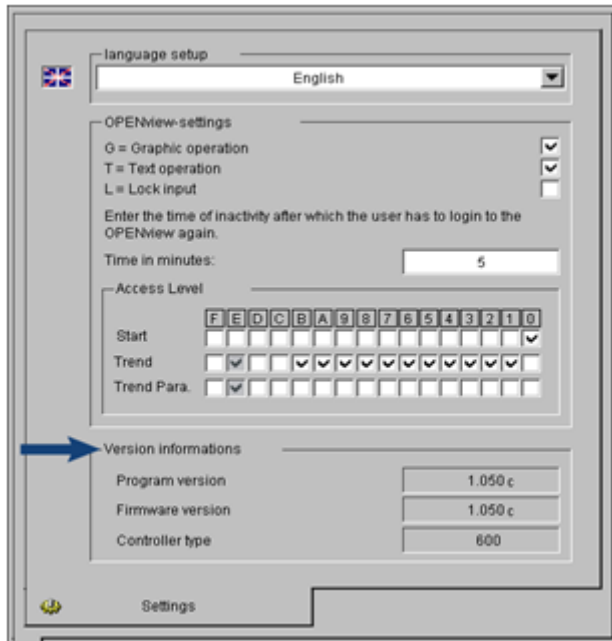
## 1.3.5. GSM-1000-BMX version information

### **Procedure**

Start the OPENview user interface and open the "E" or "F" access level by entering the respective password. To change the access rights in the tree view, select the "Service Controller → System → Service" (standard path) menu item. The GSM-1000-BMX version information is displayed.



Figure graphic user interface



### Program version:

Displays the version of the controller program created on the GSM-1000-BMX using FXL.



The version of the controller program must match the firmware version. These versions can only be changed or updated using FXL.



Details about this are provided in the "FXL" and "GSM-1000-BMX firmware".

### Firmware version:

Displays the GSM-1000-BMX firmware version.



The version of the controller program must match the firmware version. These versions can only be changed or updated using FXL.



Details about this are provided in the "FXL" and "GSM-1000-BMX firmware".

### Controller type:

Displays the GSM-1000-BMX type.

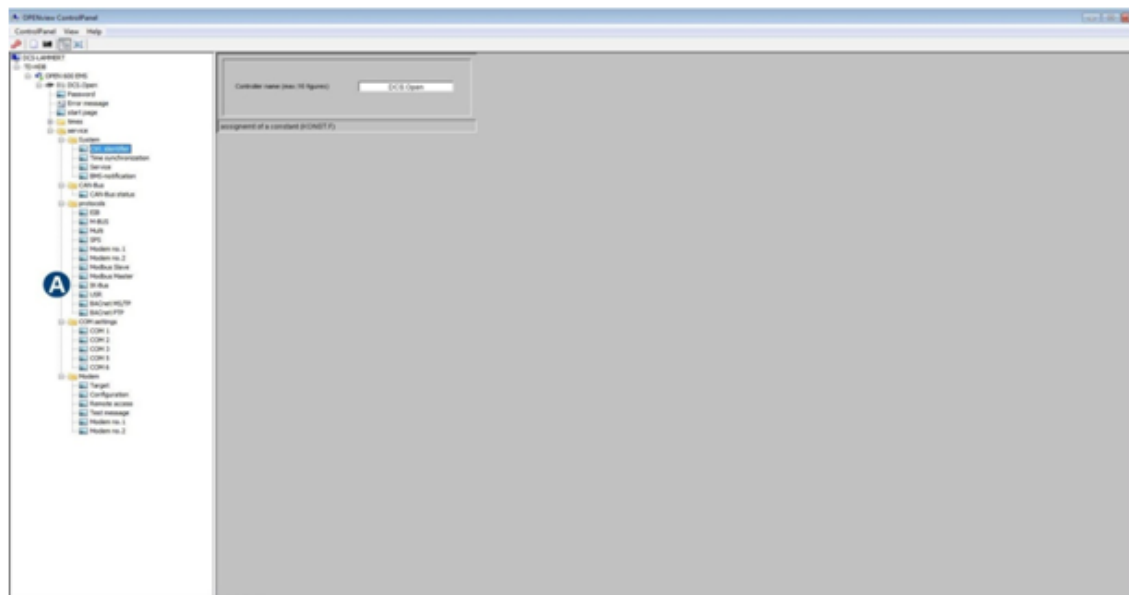
## 1.3.6. GSM-1000-BMX service settings (service pages)

### 1.3.6.1. Adjusting service settings

#### Procedure

1. Start the OPENview user interface and open the "E" access level by entering the password.
2. To open the desired system page for adjusting the service settings, select the corresponding menu item in the tree view. The corresponding service page opens in the application area.

Service page figure (graphic user interface example)



**A** Service page menu items

3. The entries are forwarded to the controller for processing.

### 1.3.7. GSM-1000-BMX system settings (firmware system pages)






Before you can start configuring the building management systems on the GSM-1000-BMX, you must first configure internal system settings and provide information for adjusting the GSM-1000-BMX to the requirements for the individual working environment.



The system settings of an GSM-1000-BMX can only be adjusted to the requirements of the individual working environment using the integrated OPENview web server via Internet Explorer and with the access rights of the "E" and "F" access levels.


## 2. Installation and updates

The following sections guide you through the installation and how to update the OPENview Control Panel.

-  Carefully read these sections before you start installing or updating the OPENview Control Panel.
-  All messages during the installation process must be carefully read and observed.
-  All other programs should be closed before you start installing or updating the OPENview Control Panel. You can replace specific system files without restarting the program.
-  The installation is not automatically started.
-  The installation is completely cancelled if you click the "Cancel" button during the installation.

### 2.1. Installing the OPENview Control Panel

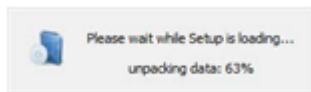
1. To install the OPENview Control Panel, the installation file must be downloaded from the download area of our homepage.
2. Open the corresponding folder on the PC and select the installation file "OPENview Control Panel\_x.xxa.exe".

 The designation of the installation file may have a different version number "xxa" e.g. "OPENview Control Panel\_1.12i.exe".


3. Start the installation by double-clicking the installation file "OPENview Control Panel\_x.xxa.exe" or the corresponding icon.



4. Confirm the query of the user account control asking whether program changes are to be allowed on the computer with "Yes".
5. The setup program is loaded and started.



6. There is a selection of various translations available for the language setting of the installation wizard. Select the desired language via the drop-down list and confirm with "OK".

 The language setting of the installation wizard does not affect the content and specifications of the controller program or the OPENview Control Panel display. It only affects the language setting of the installation wizard.

7. Start the installation wizard, click "Next".



8. You should carefully read the License Agreement. Set the checkmark in front of "I accept the terms of the License Agreement". By setting the checkmark, you confirm acceptance of the License Agreement terms. To continue with the installation, click "Next".

9. The target directories for the program directory and the data directory are already preset. To continue with the installation, click "Next".



To install the corresponding data in another directory, click the button and select the desired directory. When selecting the data directory, make sure that the OPENview Control Panel subsequently assigns write access to this directory.



### Program directory:

Files that are necessary for the software to function are installed in the program directory.  
(default: C:\Program Files (x86)\DEOS\COSMOview Control Panel)

### Data directory:

The individual project data is saved in the data directory.  
(default: C:\Users\Public\Documents\DEOS\COSMOview)



If an older version of the OPENview Control Panel was already installed, this version of the OPENview Control Panel is written to the directory already in use. In this case, the installation path cannot be changed.



10. Select the Start menu folder for the program links. The name of the Start menu folder is already preset. To create a new folder, enter the desired name. To continue with the installation, click "Install".

## 2.2. Updates

### Full version update

Updates to a full version of the OPENview Control Panel in which the installation file is marked by the letter after the version number, e.g. "OPENview Control Panel\_1.11b.exe", can be downloaded from the download area of your homepage at any time.

Updates to a full version contain corrections of existing functions. New functions are not included.

### Update to the next full version

Updates to the next higher full version of the OPENview Control Panel in which the installation file is marked by the digits after the release number, e.g. "OPENview Control Panel\_1.12.a.exe", can be downloaded from the download area of your homepage at any time.

Updates to the next full version contain new functions.



Details on this are located in the following sections.

### 3. Layout and settings

The OPENview Control Panel is the visualization program for OPENview in GSM-1000-BMX. The OPENview Control Panel can be used as an alternative to web browsers (Internet Explorer, Firefox) so that the GSM-1000-BMX can be operated independently from the browser provider updates. In addition, the OPENview Control Panel allows you to simultaneously monitor several controller groups and the trend display of data points.

After you start the OPENview Control Panel, you should first configure a few basic settings to set up the OPENview Control Panel for the requirements of your individual working environment.

The following sections provide you with a guide through the OPENview Control Panel and contain information about the various program settings.



Carefully read the sections before you start using the OPENview Control Panel.

#### 3.1. Administrative area

To access the administrative area of the OPENview Control Panel, you have to log in by entering your user name and the corresponding password.

##### 3.1.1. Change password

##### Procedure

1. To change the password, navigate to the menu bar and select the "Control Panel → Change password" menu item. The window for changing the password opens.



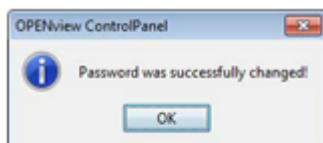
2. Enter the old and new password in the corresponding input fields and confirm with "OK".



The user name cannot be changed.



3. If the password was successfully changed, confirm the message with "OK".

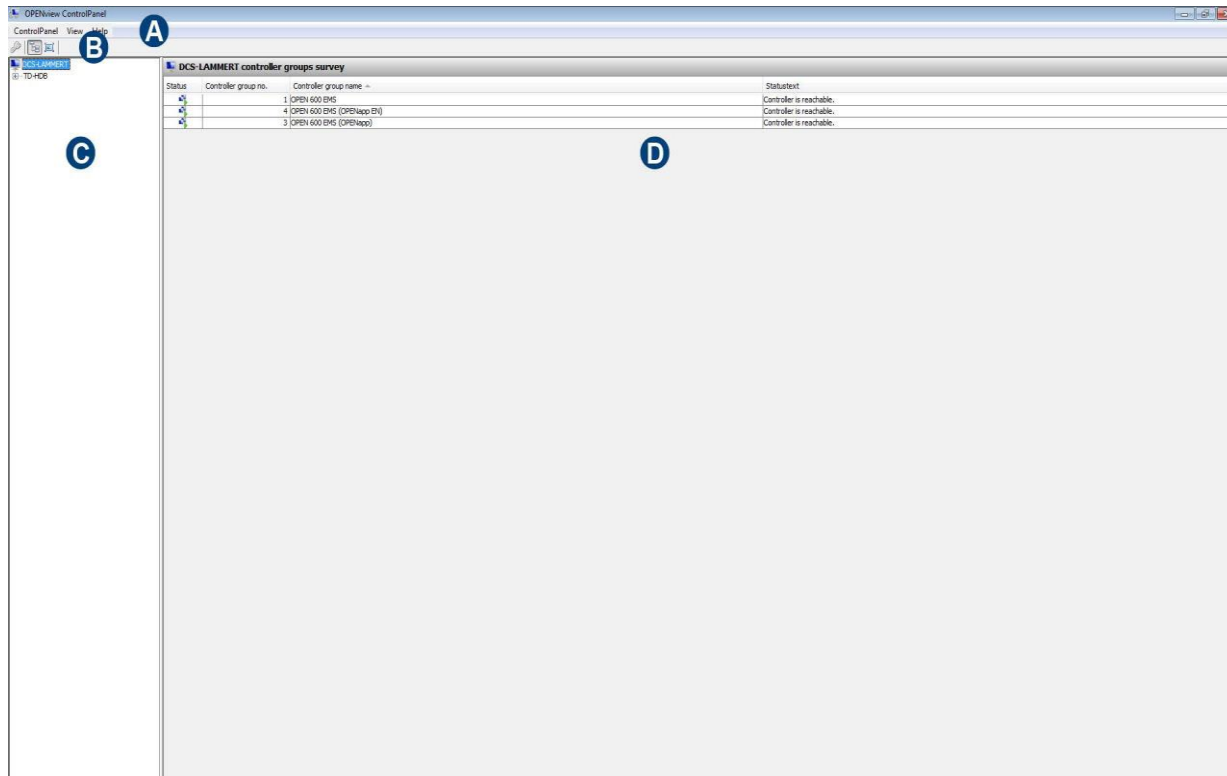


### 3.2. Login

After you have successfully installed the OPENview Control Panel, the OPENview Control Panel is available for operating the system via OPENview. The OPENview Control Panel can now be commissioned.

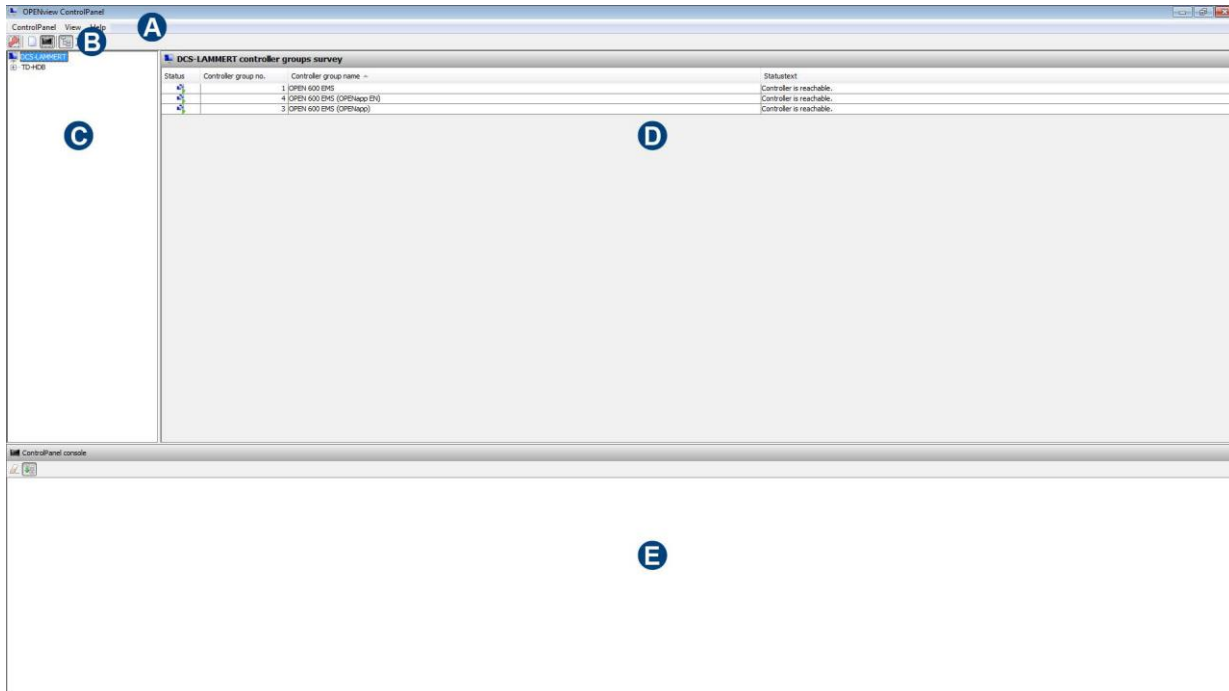
#### Procedure

1. Start the OPENview Control Panel.



- A** Menubar
- B** Toolbar
- C** Menu structure of the controller group management (tree view)
- D** Application area

2. To access the administrative area of the OPENview Control Panel, you have to log in by entering your user name and the corresponding password. To log in, navigate to the menu bar and select the "Control Panel → Login" menu item.
3. The administrative area of the OPENview Control Panel opens. The scope of OPENview Control Panel functions is completely available.



- A** Menubar
- B** Toolbar
- C** Menu structure of the controller group management
- D** (tree view) Application area
- E** Console

4. To log out, navigate to the menu bar and select the "Control Panel → Log out" menu item. Alternatively, you can log out using the button in the toolbar.



5. To close the OPENview Control Panel, navigate to the menu bar and select the "Control Panel → Close" so that the OPENview Control Panel closes.



If the logged in user does not log out before closing the OPENview Control Panel, he is automatically logged out.

### 3.3. Screen Layout

#### 3.3.1. Menu bar

Various drop-down menus are available in the menu bar. Each drop-down menu contains individual menu items with functions and settings for operating the OPENview Control Panel.



When the full screen or Kiosk mode is activated, the entire area of the screen is used to display the OPENview Control Panel. The menu bar is hidden at the same time. In this case, the content of the menu bars can be called up using a "hidden" drop-down menu. To do this, left-click the title bar.



When Kiosk mode is activated, the content of the drop-down menus of the title bar is different from the description in this section. Details on this are located in section „Kiosk mode“.

### 3.3.1.1. Drop-down menus and menu items

#### Control Panel:

**Login:** The window for logging into the administrative area opens.

**Logout:** The logged in user is logged out. This function does not affect the active GSM-1000-BMX access level.

**Change password:** The window for changing the password for access to the administrative area opens. This function is only available in the administrative area of the OPENview Control Panel.

**Settings:** The current OPENview Control Panel settings are displayed in a separate window.

**Close:** The OPENview Control Panel closes. If the logged in user does not log out before closing the OPENview Control Panel, he is automatically logged out.

#### View:

**Toolbar:** The toolbar is shown or hidden.

**Console:** The console is shown or hidden. This function is only available in the administrative area of the OPENview Control Panel.

**Show/hide tree view:** The menu structure of the controller group management (tree view) is shown/hidden.

**Activate/deactivate full screen mode:** The OPENview Control Panel full screen mode is activated or deactivated. When the full screen mode is activated, the entire area of the screen is used to display the OPENview Control Panel. The menu bar is hidden at the same time. In this case, the content of the menu bar can be called up using the title bar (→ left-click).

#### Help:

**Information:** Information about the current OPENview Control Panel version is displayed.

#### Toolbar:

Various tools for operating the OPENview Control Panel are provided using the toolbar icons. The toolbar is not available when Kiosk mode is enabled.



**Login:** The window for logging into the administrative area opens.



**Logout:** The administrative area closes.



**New controller group:** The wizard for creating a new controller group opens.



**Console:** The console is shown or hidden.



**Show/hide tree view:** The menu structure of the controller group management (tree view) is shown/hidden.



**Activate/deactivate full screen mode:** The OPENview Control Panel full screen mode is activated or deactivated.



**Trend recording:** The window for selecting an available slot that is already used for the trend recording opens. Select the desired controller group first and then the slot. Confirm the selection with "OK". The "Trend recording" window opens. This function is only available if the logged in user simultaneously has the corresponding access rights.



### 3.3.2. Menu structure of the controller group management (tree view)

Using the menu structure of the controller group management (tree view), you can display the individual elements of an GSM-1000-BMX unit with various functions and settings. The arrangement of these elements here corresponds to the project already defined in FXL with the corresponding structure.



If necessary, you can arrange the controller program elements under an individually defined folder structure. To open the lower level content of an element and visualize graphic and text pages in the application area, click the desired element.

#### 3.3.2.1. Content of the menu structure



The availability or activation of the content of the controller group management (tree view) menu structure depends on the details of the project created via FXL as well as the current access level of the respective controller. Due to these various factors, the content of the controller group management (tree view) may deviate from the documentation.



The system settings of an GSM-1000-BMX can only be adjusted to the requirements of the individual working environment using the integrated OPENview web server via Internet Explorer in connection with the corresponding access rights.

#### Tree view elements and icons:



**PC:** The menu structure of the PC's controller group management (tree view) is shown/hidden.



**Controller group:** Lower-level elements of the controller group are shown or hidden. At the same time, the connection status between OPENview Control Panel and the Controller group is displayed.

#### Connection status display



The controller group can be accessed from the OPENview Control Panel.



The controller group cannot be accessed from the OPENview Control Panel.



The data of the controller group is read.



The settings and/or controller program of the controller group have been changed.



**Controller:** Lower-level elements of the controller are shown or hidden.



**Folder:** Display of elements with lower level content.



**Graphic page:** Display of a graphic page.



Graphic pages are only available with GSM-1000-BMX units whose graphic user interface is activated.



**Text page:** Displays a text page.

### 3.3.2.2. Context menu of the controller group management menu structure (tree view)

The various elements of the tree view each feature a separate context menu that is available using the right mouse button.

#### PC / Project / Controller:



**New controller group:** The wizard for creating a new controller group opens.

#### Controller group:



**Update controller group:** The data of the selected controller group is read again.



**Delete controller group:** The selected controller group is deleted from the OPENview Control Panel.






#### Graphic and text page:



**Open in new window:** The selected graphic and text page are opened in a new window and automatically adopt the size of the graphic page.

### 3.3.3. Application area

Depending on the selected element or icon, the following content is displayed in the application area:

Element / icon	Application area content
 PC	Controller group overview display
 Controller group	Controller group parameterization display
 Controller	
 Graphic page	Display of all functions and content of the graphic and text pages that are used to configure or set parameters of the building management systems of a project
 Text page	

The unit is then operated and configured using the respective input fields, buttons, icons and drop-down lists of the graphic and text elements. The entries are saved and forwarded to the controller for processing.

#### 3.3.3.1. Application area context menu

If a graphic page is displayed, the application area also features a context menu, which is displayed by right clicking.

**Zoom:** The graphic representation can either be adjusted automatically or through pre-defined zoom levels to the size of the individual working environment.

**Trend:** All the controller's data points linked to the current graphic page can be added, parameterized and shown in a graphic display for the trend recording.

**Selecting a data point:** All the controller's data points linked to the current graphic page are listed in the window for the indirect data point selection.

**Creating a parameterization for the trend recording:** There is no parameterization for recording trend data available yet for this data point. To create a parameterization for this data point to record trend data, the window to the data point selection opens.



This function is only available if the mouse pointer is positioned over a graphic element, which is linked to a data point and for which no parameterization has been yet been created for recording trend data.

**Open trend recording of data point:** Trend data of this data point is already available. To display the recorded trend data, the "Trend recording" window opens.



This function is only available if the mouse pointer is positioned over a graphic element, which is linked to a data point and if there is trend data already available for it.

**Print:** The current graphic page is printed.

### 3.3.4. Console



This function is only available in the administrative area of the OPENview Control Panel.

#### Procedure

1. Additional information is displayed in the console for technical support. To show or display the console, select the "View → Console" menu item or click the "console icon" on the toolbar.

#### 3.3.4.1. Console tools:

The control features separate tools that are made available using the following functions:



**Delete console:** The displayed additional information is deleted from the console.



**Auto scroll on / off:** The "Auto scroll" function is activated or deactivated. If this function is activated, the scrollbar is automatically slid to the end once the additional information is added by the processes executed in the console.

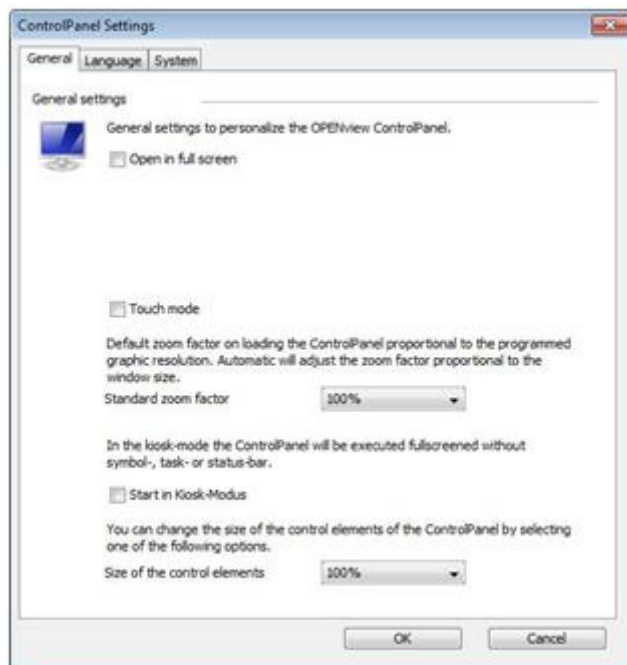
## 3.4. Settings

There is a selection of various options available for configuring the OPENview Control Panel.

### 3.4.1. General

#### Procedure

1. To display and edit the current configuration of the OPENview Control Panel, navigate to the menu bar and select the "Control Panel → Settings" menu item. Open the "General" tab.



**Open in full screen:** Activates or deactivates the full screen mode.

**Touch mode:** Activates or deactivates the Touch mode for operating the OPENview Control Panel using touch screen capable screens.

**Standard zoom factor:** Selects the standard zoom factors via a drop-down list.

**Start in Kiosk mode:** Activates or deactivates Kiosk mode.

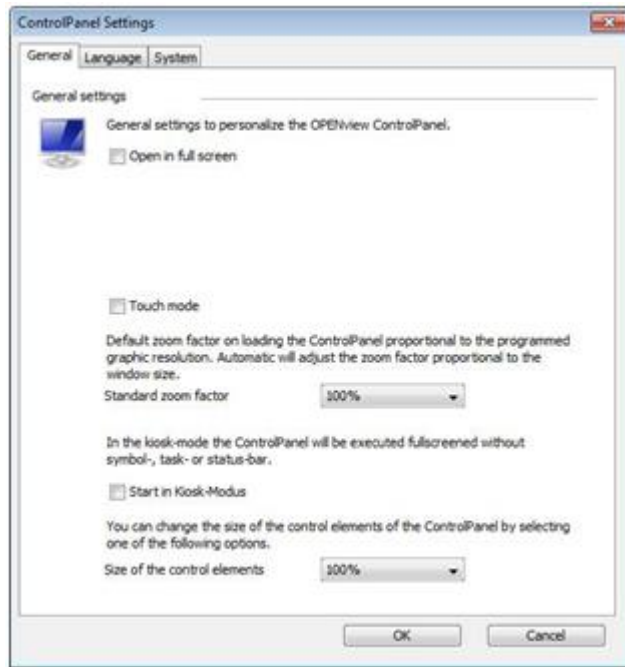
**Control element size:** Selection of the control element size via a drop-down list.

2. Select the desired options via the drop-down list or activate by selecting the option fields and confirm with "OK".



Changes only take effect after the OPENview Control Panel is restarted.

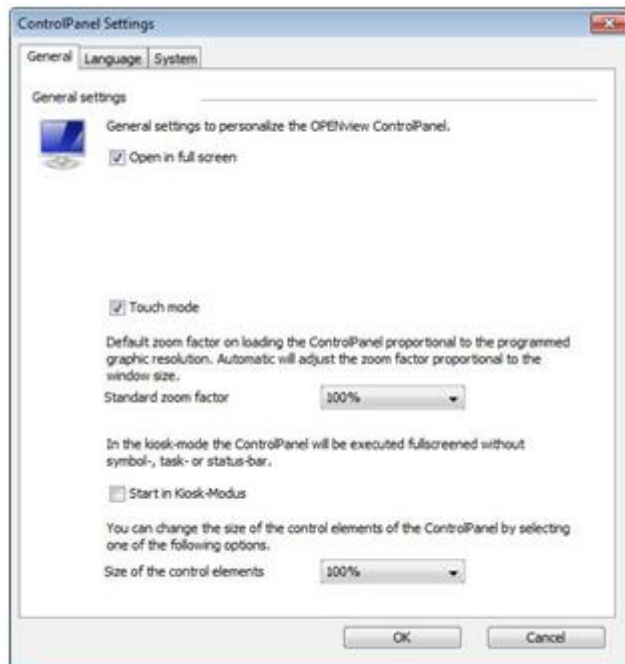
a)



### Open in full screen:

Activates or deactivates the full screen mode. When the full screen mode is activated, the entire area of the screen is used to display the OPENview Control Panel. The menu bar is hidden at the same time. In this case, the content of the menu bar can be called up using the title bar (→ left-click).

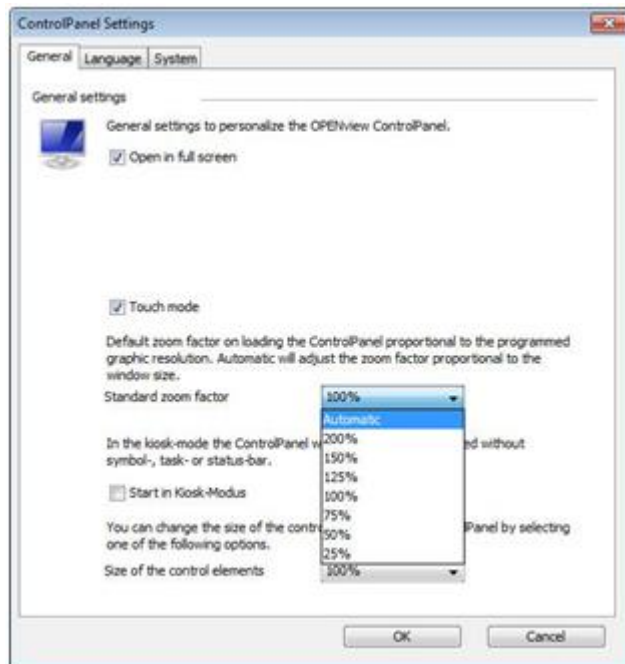
b)



### **Touch mode:**

Activates or deactivates the Touch function for operating the OPENview Control Panel using touch screen- capable screens. In Touch mode, all non-modal dialog calls of graphic pages are converted into modal dialog calls. An on-screen keyboard is displayed for the entries.

c)

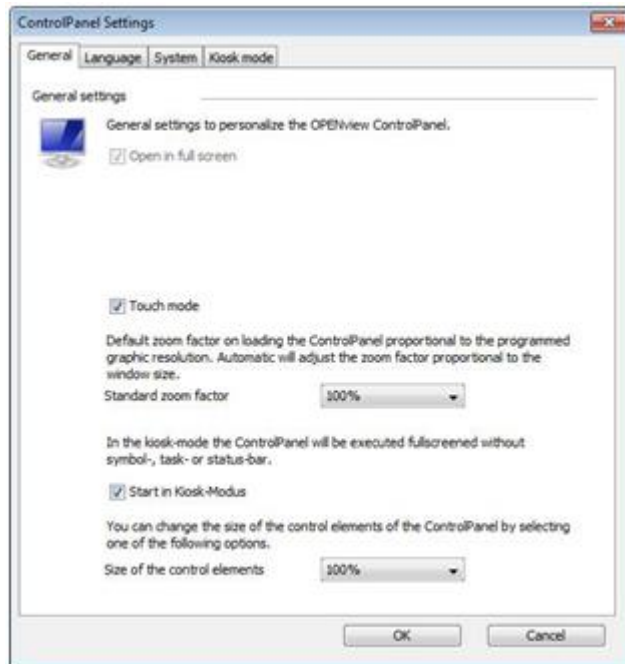


### **Standard zoom factor:**

Selects the standard zoom factor via a drop-down list. Using the standard zoom factor, the ratio of the programmed graphic resolution is defined for the window size, i.e. graphic pages are zoomed by the selected factor. (Standard 100 %)

**Exception:** when you select the "Automatic" option, the graphic page is adjusted to the respective available size of the application area. The page ratio remains the same.

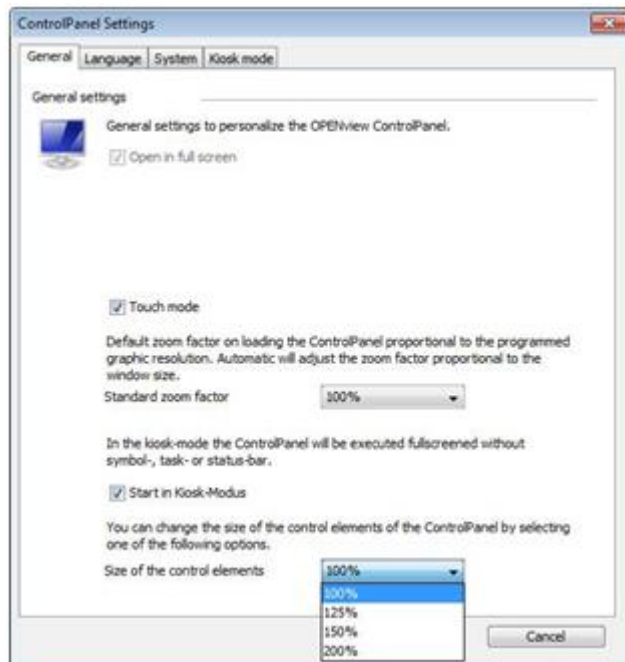
d)



**i Start in Kiosk mode:**

Activates or deactivates Kiosk mode. When Kiosk mode is activated, the entire area of the screen is used to display the OPENview Control Panel. At the same time, the OPENview Control Panel is executed with a limited user menu, i.e. without a menu bar and toolbar. In this case, the operator guidance is performed using a menu in the title bar.

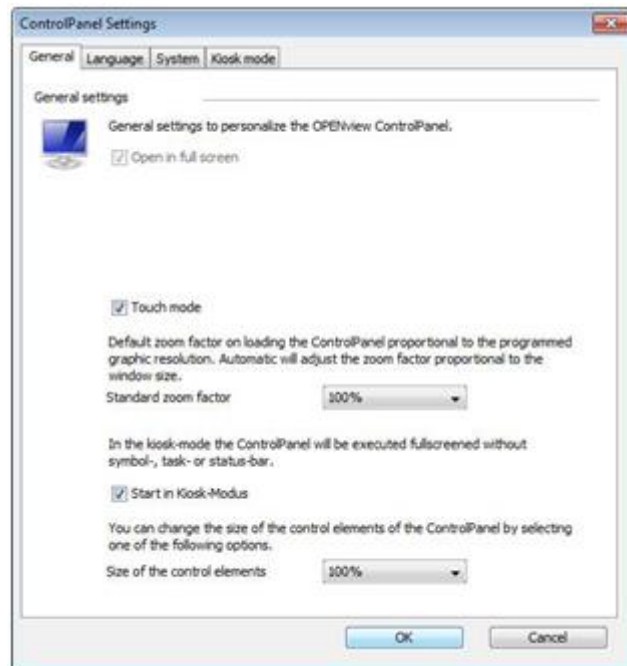
e)



**i Control element size:**

Selection of the control element size via a drop-down list. To simplify the operation of the OPENview Control Panel – especially with touch screen-capable screens – next to the toolbar icons, the elements of the menu bar, tree view and the context menu are enlarged by the selected factor. (Standard 100 %)

f)



### 3.4.2. Language

There is a selection of various translations available for using the OPENview Control Panel.



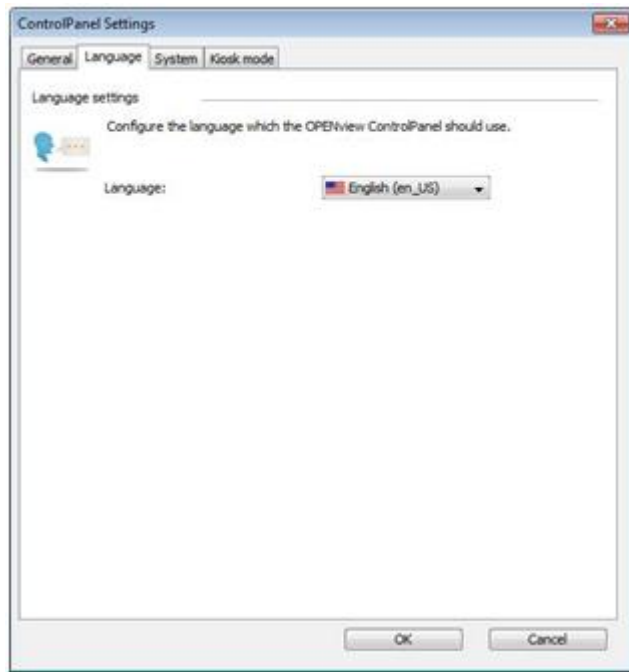
This setting can only be changed in the administrative area of the OPENview Control Panel.



The language setting does not affect the content and specifications of the controller program. It only affects the OPENview Control Panel user interface.

#### Procedure

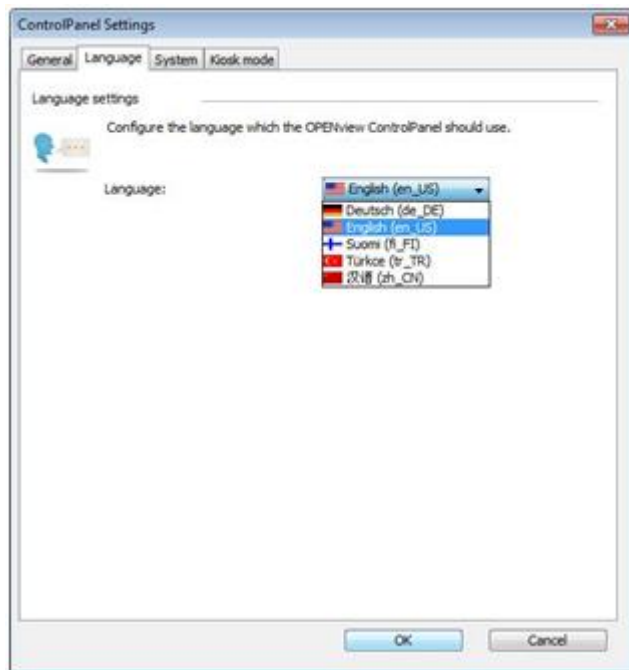
1. To display and edit the current configuration of the OPENview Control Panel, navigate to the menu bar and select the "Control Panel → Settings" menu item. Open the "Language" tab.



2. Select the desired language via the drop-down list and confirm with "OK".



Changes only take effect after the OPENview Control Panel is restarted.



### 3.4.3. System

The maximum amount of RAM assigned to the program is determined for using the OPENview Control Panel.

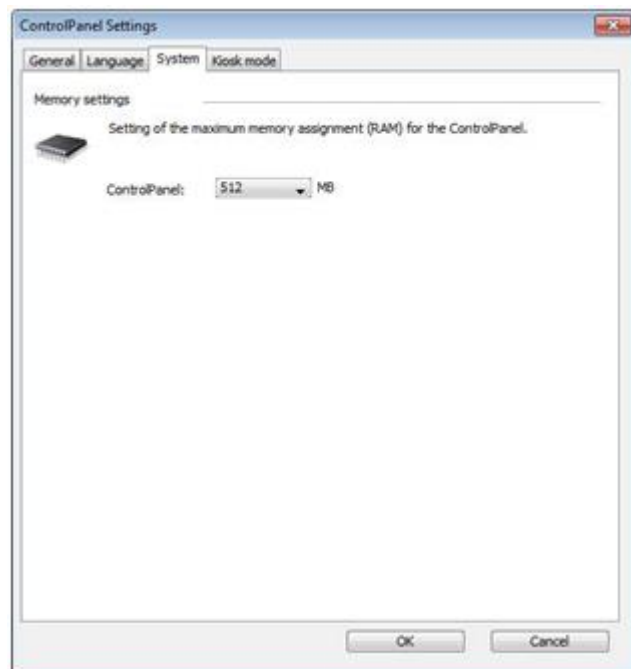


This setting can only be changed in the administrative area of the OPENview Control Panel.

#### Procedure

1. To display and edit the current configuration of the OPENview Control Panel, navigate to the menu bar and select the "Control Panel → Settings" menu item. Open the "System" tab.

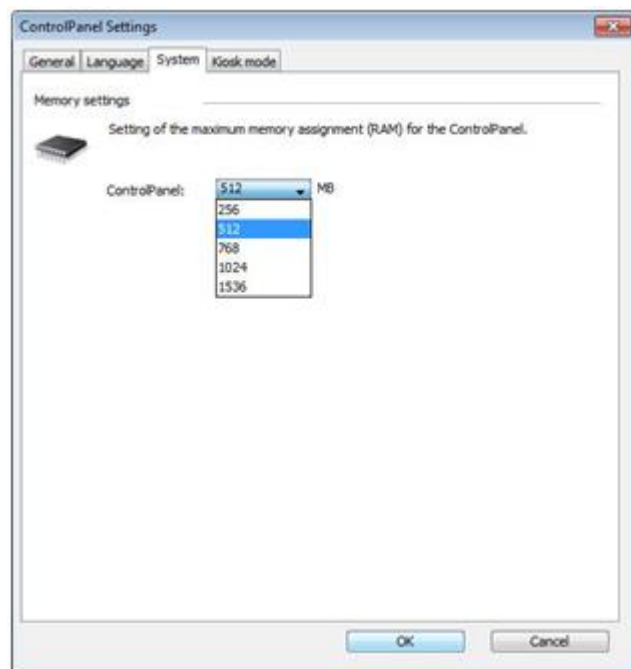




2. Select the maximum amount of RAM that the program is to be assigned via the drop-down list and confirm with "OK".



Changes only take effect after the OPENview Control Panel is restarted.



### 3.4.4. Kiosk mode

Additional options can be activated for using the OPENview Control Panel in Kiosk mode.



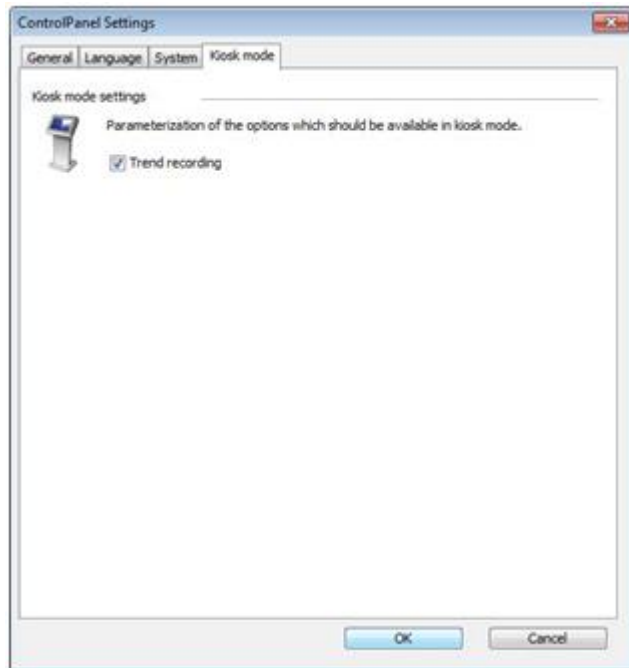
This setting can only be changed in the administrative area of the OPENview Control Panel and when Kiosk mode ("General" tab) is activated.

**Procedure**

1. To display and edit the current configuration of the Kiosk mode, navigate to the menu bar and select the "Control Panel → Settings" menu item. Open the "Kiosk mode" tab.
2. Select the desired options that are also to be activated in Kiosk mode by selecting the corresponding option fields and confirm with "OK".



Changes only take affect after the OPENview Control Panel is restarted.

**Trend recording:**

Activates or deactivates the trend recording in the OPENview Control Panel. If this function is activated and if the logged in user simultaneously has the corresponding access rights, the trend recording is displayed via the drop-down menu of the title bar.

## 4. Controller group management

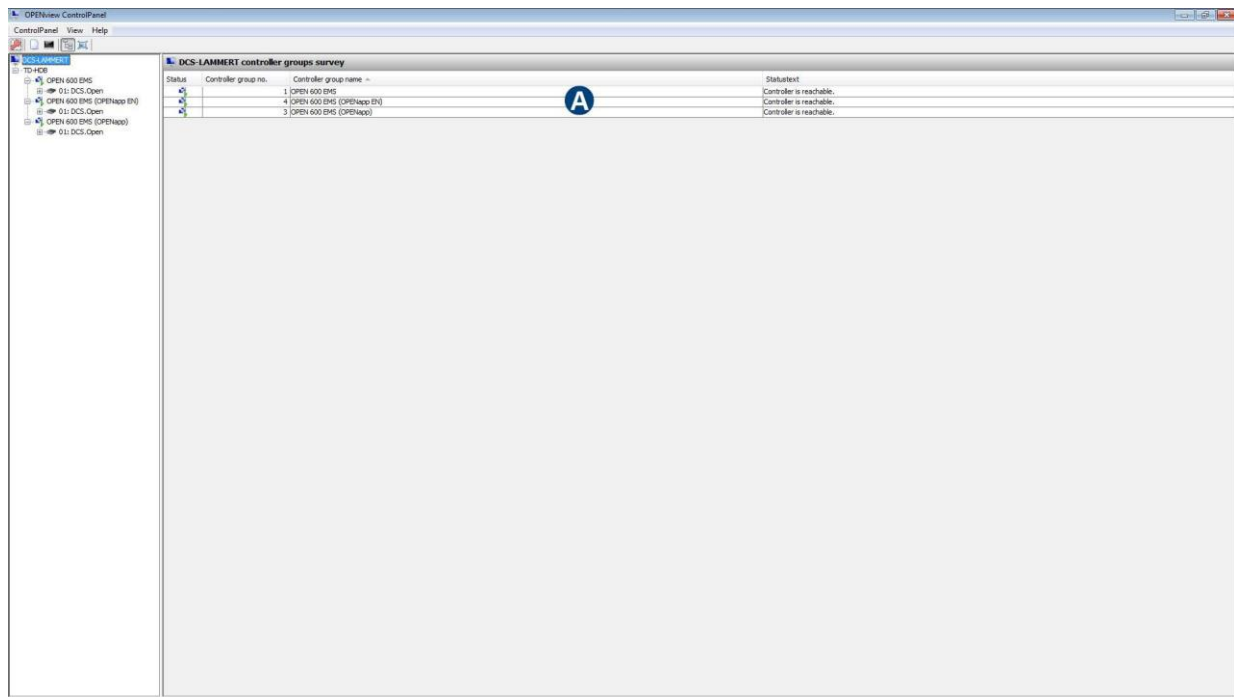
### 4.1. Overview of the controller groups

#### Procedure

1. All controller groups that are created in the OPENview Control Panel can be displayed and edited in a tabular overview in the application area.



To display this tabular overview, select the "PC" element in the tree view.







**A** Overview of the controller



#### Status:

The connection status between the OPENview Control Panel and the controller group is displayed.

Connection status	
	The controller group can be accessed from the OPENview Control Panel.
	The controller group cannot be accessed from the OPENview Control Panel.
	The data of the controller group is read.
	The settings and/or controller program of the controller group have been changed.

**Controller groups ID:** Display of the controller group ID number assigned by the OPENview Control Panel.

**Controller group name:** Display of the controller group name.

**Status text:** Display of the description of the current connection status of the controller group.

### 4.1.1. Context menu of the controller group overview

The selected (marked) controller groups of the overview are accessed via a context menu, which is displayed by right-clicking.



**Update controller group:** The data of the selected controller group is read again.



**Delete controller group:** The selected controller group is deleted from the OPENview Control Panel.



This function is only available in the administrative area of the OPENview Control Panel.

## 4.2. Controller group management

### 4.2.1. Create new controller group



This function is only available in the administrative area of the OPENview Control Panel.

#### Procedure

1. In the context menu, select the "New controller group" menu item. The wizard for creating a new controller group opens.

Alternatively, the wizard for creating a new controller group can be opened using the button in the toolbar. (Exception: Kiosk mode)



2. To designate the controller group, the name must be entered. If necessary, you can arrange the controller group of an individually defined folder structure in the lower level in the tree view. Enter the name and if necessary, the folder structure in the corresponding input fields and confirm with "Next".




**Information of the controller group name.**

**Folder structure:** Optional information of the controller group location in the tree view. To do this, the character "\" (backslash) must be used as a separator. (Example: TD-HDB\OPENapp\...)

- To establish the communication with the controller group, all the necessary connection information must be defined. Define the connection information via the drop-down list or the input fields and confirm with "Next".



**Interface:** Selection the interface, e.g. TCP/IP (Winsock), through which OPENview Control Panel is to communicate with the controller group.

**Host name:** Information of the controller group host name information, e.g. the IP address.

**Port:** Information of the port through which OPENview Control Panel is to communicate with the controller group.

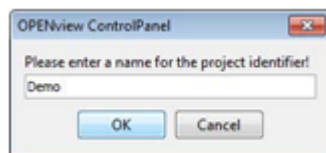
- To read out the controller group and save the data in the data folder of the OPENview Control Panel, confirm the summary of the entered parameters of the controller group with "Next".




- The window for defining the project ID opens. The existing project ID is displayed. If the displayed project ID is still to be used, confirm it with "OK".




The project ID may only contain the characters "a - z", "A - Z", "0 - 9" and "\_".



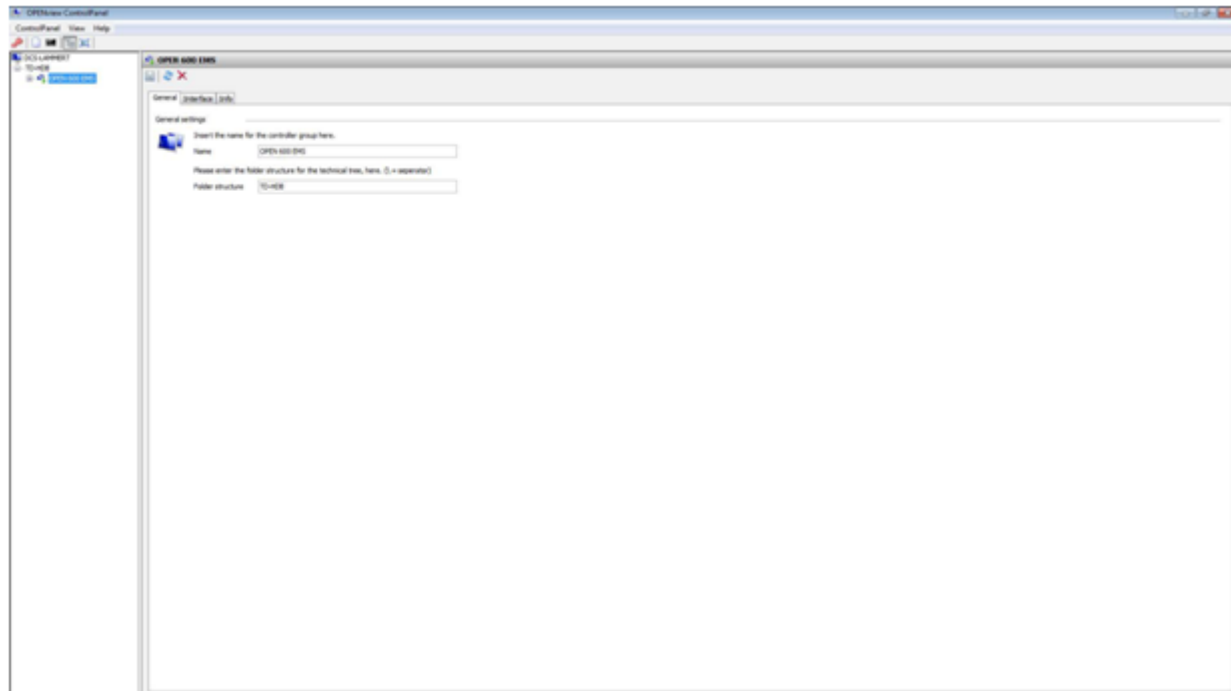
-  The project ID is saved for the ID in the OPENweb server Control Panel in the GSM-1000-BMX. Before the project ID is changed, you should ensure that the existing project ID is not being used by other systems, e.g. OPENweb, since otherwise this assignment is no longer possible there. If the project ID is still changed, the additional security prompt must be confirmed with "OK".



6. The connection to the controller group is established and the data is read out.

-  This procedure can take a minute, depending on the data volume to be processed and/or the connection quality.

7. If the data of the controller group is completely read, the controller group is added to the menu structure of the control panel (tree view) and the page for parameterizing the controller group opens in the navigation area. At the same time, the connection status between OPENview Control Panel and the Controller group is displayed.



#### 4.2.2. Updating a controller group

##### Procedure

1. Select the desired controller group in the tree view, open the context menu and select the "Update controller group" menu item.



Alternatively, a controller group can be parameterized in the toolbar of the control group parameterization. (Exception: Kiosk mode)

2. The controller group is updated.



This procedure can take a minute, depending on the data volume to be processed and/or the connection quality.

#### 4.2.3. Deleting a controller group



This function is only available in the administrative area of the OPENview Control Panel.

##### Procedure

1. Select the desired controller group in the tree view, open the context menu and select the "Delete controller group" menu item.

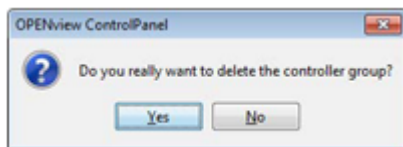


Alternatively, a controller group can be deleted in the toolbar of the control group parameterization. (Exception: Kiosk mode)

2. If the controller group is to be irrevocably deleted, you have to confirm the additional security query with "Yes". The controller group is deleted.

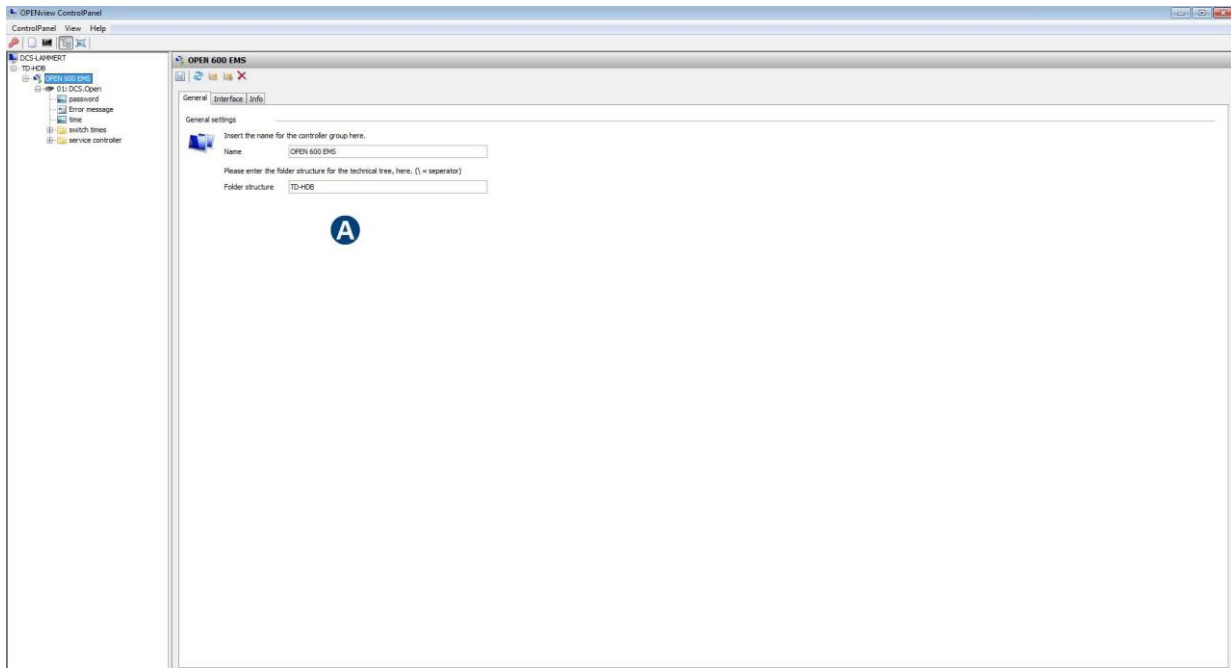


This procedure can take a minute, depending on the data volume to be processed and/or the connection quality.



### 4.3. Parameterizing controller groups

On the page for parameterizing a controller group, settings, etc. can be adjusted, information to the controller group can be displayed and the trend data can be visualized or parameterized.



**A** Parameterizing controller groups

#### 4.3.1. Tools for parameterizing controller groups

The page for parameterizing the controller group features separate tools that can be executed using the following functions (commands):



**Save:** The controller group settings are saved.



This function is only available in the administrative area of the OPENview Control Panel.



**Update the controller group:** The selected controller group is updated.



**Delete controller group:** The selected controller group is deleted.



This function is only available in the administrative area of the OPENview Control Panel.



**Trend recording:** The trend recording of a data point is opened in a separate window.



The availability of this function depends on the access rights of the logged in user to GSM-1000-BMX.



**Trend configuration:** The trend configuration of the controller group is opened in a separate window.



The availability of this function depends on the access rights of the logged in user to GSM-1000-BMX.



### 4.3.2. General



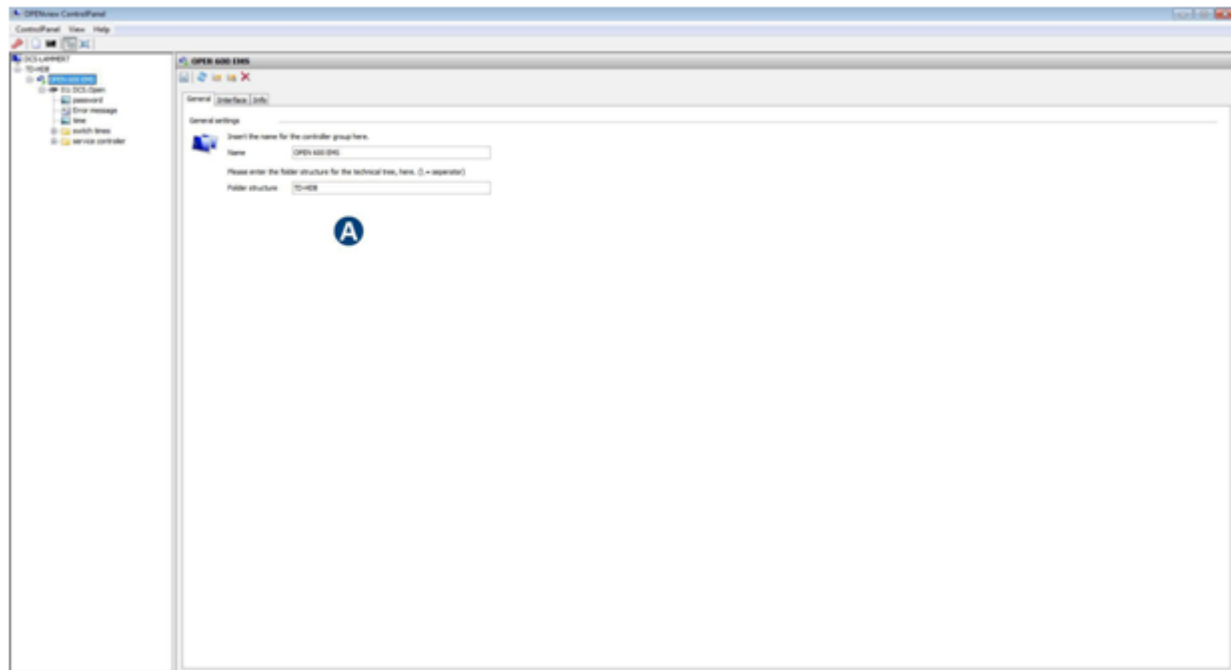
This function is only available in the administrative area of the OPENview Control Panel.

#### Procedure

1. The designation and location of the controller group in the menu structure of the controller group management (tree view) can be changed at any time.



To save the changes, click the button.



**A** Parameterizing controller groups - "General" tab



**ame:** Information of the controller group name.

**Folder structure:** Information of the controller group location in the tree view. If necessary, you can arrange the controller group of an individually defined folder structure in the lower level in the tree view. To do this, the character "\" (backslash) must be used as a separator. (Example: TD-HDB\OPENapp\...)

### 4.3.3. Interface



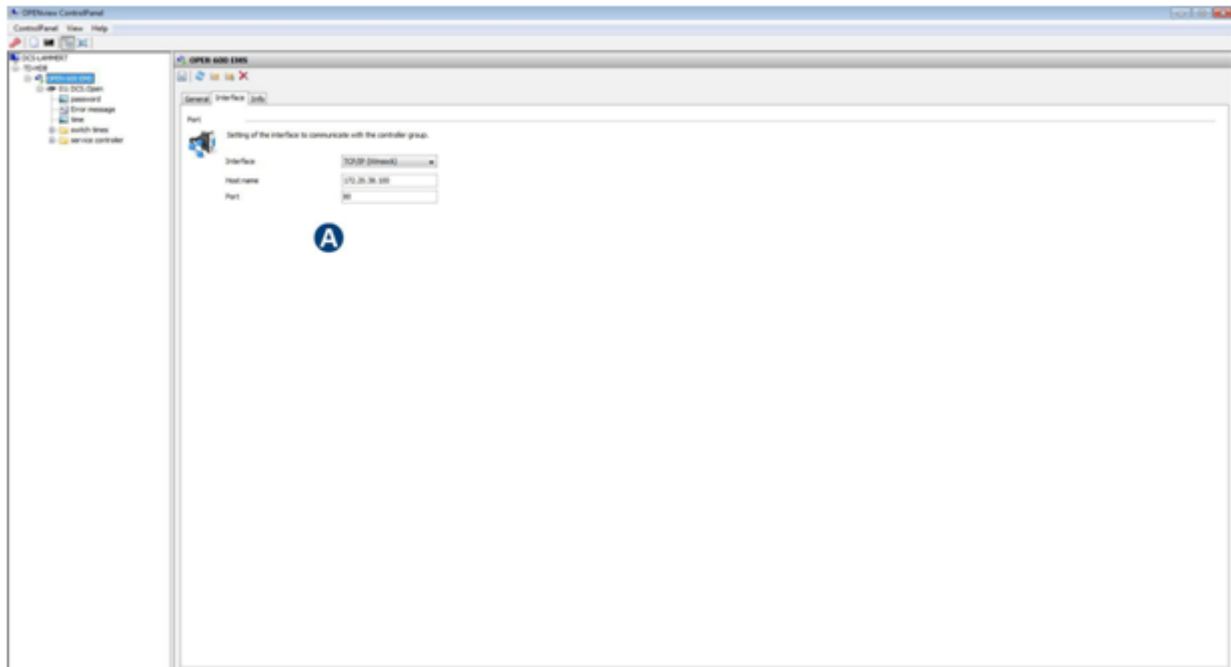
This function is only available in the administrative area of the OPENview Control Panel.

#### Procedure

1. The communication information of the controller group can be changed at any time.



To save the changes, click the button.



**A** Parameterizing controller groups - "Interface" tab



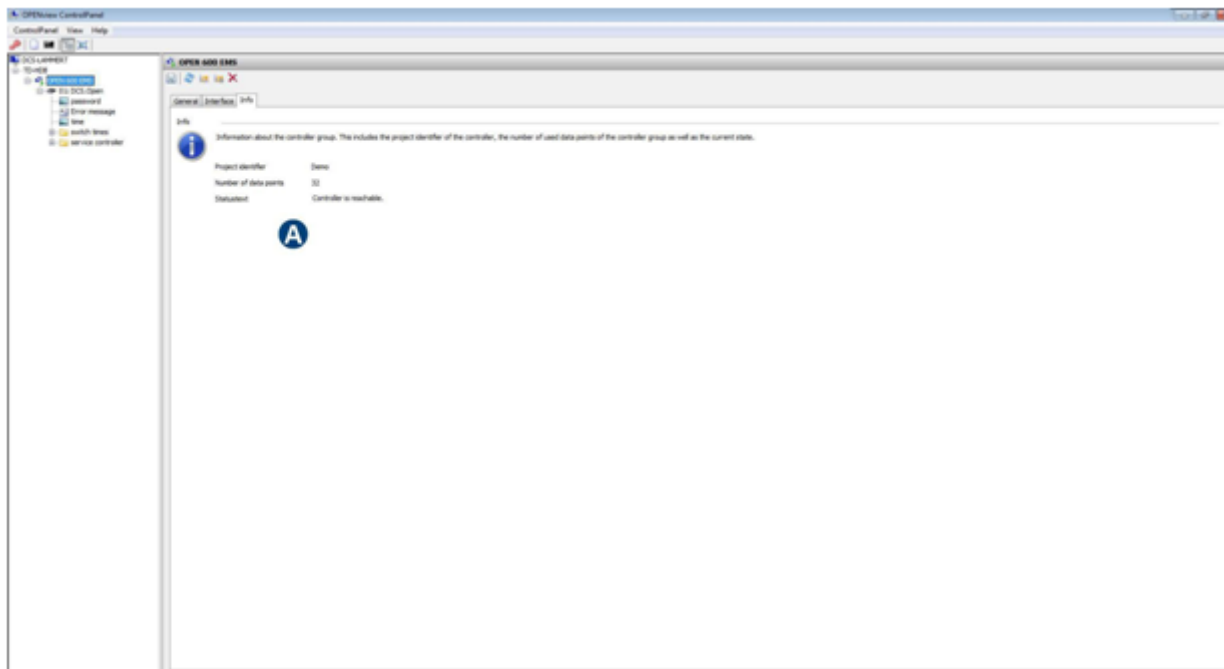
**Interface:** Selection the interface, e.g. TCP/IP (Winsock), through which OPENview Control Panel is to communicate with the controller group.

**Host name:** Information of the controller group host name information, e.g. the IP address.

**Port:** Information of the port through which OPENview Control Panel is to communicate with the controller group.

### 4.3.4. Information

Information about the controller group is displayed.



**A** Parameterizing controller groups - "Info" tab



**Project ID:** Display on the project ID.

**Number of data points:** Display of the number of all physical data points.

**Status text:** Display of the current status of the controller group.

## 5. Operation

Using the menu structure of the controller group management (tree view), you can display the individual elements of a GSM-1000-BMX unit with various functions and settings. The arrangement of these elements here corresponds to the project already defined in FXL with the corresponding structure.

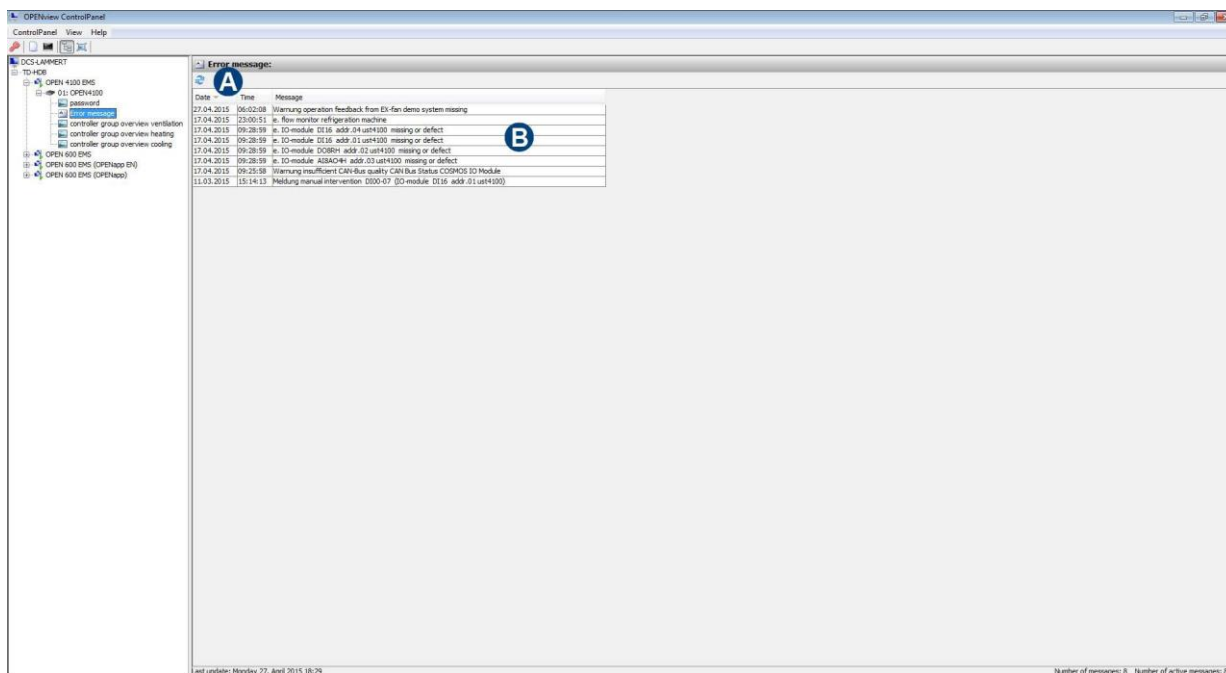
To open the lower level content of an element and visualize graphic and text pages in the application area, click the desired element.

The unit is then operated and configured using the respective input fields of the graphic and text elements. The entries are saved and forwarded to the controller for processing.

### 5.1. Active events

Active events of a GSM-1000-BMX are displayed on the "Fault message" text page in a table overview specifying the date and time and the event text. The content of the tabular overview can be sorted using the respective column headers.

Figure graphic user interface



**A** Toolbar

**B** Tabular overview of active events

#### 5.1.1. Active event tools

The "Fault messages" text page features separate tools that can be executed using the following functions (commands):




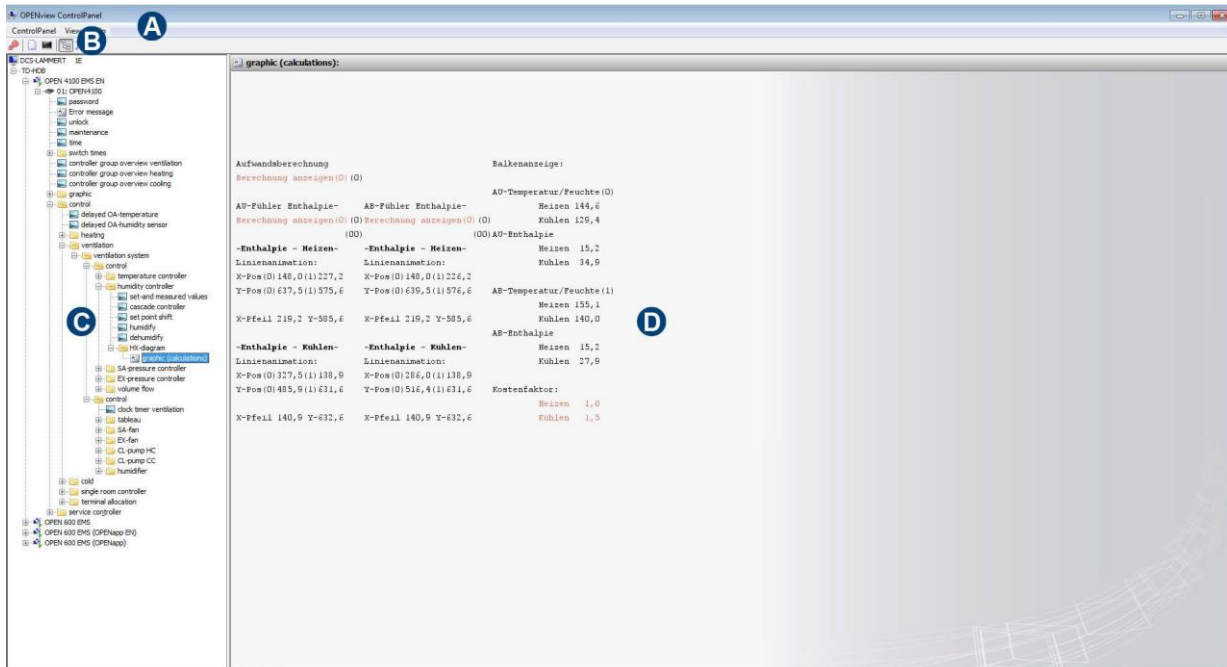
**Refresh:** The active events are read out again by the GSM-1000-BMX.

## 5.2. Text pages

### Procedure


1. Text pages contain text elements that were projected using FXL.

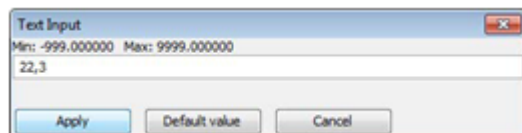
 Text pages are marked in the tree view by this icon. To open a text page, select the corresponding element in the tree view. The text page then opens in the application area.



- A** Menubar
- B** Toolbar
- C** Menu structure of the controller group management (tree view)
- D** Application area

2. If text elements of a text page are marked in red, they can be edited. To edit a text element, click the corresponding text. The window for editing the text element opens.
3. Enter the desired values or select if necessary or select a drop-down list and confirm with "Apply". The entries are saved and forwarded to the controller for processing.


 To reset values of a text element that have already been changed to the default values, click the "Default values" button. Then confirm the entry with "Apply".




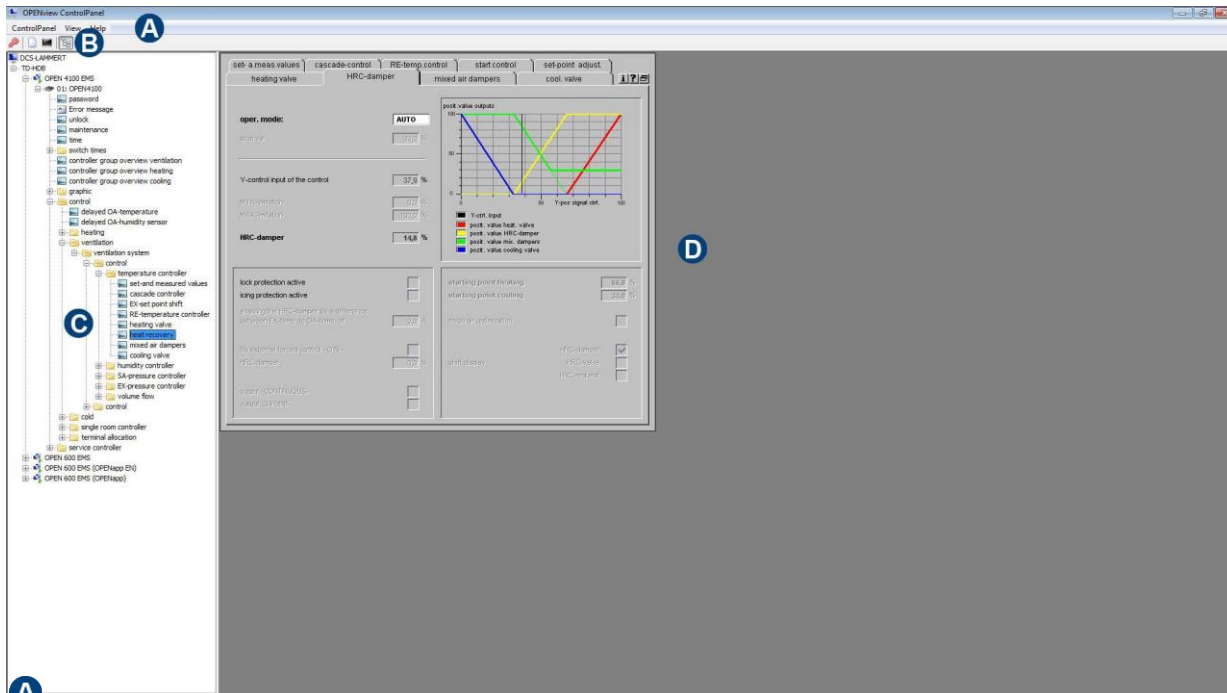
## 5.3. Graphic pages

### Procedure

- Graphic pages contain dynamic graphic elements that were projected with FXL.

 Graphic pages are marked in the tree view by this icon. To open a graphic page, select the corresponding element in the tree view. The graphic page then opens in the application area.

 It can take a minute to open a graphic page, depending on the data volume to be processed and/or the connection quality.



- A** Menubar
- B** Toolbar
- C** Menu structure of the controller group management (tree view)
- D** Application area

- The layout of a graphic page and the graphic elements contained therein along with their different functions generally depend on the projection with FXL.
- Graphic elements, for example, can be operated using simple mouse clicks, drop-down lists, option or multiple option fields, input fields, etc. The entries are saved and forwarded to the controller for processing.

## 5.4. Trend

All data points of a GSM-1000-BMX linked to the current graphic page can be added, parameterized and shown in a graphic display for the trend recording via the OPENview Control Panel.

### 5.4.1. Data point selection

Before the trend can be parameterized, the trend configuration must be completely initialized. When reading out the GSM-1000-BMX, the initialization step is automatically performed and can take a minute, depending on the data volume to be processed and/or the connection quality.

#### 5.4.1.1. Direct data point selection



This function is only available if the mouse pointer is positioned over a graphic element, which is linked to a data point.

#### Procedure

1. To directly select the data point, move the mouse pointer over the graphic element that was linked to a data point in FXL. Then open the context menu and select the "Trend → " context menu item.
2. Depending on the usage status of the selected data point, the following options for directly selecting the data point are available in the context menu:



Creating a parameterization for the trend recording: There is no parameterization for recording trend data available yet for this data point. To create a parameterization for this data point to record trend data, the window to the data point selection opens.



When selecting a data point for which no parameterization is yet available for the trend recording, continue with section „Trend parameterization“.



Open trend recording of data point:

Trend data of this data point is already available. To display the recorded trend data, the "Trend recording" window opens.



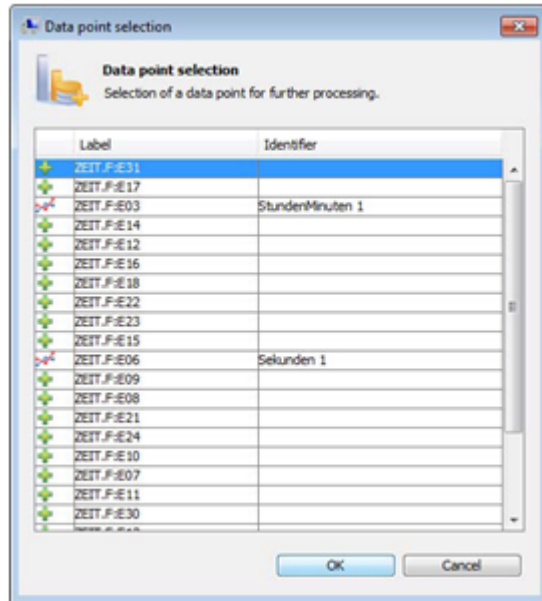
When selecting a data point for which trend data is already available, continue with section „Trend recording“.

## 5.4.1.2. Indirect data point selection

All data points of a GSM-1000-BMX linked to the current graphic page can be added, parameterized and shown in a graphic display for the trend recording via the OPENview Control Panel.

Procedure

1. To indirectly select a data point, open the context menu and select the "Trend → Data point" context menu item. The window for selecting the data point opens.



2. All the data points linked to the current graphic page are listed in the window for selecting the data point. The usage status of the data points are marked here as follows:



Creating a parameterization for the trend recording: There is no parameterization for recording trend data available yet for this data point.



Open trend recording of data point: Trend data of this data point is already available.

3. Select the desired data point and confirm with "OK". Depending on the selection, the window for defining the trend parameterization or the "Trend recording" window opens.



## 5.4.2. Slot selection



Before the trend can be parameterized, the trend configuration must be completely initialized. When reading out the GSM-1000-BMX, the initialization step is automatically performed and can take a minute, depending on the data volume to be processed and/or the connection quality.



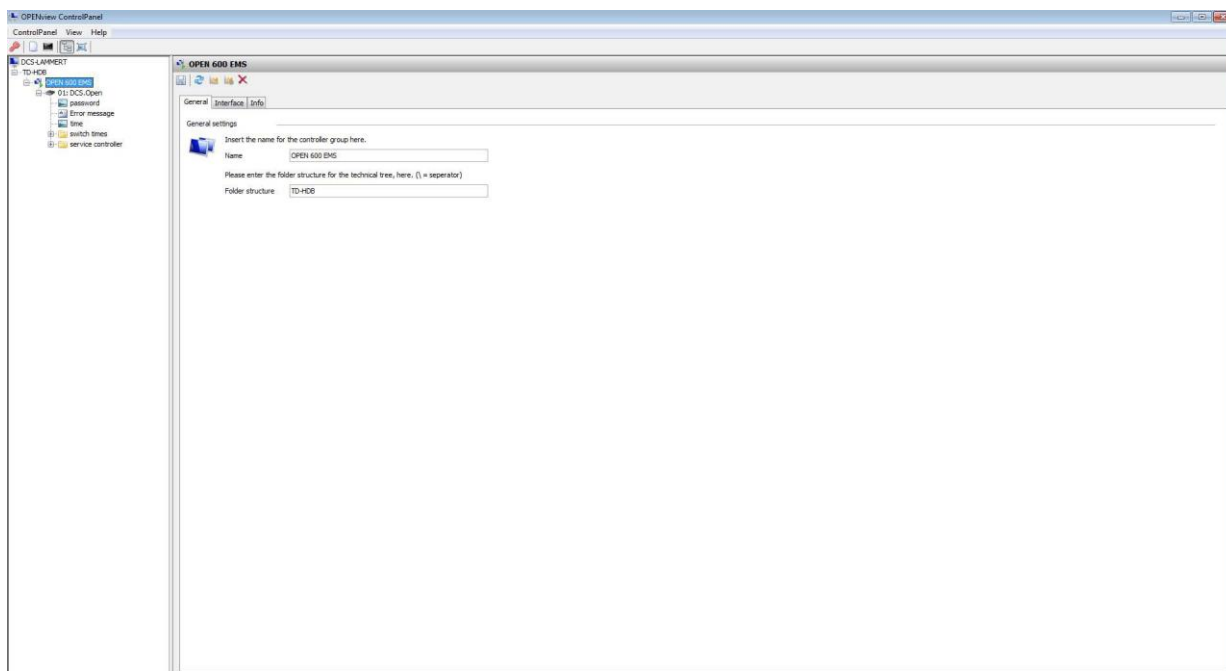
This function is only available to logged in users with corresponding access rights.

### Procedure

1. All slots that are already used for the trend recording of a data point can be selected individually and displayed in a graphic in the trend recording.



Select the desired controller group in the tree view and open the page for parameterizing the controller group.

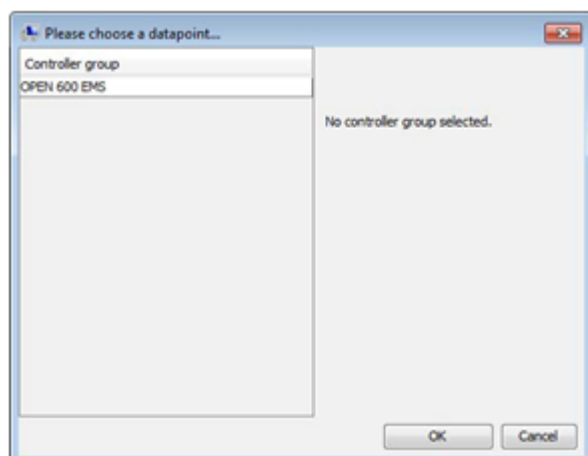


- A Menu structure of the controller group management
- B (tree view)Toolbar for parameterizing controller groups
- C Parameterizing controller groups

2. The page for parameterizing the controller group features separate tools.

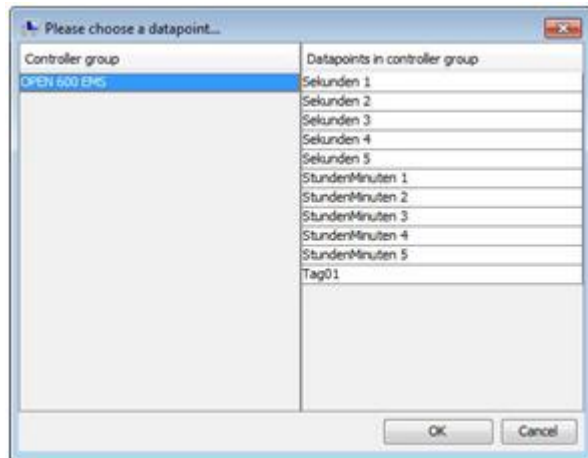


To select an available slot that is already used for the trend recording, click the button. The window for selecting the slot opens.

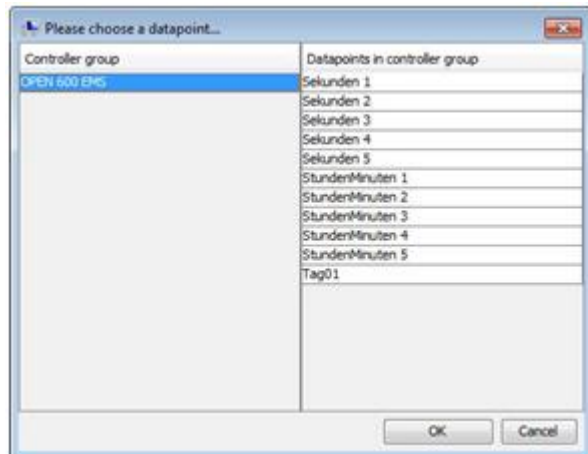


3. Select the desired controller group first and then the slot. Confirm the selection with "OK". The "Trend recording" window opens.

a)



b)



## 5.4.3. Trend parameterization



Before the trend can be parameterized, the trend configuration must be completely initialized. When reading out the GSM-1000-BMX, the initialization step is automatically performed and can take a minute, depending on the data volume to be processed and/or the connection quality.



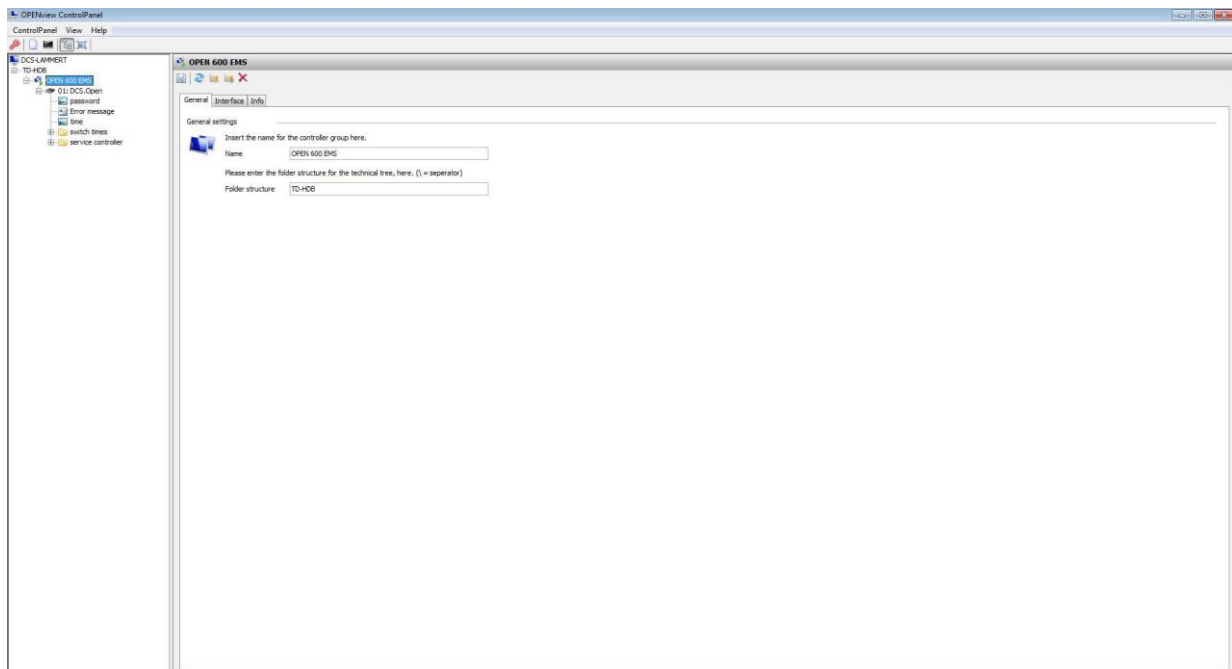
This function is only available to logged in users with corresponding access rights.

### Procedure

1. The data points parameterized for the trend recording can be displayed and edited in a tabular overview in a separate window.



Select the desired controller group in the tree view and open the page for parameterizing the controller group.



- A** Menu structure of the controller group management Menu (tree view)
- B** Toolbar for parameterizing controller groups
- C** Parameterizing controller groups

2. The page for parameterizing the controller group features separate tools.

To display the available trend parameterization in the tabular overview, click this button. The trend parameterization window opens.

Slot-No.	Identifier	Main interval	Interval	Time	COV	Label	Factor	Offset	Enable	StopWhenFull
1	Sekunden 1	Sekunde	1	--:--	0.0	ZEIT.F:E06	1.0	0.0		
2	Sekunden 2	Sekunde	2	--:--	0.0	ZEIT.F:E06	1.0	0.0		
3	Sekunden 3	Sekunde	3	--:--	0.0	ZEIT.F:E06	1.0	0.0		
4	Sekunden 4	Sekunde	4	--:--	0.0	ZEIT.F:E06	1.0	0.0		
5	Sekunden 5	Sekunde	5	--:--	0.0	ZEIT.F:E06	1.0	0.0		
6	StundenMi...	Minute	1	--:--	0.0	ZEIT.F:E03	1.0	0.0		
7	StundenMi...	Minute	2	--:--	0.0	ZEIT.F:E03	1.0	0.0		
8	StundenMi...	Minute	3	--:--	0.0	ZEIT.F:E03	1.0	0.0		
9	StundenMi...	Minute	4	--:--	0.0	ZEIT.F:E03	1.0	0.0		
10	StundenMi...	Minute	5	--:--	0.0	ZEIT.F:E03	1.0	0.0		

  Parameterized in FUP XL
   Parameterized at runtime
   The FUP XL parameterization was overwritten

**A** Toolbar

**B** Trend parameterization (tabular overview example in Expert mode)

### 5.4.3.1. Trend parameterization tools

The tabular overview of the available trend parameterization features separate tools that can be executed using the following functions (commands):

- Save:** The current trend parameterization is saved to the controller.
- Refresh:** The trend parameterization is refreshed. By using the refresh option, the local available parameters are discarded and read again by the controller.
- Expert mode:** Additional columns (label, factor, offset, enable and StopWhenFull) of the tabular overview of the available trend parameterization are displayed.

### 5.4.3.2. Trend parameterization context menu

The tabular overview of the available trend parameterization features a separate context menu that is available using the right mouse button.

#### Restoring the FXL configuration:

If a data point that was parameterized for the trend recording in FXL has been overwritten by OPENview, the original FXL configuration can be restored.

## 5.4.3.3. Adding data points to the trend recording

### Procedure

1. To add and parameterize a data point for the trend recording, select the desired data point by selecting the direct or indirect data point selection option so that the window for the trend parameterization opens.
2. To parameterize the data point, add the required information using the input fields or select using the drop-down list. Then confirm this information with "OK".



In Expert mode, additional information for subsequently displaying in the trend data in the trend recording can also be added. To activate Expert mode, select the checkbox (see figure e).



In FXL, the slots are assigned in ascending order starting with "1". In the OPENview Control Panel, the slots are assigned in descending order starting with "250". If necessary, slots already in use can be overwritten.

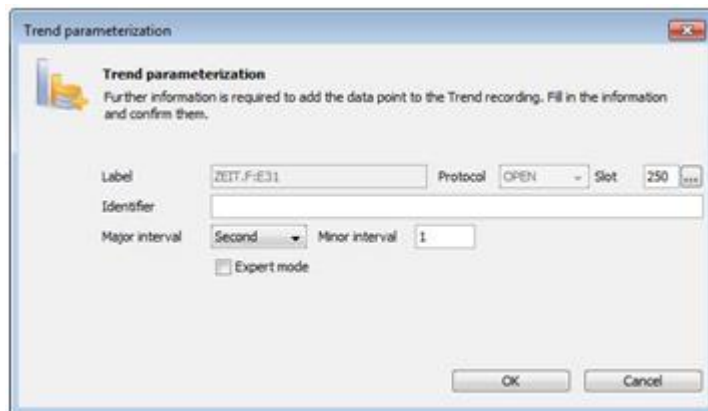


If necessary, the slot information that is relevant for the trend recording can be changed. If the slot information is to be changed, the comments in item 4 and 5 must be observed.

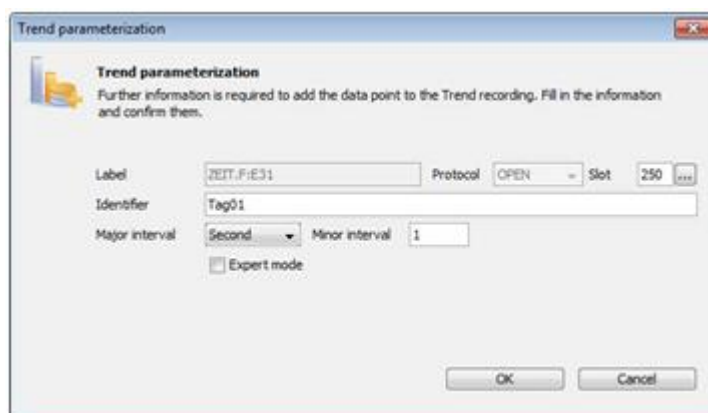


The information depends on the selection of the primary interval (time basis). The display of the window for the trend parameterization may deviate from this documentation.

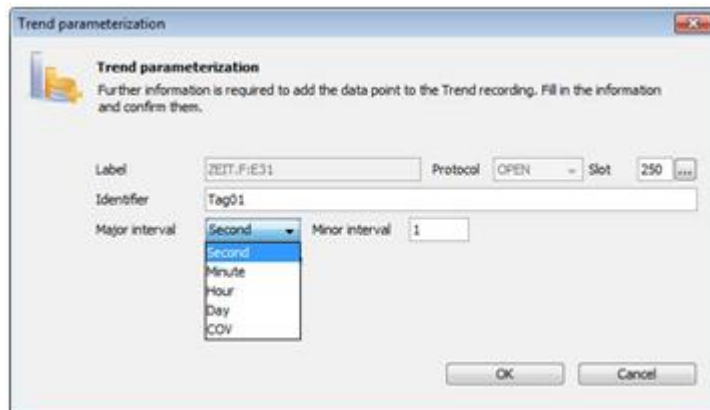
a)



b)



c)



**Trend parameterization**

Further information is required to add the data point to the Trend recording. Fill in the information and confirm them.

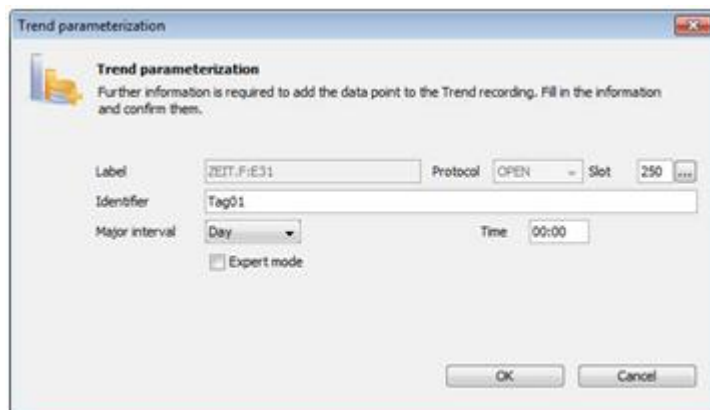
Label: ZEIT.F:ES1 Protocol: OPEN Slot: 250

Identifier: Tag01

Major interval: Second (dropdown menu open showing: Second, Minute, Hour, Day, COV) Minor interval: 1

OK Cancel

d)



**Trend parameterization**

Further information is required to add the data point to the Trend recording. Fill in the information and confirm them.

Label: ZEIT.F:ES1 Protocol: OPEN Slot: 250

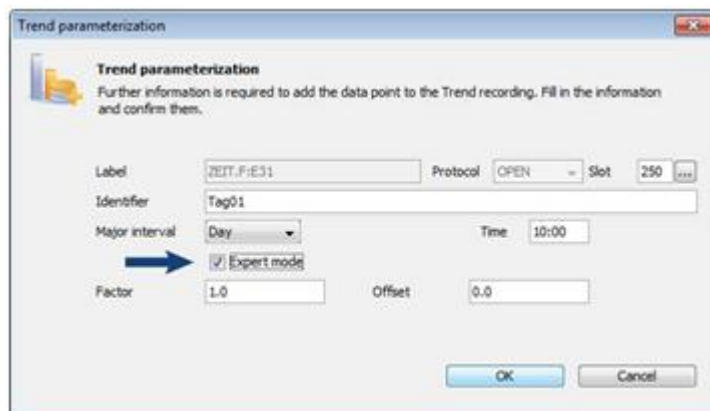
Identifier: Tag01

Major interval: Day Time: 00:00

☐ Expert mode

OK Cancel

e)



**Trend parameterization**

Further information is required to add the data point to the Trend recording. Fill in the information and confirm them.

Label: ZEIT.F:ES1 Protocol: OPEN Slot: 250

Identifier: Tag01

Major interval: Day Time: 10:00

☒ Expert mode

Factor: 1.0 Offset: 0.0

OK Cancel

- If necessary, the slot information that is relevant for the trend recording can be changed. To do this, you should first check whether the desired slot is already being used for recording the trend of a data point.

To display the slots that are already in use, click this button. The overview of the slots that are already in use is opened in a separate window.

If the desired slot has not yet been assigned a data point, close the window using the "Cancel" button. Then enter the desired slot number in the "Slot" input field and confirm the trend parameterization settings with "OK".

Slot-Nr.	Identifier	Main interval	Interval	Time	COV
1	Sekunden 1	Sekunde	1	-- --	0.0
2	Sekunden 2	Sekunde	2	-- --	0.0
3	Sekunden 3	Sekunde	3	-- --	0.0
4	Sekunden 4	Sekunde	4	-- --	0.0
5	Sekunden 5	Sekunde	5	-- --	0.0
6	StundenMinuten 1	Minute	1	-- --	0.0
7	StundenMinuten 2	Minute	2	-- --	0.0
8	StundenMinuten 3	Minute	3	-- --	0.0
9	StundenMinuten 4	Minute	4	-- --	0.0
10	StundenMinuten 5	Minute	5	-- --	0.0

Parameterized in FUP XL
Parameterized at runtime
The FUP XL parameterization was overwritten

OK Cancel

- If necessary, a slot already in use can be overwritten by a new parameterization step. To display the trend data point, click this button so that the tabular overview of all slots opens in a

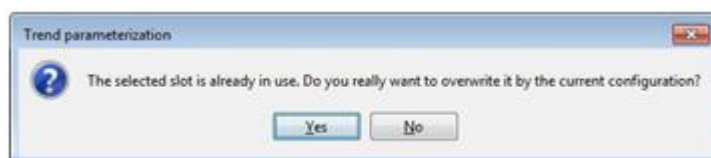
separate window. Select the desired slot and confirm with "OK". The window closes. The previously selected slot number is transferred in the "Slot" input field. Then confirm the trend parameterization settings with "OK".

Slot-Nr.	Identifier	Main interval	Interval	Time	COV
1	Sekunden 1	Sekunde	1	-- --	0.0
2	Sekunden 2	Sekunde	2	-- --	0.0
3	Sekunden 3	Sekunde	3	-- --	0.0
4	Sekunden 4	Sekunde	4	-- --	0.0
5	Sekunden 5	Sekunde	5	-- --	0.0
6	StundenMinuten 1	Minute	1	-- --	0.0
7	StundenMinuten 2	Minute	2	-- --	0.0
8	StundenMinuten 3	Minute	3	-- --	0.0
9	StundenMinuten 4	Minute	4	-- --	0.0
10	StundenMinuten 5	Minute	5	-- --	0.0
220	Tag01	Tag	12	10:00	9.1

Parameterized in FUP XL
Parameterized at runtime
The FUP XL parameterization was overwritten

OK Cancel

- If the current trend parameterization of a slot is to be overwritten, the security prompt must be confirmed with "Yes"



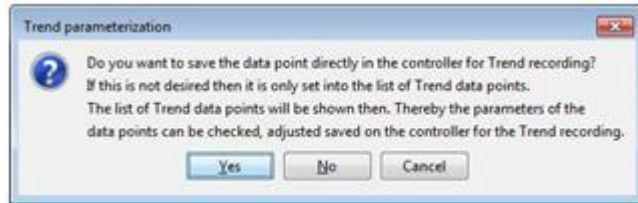
6. The following options are available to save the slot parameterization:

**Option 1:**

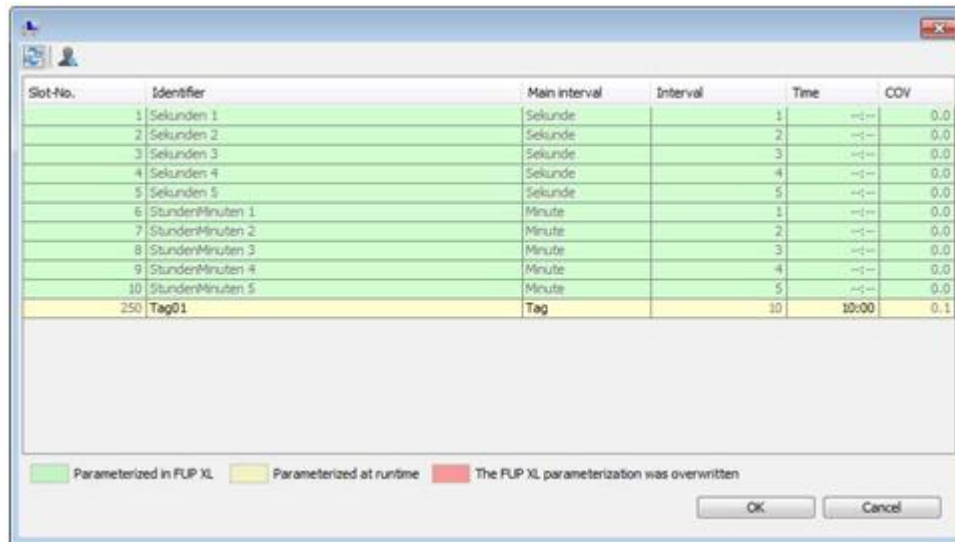
If the slot parameterization is to be saved directly in the controller, it must be confirmed with "Yes".

**Option 2:**

If the slot parameterization is not to be saved directly in the controller, it must be confirmed with "No". In this case, the tabular overview of the trend parameterization is displayed and the slot is amended or changed so the parameters can be subsequently checked or edited if necessary.



7. After all the required information for the slot parameterization has been provided, the slot parameterization is added to the tabular overview and marked in color accordingly (see table below).



Slot-No.	Identifier	Main interval	Interval	Time	COV
1	Sekunden 1	Sekunde	1	-- --	0.0
2	Sekunden 2	Sekunde	2	-- --	0.0
3	Sekunden 3	Sekunde	3	-- --	0.0
4	Sekunden 4	Sekunde	4	-- --	0.0
5	Sekunden 5	Sekunde	5	-- --	0.0
6	StundenMinuten 1	Minute	1	-- --	0.0
7	StundenMinuten 2	Minute	2	-- --	0.0
8	StundenMinuten 3	Minute	3	-- --	0.0
9	StundenMinuten 4	Minute	4	-- --	0.0
10	StundenMinuten 5	Minute	5	-- --	0.0
250	Tag01	Tag	10	10:00	0.1

■ Parameterized in FUP XL
 ■ Parameterized at runtime
 ■ The FUP XL parameterization was overwritten

**Color slot marking:**

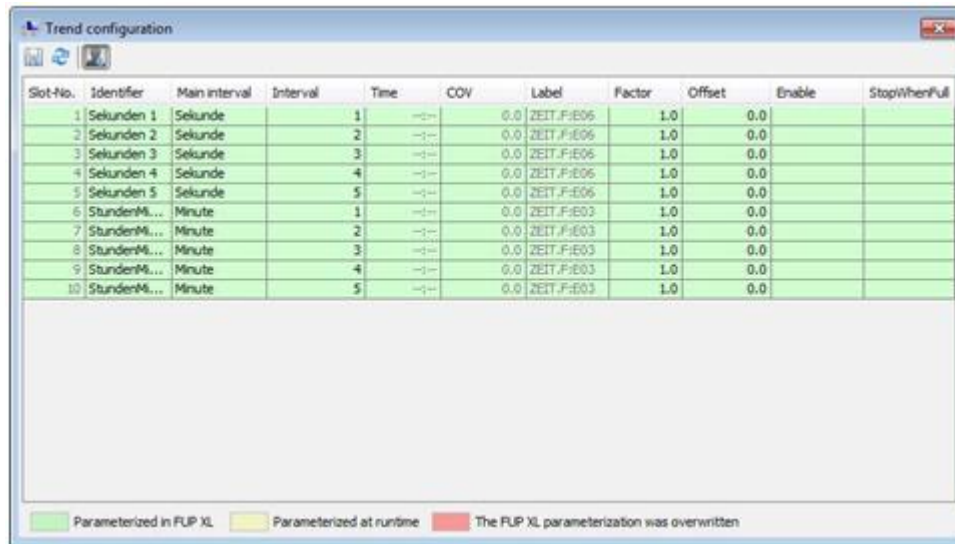
Color	Info
<span style="color: green;">■</span>	The slot was parameterized in FXL for the trend recording.
<span style="color: yellow;">■</span>	The slot was parameterized during the runtime for the trend recording.
<span style="color: red;">■</span>	The FXL slot parameterization was overwritten.



## 5.4.3.4. Adjusting the trend parameterization

### Procedure

1. Open the trend parameterization window.



**i** **Slot no.:** Displays the slot number. A total of up to 250 slots can be parameterized.



In FXL, the slots are assigned in ascending order starting with "1". In the OPENview Control Panel, the slots are assigned in descending order starting with "250". If necessary, slots already in use can be overwritten.

**Designation:** Information on the slot designation.

**Primary interval:** Information on the time basis (main interval) for the trend recording of the data point.

**Secondary interval:** Information of the interval (scanning rate) for the time basis (primary interval).

	Interval				
	Seconds	Minute	Hour	Day	COV
Range of interval values	1 to 59	1 to 1439	1 to 23	1	–

**Time:** Time information (format 00:00 to 23:59).



This information is only possible in conjunction with the "day" time basis (primary interval).

**COV (change of value):** Recording of a value in case it changes, i.e. if the value of a data point changes by the value specified here.



The information is only possible in conjunction with the "COV" primary interval.

**Label:** Display of the variable name of the data point in the controller program.



This column is only available in Expert mode.

**Factor:** Information of a value that can be interpreted accordingly in the visualization of the data point.



This column is only available in Expert mode.

**Offset:** Information of a value that can be interpreted accordingly in the visualization of the data point.



This column is only available in Expert mode.

**Enable:** Information of the variables which enable the trend recording.

The information of the variables is provided by the variable designation (label).

Status	Value of the	
	0	≠ 0
The slot is ...	... not enabled	... enabled

\* If no variable values are to be entered, the trend recording is enabled.



This column is only available in Expert mode.

**StopWhenFull:** Information of the variables which controls how the trend recording is saved. The information of the variables is provided by the variable designation (label).

Save mode	Value of the	
	0	≠ 0
The trend data is saved ...	... in the ring buffer	... until the memory is

\* If no variable values are to be entered, the trend recording is enabled.



This column is only available in Expert mode.

- To edit the parameters of a slot, click in the corresponding input field and adjust the value manually or if necessary, via a drop-down list.



To save the adjusted slot parameters, click this button.

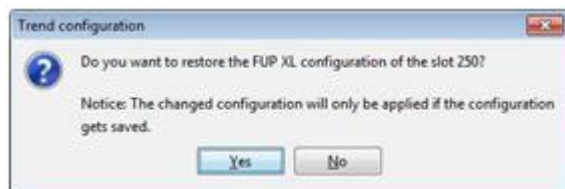


The slot number cannot be subsequently changed via the trend parameterization. The enabling of the change process for the other parameters depends on the time basis selection (primary interval).



If the slot parameterization is updated before the changes have been saved, the most recently saved slot parameterization is restored

- If a slot that was parameterized in FXL has been overwritten, the original FXL parameterization can be restored. To restore the FXL parameterization, select the desired slot and open the context menu and select the "Restore FXL parameterization" menu item. Confirm the security prompt with "Yes"..



## 5.4.4. Trend recording

### Procedure

1. The recorded trend data of a slot is displayed in a graphic in the trend recording. The display of this trend data can be customized using elements of the control bar and the data point view. To display the graphic display of the recorded trend data, select the desired slot using the direct or indirect data point selection option. The Trend recording window opens.



- A** Display range
- B** Control bar and tools
- C** Data point view

## 5.4.4.1. Display range

The recorded trend data of a slot is displayed as a trend curve in the display range. The display of trend curve can be customized using elements of the control bar and input fields of the data point view.



- A** Value axis (y-axis)
- B** Time axis (x-axis)
- C** Trend curve

## 5.4.4.2. Control bar



- A** Absolute time range – starting time
- B** Relative time range
- C** Tools
- D** Mouse action
- E** Absolute time range – stopping time

**Absolute time range:** Information of the absolute time range of the trend curve (input format "dd.MM.yyyy HH:mm:ss").














**Relative time range:** Relative time range selection of the trend curve.

**Tools:** Tool selection of the control bar.

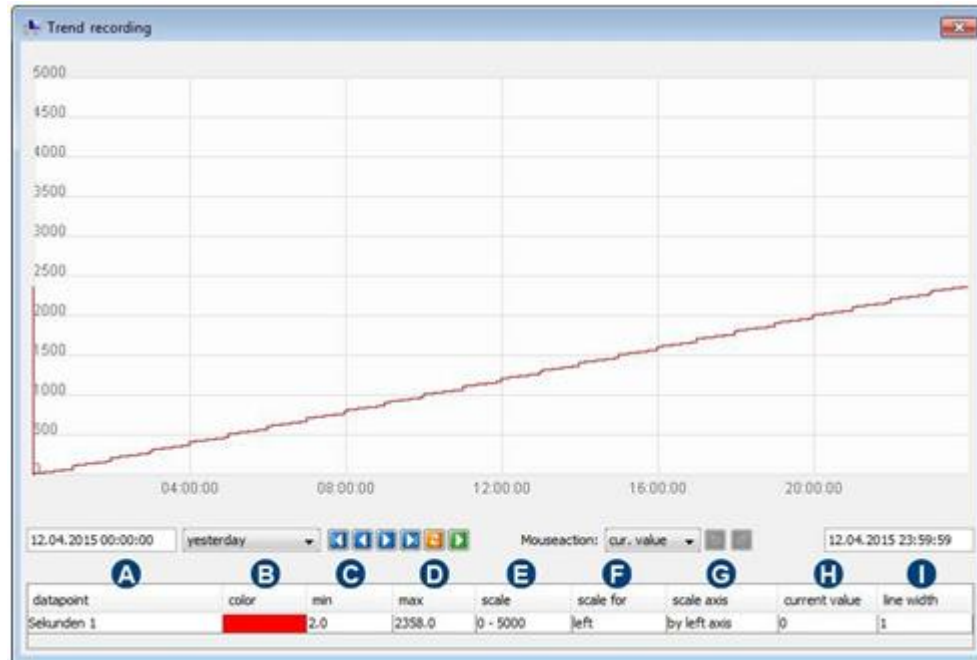
**Mouse action:** Mouse action selection. The mouse function when clicking the trend curve is set using the drop-down list.

## Control bar tools

The control bar features separate tools that can be executed using the following functions (commands):

-  **Back one area:** The visible area of the trend curve is moved by the value of all visible intervals along the time axis to an earlier time.
-  **Back one section:** The visible area of the trend curve is moved by the value of an interval along the time axis to an earlier time.
-  **One section forward:** The visible area of the trend curve is moved by the value of an interval along the time axis to a later time.
-  **Forward one area:** The visible area of the trend curve is moved by the value of all visible intervals along the time axis to a later time.
-  **Refresh:** The recorded trend data is reloaded. The trend curve display is updated.
-  **Start progressive trend:** The cyclic update and the step for moving the visible time range along the time axis to a later time is started.  
 This function is only available when the progressive trend is stopped.
-  **Stop progressive trend:** The cyclic update and the step for moving the visible time range along the time axis to a later time is stopped.  
 This function is only available when the progressive trend is started.
-  **Undo zoom:** The zoom level previously selected is undone.  
 If no zoom level was previously selected, this function is disabled.
-  **Repeat zoom:** The zoom level previously selected is restored.  
 If a previously selected zoom level was not undone, this function is disabled.

#### 5.4.4.3. Data point view



- A** Data Point
- B** Color
- C** Min
- D** Max
- E** Scale
- F** Scale for
- G** Scaling axis
- H** Current value
- I** Line width



**Data point:** Display of the slot designation that is used to record the trend data.

**Color:** Display of the trend curve color.

**Min.:** Specification of the desired minimum value of the value axis (y-axis).

**Max.:** Specification of the desired maximum value of the value axis (y-axis).

**Scale:** Display of the scale range of the value axis (y-axis) that is automatically determined from the "min." and "max." specifications.

**Scale for:** Display of the position of the value axis (y-axis) in the trend diagram.

**Scaling axis:** Display of the axis by which the scale is performed.

**Current value:** Display of the value at the selected time.

**Line width:** Specification (pixels) of line width of the trend curve.

## 5.4.4.4. Configuring the display range

### Changing the trend curve color

#### Procedure

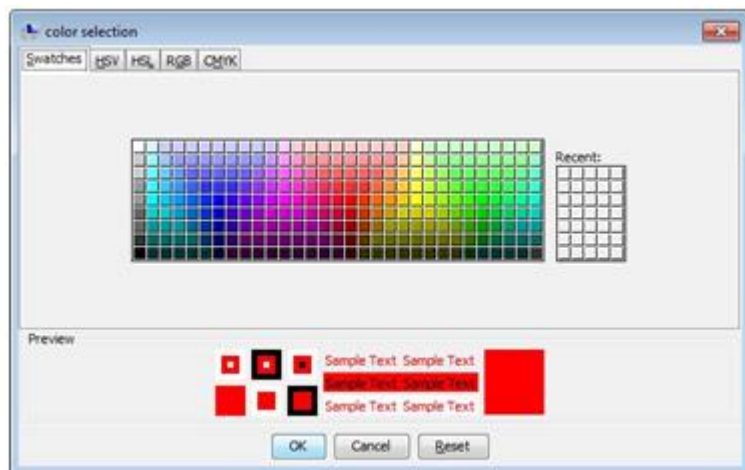
1. The trend curve can be changed to adjust it to individual requirements. To change the trend curve color, click the color field in the "Color" column. The window for selecting the color opens.
2. In the window for selecting the color, various color palettes, e.g. swatches, RGB or CMYK are available. Select or set the color and confirm with "OK".



The color most recently saved is restored by clicking "Reset".

**Selecting the color using the "Swatches" tab:** Select the predefined color and confirm with "OK".

Color selection figure – example of the "Swatches" tab

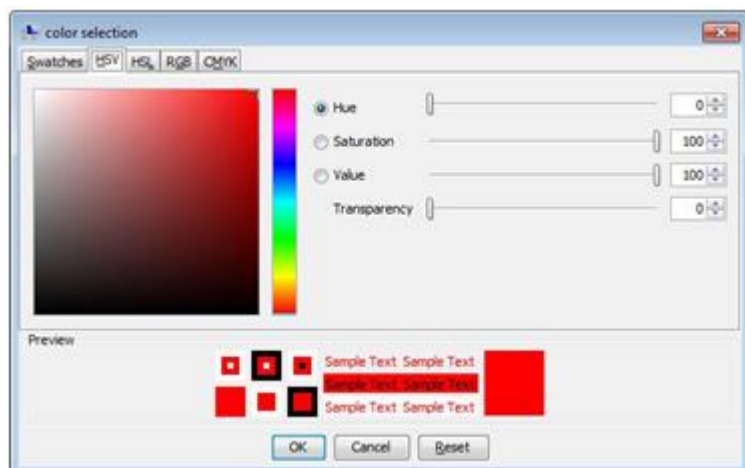


**Selecting the color using the "HSV", "HSL", "RGB" and "CMYK" tabs:**

The desired color value can be selected using various methods:

- In the color fields, the color currently set is marked by the cross-hair pointer or slider. To adjust the color, click the cross-hair point or the slider and, while keeping the left mouse button pressed down, move over the respective color field until the desired color value is displayed in the preview.
- To adjust the color, click the slider and, while keeping the left mouse button pressed down, move over the color scale until the desired color value is displayed in the preview.
- To adjust the color, click in the input fields and enter the desired color value.

Color selection figure – example of the "HSV" tab



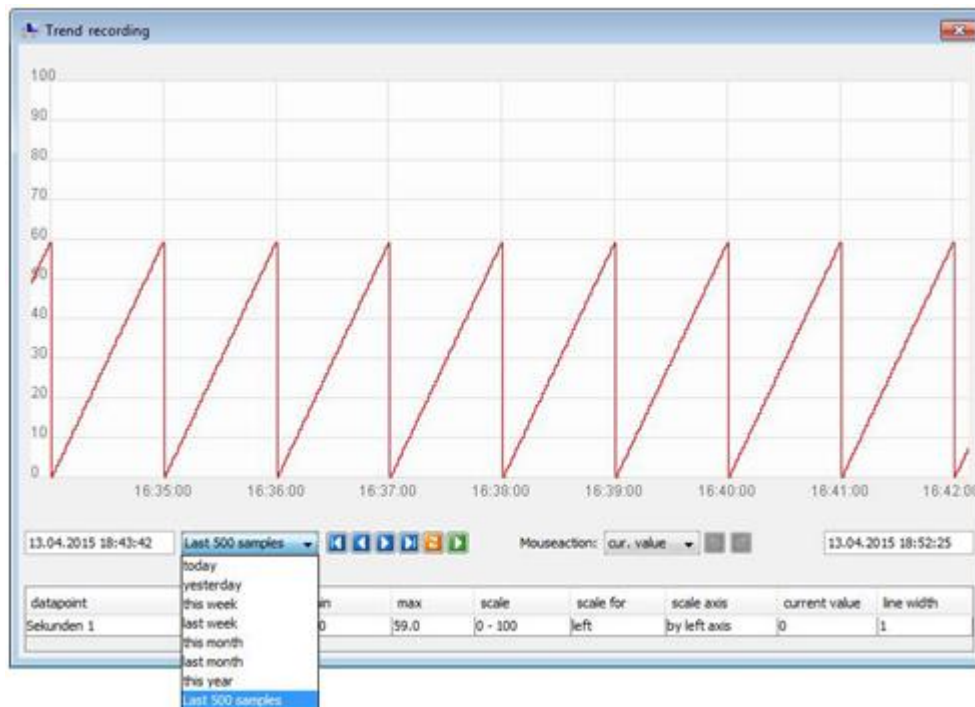
## Changing the time range

### Procedure

1. The absolute time range of the trend curve (input format "dd.MM.yyyy HH:mm:ss") can be customized using the "Starting time" and "End time" input fields. Confirm the entry with "Enter". The trend curve is updated.



The time range of the trend curve can also be set using the drop-down-list with pre-configured "relative" time ranges, e.g. "yesterday". The information in the "Starting time" and "End time" input fields is automatically adjusted. The trend curve is automatically updated.

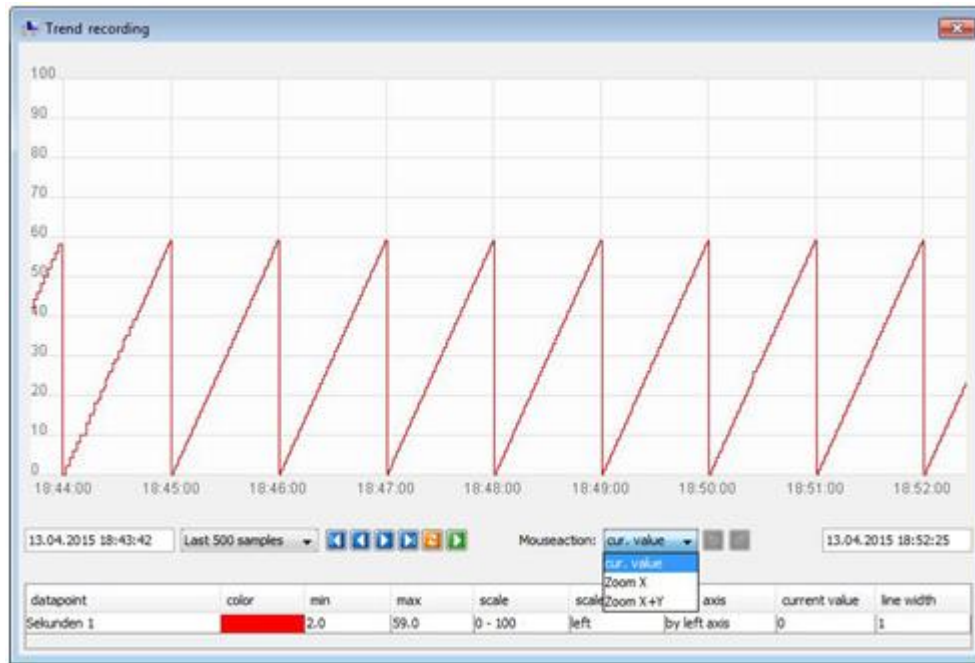




## Changing the mouse action

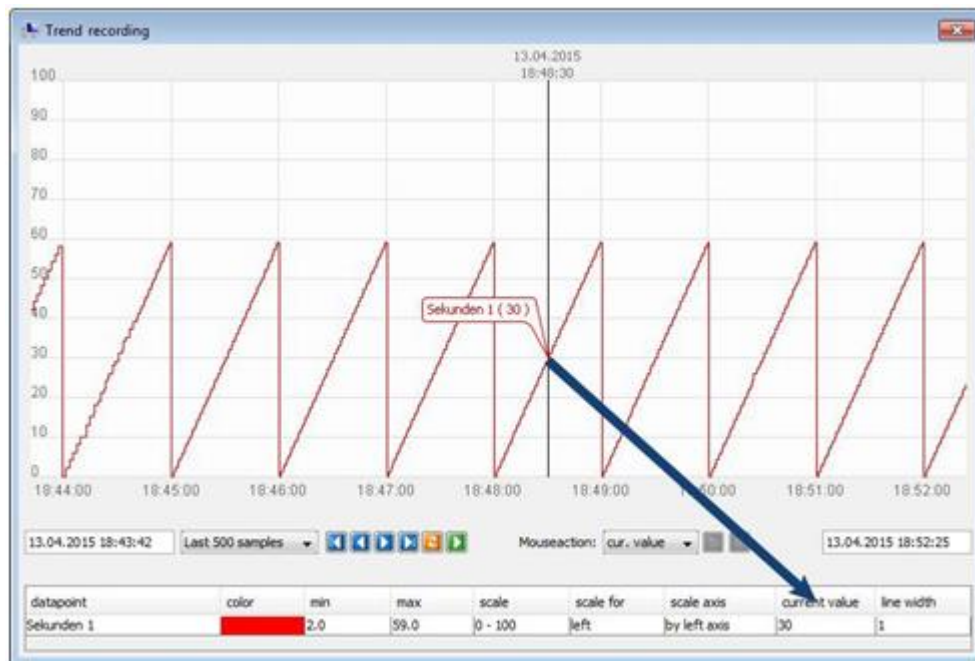
### Procedure

1. Select the desired mouse action via the drop-down list.



2. Depending on the selected mouse action, the representation of the display range can be changed as follows:

**Current value:** By clicking the trend curve, the value of the data point is displayed at the selected time (see figure). If you move the mouse pointer across trend curve while holding the left-button pressed down, this value is continuously updated.



**Zoom X:** Selection of zoom area based on the x-axis of the trend curve. To define the zoom area, click the desired starting value and drag the mouse to the desired end value while holding the left button pressed down so that the time range is adjusted accordingly.





**Zoom X + Y:** Selection of zoom area based on the x-axis and y-axis of the trend curve. To define the zoom area, click the desired starting value and drag the mouse to the desired end value while holding the left button pressed down so that the time range and scale are adjusted accordingly.




## 5.5. Kiosk mode

When Kiosk mode is activated, the entire area of the screen is used to display the OPENview Control Panel. At the same time, the OPENview Control Panel is executed with a limited user menu, i.e. without a menu bar and toolbar. In this case, the operator guidance is performed using a menu in the title bar. We recommend using Kiosk mode for devices that are installed in publicly accessible areas that are not monitored.

 The activation or deactivation as well as the parameterization of Kiosk mode can only be performed via the administrative area of the OPENview Control Panel.

 If the OPENview Control Panel is used in Kiosk mode on a touch screen-capable screen, the "Touch mode" function must also be activated.

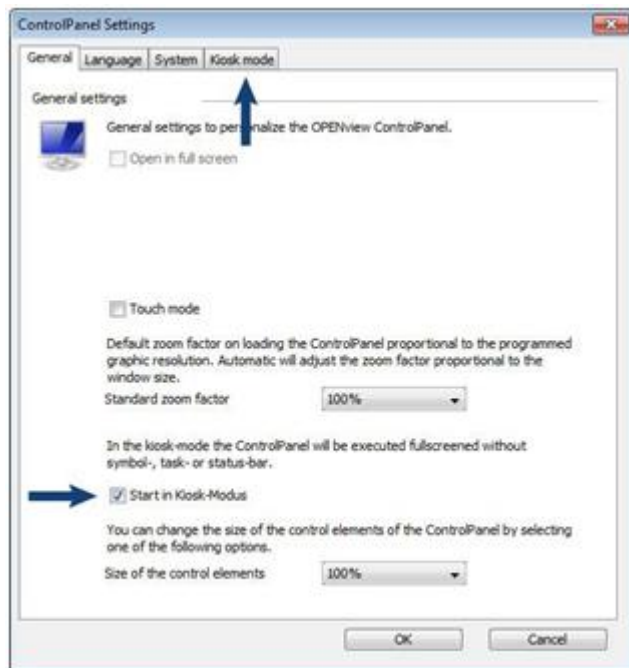
 If Kiosk mode is activated, changing settings and closing the OPENview Control Panel can only be performed via the administrative area.

### 5.5.1. Activating/deactivating and parameterizing KIOSK mode

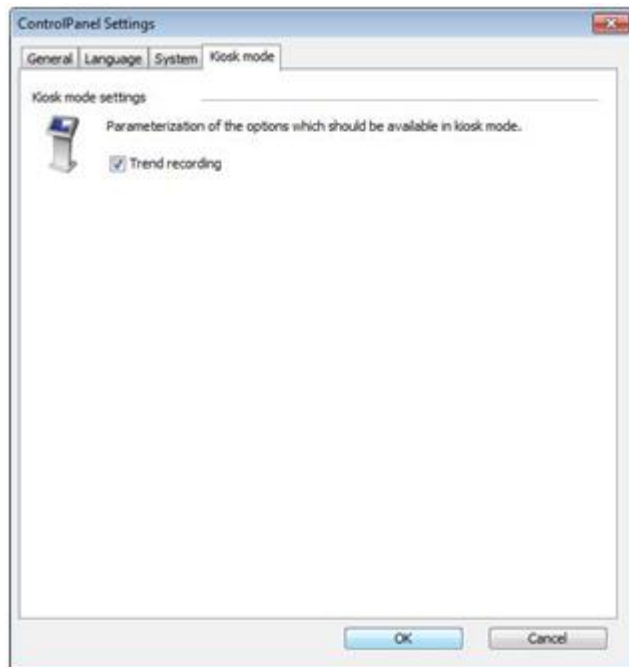
#### Procedure

1. To activate Kiosk mode, navigate to the menu bar and select the "Control Panel → Settings" menu item. The window for setting the OPENview Control Panel opens.
2. In the "General" tab, select the option field in front of "Start in Kiosk mode". The "Kiosk mode" tab is shown.

Figure – example of "activated Kiosk mode"



3. Options for parameterizing "Kiosk mode" are available in the "Kiosk mode" tab. To activate the desired option, e.g. the trend recording, in Kiosk mode, select the corresponding option field and confirm the settings of the OPENview Control Panel with "OK".



4. The OPENview Control Panel must be restarted to apply the changed settings. Confirm the information with "OK".

Figure – example of "activated Kiosk mode"

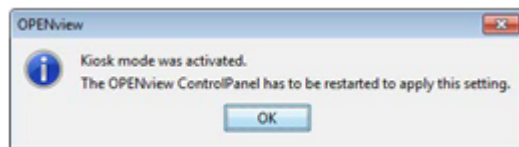
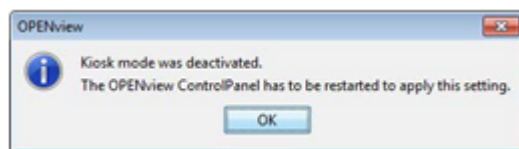


Figure – example of "deactivated Kiosk mode"



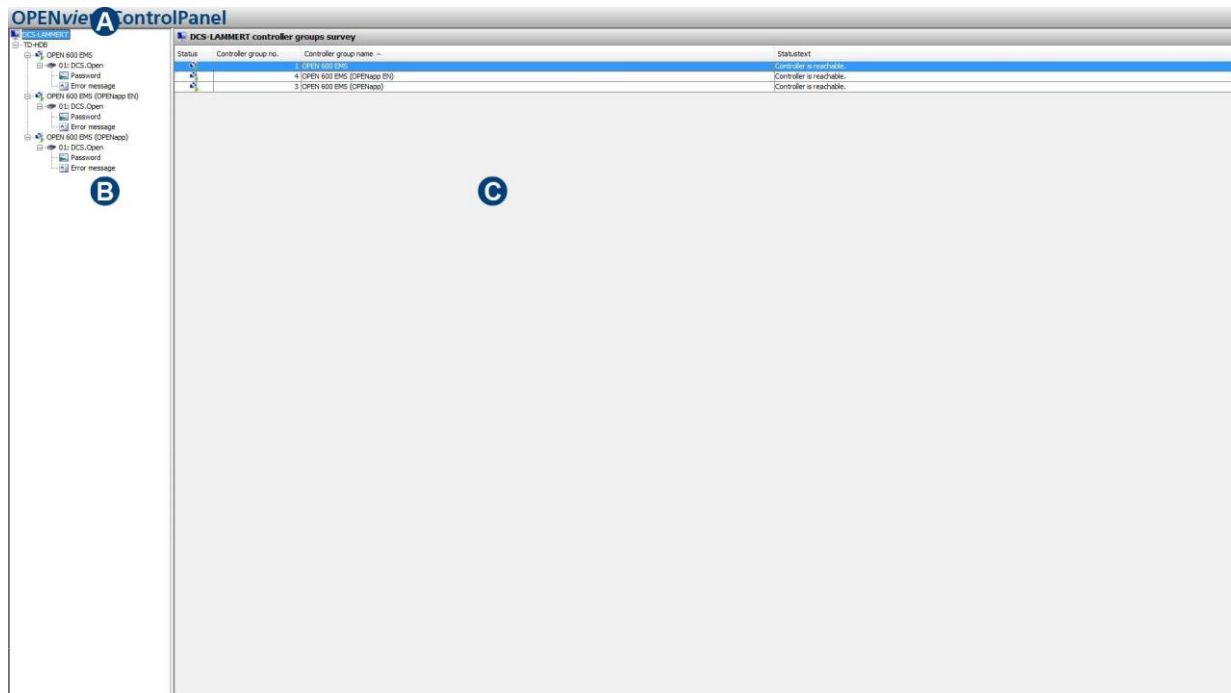
! If Kiosk mode parameters are changed when Kiosk mode is activated, it is not necessary to restart the OPENview Control Panel.

! The OPENview Control Panel is restarted automatically.

5. After the program is restarted, the OPENview Control Panel performs the settings accordingly.

## 5.5.2. Kiosk mode screen layout

When Kiosk mode is activated, the entire area of the screen is used to display the OPENview Control Panel. At the same time, the OPENview Control Panel is executed with a limited user menu, i.e. without a menu bar and toolbar. In this case, the operator guidance is performed using a menu in the title bar.












- A** Title bar – Kiosk-Modus
- B** Menu structure of the controller group management (tree view) – Kiosk mode
- C** Application area – Kiosk mode

## 5.5.2.1. Title bar – Kiosk mode

A "hidden" drop-down menu that can be accessed by left-clicking is provided via the title bar. This drop-down menu contains individual menu items with functions and settings for operating the OPENview Control Panel in Kiosk mode. Drop-down menus and menu items

### Drop-down menus and menu items

-  **Show/hide tree view:** The menu structure of the controller group management (tree view) is shown and hidden.
-  **Trend recording:** The window for selecting an available slot that is already used for the trend recording opens. Select the desired controller group first and then the slot. Confirm the selection with "OK". The "Trend recording" window opens.
  -  This function is only available if it was activated in the settings of the OPENview Control Panel and the logged in user simultaneously has the corresponding access rights.
- Settings:** The current OPENview Control Panel settings are displayed in a new window.
  -  This function is only available in the administrative area of the OPENview Control Panel.
-  **Close client:** The OPENview Control Panel closes.
  -  This function is only available in the administrative area of the OPENview Control Panel.
-  **Login:** The window for logging into the administrative area opens.
-  **Logout:** The logged in user is logged out.
  -  This function does not affect the active GSM-1000-BMX access level.

## 5.5.2.2. Menu structure of the controller group management (tree view) – Kiosk mode

The menu structure of the controller group management (tree view) – Kiosk mode and in "Normal mode" are identical.

## 5.5.2.3. Application area – Kiosk mode

The functions of the application area in Kiosk mode and in "Normal mode" are identical.