SMART software

CONTROL ROOM

MAKE YOUR SMART CLIENT SMARTER

CONTROL ROOM MODULE

The Control Room Addon for Milestone XProtect complements the Milestone VMS solution with the typical features needed in a busy video control room or Alarm center:

- Control of multiple display's trough one client application.
- Multiscreen-Multimonitor Alarm handling
- Alarm List including Popup Window's
- Graphical user interface
- Status informations on the user interface → for example if a door is open or closed
- Map navigation

CONTROL ROOM SAMPLE

On the following slides the functionality of the control room module is shown by means of a virtual control room.

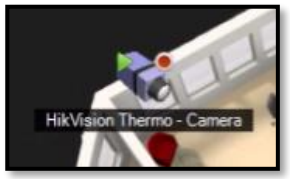
The virtual control room includes a control monitor and three remote display's

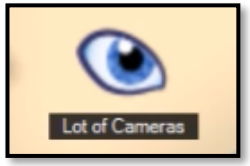
The remote displays can be controlled by events or manually via the control interface

In addition, events are shown on the control display. For example via popup.

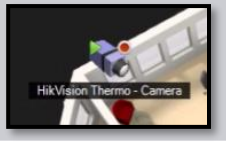
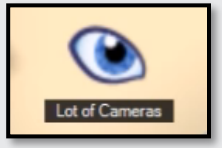
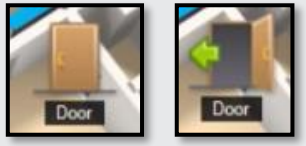
CONTROL ROOM SAMPLE

PROGRAMMABLE, GRAPHICAL USER INTERFACE

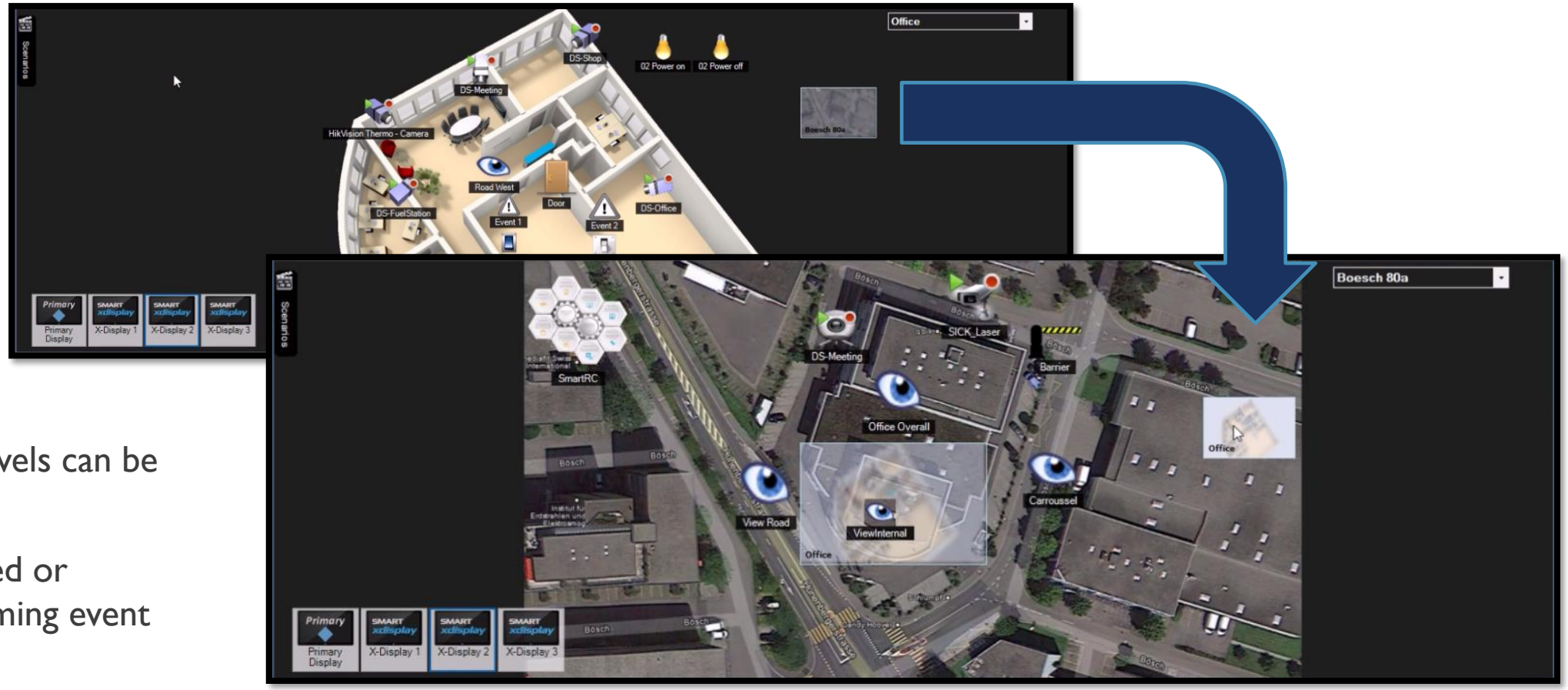




FUNCTIONAL ELEMENTS OF THE GRAPHICAL USER INTERFACE

	Camera selection and status of the cameras. By clicking on the camera icon, the camera is switched to the selected display. The green symbol indicates that the camera is in operation. The red dot indicates that the camera is recording
	The eyes represent so-called viewpoints. A group of cameras that are related to each other. A click on the symbol switches these cameras (including PTZ preset's) as multiscreen to the selected display. This can also be done automatically in case of an alarm event.
	Output contacts (e.g. for controlling barriers or light) can be displayed on the surface with the aid of symbols. A click on the symbol triggers the corresponding action. The status of activated outputs is also displayed.
	Control of predefined events. Milestone allows to create user defined events. These events can have different characteristics. The icons on the graphical user interface can be used to trigger such events.
	In addition to user-defined events, contacts can also be controlled. These can be operated from output as well as input. Accordingly, they can be displayed or triggered.
	Input events can also be displayed with different symbols. For example, symbol 2 indicates that the door is open.

MAP SELECTION



Different site plan levels can be integrated.

These can be selected or activated by an incoming event

SCENARIOS

Scenarios are predefined settings and allow you to control several displays simultaneously. Basically, a multi-monitor multiscreen connection can be carried out via an event or by pressing a button.

For example, at the beginning of a work shift or in the event of repetitive incidents for example day & night mode when the operators like to see other multiscreens and presets on the PTZ cameras

DISPLAY CONTROL

In order to operate the different displays, they are simply to be selected.

On the active display, cameras or multiscreen (viewpoints) of several cameras can be activated by clicking on them.

CAMERA FOCUS

The focus window displays the camera that currently has the focus.

This is important for example to select a PTZ camera for control or to activate the audio source of the corresponding camera (if the camera is equipped with a microphone).

MULTISCREEN CAMERA FOCUS SELECTION

If a multiscreen display is switched on, you can select a desired focus camera in the multiscreen preview image

ALARM'S / ALARM HANDLING

Alarm and event processing are part of the daily business in a control room. The requirements on the system are therefore usually very high. During the development of the control room add-on many customer requirements were evaluated and incorporated into the solution. The focus is on three essential elements

Alarmlist

Group:	Priority:	Name:	Date:
Barrier Alarm	1	Barrier	08.10.2018 13:21:28
Barrier Alarm	1	Barrier	08.10.2018 12:42:01
Door Alarm	2	Door	08.10.2018 12:41:41
Manual Event	1	Event 1	08.10.2018 12:41:17
Door Alarm	2	Door	08.10.2018 12:32:36
Barrier Alarm	1	Barrier	08.10.2018 12:30:58

Popup-Window

Camera & Multiscreenselection

ALARM MONITORING

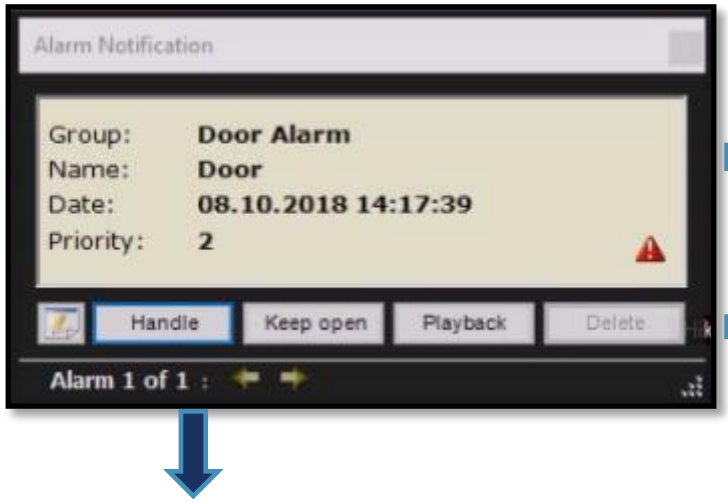
In case of an alarm, the corresponding cameras are shown to the available displays, could be in a single screen or multiscreen format depending the configuration.

At the same time, a red entry appears in the alarm list, which changes to a neutral, green entry after successful handling.

Group:	Priority:	Name:	Date:	State:
Door Alarm	2	Door	08.10.2018 14:17:39	Unhandled / New
Barrier Alarm	1	Barrier	08.10.2018 13:21:28	Handled / closed
Barrier Alarm	1	Barrier	08.10.2018 12:42:01	Handled / closed
Door Alarm	2	Door	08.10.2018 12:41:41	Handled / closed
Manual Event	1	Event 1	08.10.2018 12:41:17	Handled / closed
Door Alarm	2	Door	08.10.2018 12:32:36	Handled / closed

ALARM POPUP

As an efficient tool a Pop-Up Window appears in case of an alarm

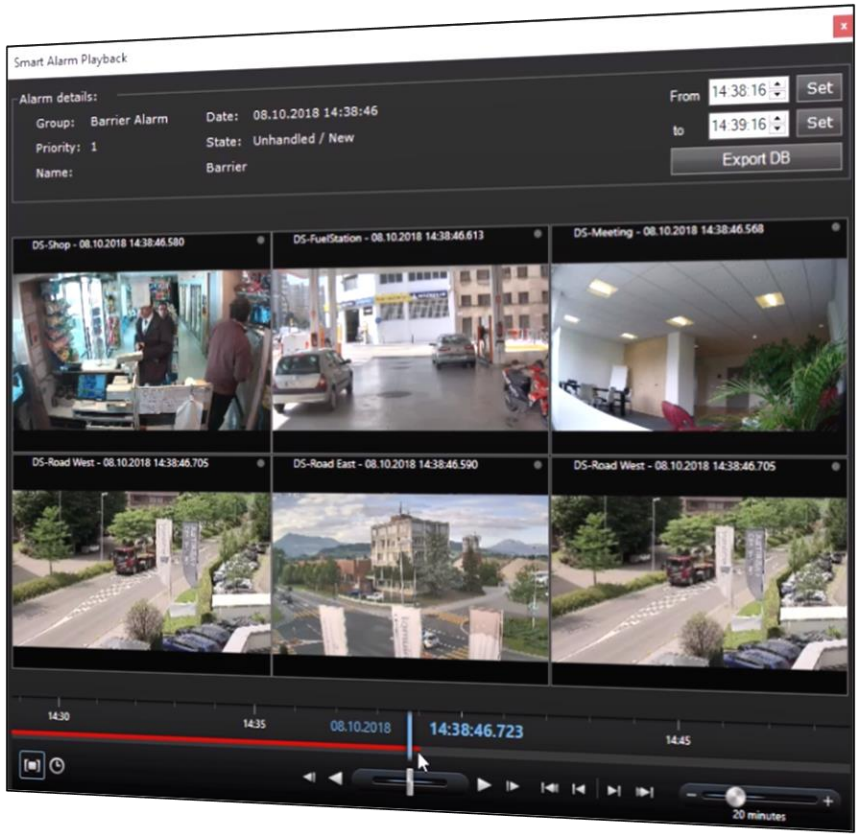


Alarminformations

Handlingoptions

(includes Playback)

Maybe other Alarms with lower priority



One Click Playback of the cameras on which this event was related to

SUMMARY

Milestone Xprotect is a state-of-the-art video management software

The open platform allows to create solutions for specific markets based on the strong Milestone Engine. Smart Software Control Room is such a solution for use in control rooms.

According the motto “from users for users", functionalities were implemented that are expected in the traditional control room environment and guarantee a fluid workflow.

SMART RC

REMOTE CONTROL YOUR SMART CLIENT

SMART RC

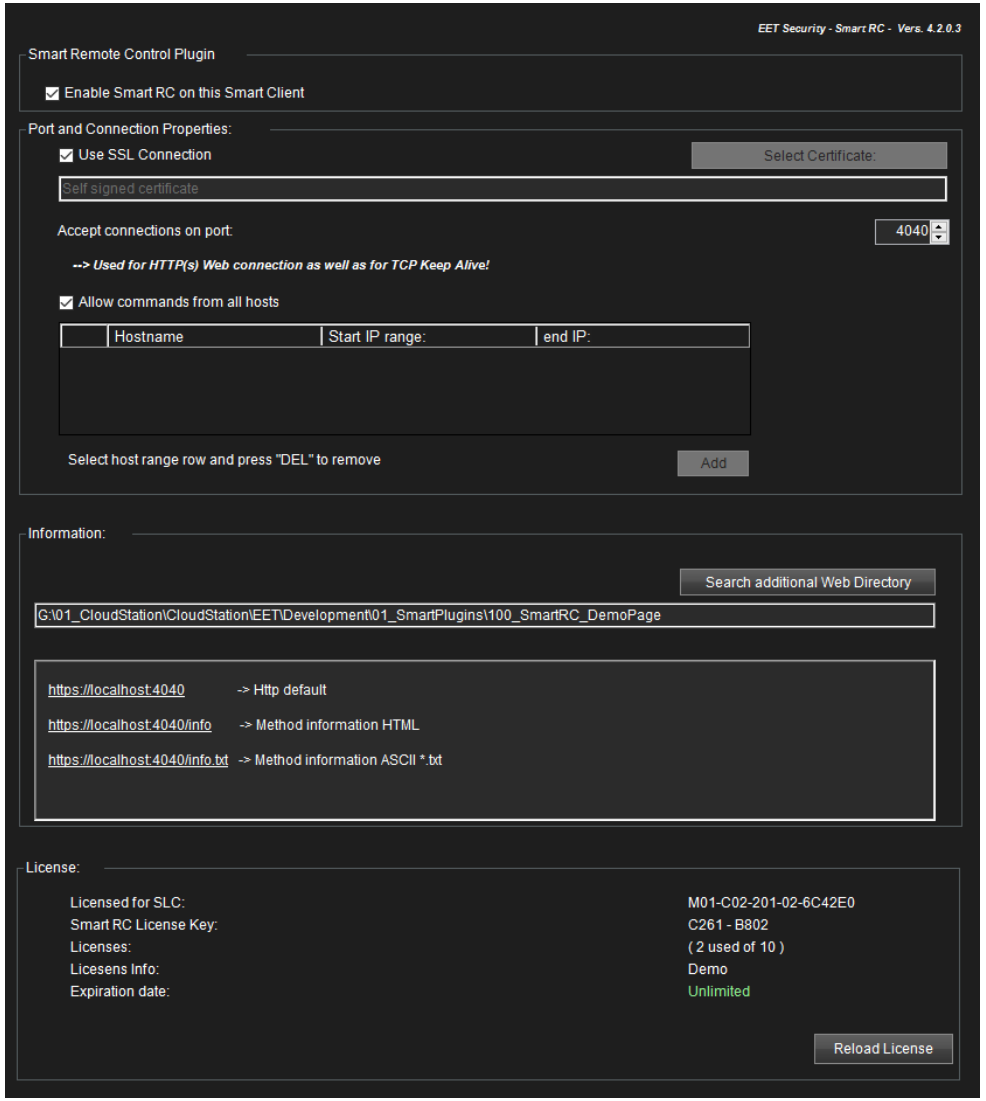
The Smart Client is the core tool of any Surveillance Operator to view Live Video and investigate in recordings. Smart RC extends almost all functionalities to different API's to enable Remote Control of the entire Application.

Smart RC is one of the controllable Display types in the Smart Control Room Application and it is available for other integrations too.

- Easy configuration and simple licensing
- Self- configuring HTML API providing System dependent methods
- Sample Webpages showing some capabilities are included
- Custom webpages including html, css and images can be hosted
- Advanced XML API including Documentation and API Tool available

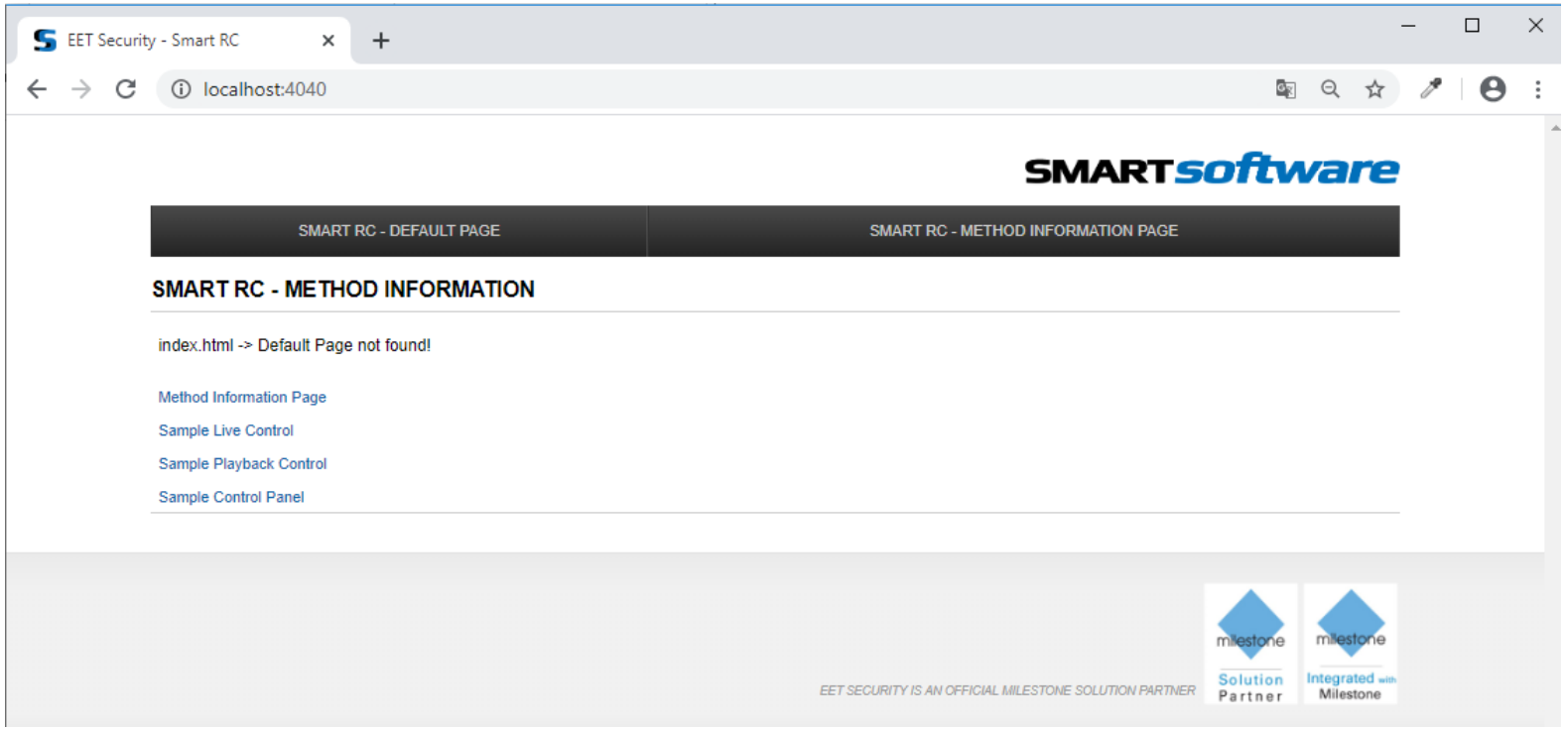
SMART RC EASY CONFIGURATION

Once the Smart Client Plugin is installed, it can simply be licensed and activated in the Smart Client options

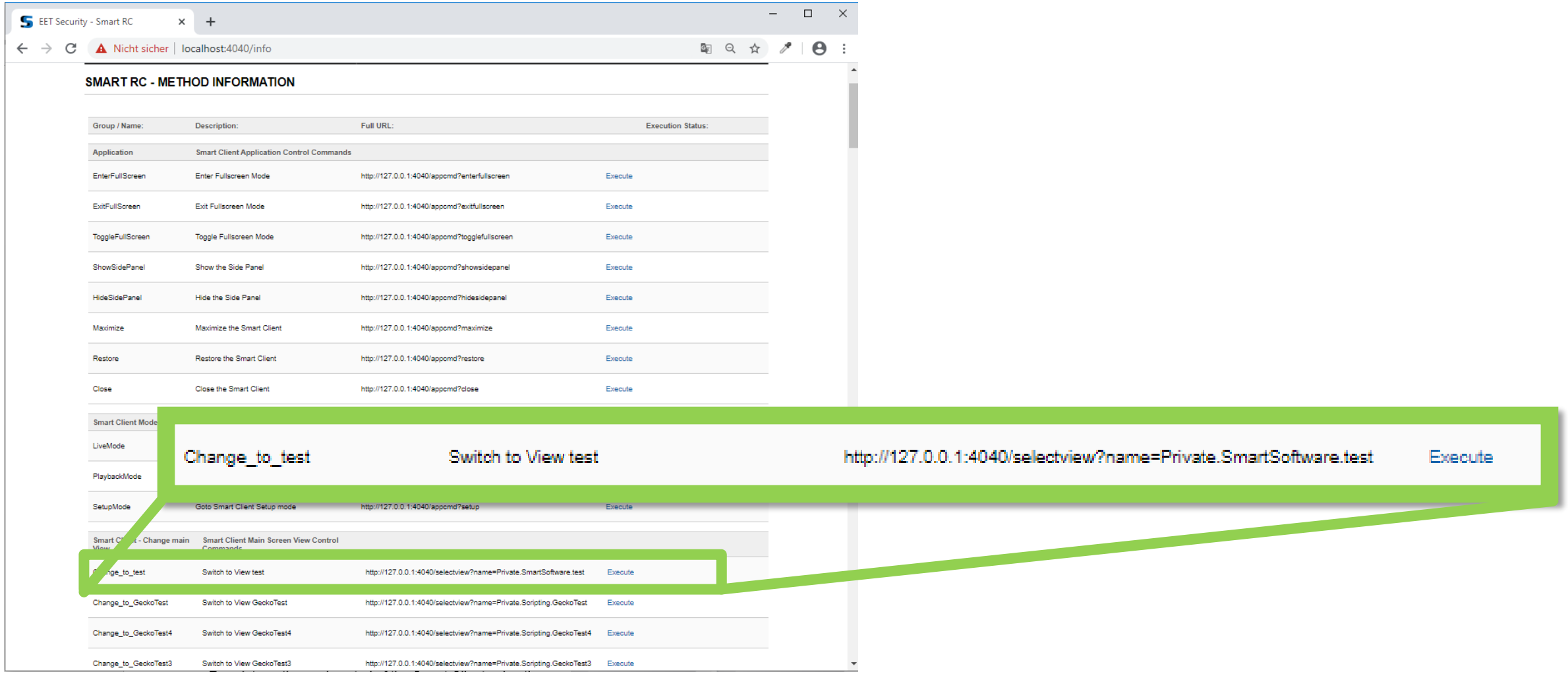


SMART RC HTTP API – METHOD INFORMATION

- Access to the runtime generated method information page by Browser
- Direct access to the method list using the Event Sender from our Toolbox



SMART RC HTTP API – METHOD INFORMATION

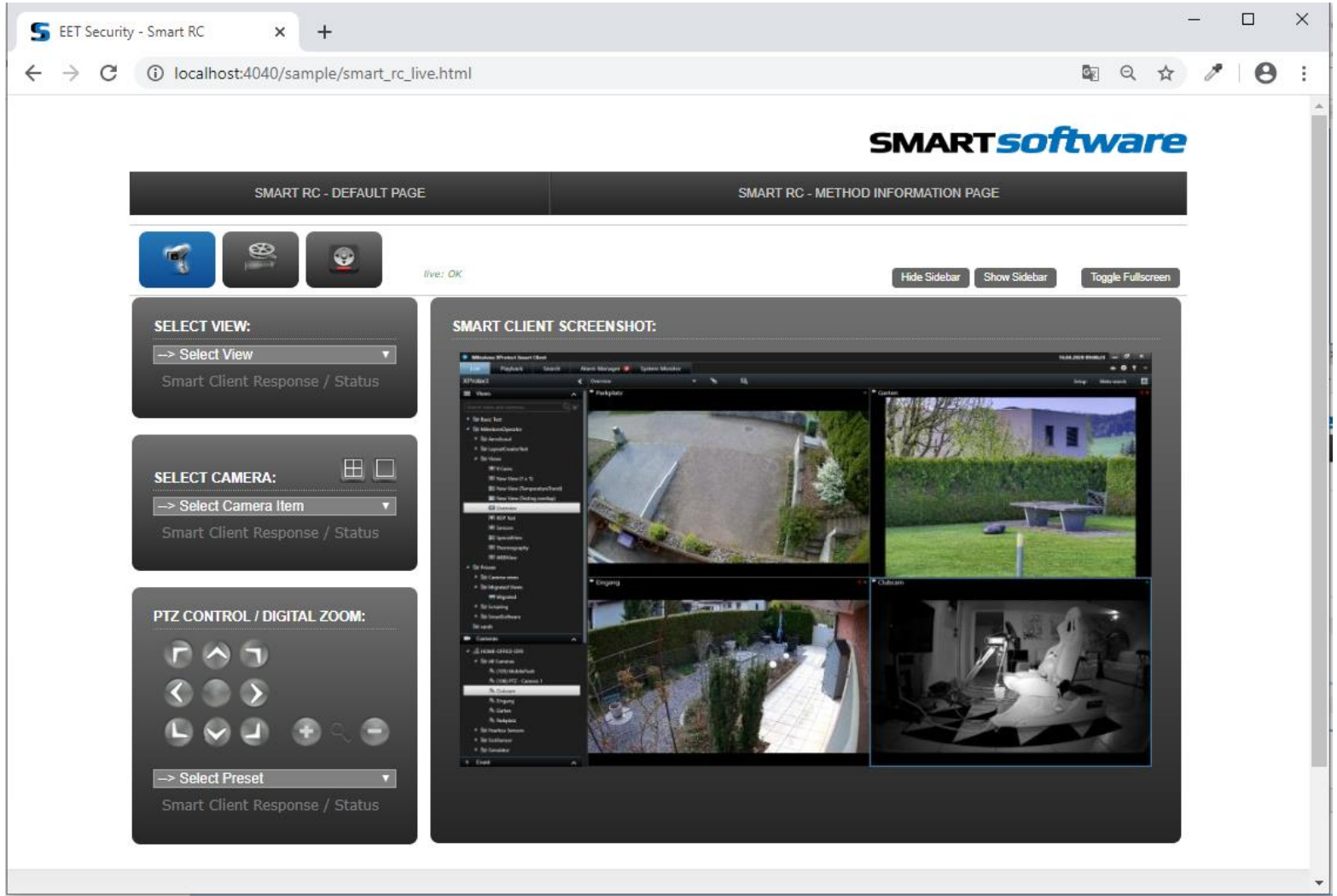


SMART RC HTTP API – METHOD GROUPS

Group / Name:	Description:	Full URL:
Application	Smart Client Application Control Commands	
Smart Client Mode	Smart Client Mode Control Commands	
Smart Client - Change main View	Smart Client Main Screen View Control Commands	
Smart Client Send View to Screen	Smart Client send View to Screen Control Commands	
Smart Client close window on Screen	Smart Client close Window on Screen Control Commands	
Smart Client View Item	Smart Client Select View Item Control Commands	
ViewItemCommand	Smart Client View Item Control Commands	

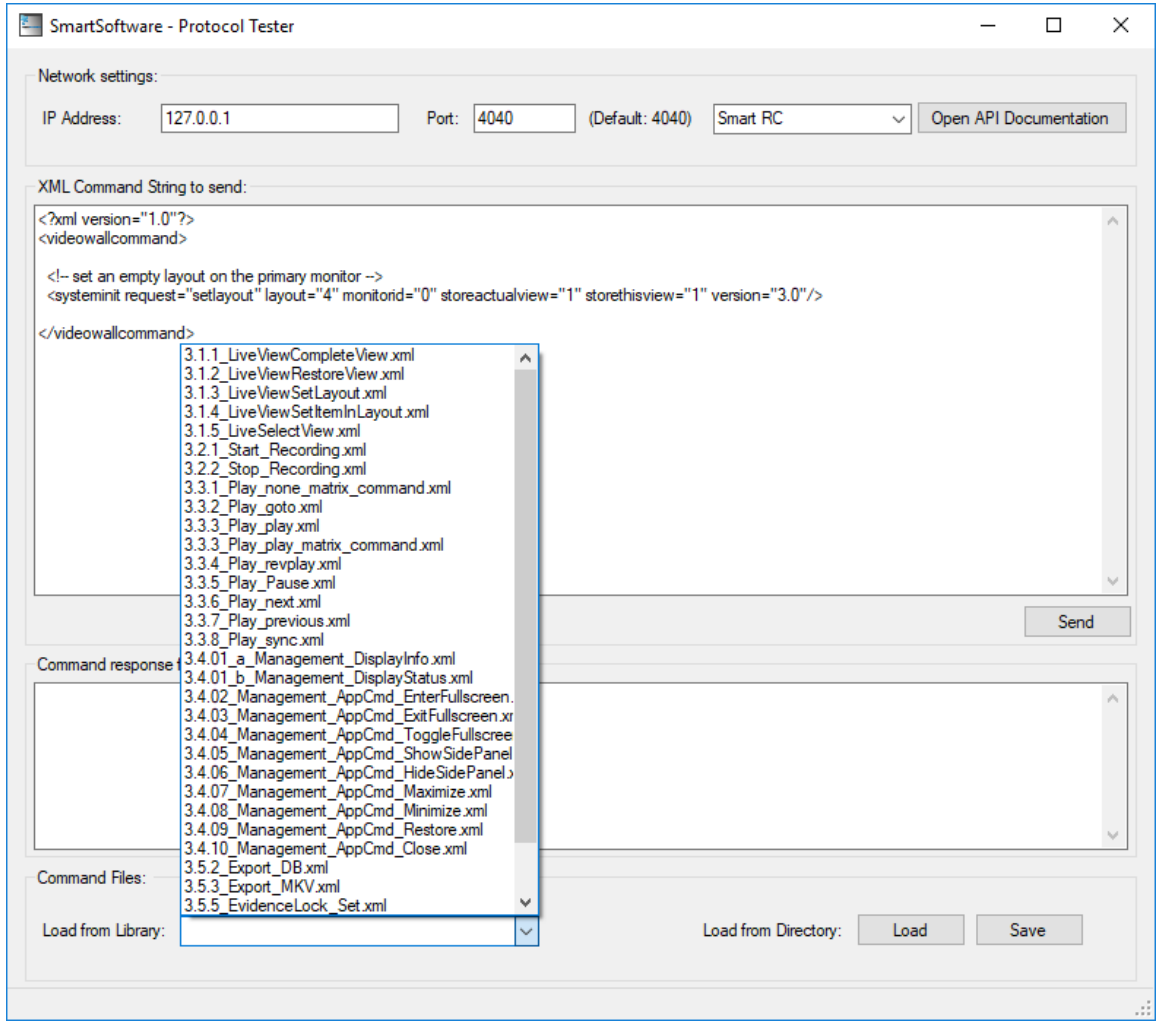
Group / Name:	Description:	Full URL:
ScreenImage	Get Image from Smart Client	
Playback	Send Playback Commands to Smart Client	
PTZ	PTZ Commands for the selected Camera	
PTZ Presets	Preset Commands for Cameras	
DB Export	Smart Client Database Export Control Commands	
AVI Export	Smart Client Media Player Export Control Commands	
Smart Client Message	Send Message to Smart Client Commands	

SMART RC HTTP API – LIVE SAMPLE



SMART RC ADVANCED XML API

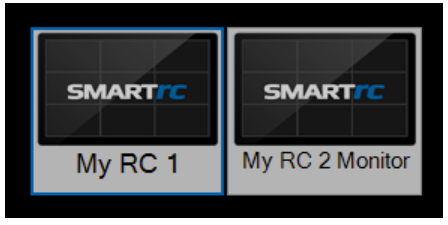
- API Protocol testing Tool available upon request
- Fully documented XML API
- Advanced Features including Evidence Lock and Export
- Shorter development Time for custom video control applications



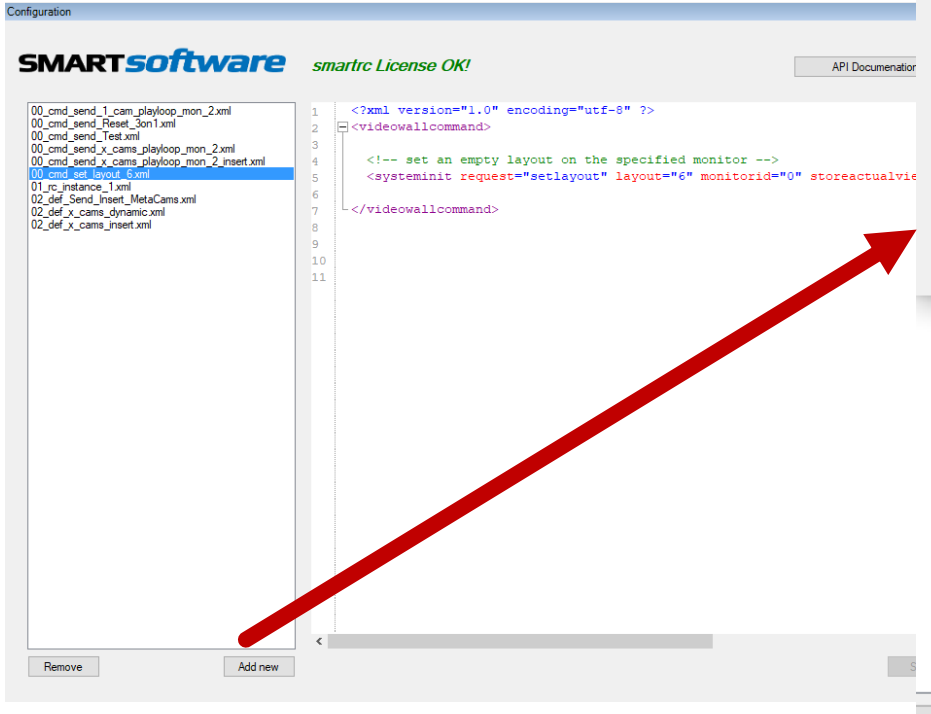
NEW

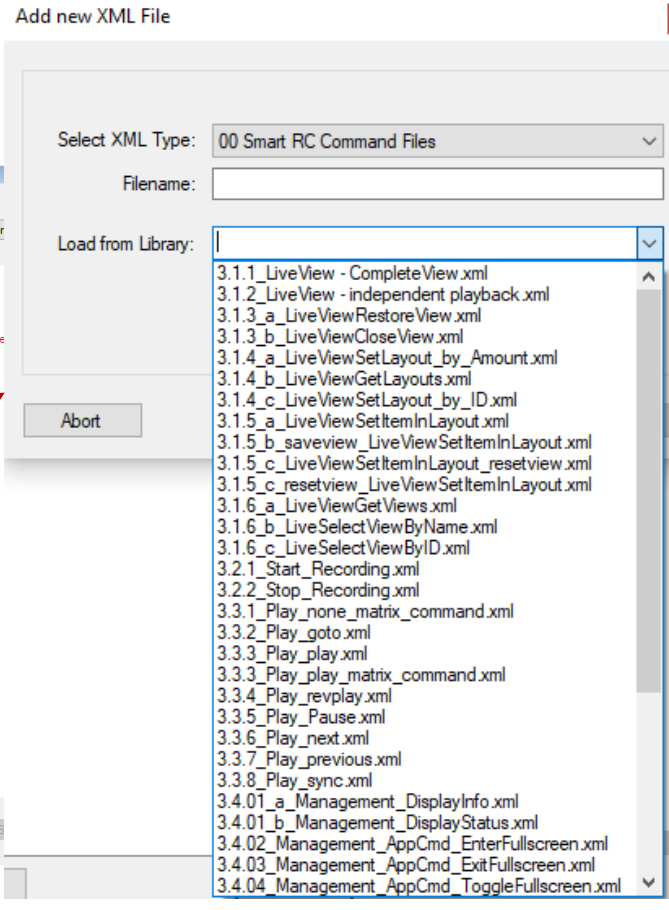
SMART RC ADDITIONAL CONTROLS (ON DEMAND)

- External Display Control UI (like Control Room)



- Smart RC XML TCP Sender Action using Advanced XML API and Action Rules
  - Direct access to the API
  - Divided in CMD (00_) and Target (01_) files
  - Supports combined definition Files (02)





- … Ideas are welcome as usual?

ALARM DESK EDITION

SOMETIMES LESS IS MORE…

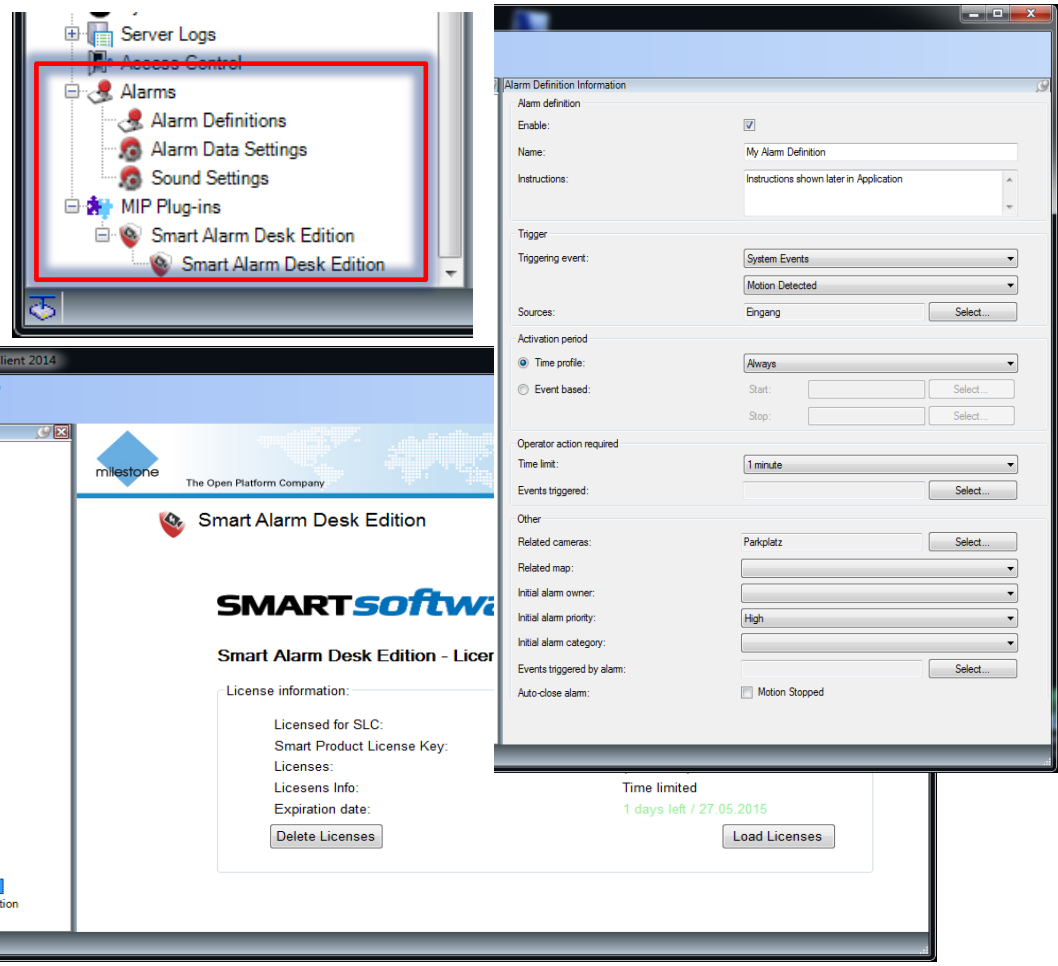
ALARM DESK EDITION

The Smart Client is a powerful tool to view Live Video and investigate in recordings. The best way to make sure the operator is well educated and knows how to use it. Sometimes this can be to much and the use case is different. A receptionist usually works with her pc. Having the Smart Client open can be to much. Alarm Desk Edition offers the following features:

- Popup functionality
- 2 Way Audio
- Alarm verification and handling
- Trigger events to open a door or similar
- Alarm List
- Easy Playback

EASY CONFIGURATION AND SIMPLE LICENSING

- Use the well-known XProtect built-in Event Server and Alarm definition capabilities
- XProtect product dependent alarm features
- Simple and central license management inside the Management Application.
- Dynamic license registration of the running Smart Alarm – Desk edition clients.
  Install as many clients as you want on different PC's.
  The application looks for free licenses and will inform you if there are actually too many instances running.
- Single point of configuration and licensing

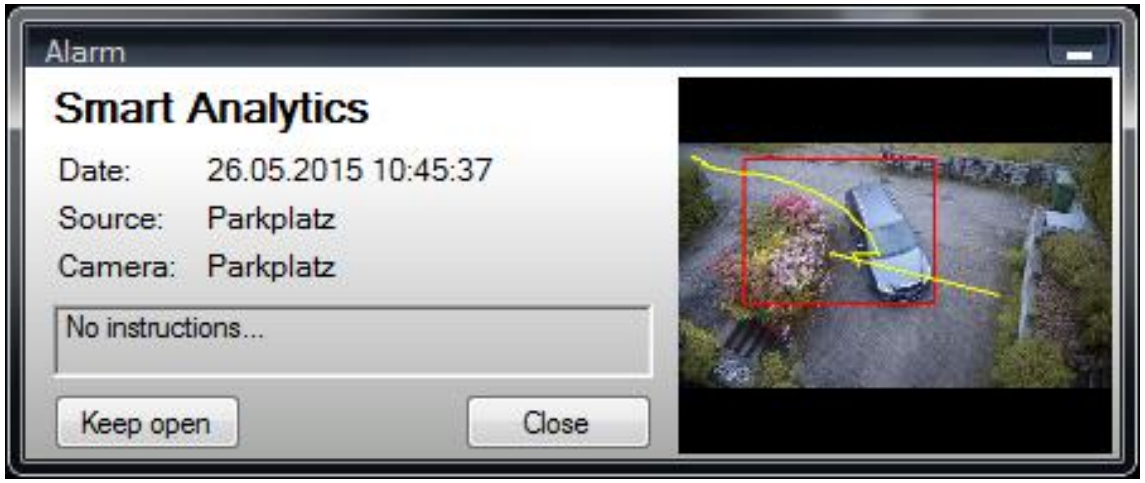


ALARM DESK EDITION POP UP CLIENT

- Easy to use
- Ideal for Desk applications
- Automatic alarm pop-up
- Alarm playback and live mode
- Dynamic multi- camera support
- Bi-directional Audio support
- Direct Output or Event triggering
- Alarm thumbnail preview with quick handling

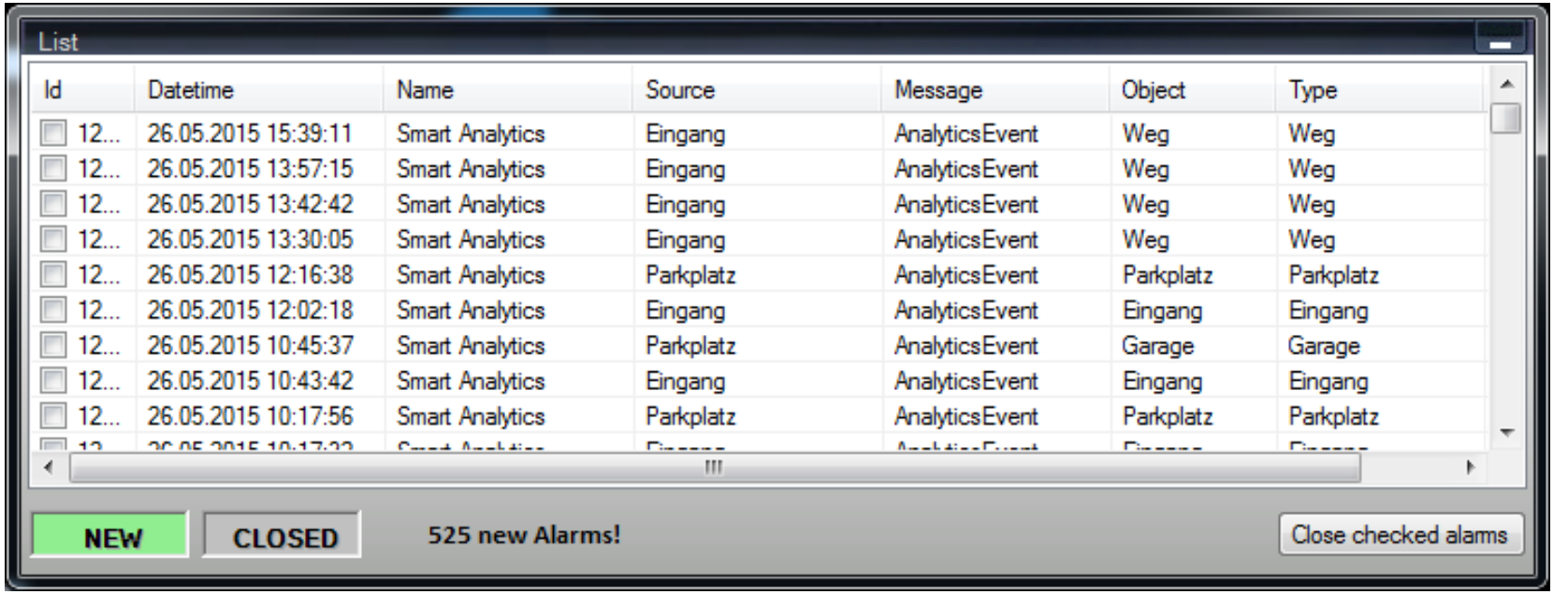
ALARM DESK EDITION ALARM PREVIEW

- Simple alarm preview when hovering over an alarm
- One click alarm playback
- Fast and simple alarm- video export
- Analytics overlay in preview



ALARM DESK EDITION ALARM LIST ON DEMAND

- Easy alarm management (dependent on XProtect product version)
- Fast access for alarm investigation
- List shown on demand



SMART software

TOOLBOX

SOMETIMES YOU JUST NEED A LITTLE BIT MORE…

TOOLBOX

Sometimes the simple things are the most needed. The toolbox may give you exactly those simple solutions which makes your customer 100% satisfied. There will be more and more tools added to the toolbox.

As of today, the following tools are part of the Toolbox:

- Plugins for the Xprotect Smart Client
  - Layout Creator
  - Microsoft RDP Remote Desktop Client View Item
  - HTML 5 Browser View Item (based on the famous Gecko engine)
  - Customizable Camera Name, Time and Custom Overlay
- Event Server Plugins
  - Event Sender – HTTP/S or TCP Commands triggered by Event
  - Event Timer – Create special timers based on Events

NEW

SMART software

TOOLBOX

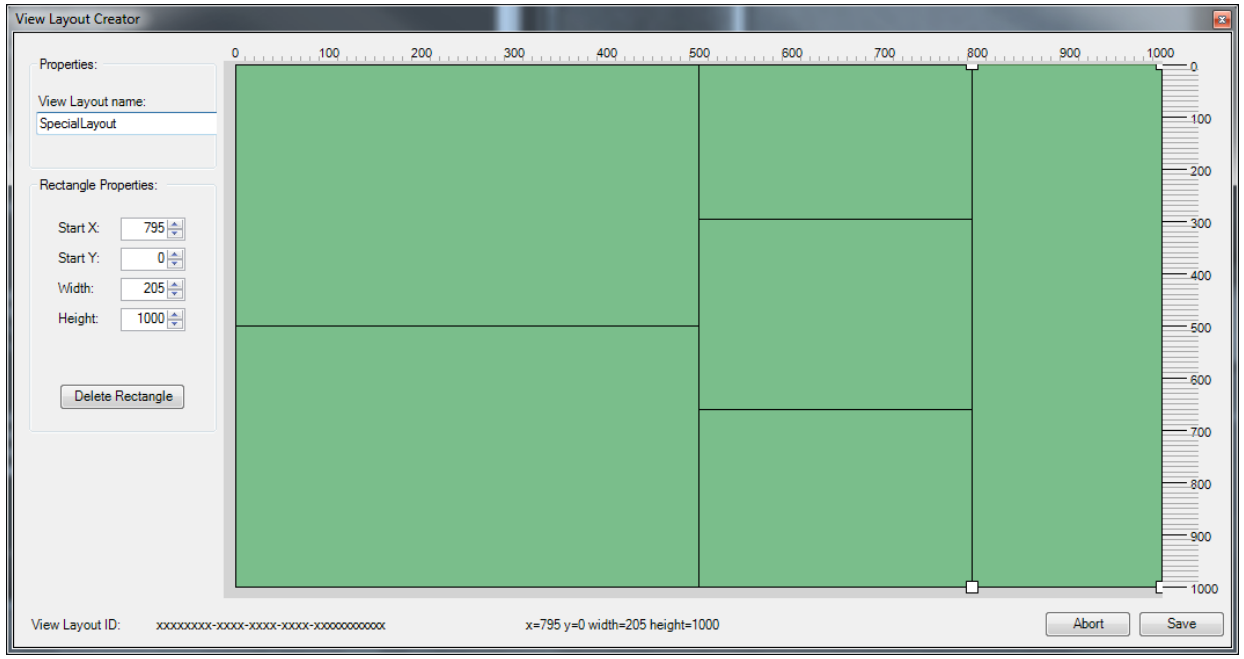
The following tools will be part of the Toolbox in the next release:

- Plugins for the Xprotect Smart Client
  - Smart Mic Audio Mixer
  - Snapshot Viewer
  - User2Role Update Client
- Event Server Plugins
  - User2Role – change the role of users by Event
  - Event Timer becomes Event Manger – Timers based on Events is extended by several counters
  - Event Sequencer – Sequencially timed trigger of Events

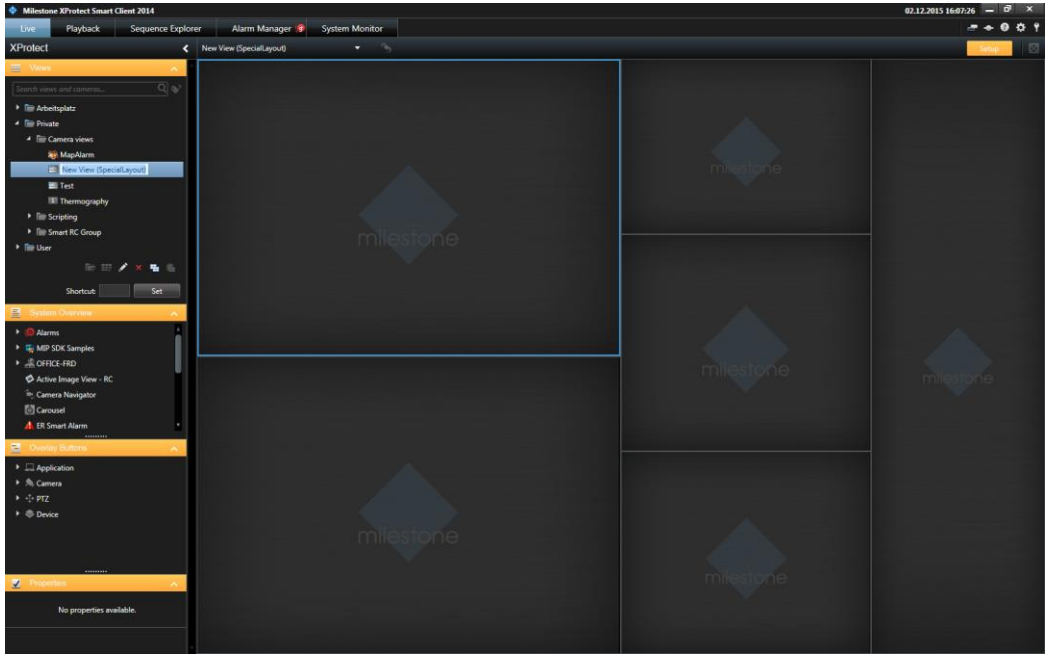
TOOLBOX – SMART CLIENT LAYOUT CREATOR

Have you ever been stuck when your customer asked for an unusual Layout in the Client?
The Layout creator let you draw those Layouts by yourself:

Create with new enhanced WYSIWYG editor…



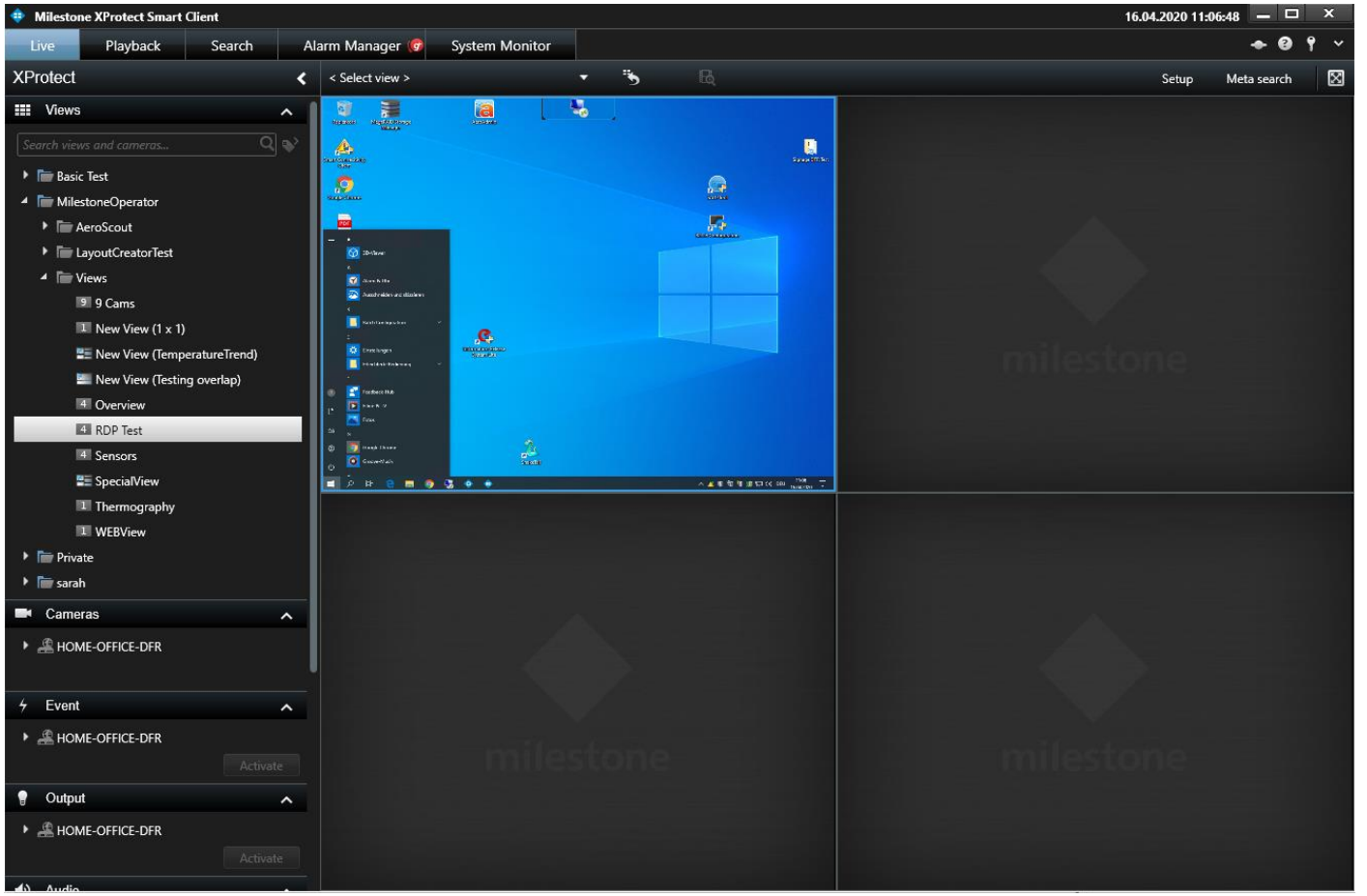
… and use them!



TOOLBOX – SMART CLIENT RDP VIEW ITEM

Did you ever need a simple integration of a 3rd party Client Application into the Smart Client?

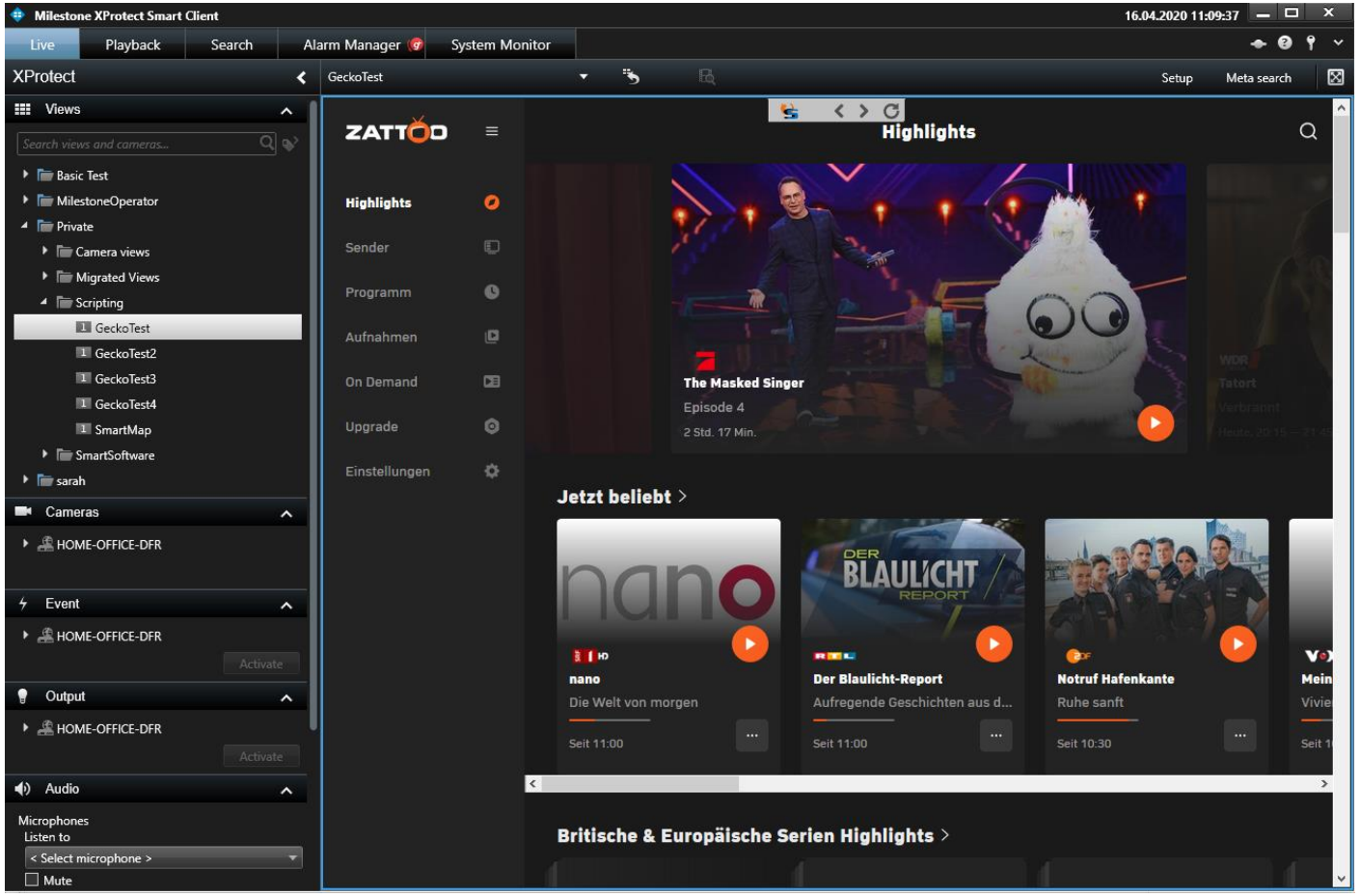
What if you just can use an integrated RDP Client connection?



TOOLBOX – SMART CLIENT HTML 5 VIEW ITEM

And what is about a modern Web content?

Have you ever had layout problems when showing content of a HTML 5 Webpage?

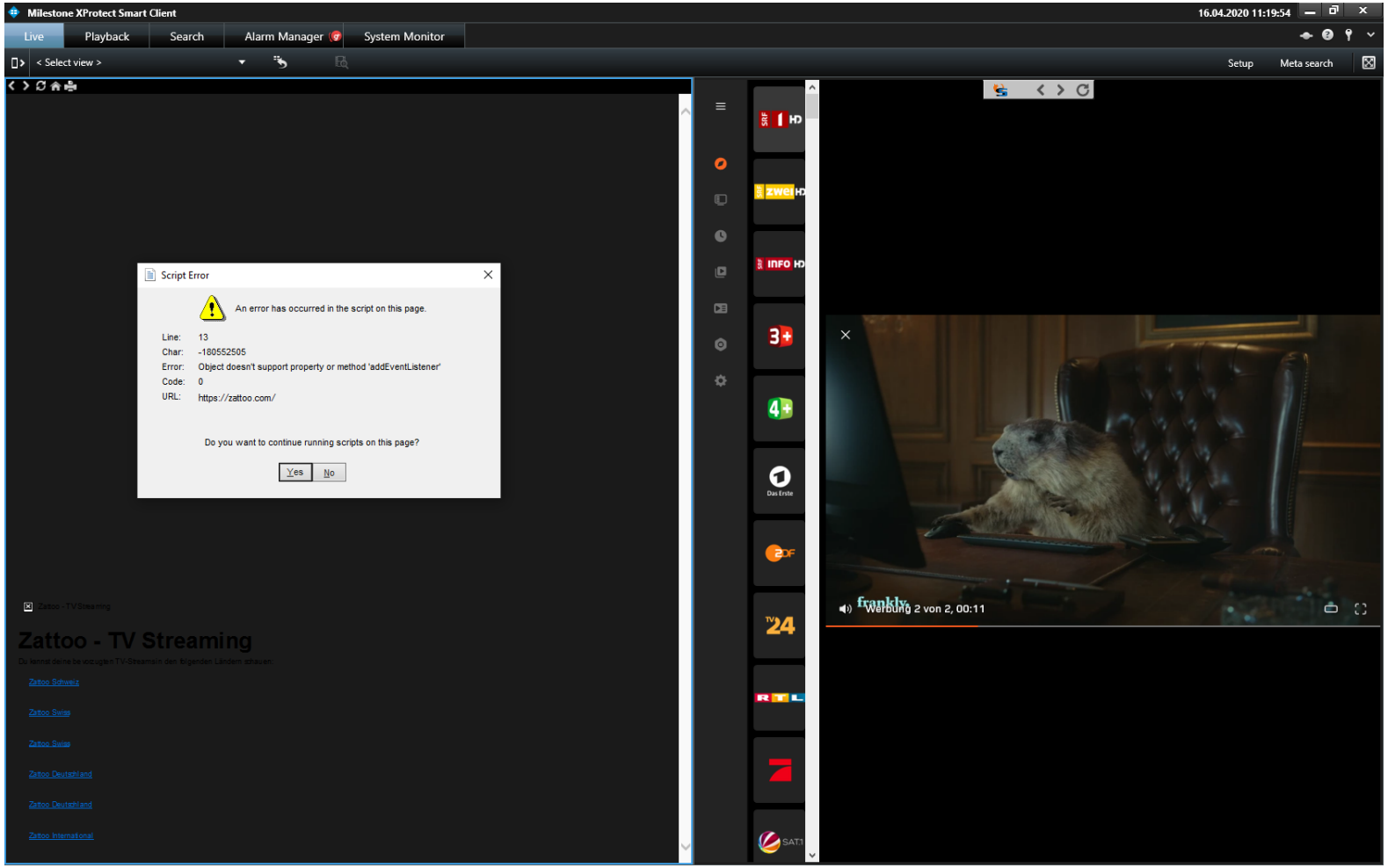


TOOLBOX – SMART CLIENT HTML 5 VIEW ITEM

https://zattoo.com

Built-in
HTML Page
View Item

FAILS!
Scripting Errors
Layout issues
etc.



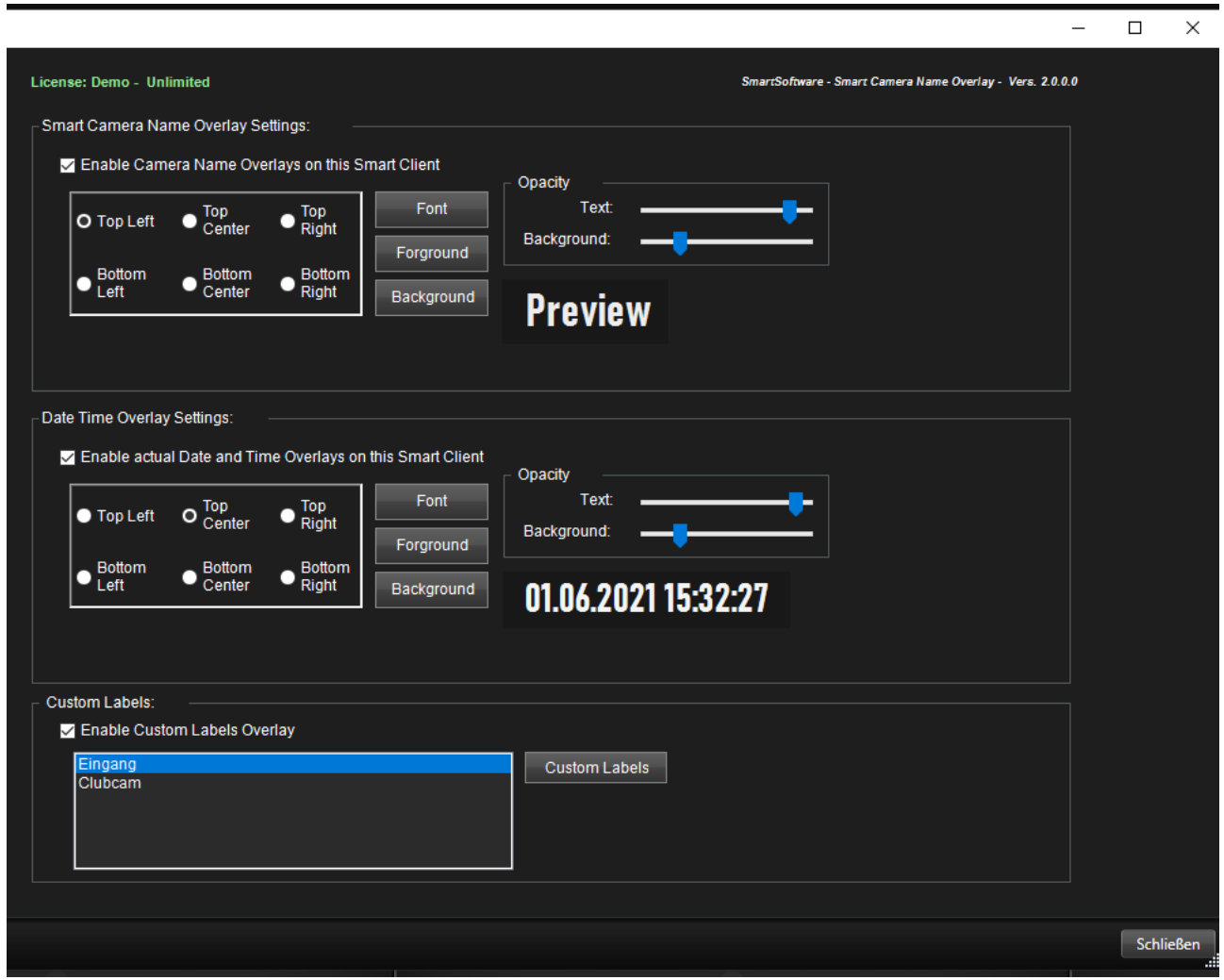
Toolbox
Smart HTML5 Browser
View Item

WORKS PERFECT!

TOOLBOX – SMART CLIENT CAMERA NAME, TIME AND CUSTOM OVERLAY

What if you have a screen mounted on the wall a few meters away of the operator. Is he able to see the Camera name in the Header of the Camera View Item?

Probably not… with the Camera Name Overlay Plugin you can show the Camera name as on overlay with customized properties.

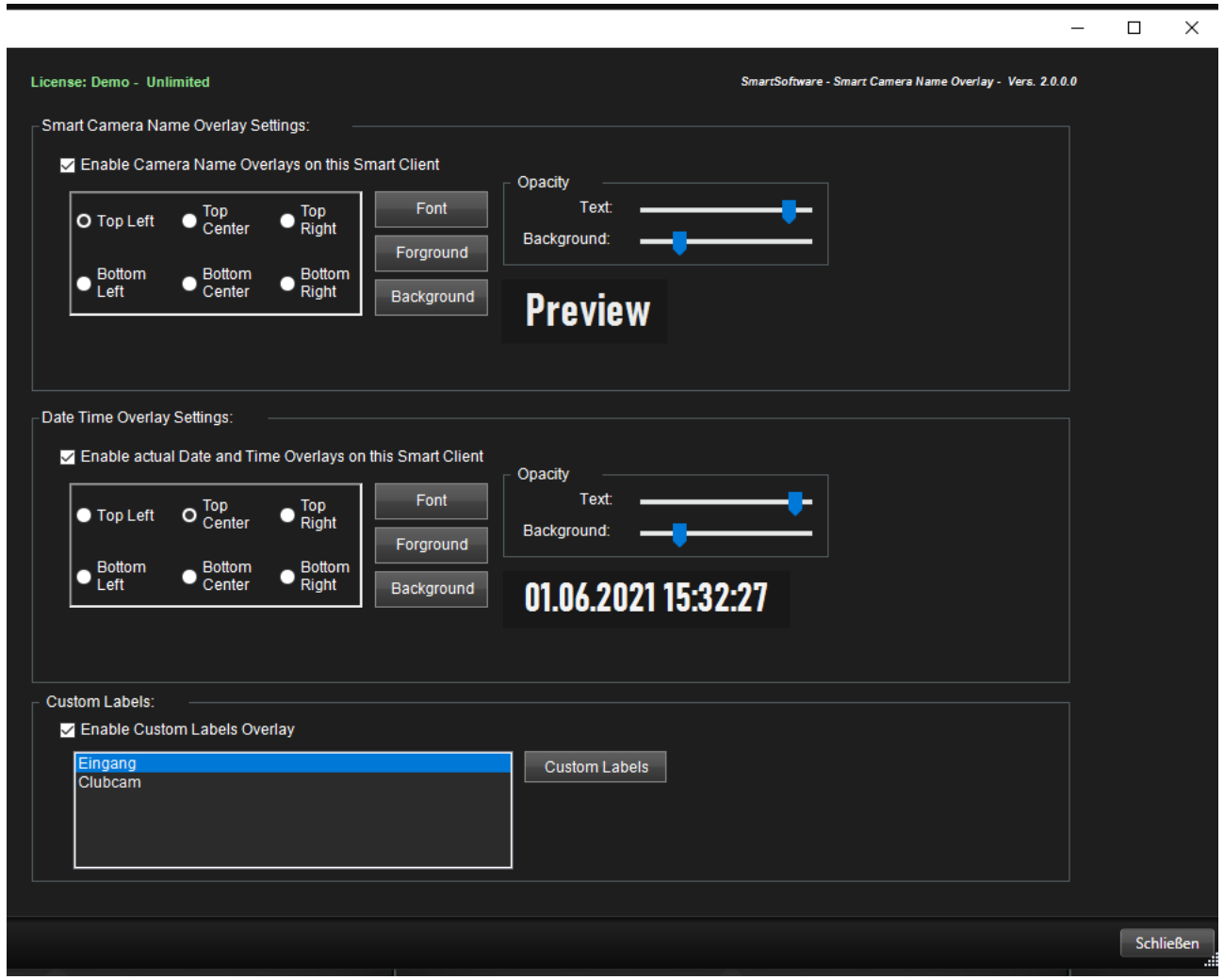


NEW

TOOLBOX – SMART CLIENT CAMERA NAME, TIME AND CUSTOM OVERLAY

Enhancements in the newest version:

- Date and Time Overlay in Live and Playback mode
- Free position of custom text Overlays including text changes triggered by Event.



TOOLBOX – SMART CLIENT CAMERA NAME, TIME AND CUSTOM OVERLAY

Impossible to read Camera Name from distance!

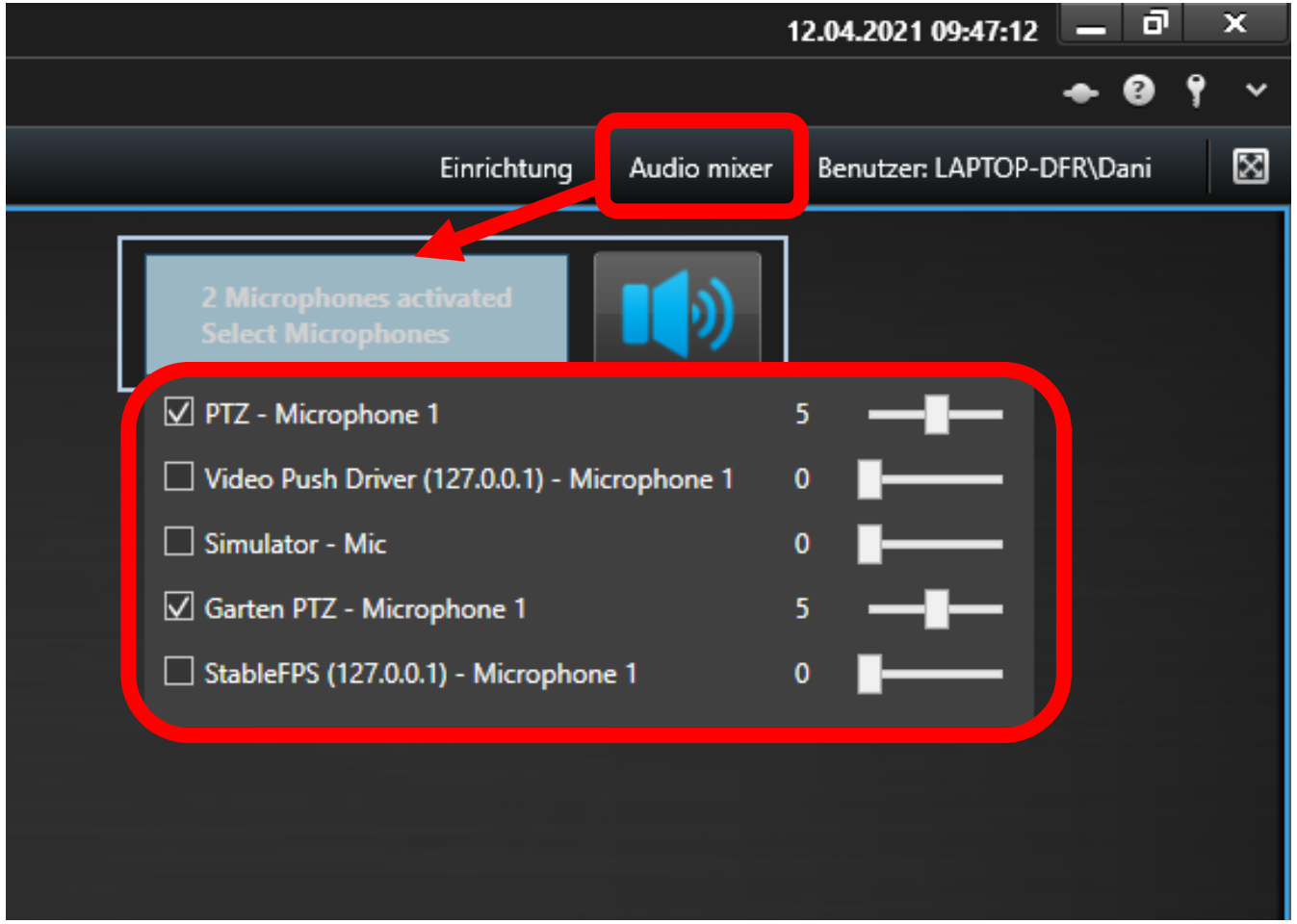
Camera Name is well readable from distance!

NEW

TOOLBOX – SMART CLIENT – MIC AUDIO MIXER

What if you want to hear multiple Audio from Microphones
at the same time?

With the Mic Audio Mixer you can hear all the channels selected and adjust the volume independently.



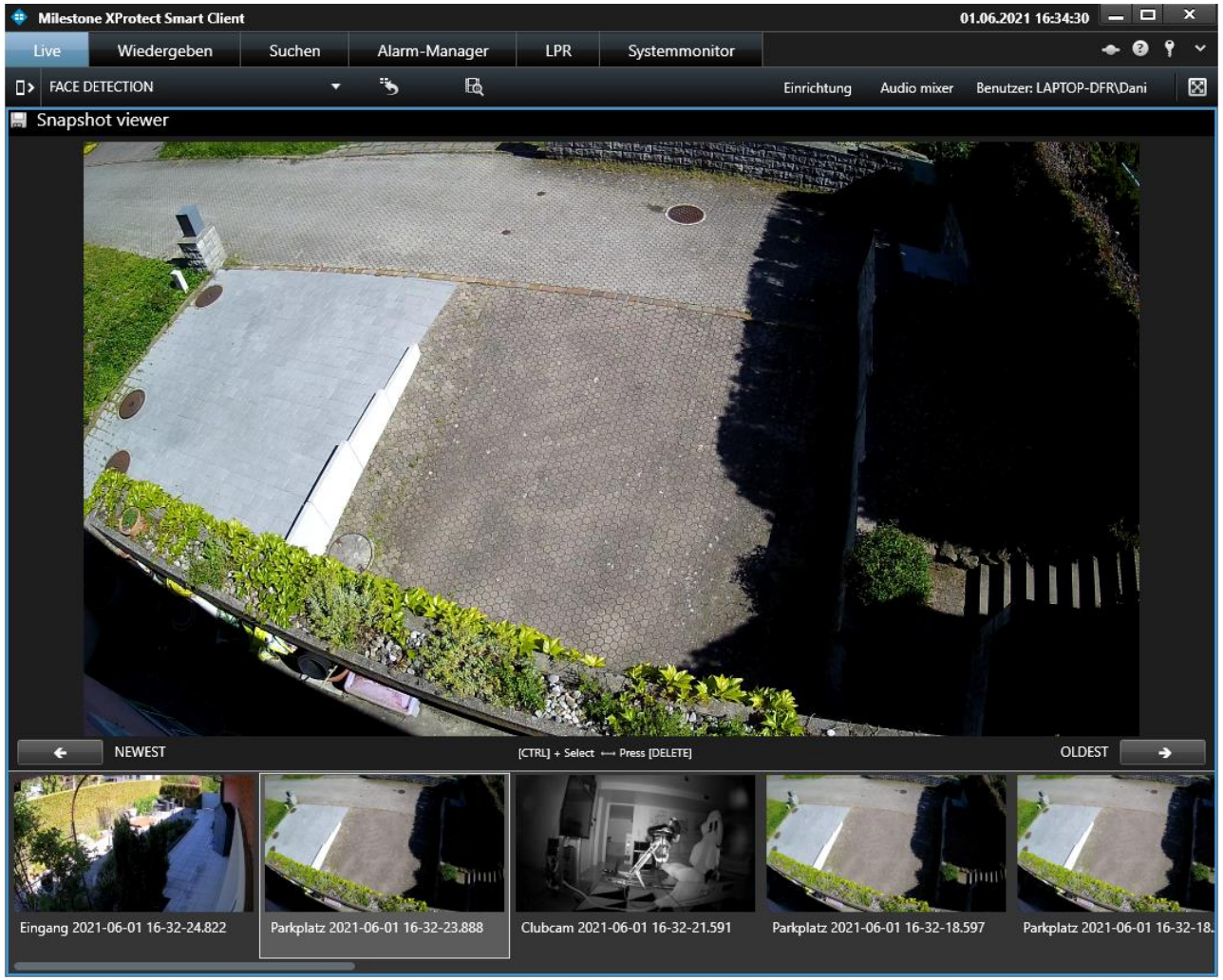
NEW

TOOLBOX – SMART CLIENT – SNAPSHOT VIEWER

The Smart Client provides a Snapshot function, where you can store the actual Image to a predefined location.

To see and manage (delete) those Snapshots you need to open the file explorer.

What if you could directly access the Snapshot Images from the Smart Client?



TOOLBOX – EVENT SERVER EVENT SENDER

Have you ever had the need to execute a http or tcp command from the VMS to any 3rd part System?

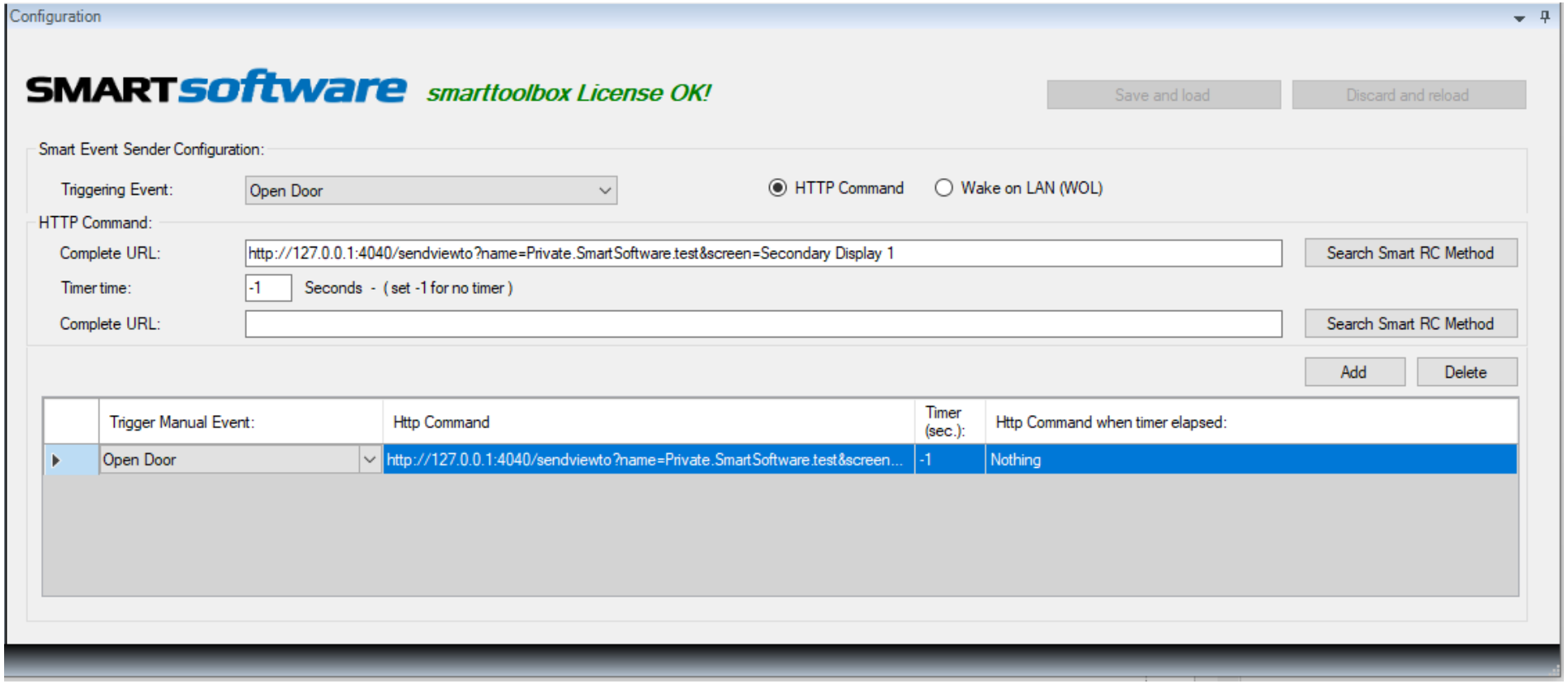
For instance to activate a Wiper on a Camera or send a tcp command to a external device?

Using the Event Sender Plugin from the Toolbox enables you to send such a command triggered by an Event from the VMS.

There is even native support of the Smart RC Plugin to control the Smart Client with just a few clicks of configuration.

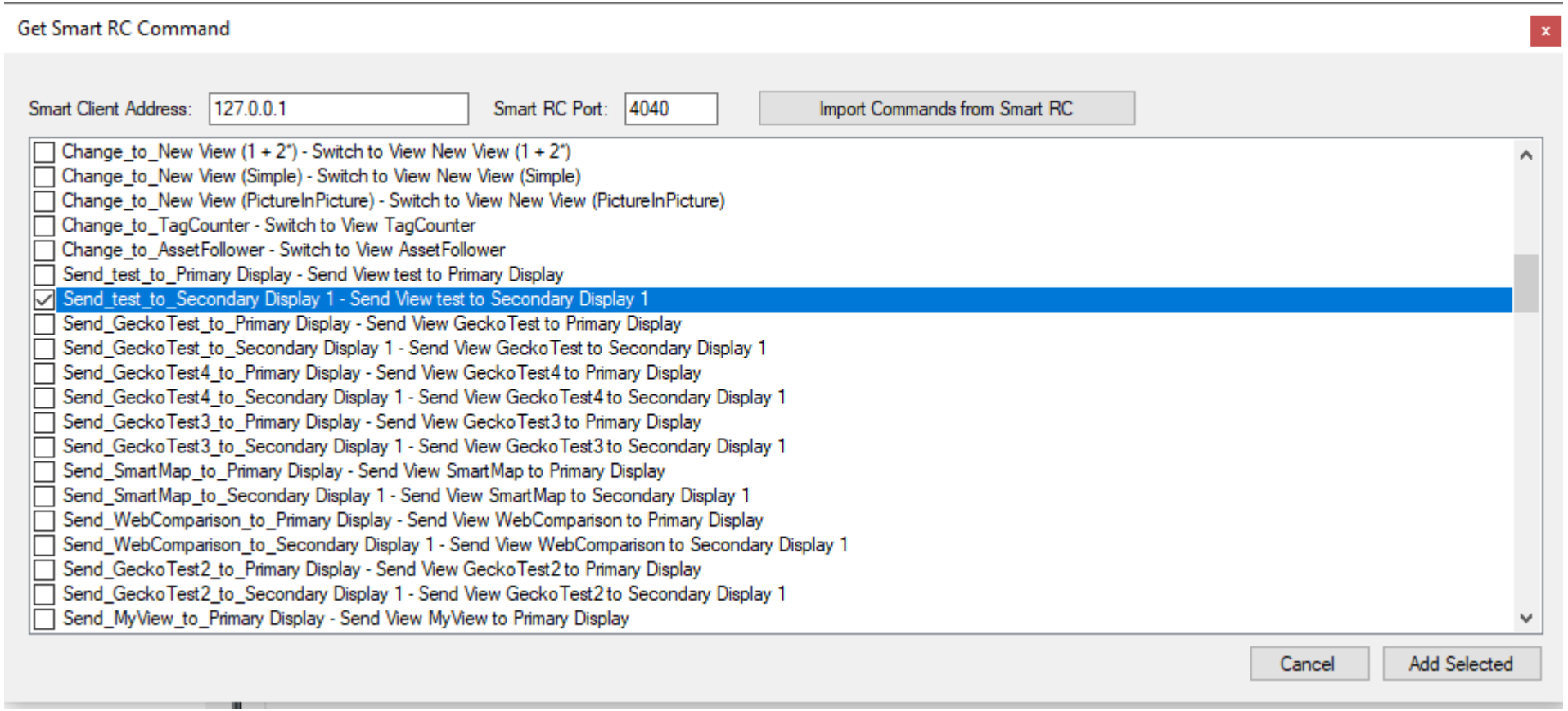
TOOLBOX – EVENT SERVER EVENT SENDER

Simply choose the User defined Event which triggers your http or tcp command:



TOOLBOX – EVENT SERVER EVENT SENDER

… or import all possible SmartRC commands to choose from:



TOOLBOX – EVENT SERVER EVENT TIMER → PART OF THE NEW EVENT MANAGER

The Event Timer is used to start a timer by Event and when it elapses it triggers an other Event. But what when the starting Event is triggered when the timer is already running?

Other than the built-in Timers from the rule system, the Event Timer will reset the timer in this case and starts counting from the beginning. This can be used in various scenarios where this is needed.

Example:

You create a rule where an Event is changing your Smart Wall View to VIEW-B for 20 Sec. and after that time, it will switch back to VIEW-A.

This is working as long as the same Event is not triggered again. Imaging what happens if this Event is triggered again after 19 Sec. How long is VIEW-B shown before the first timer ends and switches back to VIEW-A even if VIEW-B should be shown?

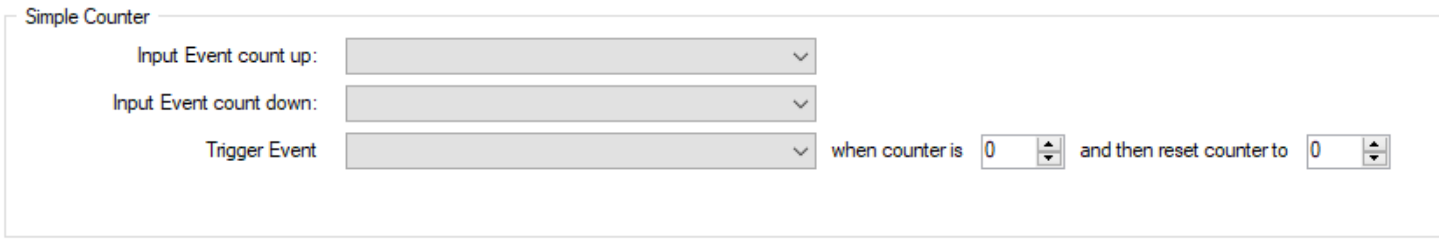
NEW

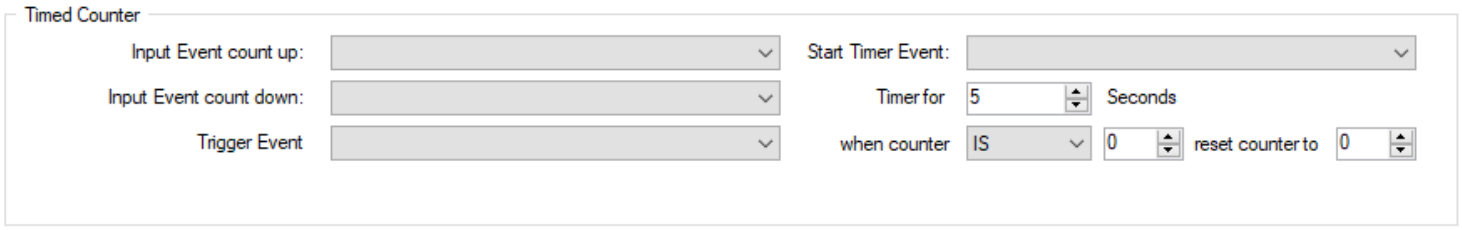
TOOLBOX – EVENT MANAGER

SMART software

Event Timer will be extended by new counters which enables different compares:

- Simple Up- and Down Counter
  - Select Events for Up- and Down
  - Trigger Event when counter meets the rule value
- Timed Up- and Down Counter
  - Select Events for Up- and Down
  - Select a Start Event Timer
  - Trigger Event when counter meets (IS / IS NOT) the rule value after the timer
- Event Period Up- and Down Counter
  - Select Events for UP- and Down
  - Select a Start- and Stop Period Event
  - Trigger Event when counter meets (IS / IS NOT) the rule value after the stop Event is triggered



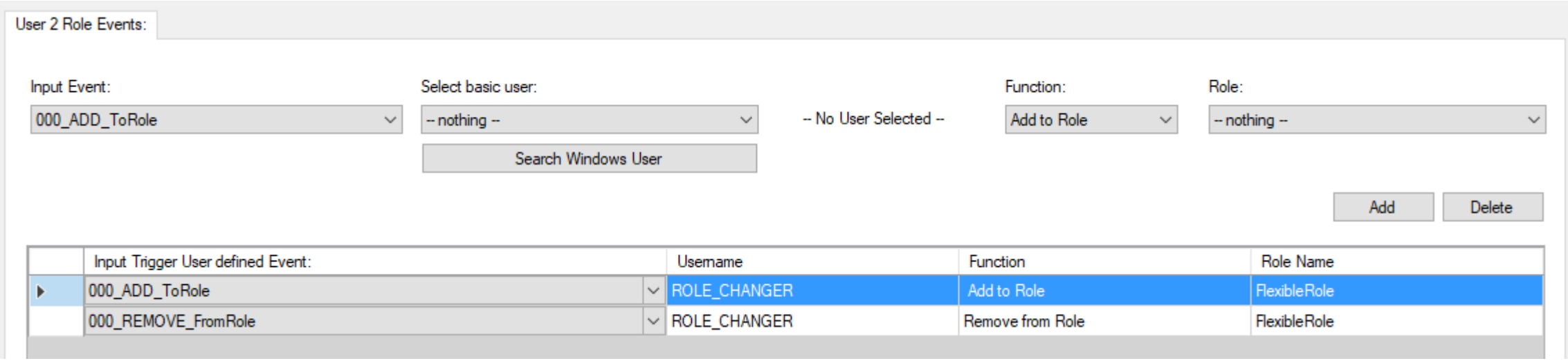


NEW

SMART software

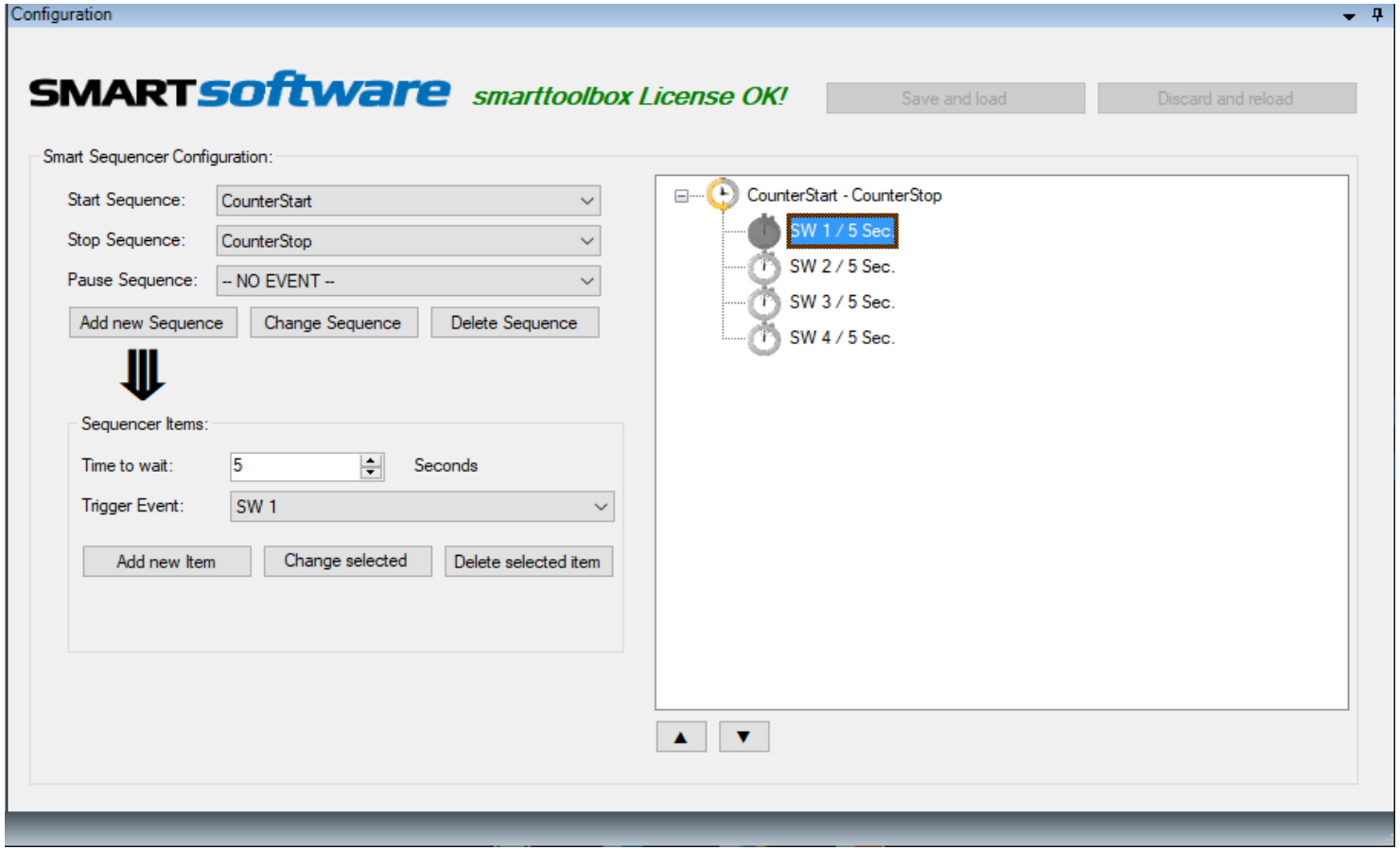
TOOLBOX – USER 2 ROLE

Change the Role of a user by Event:



By using the User 2 Role Client plugin, the Role change takes effect immediately when the Event is triggered as the user is informed and the Video Client configuration is reloaded.

NEW

TOOLBOX – EVENT SEQUENCER

Create Sequences of periodically triggered User defined Events: