Bosch CRS Keyboard
Milestone Smart Client Integration
User Manual

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1. Scope of this document

The following Document describes the installation, configuration and use of the Bosch CRS Keyboard Plugin in the Milestone Smart Client.

2. Installation of the Bosch Keyboard Plugin

The setup installer will guide you through the installation of the plugin. There are two different procedures in order to install the Plugin:

2.1 Server side installation

The Server side installer will assign the Smart Client plugin to the download manager, which will then be available from the Client PC by accessing the following URL:

http://your-milestone-management-server/installation

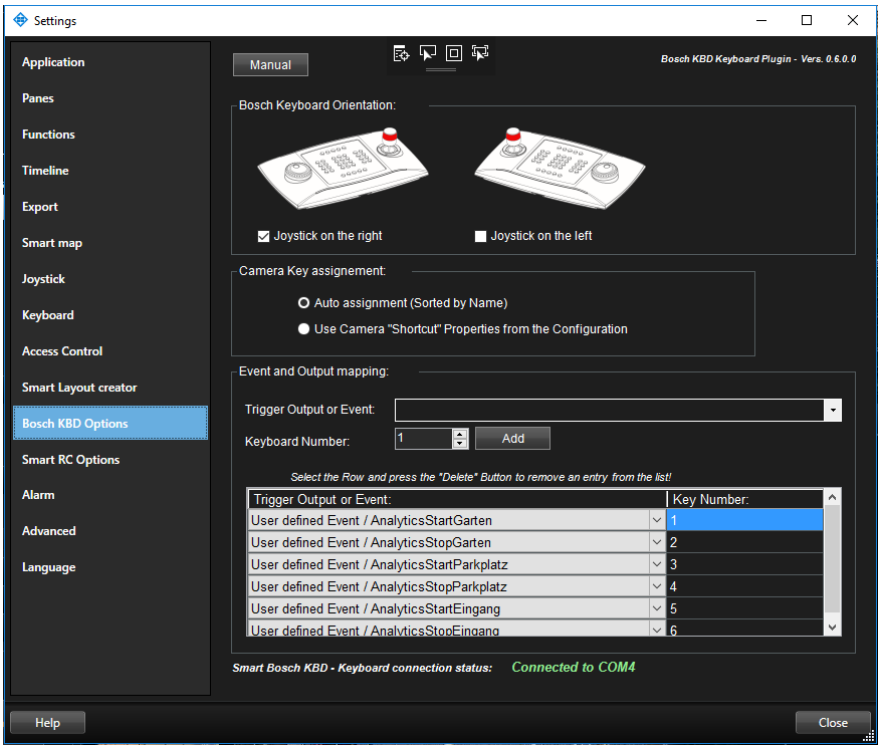
Just follow the instructions on the setup wizard in order to have the plugin registered to the Milestone Download manager System.

2.2 Client side installation

The Client side installation wizard will guide you through the installation of the Plugin. It will copy all necessary Files and register your Plugin for the use. Furthermore it will install the related driver for your Bosch Keyboard.
Just follow the instructions of the wizard in order to have everything done.

3. Configuration of the KBD Plugin

The Milestone Keyboard plugin is almost ready for use. There are just some additional options you can configure for your individual needs and use. Use the upper right corner in the Smart Client in order to open the options dialog and select the Bosch KBD Options entry:



3.1 Left or right hand joystick

You can change the Keyboard to left hand joystick mode if needed, by checking the desired as seen in the screenshot.

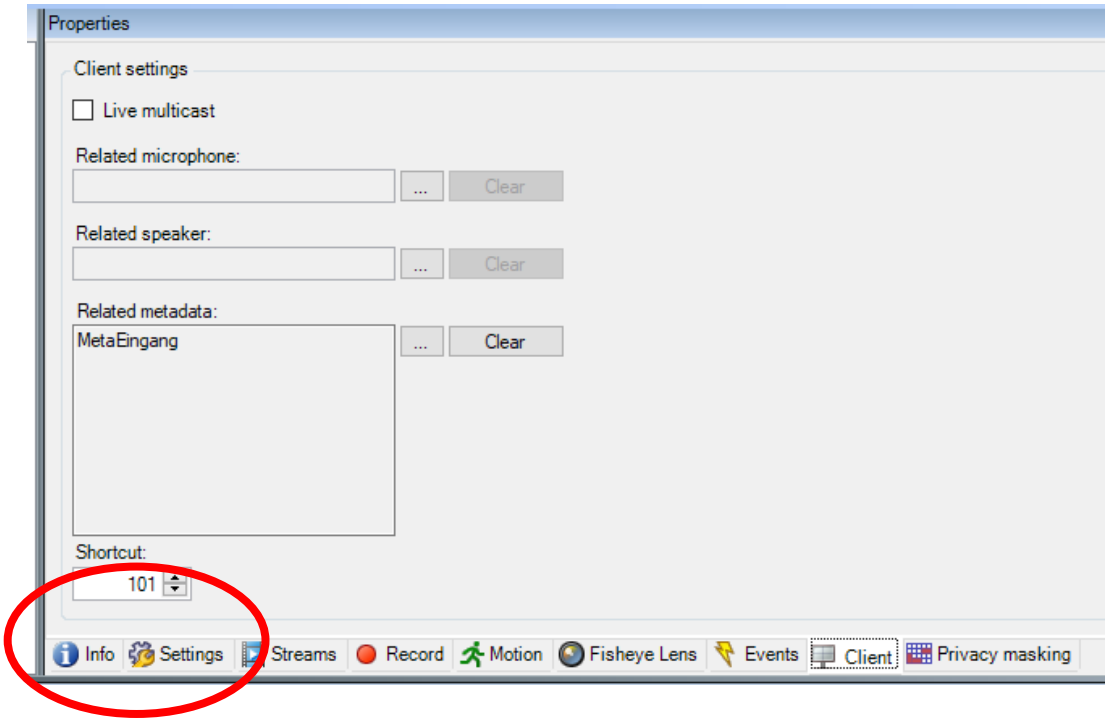
3.2 Camera Key assignment

Choose which Camera Key assignment you want to use for the Insert Camera in ViewItem Mode:

→ Auto assignment / this mode is getting the camera list sorted by Name from the system configuration. The Key assignment is automatically done.
Please note, that this is directly dependent on your camera naming and can be look like this, in order to have some control over the sorting:

e.g.: [001 Camera 1]
[002 Camera 2]
[....]
[999 Camera 99]

→ Use Camera "Shortcut" Properties from the Configuration / this mode is getting the configured Shortcuts for your camera:



Please note:

You must assign a shortcut to all cameras you want to have in the list. Otherwise, they will not be available. Please be careful, as the system is taking the same shortcut twice. In this case it will take the first camera in the ordered list.

3.3 Event and Output mapping

You can also map some User defined events or Hardware outputs to any numeric number in order to trigger them directly from the Keyboard as shown in the bottom section of the screenshot.

4. Using the Bosch Keyboard to control the Milestone Smart Client

4.1 General function of the Keyboard

After the start of the SmartClient the Keyboard will be initialized regarding your settings (left- or right hand), the attached amount of monitors and the operation mode (live or playback) for each monitor.

If a buttons light is on, it means that the function is available. Blinking indicates either its activity or waiting for addition input (most likely a number).

If there is no mode selected (no blinking buttons, except the selected monitor) you can select the view item (camera) of the selected View by entering the number followed by OK.

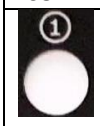
The numbering of the view items is usually starting with number 1 on the top left corner and ends with the highest number at the bottom right, row by row:

1	**2**	**3**	**4**
5	**6**	**7**	**8**
9	**10**	**11**	**12**

In case you need some assistance for unknown item values, the Plugin holds a Help and Selection window showing you the assignments of the Items to Keys. In order to show the Help window, you can simply touch the related button for more than 2 Seconds and the window shows up. You can use the Jog Shuttle wheel and press OK to select an entry and to close the window. The window can be closed by pressing ESC or by pressing the related button again.

Actually there is a Help window for:

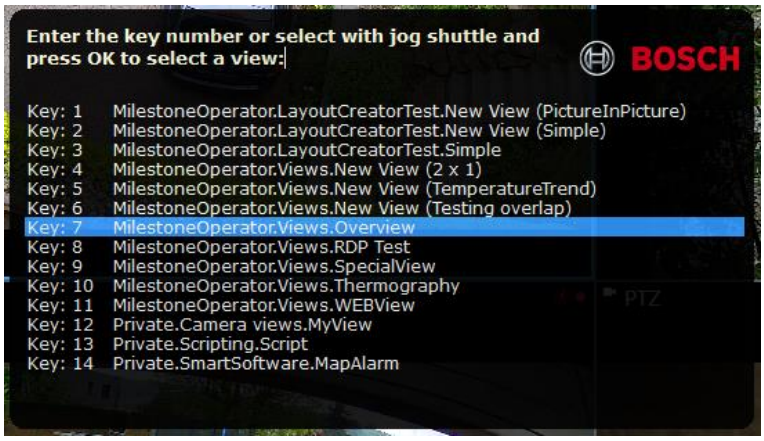
- ➔ 4.7 View selection
- ➔ 4.8 Set Camera in View Item
- ➔ 4.15 Preset selection
- ➔ 4.21 Event or output selection

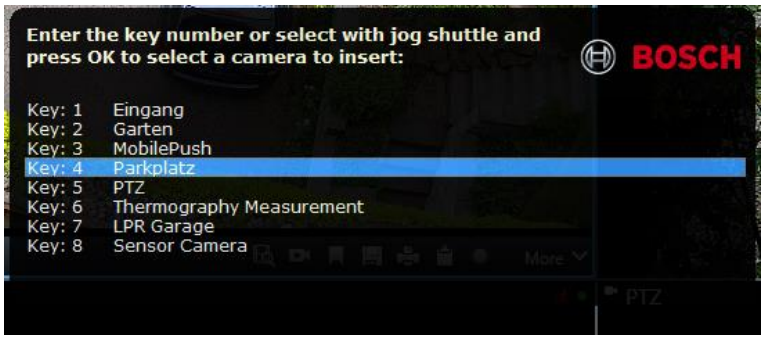
Icon	Function	Remarks
	4.2 Direct Monitor selection Fast selection of monitor one to four The selected monitor is blinking for the next 3 Seconds and all following commands will be executed on this monitor.	It might make sense to dynamically activate the monitor selection Button, if there are more than 4 Screens attached to this Client PC.
	4.3 Audio / Button Illumination The Button is used to turn the Button illumination on or off. When the Illumination is off, only actually selected buttons are illuminated or blinking.	In the Milestone Smart Client, the Audio Source is following the Camera selection and its related Microphone.
	4.4 Recording Instant start and stop recording of all the cameras shown on the selected monitor. The button is blinking when recording is active.	
	4.5 Independent Playback – NOT USED The independent Playback Button has no function. It is not possible to control the playback of a single camera. Use the Playback mode for the full monitor instead.	
	4.6 Playback mode Change the selected monitor to playback mode. The playback functions will be activated when a monitor is in playback mode. The button is blinking when it is in playback mode. By pressing it again, the monitor will go back to live mode.	

4.7 View selection

Activate the “change view” mode.
The button is blinking when the “change view” mode is activated and the input of a number is required.
Use the number buttons and press ok to send a view to the selected monitor.
Using the number 0 and OK will close the Window on the selected screen.

If you don’t remember the view numbering, you can press the button for more than 2 seconds and the help window is shown in the middle of the selected Monitor:



	### 4.8 Set Camera in View Item Activate the “Set camera in view item” mode. The button is blinking when the “Set camera in view” mode is activated and the input of a number is required. Use the number buttons and press ok to insert/replace a camera into the selected view item of the selected monitor. ATTENTION: This function is only valid if a Camera View Item is present. Empty View items or other types are not supported. If you don’t remember the camera numbering, you can press the button for more than 2 seconds and the help window is shown in the middle of the selected Monitor: 	
	### 4.9 Restore Cameras in View Restores all Camera view items back to its default. The Button is blinking when a camera in the View was replaced.	
	### 4.10 Full Screen of the selected View item Sets the selected view item into the full screen mode. The “Restore” button is blinking when the “item full screen” mode is activated.	
	### 4.11 Restore the selected View item Restores the selected View item from full screen.	
	### 4.12 Escape input Breaks the entering of a number.	
	### 4.13 Confirm Confirm a number entry.	

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<tr><td> </td><td>

4.14 PTZ Mode on / off

Activates or deactivates the PTZ Function and enables the Joystick.
The Joystick commands go directly to the selected camera:
Live mode: If PTZ enabled camera, analog PTZ function otherwise stepwise Digital Zoom
Playback mode: Digital Zoom
</td><td></td></tr>
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4.15 Preset selection

Select a PTZ position. Enter a valid number of a preset and confirm with OK.
Blinking indicates that the input of a number is required.

Hold the button down for more than 2 seconds shows up the Help window:

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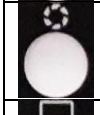
<tr><td> </td><td>

4.16 Focus far

Press and hold the Button. Release to stop.
</td><td></td></tr>
<tr><td> </td><td>

4.17 Focus near

Press and hold the Button. Release to stop.
</td><td></td></tr>
<tr><td> </td><td>

4.18 Iris closed
</td><td></td></tr>
<tr><td>  </td><td>

4.19 Iris open
</td><td></td></tr>
<tr><td> </td><td>

4.20 Monitor selection – NOT USED

Use the buttons 1 to 4 to direct select the monitor
</td><td>It might be possible to activate this button dynamically if more than 4 monitors are connected.</td></tr>
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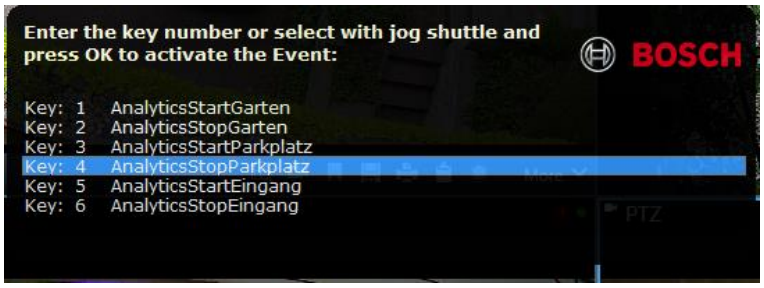
4.21 Event or output selection

Enter a valid number of an assigned User Event or Output from the options and press OK.

Hold the button down for more than 2 seconds shows up the Help window:



</td><td>Must be configured in the options dialog.</td></tr>
<tr><td> </td><td>

4.22 Skip previous

Skip to the previous recorded sequence of the selected camera on the selected monitor.

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4.23 Play reverse

Reverse Playback of the selected monitor.

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4.24 Pause playback

Pause the playback of the selected monitor.

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4.25 Play forward

Normal forward playback of the selected monitor.

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4.26 Skip next

Skip to the next recorded sequence of the selected camera on the selected monitor.

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