BIS Smart Client

en Configuration and Operation

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1 Short information

This document is the BIS Smart Client guide. It describes the configuration and operation of the smart web-based client interface to the Building Information System (BIS) from Bosch Security Systems.

1.1 Intended audience

Operators of the BIS systems. As a BIS operator, you should already understand the following topics:

– Concept of alarms, action plans and maps relating to BIS operation
– Handling alarms and controlling devices

2 System overview

The BIS Smart Client is a web-based client interface to BIS. Utilizing advanced, state-of-the-art web browsers, such as Microsoft Edge, Google Chrome and Mozilla Firefox, operators can login to any workstation PC on the network, and operate the BIS system functionalities effectively.

2.1 Minimum browser version for optimal operation

Web Browser	Version
Google Chrome	90 or higher
Microsoft Edge	90 or higher
Mozilla Firefox	88 or higher

2.2 Recommended display settings

The BIS Smart Client is best viewed with the following recommended settings

– Windows display custom scale factor set at 100% (based on the display resolution of 1920 x 1080 or higher)
– web browser zoom set at 100%

If you need to scroll in order to see the full location map on the BIS Smart Client, your settings may not be ideal. Adjust your Windows display settings, or your web browser settings, or a combination of both accordingly.

The recommended minimum display resolution is 1920 x 1080. However, your display could be set with a custom scale factor of 125% as recommended by Windows. It is recommended that you set this display scale factor to 100%, in conjunction with setting your web browser's zoom to 100% as well.

If you are unable to change this display custom scale factor (for example, function disabled by your network administrator), you can change the web browser's zoom setting to something other than 100% to compensate for it.

3 Configuring the BIS Smart client UI

This section provides detail of the configuration and customization concepts of the BIS Smart Client.

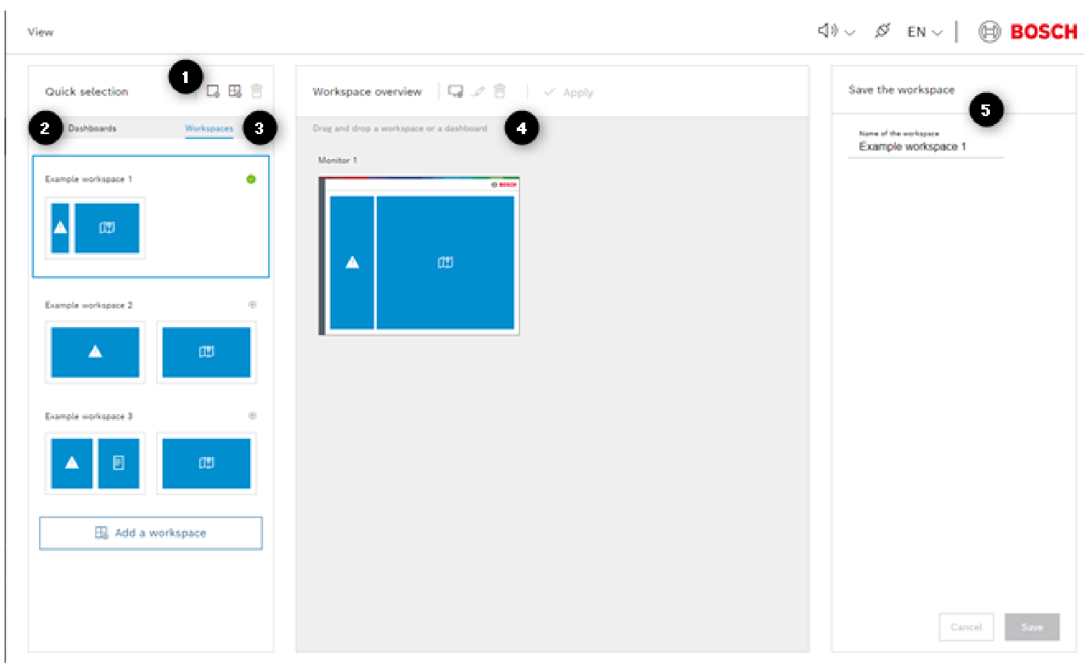
3.1 Customizing the appearance

To customize the appearance of BIS Smart Client

- Click the **View** menu item .
- ✓ The customization page, consisting of **Quick selection**, **Workspace overview** and **Save workspace** is loaded.

3.1.1 The customization screen

The customization screen explained in this section pertains to customization of the BIS Smart Client page. This section explains the functions of possible standard screen elements for customizing the page.



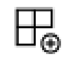
Label	Screen Element
1	**Quick selection**: provides an overview of all dashboards and workspaces, with a toolbar that contains buttons to add new or delete dashboards and workspaces.
2	**Dashboards** list: consists of existing saved dashboards.
3	**Workspaces** list: consists of existing saved workspaces.
4	**Workspace overview**: overview of the workspace currently selected from the list of workspaces, with a toolbar that contains buttons to add a monitor, edit a monitor, delete a monitor and to apply a workspace as the default.
5	**Save workspace**: enter a name for the newly customized workspace, save the changes or cancel the changes.

3.2 Customizing the workspace

A workspace is a working environment that an operator can configure for performing his appointed tasks. A workspace can consist of 1 to 4 monitors, where a monitor is a virtual representation of a physical computer screen. The operator can apply different dashboards to the monitors, customizing them individually according to his operational needs.

3.2.1 Creating a new workspace

To create a new workspace

1. On the **Quick selection** pane, click the **Add a workspace** button  from the toolbar to load a new blank monitor in **Workspace overview**. Alternatively, click **Add a workspace** at the end of the list of workspaces.
2. Customize the workspace as desired by:
   – applying existing dashboard to a monitor (refer to *Applying existing dashboard to workspace monitor, page 9*)
   – applying existing workspace (refer to *Applying existing workspace to current workspace, page 9*)
   – adding or deleting a monitor (refer to *Adding or deleting workspace monitor, page 9*)
3. Double-click the monitor to edit the widgets of the dashboard (monitor). Customize by:
   – adding and deleting widgets from the dashboard (refer to *Adding and deleting widgets from dashboard, page 11*)
   – adjusting the placement and size of the widgets (refer to *Adjusting placement and size of widgets, page 12*)
4. After customizing the workspace, enter the workspace name in **Save workspace**.
5. Click **Save** to save the new workspace, or **Cancel** to discard the new workspace.

3.2.2 Modifying an existing workspace

To modify an existing workspace

1. On the **Quick selection** pane, click **Workspaces** to list all existing workspaces.
2. Double-click the desired workspace to load it in the **Workspace overview** pane.
3. Customize the workspace as desired by:
   – applying existing dashboard to a monitor (refer to *Applying existing dashboard to workspace monitor, page 9*)
   – applying existing workspace (refer to *Applying existing workspace to current workspace, page 9*)
   – adding or deleting a monitor (refer to *Adding or deleting workspace monitor, page 9*)
4. Double-click the monitor to edit the widgets of the dashboard (monitor). Customize by:
   – adding and deleting widgets from the dashboard (refer to *Adding and deleting widgets from dashboard, page 11*)
   – adjusting the placement and size of the widgets (refer to *Adjusting placement and size of widgets, page 12*)
5. After customizing the workspace, click **Save** to save the changes, or **Cancel** to discard the changes.

3.2.3 Deleting an existing workspace

To delete an existing workspace

1. On the **Quick selection** pane, click **Workspaces** to list all existing workspaces.
2. Click the desired workspace.
3. Click the **Delete workspace** button .
4. In the ensuing dialog, click **Delete** to proceed with deletion or **Cancel** to abort.

3.2.4 Adding or deleting workspace monitor

The following section provides information on how to add or delete a workspace monitor.

To add a new workspace monitor

- On the **Workspace overview** pane, click the **Add a monitor** button .

To delete a workspace monitor

1. Click the desired monitor from the **Workspace overview** pane.
2. Click the **Delete monitor** button .

Notice!
Exception: A workspace must have at least one monitor. The system will not allow you to delete the only monitor.

3.2.5 Applying existing dashboard to workspace monitor

To apply an existing dashboard to a workspace monitor

1. On the **Quick selection** pane, click **Dashboards** to list all existing dashboards.
2. Drag the desired dashboard to the workspace monitor on **Workspace overview**.

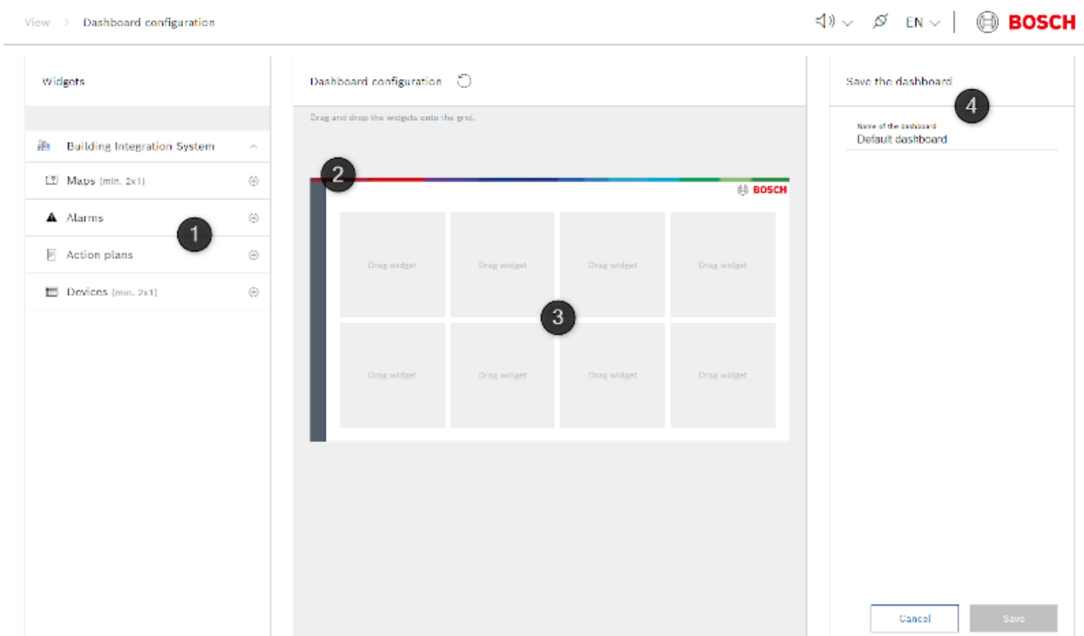
3.2.6 Applying existing workspace to current workspace

To apply an existing workspace to the current workspace

1. On the **Quick selection** pane, click **Workspaces** to list all existing workspaces.
2. Drag the desired workspace to the **Workspace overview**.

3.3 Customizing the dashboard

The screen explained in this section pertains to the typical elements of the dashboard configuration page.



Label	Screen Element
1	**Widgets**: reusable, modular user interface components that are used to customize the dashboard, be it maps, alarms, action plans or devices
2	**Dashboard**: customizable collection of widgets, constructed by 8 cells, arranged in a 4 (horizontal) by 2 (vertical) grid
3	**Cells**: for holding the widgets
4	**Save dashboard**: enter a name for the dashboard, save the changes or to cancel the changes

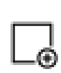
A dashboard is a browser window that an operator can configure to contain an assortment of widgets, which are reusable, modular user interface components. Examples of the BIS widgets include alarms, maps, action plans and devices widgets. Refer to *Dashboard, page 15* for more information. Typically, each monitor of the workspace can only utilize one dashboard.

The layout of a dashboard is constructed by 8 cells, arranged in a 4 (horizontal) by 2 (vertical) grid. Each widget can occupy a minimum of 1 cell. Exceptions: a map or device widget occupies a minimum of 2 cells horizontally.

The widgets can be resized to fill up more cells horizontally or vertically. This flexibility helps extend the visibility of the widget, such that it occupies a larger part of the monitor space.

3.3.1 Creating a new dashboard

To create a new dashboard

1. Click the **Add a dashboard** button .
2. Customize the dashboard as desired by:
   – adding and deleting widgets from the dashboard (refer to *Adding and deleting widgets from dashboard, page 11*)

- adjusting the placement and size of the widgets (refer to *Adjusting placement and size of widgets, page 12*)

Notice!
The dashboard can contain multiple instances of the same widget.

3. Once completed, enter the name of the dashboard in the **Save dashboard** pane.
4. Click **Save** to save or **Cancel** to discard the changes.

3.3.2 Modifying an existing dashboard

To modify an existing dashboard

1. On the **Quick selection** pane, click **Dashboards** to list all dashboards.
2. Double-click the desired dashboard to open it in **Dashboard configuration**.
3. Customize the dashboard as desired by:
   - adding and deleting widgets from the dashboard (refer to *Adding and deleting widgets from dashboard, page 11*)
   - adjusting the placement and size of the widgets (refer to *Adjusting placement and size of widgets, page 12*)
4. Once completed, click **Save** to save or **Cancel** to discard the changes.

3.3.3 Deleting an existing dashboard

To delete an existing dashboard

1. Select the desired dashboard from the **Dashboards** list. The dashboard will be highlighted.
2. Click the **Delete** button .
3. In the ensuing dialog, click **Show linked workspaces** link to see the workspaces that are configured to use the dashboard.
4. Click **Delete** to confirm deletion, or **Cancel** to abort deletion.

3.3.4 Adding and deleting widgets from dashboard

The following section provides information on how to configure widgets and the dashboard cells.

To add a widget to the dashboard

1. Move the mouse over the desired widget from the **Widgets** list until the pointer becomes .
2. Drag the widget to the desired cell of the dashboard.

Notice!
The dashboard can contain multiple instances of the same widget.

To delete a widget from the dashboard

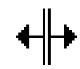
- Click the remove button of the widget on the dashboard.

3.3.5 Adjusting placement and size of widgets

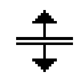
To change placement of widget on the dashboard

1. Move the mouse over the desired widget on the dashboard until the pointer becomes .
2. Drag it to other empty cells.

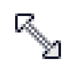
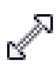
To adjust the size of a widget horizontally

1. Move the mouse to the horizontal edge of the widget until the pointer becomes .
2. Drag the widget left or right to resize it horizontally, occupying the neighboring empty cells.

To adjust the size of a widget vertically

1. Move the mouse to the vertical edge of the widget until the pointer becomes .
2. Drag the widget up or down to resize it vertically, occupying the neighboring empty cells.

To adjust the size of a widget diagonally

1. Move the mouse to the corners of the widget until the pointer becomes  or .
2. Drag the widget to resize it diagonally, occupying the neighboring empty cells.

4 Using the BIS Smart Client

4.1 Logging in and out

4.1.1 Logging in to BIS

To login to BIS from the workstation PC

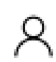
1. Start the Microsoft Edge (Chromium-based), Google Chrome or Mozilla Firefox browser.
2. Enter the address of the BIS logon server as follows: *https://<Name of the BIS server>*
3. Enter your operator user name and password in the window.
4. Click **Login**.

The logon server validates your login entries, and checks your authorization level. The server then sends the start page to your workstation PC.

If the password check policy is enabled on BIS, logging in with credentials where the operator user name and the password is the same invokes a change password dialog. The BIS Smart Client prompts you to change your password so that it complies with the password policy which is specified on the dialog screen.

4.1.2 Logout of BIS

To logout of BIS

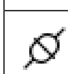
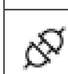
1. Click the **Operator** menu item  of the side navigation.
2. In the ensuing dialog, click **Logout** to logout of BIS, or **Cancel** to abort logout.

4.2 Changing the interface language

The operator can change the BIS Smart Client interface language by selecting the language from the language selection list on the **Dashboard** title bar. The interface language changes on the fly as you select different language code abbreviations from the language selection list.

4.3 Connection to BIS server

The connection icon on the **Dashboard** title bar indicates the connection status to the BIS server. The following possible status are:

Icon	Connection to BIS server
	Connection is good.
	Connection is lost. You are no longer connecting to the BIS server.

You may be disconnected for one of the following reasons:
- maximum number of users for the license has been reached
- BIS server unreachable
- general network issues
- others

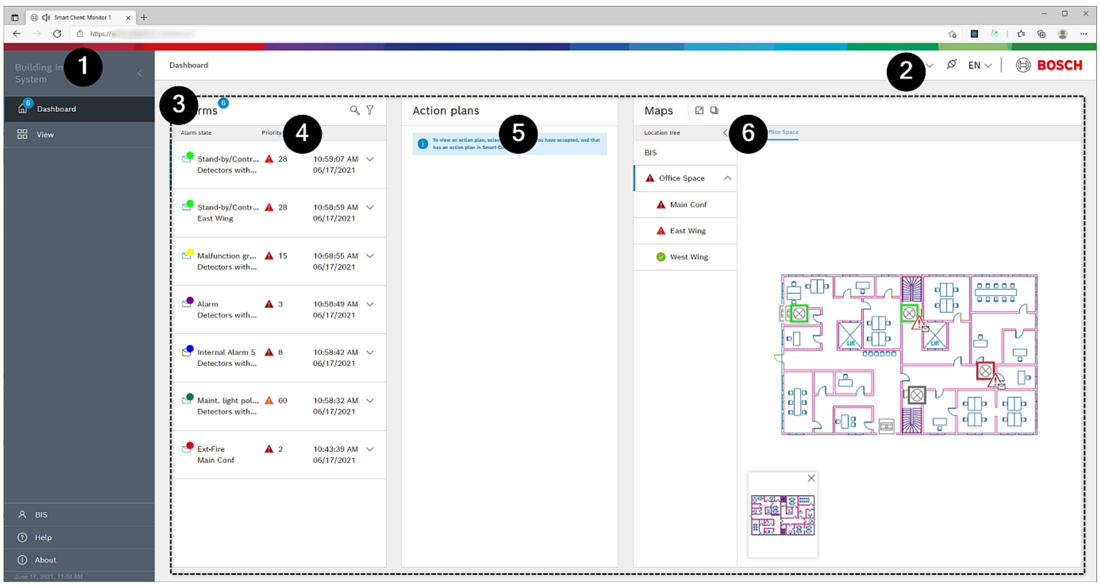
Check with your system administrator to resolve the issue.

4.4 The screen display

4.4.1 Standard screen elements

The screen display explained in this section is subject to possible BIS Smart Client customizations. Customization options can alter what you see on your screen.

This page explains the functions of possible standard screen elements of the BIS Smart Client user interface.



Label	Screen Element
1	Side navigation: collapsible or expandable pane consisting of navigation menu items to load alarms and location maps, invoke customization options of the interface, get system help on using the BIS Smart Client, get system information or to exit BIS.
2	**Dashboard** title bar: consists of button to mute alarm sounds, showing real-time status of connection with BIS server and interface language selection.
3	Dashboard: consists of customizable collection of widgets, to display alarms, maps of system and objects, or alarm action plans.
4	Alarms widget (example): displays incoming alarms for processing by the operator.
5	Action plan widget (example): displays action plans associated with the alarms.
6	Map widget (example): displays alarms on location maps, and quick navigation using the location tree nodes.

4.4.2 Side navigation

The side navigation consists of the following elements:

Dashboard

Click the **Dashboard** menu item to invoke the dashboard, which can be customized to display any, or a combination of the following widgets: **Alarms**, **Maps**, **Action Plans** or **Devices**. If the dashboard of the specific monitor contains the alarm widget, the number appearing beside this button represents the number of unprocessed alarms.

View

Click the **View** menu item to customize the dashboard and workspace.

Operator

Click the **Operator** menu item to logout from BIS.

Help

Click the **Help** menu item to invoke the HTML help file for navigating and using the BIS Smart Client within the web browser.

About

Click the **About** menu item to view a summary of system information, including the operator name, server name, server operating system, language, operator permissions, and BIS version.

Date and time

For display only. Shows the real-time date and time of the BIS Smart Client.

Collapsing and expanding the side navigation

The side navigation can be collapsed to minimize its view, leaving a larger display space for other information. The original view of the side navigation can be restored by expanding it again.

To collapse the side navigation

- Click the **Collapse** button beside the Building Integration System title.
- ✓ The side navigation collapses, taking up a smaller view on the display.

To expand the side navigation

- Click the **Expand** button .
- ✓ The side navigation expands, providing a full view of the navigation buttons.

4.4.3 Dashboard

The dashboard is a browser window that an operator can configure to contain an assortment of widgets, which are reusable, modular user interface components. Examples of widgets include alarm widget that can display alarms, map widget for maps of systems and objects, action plan widget for alarm action plans or device widget for location of devices. Being customizable, the user interface may look different between individual dashboards.

Alarms widget

Incoming alarms are displayed in a list in the alarms widget for processing by the operator. The alarm fields are:

- The **Alarm state** of the alarm (new, accepted or forwarded) including location information. An unopened mail  indicates new alarms. An opened mail  indicates accepted alarms. A pointer on the right of an unopened mail  indicates forwarded alarms in a workflow.
- The **Priority** of the alarms, with warning signs varying in color from yellow for low priority to dark red for high priority.
- The **Time** (actually date and time) of the alarms

Click on the alarm to expand it to display the details. This action also opens its location map in a tab on the map widget. The details of the alarm are:
- The **State** of the alarm (new, accepted or forwarded)
- The **Alarm state** of the triggering device
- The **Current state** of the triggering device
- The **Address** (location) of the triggering device
- The **Time** (actually date and time) of the alarm
- The **Assigned** operator, who accepted the alarm
- The **Description** of the alarm

If there is an action plan attached to the alarm, it appears with the  icon. To view the action plan in the action plan widget, accept the alarm. If there is no action plan widget on the dashboard, you will not be able to view the action plan.

Map widget

The map widget contains the location tree on the left and the location overview on the right. The location tree shows all connected systems and objects with their respective addresses and line states, as well as other elements identifiable in the system.
You can open any location tree node, as well as sub-nodes beneath a node. Opening the node displays the corresponding location map in the location overview area.
Clicking new alarms in the alarms widget open their corresponding maps in their respective tabs in the location overview.

Action plan widget

An action plan defines in detail what steps should be taken in the event of an alarm. The action plan of an alarm can only be viewed in the action plan widget. If such an action plan widget is not configured for the dashboard, you cannot view the action plan. For more information on the configuration of action plans, refer to the *BIS Configuration Guide*.

Device widget

The device widget contains the device location tree on the left and devices overview list on the right. The device widget shows all connected systems and objects in their location, as well as other elements identifiable in the system.
You can open any device location tree node, as well as sub-nodes beneath a node. Opening the node displays all devices corresponding to that particular location in the devices overview area.

4.5 BIS alarm processing

4.5.1 Processing an alarm

How you process an alarm depends on the scope and configuration of your BIS system. There are only a few rules, which are generally applicable.

- Ensure that you are familiar with any local rules and procedures for your site, which can be consulted quickly in an emergency.
- If an alarm arrives, keep calm.

Step #	Step	Procedure
1	Suspend the acoustic signal while making a first assessment of the situation.	Click the **Mute once** button to mute once.
2	Assess the overall situation if faced with several simultaneous alarms.	Browse through the lines of alarms to find common reference points for the pending alarms. This will help you to decide on the order or processing. Note: it may be helpful to sort the list by clicking the header of **Priority** or **Time** columns.
3	View documents.	Click the alarm to view the map. You may find important information that will help you process the alarm.
4	Accept the alarm.	Click the alarm, and then click **Accept**.
5	Execute the required procedure.	View the action plan in the action plan widget. Execute the steps listed in the action plan.
6	After processing, delete the alarm.	Click the alarm, and then click **Delete**.

4.5.2 Standard features of an alarm

The following section describes features that are standards to alarms in BIS.

Acoustic signals

When an alarm arrives, the system produces an audible signal.

To mute the sound once (temporarily)

- On the **Dashboard** title bar, click the **Mute once** button .

or

1. On the **Dashboard** title bar, click the **Down** button beside the **Mute once** button .
2. Click **Mute once**.

This mutes the sound temporarily until the operator refreshes the web browser, or applies a different workspace to the session.
Otherwise, the operator can also choose to mute the sound permanently.

To mute the sound permanently

1. On the **Dashboard** bar, click the **Down** button beside the **Mute once** button .
2. Click **Mute permanently**.

This mutes the sound permanently for the session, until the operator logs off and logs in again.

Display of alarm location
When a new alarm arrives, select the alarm to show its location map in a tab in the location overview of the map widget. The map zooms into the object by using the named view that issues the alarm. If the map navigation pane is obscuring the view of this object, BIS Smart Client automatically collapses the map navigation pane into a tiny map icon.

Alarm states

Alarm State	Description
New	All alarms that have not been accepted by any operator are marked as new.
Accepted	All alarms that have been accepted by any operator are marked as accepted.
Forwarded	An alarm is marked as forwarded if it was accepted by another operator, but was forwarded to you for further processing.

Note: The colored circles tagged to the alarm icons are color codes of the device states. In BIS, the states of the device are differentiated by different color codes.

The alarm list
The alarm list shows all alarms.
– Sort the list by clicking the header of the column by which you wish to sort. The currently sorted field name is highlighted in a different color.
– Filter the list by selecting the filter criteria, or search the alarm using the search function.
– Click the alarm to expand and show more details. This also opens the location map in a tab in the display area of the map widget. The map zooms into the object that issues the alarm.
– The operator can accept and process the alarm.
– The highlighted number in the badge of the alarms widget represents the number of unprocessed alarms in the list.

Notice!
New alarms are always inserted according to the currently sorted field name.

The dwell time of an alarm
In general, an alarm disappears from the alarms list only when deleted.
Exception:
- If during alarm processing the same object issues a new alarm with the same or higher priority, the initial alarm is overwritten.
- If another alarm with a lower priority arrives, the original alarm is not overwritten; the new alarm appears in addition to the original alarm.
- If the first alarm is already being processed when a new alarm arrives, it is not overwritten. The second alarm appears in addition to the original alarm

4.5.3 Searching for specific alarms

You can search the alarm list for alarms that match your input text. You can enter any text in the search input field. This search is an incremental search that instantly filter possible matches as you type the search text in real-time.

To search for an alarm

1. On the **Alarms** title bar, click the **Search** button .
2. Enter the search text in the **Search** text area.

To clear the search result

- On the **Alarms** title bar, click the **Close** button .

or

- Select the **Esc** key.

✓ This clears the search result and shows all alarms in the list.

4.5.4 Filtering alarms

You can filter the alarm list to show only specific alarms based on selected criteria from the following categories:
- state
- priority
- time

To toggle the visibility of the filter categories

- On the **Alarms** title bar, click the **Filter** button to hide or show the filter categories.

To filter the alarm list

1. On the **Alarms** title bar, click the **Filter** button if the filter categories are not visible.
2. Click the **Expand** button beside the category to expand it if it is not already expanded.
3. Select the desired criteria.

4. Click the **Collapse** button beside the category to collapse it if you wish to hide the criteria of the specific category.
5. Repeat the steps above for all other filter categories if so desired.

As you select a criterion from the specific category, the number beside the category reflects the number of selected criteria for the category.

To hide the filter categories

- Click **Hide filters** (just below the **Alarms** title bar).

or

- On the **Alarms** title bar, click the **Filter** button .

✓ The filters are hidden from view. The number appearing beside the **Filters** button reflects the number of chosen filter criteria.

To clear the chosen filter criteria

1. On the **Alarms** title bar, click the **Filter** button if the filter categories are not visible.
2. Click **Reset** (just below the **Alarms** title bar).

4.5.5 Action plans of an alarm

Action plans (optional component) are created in advance by system administrators, and not by the operator. An action plan defines in detail what steps should be taken in the event of an alarm. An alarm with an action plan is indicated by the **Action plan** icon .

An action plan is not displayed until an operator accepts the relevant alarm. Click the alarm, and then click **Accept** to view the action plan in the action plan widget. This means that if your dashboard is not customized with the action plan widget, you will not be able to view the action plan.

4.5.6 Notes on accepting and deleting alarms

An alarm remains in the alarms display list until it is deleted, then it disappears from the list. The alarm can be accepted to be processed. You must distinguish between two types of alarms.

- Alarms without an action plan: These alarms can be accepted and deleted individually at any time.
- Alarms with an action plan: Action plans usually have mandatory actions. You can accept but cannot delete these alarms.
  - If the dashboard contains an action plan widget, click **Accept** to accept the alarm and view the action plan in the action plan widget.
  - If the dashboard does not have an action plan widget, clicking **Accept** will not show the action plan. In the ensuing dialog, click **Accept** to accept the alarm without viewing the action plan, or **Cancel** to leave the alarm as new.

You can also select multiple alarms for processing at the same time if they do not have action plans. Alarms with action plans require special set of rules for processing.

To select multiple non-contiguous alarms

1. Click on an alarm from the alarm list.
2. While selecting the **Ctrl** key, click another alarm from the alarm list.
3. Repeat for any other alarms that you wish to process together.

Note: All selected alarms are highlighted by a thin blue bar towards their left.

To select multiple contiguous alarms

1. Click on the first alarm of the contiguous list from the alarm list.
2. While selecting the **Shift** key, click the last alarm of the contiguous list from the alarm list.

Note: All contiguously selected alarms are highlighted by a thin blue bar towards their left.

To process the selected alarms

1. Right click on any selected alarms.
2. Click **Accept** to accept or **Delete** to delete the alarms in the context menu.
3. In the ensuing confirmation dialog, click **Accept** to accept the alarms, or **Delete** to delete the alarms, or **Cancel** to abort the operation.

4.6 Location overview

4.6.1 Purpose of the location overview

The location overview and associated location maps show all locations:

- Locations at which detectors and sensors are placed
- Locations to which graphics, areas (named subareas of graphics, for example South Entrance), and alarm-dependent layers are assigned

The devices must be linked to a location for them to be viewed in the BIS Smart Client. The devices placed there are shown in the location maps with their current line states.

4.6.2 Patterns of the detector symbols

The following settings are possible (individually or in combination)

- Colored frame around the symbol (dark grey in normal state, other colors in other states)
- Colored warning triangle beside the symbol
- Unopened mail, opened mail, or unopened mail with a pointer on the right beside the warning triangle to indicate status of the alarms (new, accepted or forwarded)

4.6.3 Giving commands to a selected detector

There are two ways to send a command to a detector via the location graphic map:

1. Right-click the detector symbol. If your authorization is sufficient, a context menu opens, containing the commands available for this detector. Left-click the desired command in the context menu. Commands with parameters must have been predefined in the **BIS Configuration Browser**.
2. Alternatively, double-click the detector symbol to invoke the **Fast Access Command** defined in the **BIS Configuration Browser** for this detector type. The **Fast Access Command** is the default command among those listed for the detector types. If none has been defined, then an explanatory error message appears.

You can also select multiple detectors to send a command. Note that only common commands between the multiple detectors will be visible.

To select multiple detectors to send a common command

1. Click the detector symbol.
2. While selecting the **Ctrl** key, click the next detector symbol.
3. Repeat until all detectors that you desire are selected.
4. Right-click any detector symbol.
5. Click the desired command in the context menu.

4.6.4 View or hide map layers

The location maps are made up of multiple different layers. You can choose to view only layers that you wish to see by toggling the visibility of each layer in the location overview.

To toggle the visibility of the map layers

1. On the **Map** title bar, click the **Layers** button to show the list of layers.
2. From the list of layers, select to show, or deselect to hide them on the fly.
3. Click **Hide layers** to hide the list of available layers.

The number next to **Hide layers** represents the number of layers currently hidden from view.

The **Layers** button remain in blue color as long as there are layers that are deselected.

To reset the visibility of the map layers

1. On the **Map** title bar, click the **Layers** button if the layers list is not visible.
2. Click **Reset** to make all layers visible again.

4.6.5 Viewing multiple maps

Clicking an object in location tree opens the associated map in the location overview area. You can also open multiple maps in their respective tabs in the location overview.

To open a map in its tab

1. Right click the desired location object in the location tree.
2. Click **Open a new tab** from the context menu.

4.6.6 Map navigation aids

Using location overview to assist with alarm processing, BIS Smart Client provides a number of navigation aids for the graphical maps. This includes a map navigation pane and zoom, pan and tilt functions.

Map navigation pane

A map navigation pane is always available at the bottom left corner of the location overview. The area shown in the main display is outlined in blue in the navigation pane. This helps to locate alarms in relation to the entire site.

You can minimize this map navigation pane by clicking its collapse button ✕. The map navigation pane then collapses into a tiny map icon. To expand the map navigation pane, simply click on the tiny map icon.

Zoom, pan and tilt
Use the mouse to zoom in (close-up), zoom out (wide view) and panning (horizontal or vertical) of the location overview. Zoom and pan make it possible to navigate rapidly through alarm locations, as well as selected parts of the map for display and printout. Tilt makes it possible to angle the map to view it in a three dimensional perspective.
Move the mouse within the boundaries of the location graphic map until the pointer becomes . Drag the location graphic to pan the map in two dimensions, horizontally or vertically. Zoom in by scrolling the mouse wheel upwards; zoom out by scrolling the mouse wheel downwards. Tilt the location graphic map by selecting the **Shift** key and pan it at the same time.

To reset the map in two dimensions
- Click the node of the map in the location tree.

or

- On the **Map** title bar, click the **Restore to initial view** button .

or
- Click the tab of the map.

4.7 Devices overview

4.7.1 Purpose of the devices overview

The devices widget shows the locations where the devices are being placed. The devices must be linked to a location for them to be viewed in the BIS Smart Client. Select the location from the devices location tree to view the devices and their information, like addresses, current line states, types and descriptions in the devices overview list.

To sort the devices overview list
- Click the header of the column by which you wish to sort. The selected sort column is highlighted in a different color.

4.7.2 Searching for specific devices

You can search the devices list for devices that match your input text. You can enter any text in the search input field. This search is an incremental search that instantly filter possible matches as you type the search text in real-time.

To search for a device

1. On the **Devices** title bar, click the **Search** button .
2. Enter the search text in the **Search** text area.

To clear the search result

- On the **Devices** title bar, click the **Close** button .

or

- Select the **Esc** key.
- ✓ This clears the search result and shows all devices in the list.

4.7.3 Giving commands to a selected device

There are a few ways to send a command to a device via the devices widget:

1. Click the **Fast Access Command** button of the device to invoke the command defined in the BIS Configuration Browser for this device type. The Fast Access Command is the default command among those listed for the device types. If none has been defined, the Fast Access Command button is disabled.
2. Click the **Options** button of the device. If your authorization is sufficient, a context menu opens, containing the commands available for this device. Click the desired command in the context menu. Commands with parameters must have been predefined in the BIS Configuration Browser.
3. Alternatively, right-click the device. If your authorization is sufficient, a context menu opens, containing the commands available for this device. Click the desired command in the context menu. Commands with parameters must have been predefined in the BIS Configuration Browser. If there are no commands defined for the device type, right-clicking the device shows the “no command” message.

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