	Video Plus Module J. Gleave

Contents

Introduction

The Video Plus module of GuardPointPro allows the same features as a CCTV client (live and playback video records, video/picture side by side comparison, snapshots, PTZ control, etc.) with the possibility to monitor video records linked to access control and intrusion events.

For example, when an intrusion is detected, the guard watching the Video Plus interface is able to visually check if it is a false alarm or if there is really a thief. In the latter case, he may lock/open a door or arm/disarm the corresponding alarm zone remotely via buttons on the screen. In addition, he can monitor the real-time status of each door (opened/closed, locked/unlocked).
Readers, Inputs, Cameras are organized in tree view to make the supervision much easier.

Requirements

1. NVR must be installed on a strong machine.
   Consult the NVR manufacturer documentation for the minimum system requirements.
   The Video Plus module supports the following NVR model:
   - Milestone XProtect Enterprise server or XProtect GO
   - OnSSI Occularis
   - Hikvision

2. All the cameras must be already configured on the NVR.
   The user must have all the required licenses for each of the cameras configured.
   This step is not in Sensor Access scope so for further information, see the NVR documentation.

3. In order to have all the events synced between all these entities we recommend that the administrator configures all units to sync their clock with a Time Server. This concerns the following devices:
   - Cameras
   - NVR server
   - GuardPoint Pro server

4. Some features may not work if GuardPoint Pro server has not the version 3.0.029 or newer.
   During the setup, a new “VideoPlus” folder is created in the application folder.
   The Video Plus module supports both MS-SQL and MS Access database types.

5. GuardPoint Pro dongle must have the V+ module (and SQL module if using SQL database).

6. Each Video Plus station must have .Net4 installed.
   Note that the maximum number of Video Plus stations running simultaneously is limited by the NVR but it should not exceed 20.

Tip: Milestone XProtect Go NVR is free and available here:
http://www.milestonesys.com/Software/XProtect-IP-Video-Surveillance/xprotectgo/

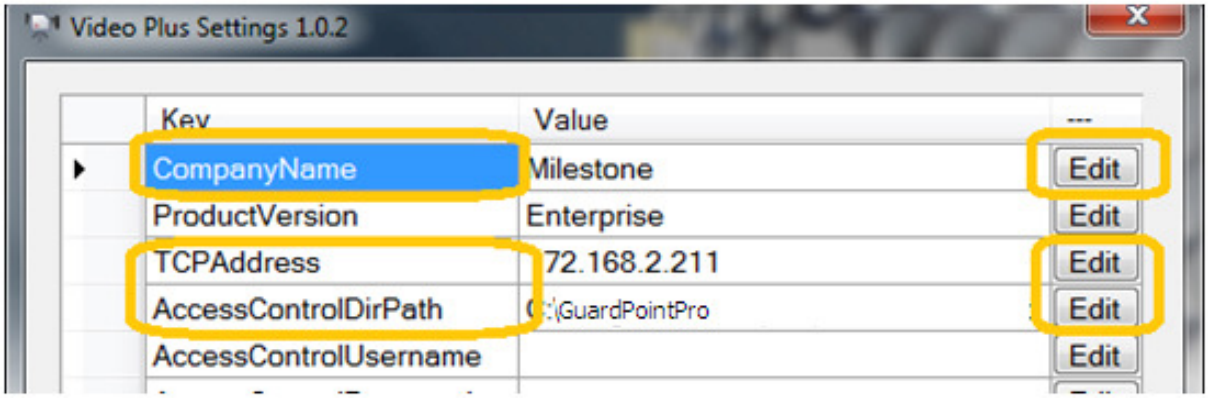
Installation & Configuration

GuardPoint Pro configuration

1. Open the GuardPointPro.ini file and set the following options:
   - Video+ = 1
   - VideoPlusPort = 12345 – This is the TCP port number that would use the Video Plus module.
   - VideoPlusAuthentication – User Type, 'Basic' or 'Windows', defined in Milestone or OnSSI NVR. For Hikvision NVR, both options are suitable.
2. Set the DbsFolder option with the full network path to the GuardPoint Pro server folder (eg.\\SRV\ACS\).
3. Save and launch GuardPoint Pro. Open the GuardPoint Pro DVR screen and create a DVR of "**VideoPlus**" type with the NVR server parameters (do not forget the port in the IP address field, eg. 172.168.1.145:80). Select the name of the DVR from the list ("HIK" or "Milestone") following to the NVR model. For OnSSI, enter any name but select the 'Milestone' type instead of 'VideoPlus'.
4. Save and restart GuardPoint Pro. After the restart, a DOS-window appears for a few seconds in order to create in the "VideoPlus" folder of the application folder a "CameraList.xml" file. This file contains the list of all the cameras that have been configured in the NVR server previously.
5. Open the GuardPoint Pro Camera screen and create the relevant cameras. The camera list is updated with the name of all the cameras, as defined in the NVR server.
6. Create if required, the Authorization Levels with the "Video +" module (in Read/Write or Read Only mode) for the users that will use the Video Plus interface.

Video Plus installation & configuration

1. Install the Video Plus setup at the station where the Video Plus module will be used.
   The module can be installed on any PC of the LAN, i.e. not exclusively on the GuardPoint Pro machine.
2. During the setup, choose the relevant NVR manufacturer: Milestone (and OnSSI) or HIK.
   The setup installs a "VideoPlus" folder with the "VidSettingEdit.exe" and "VideoPlus.exe" files inside. At the end of the installation, a VideoPlus shortcut is created on the Desktop.
3. Launch the "VidSettingEdit.exe" tool located in the "VideoPlus" folder.
4. Update the fields 'CompanyName' (if necessary), 'AccessControlDirPath' and 'TCPAddress' by clicking on the 'Edit' button.

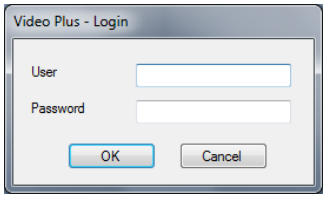


Following to the NVR type, the CompanyName value may be either “HIK” or “Milestone”.
The TCPAddress value must be the GuardPoint Pro server IP Address.
The AccessControlDirPath value must be the application folder path of the GuardPoint Pro server.
Note: for the other settings, see the ‘Appendix A’ at the end of this document.

5. Save and close. This will automatically update the “configV+.xml” file.
6. Launch the Video Plus module by double-clicking on the Desktop shortcut.
7. The Video Plus module may be running on several stations simultaneously.

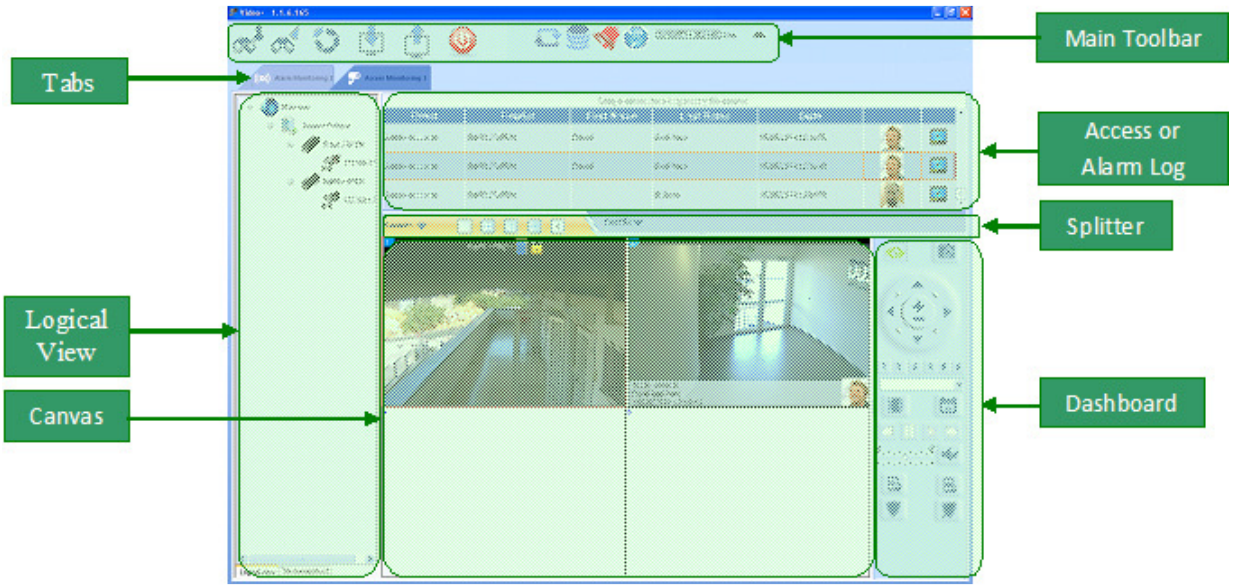
Using the Video Plus module

The Video Plus module should run when GuardPoint Pro is already running, otherwise it will stay logged out. The Username/Password in Video Plus are the same as in GuardPoint Pro.



Nevertheless, it is possible to start the Video Plus without entering the user information (see the "AccessControlUsername" option above). In case these entries are wrong, the Video Plus module displays a warning message and stays logged out.

General behavior



A. **Main Toolbar**. It contains buttons for opening new tabs, loading/saving layouts and status icons for information.
B. **Tabs**. Each tab is a window containing Access information, Alarm information or configuration tools for the Logical View.
C. **Logical View**. Tree view of Readers, Inputs, Cameras. Drag & drop cameras from Logical View to the Canvas will display live video stream.
D. **Canvas View**. Video data (live or playback) are displayed in the Canvas Tiles.
E. **Splitter**. It contains the Tile configuration buttons and the Alarm Acknowledge/Confirm buttons.
F. **Dashboard**. The dashboard allows to switch from live video stream and playback view. In addition, it enables to lock/open a door or to arm/disarm an alarm zone.

G. **Access or Alarm Log**. Depending on the tab type, it displays either the access control events or the alarm events. This log is automatically updated as long as GuardPoint Pro is running. When a camera is associated to a reader or an input, it is possible to drag & drop access/alarm events relating to this reader/input to the Canvas Tiles in order to monitor video records corresponding to these events.

The content of this layout is **resizable**; the borders between the different parts can be moved.

Main Toolbar

1. Open new tab for monitoring Access events and associated video.
2. Open new tab for monitoring Alarms and associated video.
3. Open new tab for configuring the Logical View. If the user has in his Authorization Level the "Video +" in Read Only mode, this button is greyed out for preventing this user to change something in the Logical View tab.
4. Restore saved layouts containing the open tabs with their parameters.
5. Save the current layout, i.e. all the open tabs with their parameters.
6. Exit button.
7. Communication status icon; it blinks red when the communication with the main GuardPoint Pro server is down after about 1 min; in this case the Video Plus continues to work, allowing the user to view camera and database records, without getting any notification about accesses and alarms.

   After connection to a secondary server (if exists), the icon appears with the "number 2"  , in order to notify that the redundancy server is active.

8. Database status icon; the icon  starts to blink when there is no response from the main database; after connection to a redundant database (if exists), the icon appears with the "number 2"  in order to notify that the Video Plus module is connected to the secondary database.
9. Alarm notification icon; it blinks red when a new alarm occurs and stops to blink when all alarms are acknowledged. The icon is blinking even if the alarm is not linked to a camera.
10. GuardPoint Pro button; it display the GuardPoint Pro interface. There is also a Video Plus button in the main toolbar of GuardPoint Pro for switching back to the Video Plus interface.

    Both buttons are working only if the Video Plus is running on the same station as GuardPoint Pro.
11. Real time clock.
12. Name of the current user.

Tabs

This is the list of the currently opened windows. There are three types of tab:

- Logical View
- Access Monitoring
- Alarm Monitoring

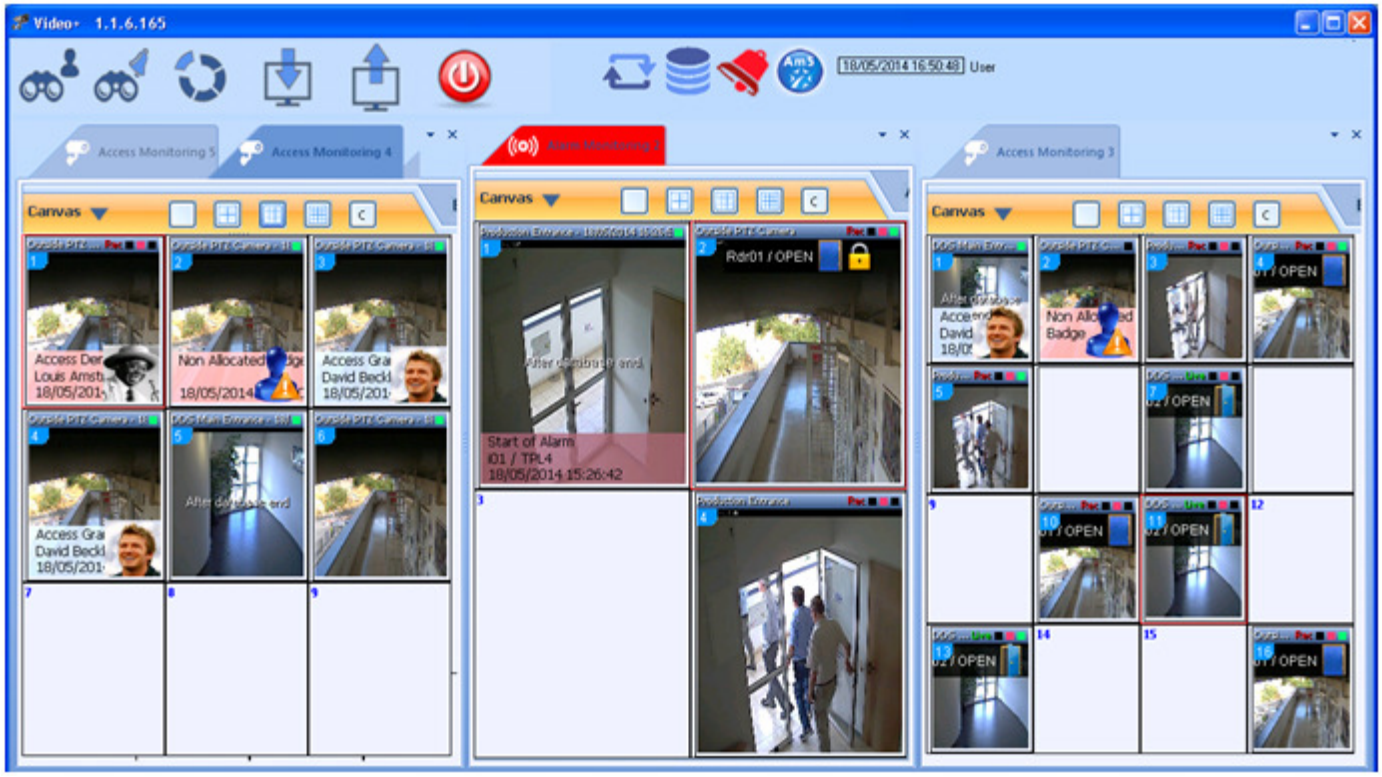
Every time a new tab is opened (Access or Alarm Monitoring) a number is associated (ex. 'Alarm Monitoring 12'). It is possible to open up to 15 tabs simultaneously in order to manage different places separately (eg. one tab per floor).

Right-clicking on the Tab strip opens a menu where the user can choose to close the current tab or all the tabs in one go. It enables to rename the tab and to select which panels to display inside the tab (eg. Logical View, Log, Dashboard).

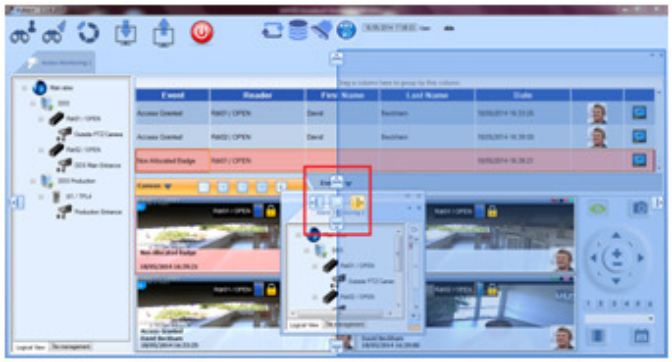
In addition, it is possible from this menu to group tabs horizontally or vertically by selecting 'New Horizontal/Vertical Tab Group' option. For example, here the tabs are grouped horizontally and vertically in order to view alarms, access and video on different tabs:

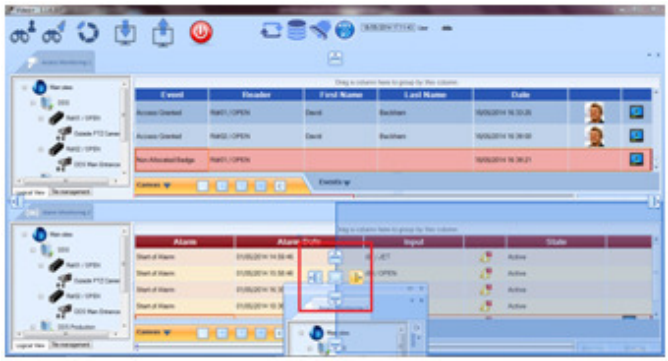

Video+ 1.1.6.165
Alarm Monitoring 2
Logical View
Main sites
DDS
Rdr01 / OPEN
Outside
Rdr02 / OPEN
DDS M...
Logical View
Tile management
Drag a column here to group by this column.
Alarm
Alarm Date
Input
State
Start of Alarm 01/05/2014 14:59:46 i01 / JET Active
Start of Alarm 01/05/2014 15:58:46 i03 / OPEN Active
Start of Alarm 01/05/2014 16:35:46 i02 / OPEN Active
Start of Alarm 01/05/2014 18:36:25 i01 / OPEN Active
Start of Alarm 18/05/2014 15:26:42 i01 / TPL4 Active
Access Monitoring 4
Drag a column here to group by this column.
Event
Reader
First Na...
Last Name
Date
Access Gra... Rdr01 / OPEN David Beckham 15/05/2014 12:...
Access Gra... Rdr02 / OPEN David Beckham 15/05/2014 12:...
Access Gra... Rdr02 / OPEN David Beckham 15/05/2014 12:...
Access Gra... Rdr01 / OPEN Shlomo 15/05/2014 13:...
Access Gra... Rdr01 / OPEN Shlomo 18/05/2014 15:...
Access De... Rdr01 / OPEN Louis Amstrong 18/05/2014 15:...
Access Gra... Rdr01 / OPEN David Beckham 18/05/2014 15:...
Non Allocat... Rdr02 / OPEN 18/05/2014 15:...
Non Allocat... Rdr02 / OPEN 18/05/2014 15:...
Non Allocat... Rdr01 / OPEN 18/05/2014 15:...
Access Monitoring 3
Canvas
Events
Non Allocated Badge
18/05/2014 15:23:42
Access Granted
David Beckham
15/05/2014 12:09:53
Rdr01 / OPEN

Here the tabs are grouped vertically in order to view cameras of different tabs simultaneously:



Note that the same result can be obtained by dragging the tab in the center of the screen. Then, symbols appear in order to choose the direction to place the tab group (i.e. up, down, right or left). To move the tab in another group, drop the tab on one of these symbols.





Alarm notification:

When a new alarm occurs, all alarm monitoring tabs blink red with the Alarm notification icon except if the tab is already selected. These tabs stop to blink when selected or when all alarms are acknowledged.

Load/Save Layout:

From the Main Toolbar, it is possible to save the current layout of the Video Plus in a XML file by pressing  . This allows to backup and restore later, if needed, exactly the same layout after closing the tabs or restarting the application.

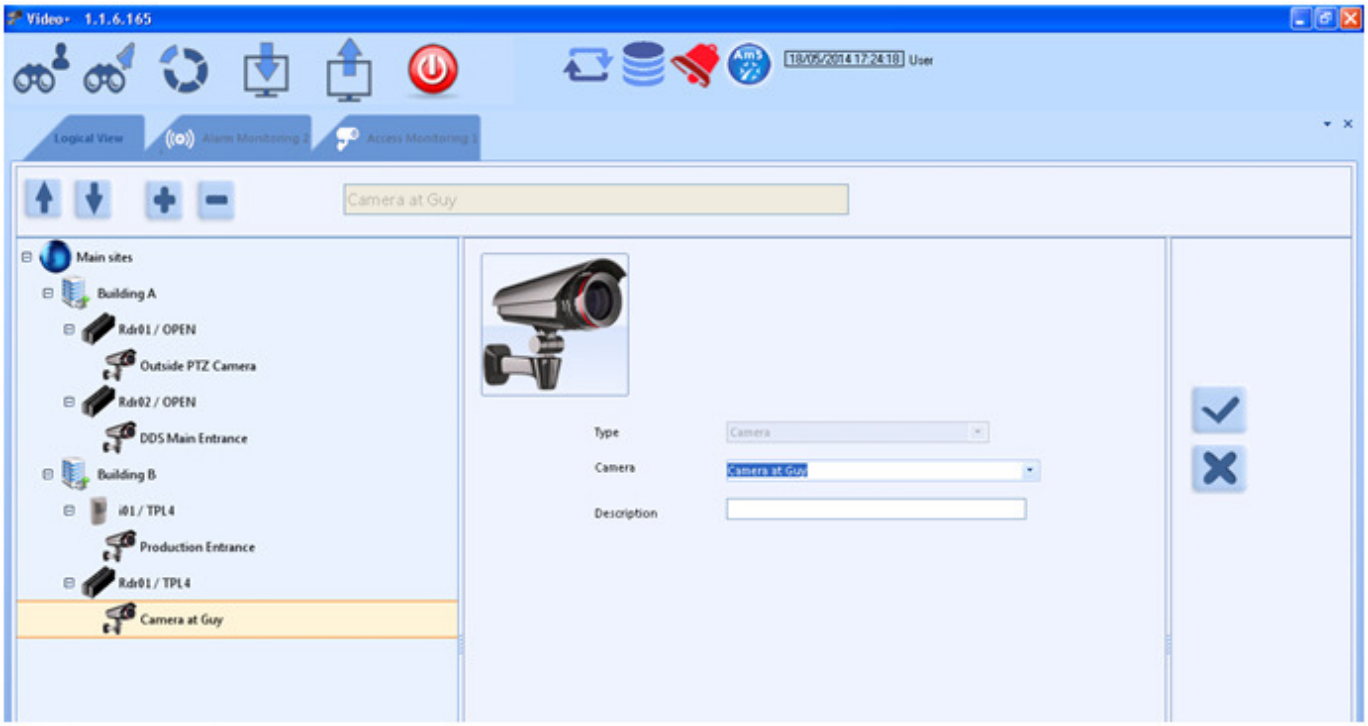
The XML file contains all the open tabs with their name, their type (Access or Alarm), their Canvas type (2X2, 3x3, etc.), the position of their splitter, their displayed panels (Logical View, Log, Dashboard), their Tile Management and the tab group configuration (horizontal, vertical).

All the saved layout files are located in the 'Layouts' folder of the Video Plus folder. To restore a layout simply load the relevant saved XML file by pressing  .

Logical View

The Logical View is the place to associate cameras to readers/inputs. There is no need to define any camera in the relevant Reader/Input screen as in the former Video module.
The first step when using the Video Plus is to configure this Logical View in order to organize the Readers, Inputs and Cameras that will be used for monitoring the events.

Press on the Logical View button from the Main Toolbar in order to open the following screen:



Note that to access this screen, the user should have in his Authorization Level the “Video +” in Read/Write mode.

Press the button to add a new entity, choose its type (Area, Reader, Input or Camera) in the list and its name. Then, press to confirm.

An Area is a virtual component used for grouping readers/inputs/cameras together. The Readers and Inputs are those defined in GuardPoint Pro. The Camera list contains all the active cameras defined on the NVR. The camera names are those defined on the NVR.

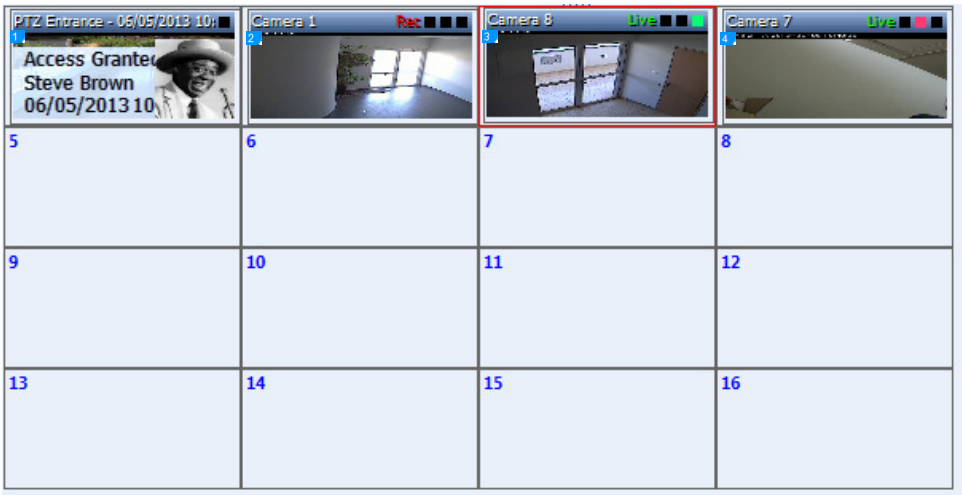
Readers, Inputs and Cameras are displayed in a tree view. For allocating a camera to a reader or to an input, select the relevant reader/input and click on . Several cameras can be linked to a same reader/input.

Once a camera is allocated to a reader/input, when an event occurs on this reader/input, the corresponding video record is automatically displayed on the Canvas Tiles. For example, after having allocated a camera called “Cam1” to a reader called “Rdr1”, the “Cam1” camera will be displayed at one of Canvas Tiles of the "Access Monitoring” tab after every access at “Rdr1”. Note that for viewing the same camera upon alarm on that door also, “Cam1” must be associated to the door alarm input too.

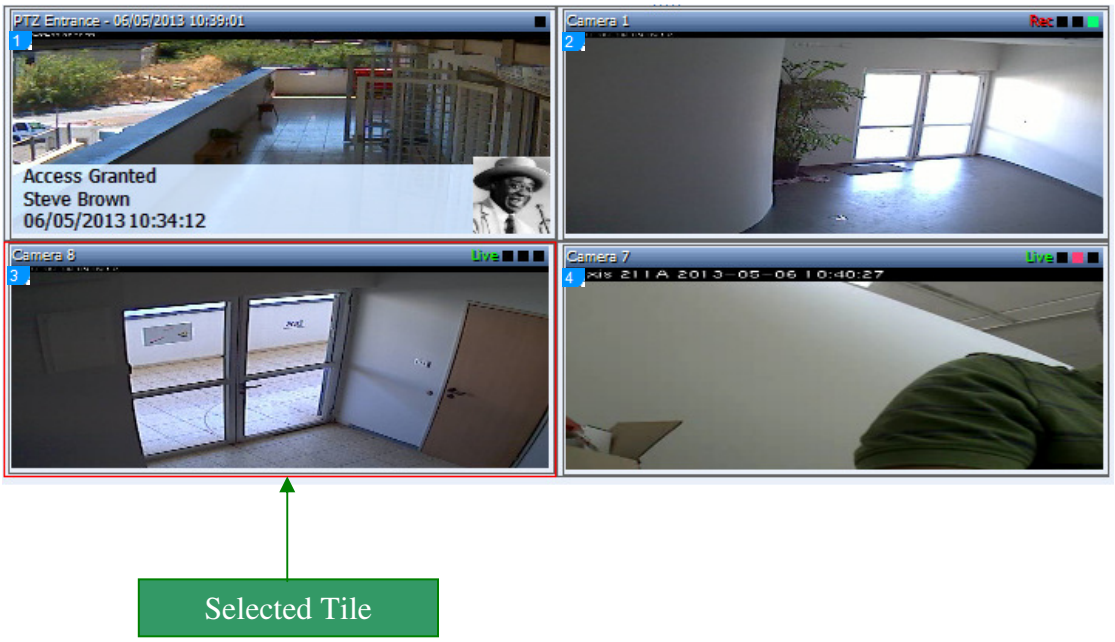
When the Logical View is ready, open the Access/Alarm Monitoring tab in order to manage the events.
For displaying live video stream of a camera from Access/Alarm monitoring tab, drag & drop this camera from the Logical View to a Canvas Tile. Later on it is possible to switch to playback mode.
When the Logical View is changed, the changes are automatically updated in the open monitoring tabs.
Note that if a controller is deleted in GuardPoint Pro, all its related objects (i.e. readers and inputs) are deleted from the Logical View (after reopening the tab). If cameras were associated to these objects, they are removed too.
Currently, when using the Video Plus module on several stations at the same time, changing the Logical View on one station does not update the Logical View on the other station automatically.

Canvas View

The Canvas shows either live video stream or playback in one or several Tiles.
Each Tile has a number (from 1 to 16).



There is always one selected Tile, which is designated with a red border around it.



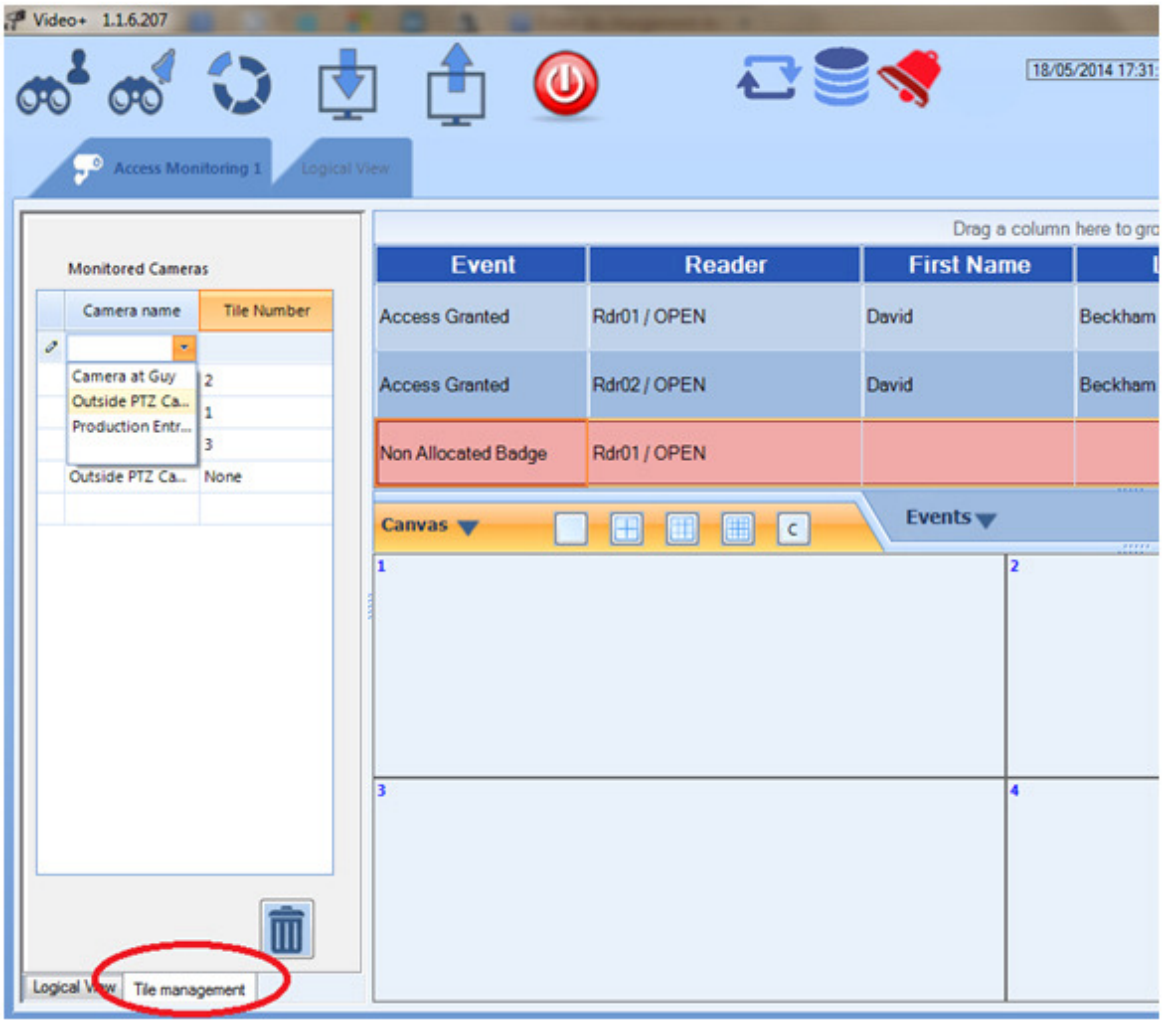
When an Access or Alarm Monitoring tab is open, if a new access/alarm transaction is received from a reader/input that has a camera, the playback of this event is automatically displayed in a Canvas Tile of this tab.
Double-clicking on the Tile enlarges the Tile to a single Tile covering the whole Canvas.

If two or more cameras are linked to this reader/input, the user can view this event on the other cameras, by right-clicking on the relevant Tile and choosing the other camera ("Show on other cameras").

It is possible to open the GuardPoint Pro Cardholder screen corresponding to an access, by right-clicking on the relevant Tile and choosing "Display Cardholder Info". GuardPoint Pro moves to foreground and opens the cardholder screen with the relevant information. This works only if the Video Plus module is running on the same station as GuardPoint Pro.

Tile Management:

The Tile Management feature allows to monitor a specific camera by linking it to a particular Tile. Then all events related to this camera will always be displayed on the same Tile.



To configure this association, click on the 'Tile management' tab, at the bottom of the Logical View. Then select the relevant cameras and the relevant Tile number.

Note that several cameras can be linked to a same Tile.

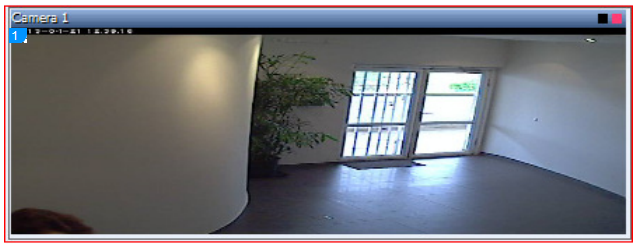
In case several events are received at the same time, it is possible to set a pause between successive events with the parameter 'PauseBetweenEvents' in the ConfigV+.xml file (see the 'Appendix A').

The Tile management data is linked to a tab; in case several Access/Alarm monitoring tabs are open, the user is able to monitor different cameras per tab and then managing different places simultaneously.

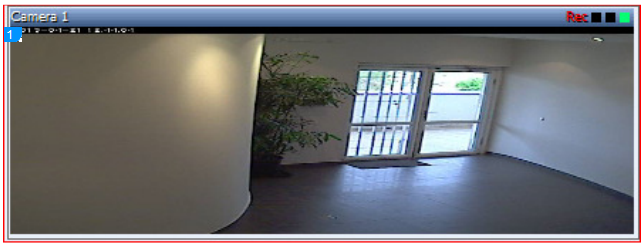
When selecting ‘None’ as Tile Number for a camera, this camera will not be displayed in the Canvas at all. Thus if a new access/alarm event occurs, then nothing will be displayed on the Canvas except if other cameras are associated with this event.
Note that this restriction is extended even if drag and drop an event from the Log to the Canvas or if right clicking on a displayed event and selecting a camera that is not allowed to be displayed.

Live indicator:

It is possible to turn on/off the live indicator (flashing green light) at the top right of the live stream window with the parameter 'LiveIndicator' in the ConfigV+.xml file (see the 'Appendix A').



LiveIndicator=False

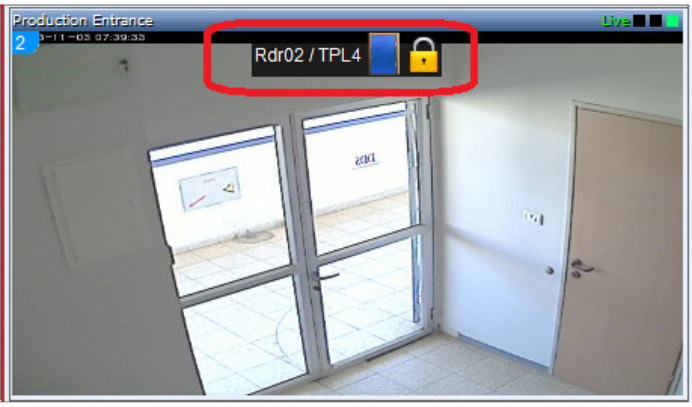


LiveIndicator=True

Door status:

When a camera associated to a reader is on live mode, the real time status of the corresponding door contact and door lock may be displayed for information. This feature is available after setting the "Door Status" option in the 'ConfigV+.xml' file (see the 'Appendix A').
At the top of the corresponding Tile, Door contact is represented by a blue door icon and Door relay by a yellow padlock symbol with the Reader name.

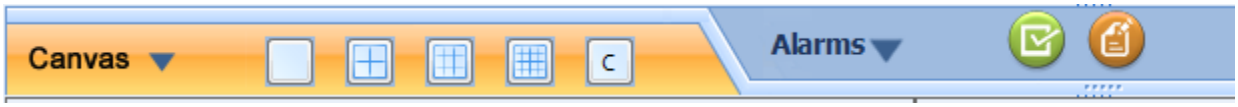
Door opened and Door unlocked (i.e. relay activated)



Door closed and Door locked (i.e. relay deactivated)

If one camera is displayed on different tabs, the corresponding status is automatically updated on the other tabs too.
In case of loss of connection between GuardPoint Pro and Video Plus station, the relevant status is automatically updated after the restoration of the communication.
In addition, Reader name and Door status are automatically updated after any modification in the Logical View or in the "Reader" screen of GuardPoint Pro.

Splitter

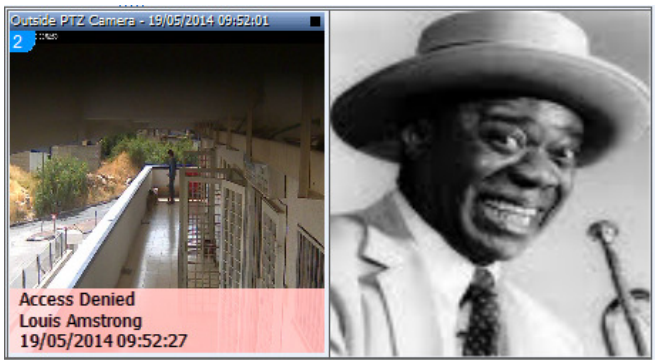


The Splitter is a local toolbar that can be moved up or down, in order to give more visibility to the Canvas or to the Log. Clicking on the “Canvas” opens a context menu where the user may customize the way to display the events, the way to display the cardholder pictures, or choosing to resize the Canvas automatically or not.

The first option of this menu configures how to display the videos on tiles upon event: as snapshot, as video or as live. The first choice displays a snapshot of the relevant camera on the relevant reader/input at the event time. The second choice displays a playback sequence beginning from X seconds before the event time, where the X seconds are defined in the ‘PreEventSeconds’ option of the “configV+.xml” file (see the ‘Appendix A’). The last choice displays the camera in live mode on the relevant reader/input. The ‘DefaultEventView’ option of the “configV+.xml” file allows to define the default choice.

For Access events, an option on that menu allows to configure how to display the cardholder pictures. Four possibilities are available: displaying the photo in Overlay, displaying the video or snapshot in one side, the cardholder picture in the other side (Side by Side Video), displaying the picture only or no picture at all.

Photo in Overlay



Side by Side Video

Photo Only

Photo hidden in Overlay

The ‘OverlayPosition’ option of the “configV+.xml” file (see the ‘Appendix A’) allows to position the Overlay at the bottom or at the top of the Tile.

The Auto Resize option of the “Canvas” Menu enables the Canvas to automatically resize the layout in order to provide more space for more events.
For example, if the user started with the single view, when the second event arrives, the Canvas switches to 2x2 and so on. When the Canvas reaches the maximum number of Tiles (currently 16 = 4x4) and no more Tile is empty, a new event replaces the oldest Tile.

The Tile configuration buttons enable to arrange the Canvas in a single Tile or multiple Tiles. Switching between Tile layouts (1x1, 2x2, etc) does not clear the Tiles. The “**C**” button allows to clear all the Tiles from the Canvas.

On the Alarm Monitoring tab, Alarm Acknowledge and Confirm buttons are displayed.

Dashboard

The Dashboard allows to control live video stream and playback views on the selected Tile. When switching between different Tiles, the color of "Live Camera" and "Playback" buttons is changed in order to show on which mode the selected Tile is (i.e. live mode or playback mode). In addition, the Dashboard enables to lock/open a door or to arm/disarm an alarm zone.

Here is the explanation of the different buttons:

Live Camera button. It switches the selected Tile to the live video stream mode. When this button turns to green, it means that the current view is live footage.

Snapshot button. It takes a picture of the selected Tile. The file is created in the Video Plus/Snapshots directory. The filename is in the following format "snapshot_Camera_YYYY_MM_DD_HH_mm_ss".

PTZ control. Used to move a PTZ camera during live mode only.
Use arrows to move to the required direction.
Plus/Minus buttons allow to zoom in or out.
Note that when using HIK NVR, by default all cameras are considering as PTZ camera.

PTZ Presets. Used to move a PTZ camera in a pre-defined position (defined in the NVR software previously) during live mode only.
When selecting a PTZ camera in live mode, presets number buttons and the drop-down list appear allowing the user to select a pre-defined position. The drop-down list contains all the defined presets whereas presets number buttons allow for switching between the first six presets.

Playback button. This button switches the selected Tile to playback mode. When this button turns to green, it indicates that the current selected Tile is in playback mode. The Calendar button hereafter allows choosing the required video record to playback.

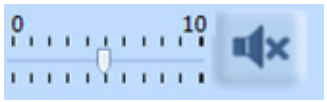
Calendar button. It opens a form in order to select the required date and time of the playback. Once clicking OK, the playback automatically displays the footage on the selected Tile from the selected date and time.

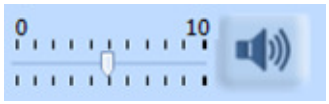
Pause playback. When it turns to green, it indicates that the current playback record is paused.

Start playback. When it turns to green, it indicates that the current playback record is reading.

Fast Forward playback. If pressed again, it increases the fast forward speed.

Fast Rewind playback. If pressed again, it increases the rewind speed.





Speaker button. If the selected camera is equipped with a microphone, it switches between mute and unmute the microphone of the selected camera.
By default, when switching between tiles, the Speaker is on 'Mute' position.

Volume control. It adjusts the volume of the selected camera, when the Speaker button is on 'unMute' position.

Open/Close Door. These buttons open a context menu allowing to activate/deactivate the door relay of the relevant reader linked to the selected camera. If the selected camera is associated to several readers, the context menu presents the list of the associated readers with an additional option to open/lock 'All' the relevant doors at the same time.
The user can choose to open the door constantly, for X seconds (where X is defined in the 'OpenRelaySeconds' option of the "configV+.xml" file), to lock the door constantly or to return the door relay to its normal mode.

Arm/Disarm Input Group. Before using these buttons, Input Groups should be created in GuardPoint Pro. These buttons open a context menu allowing to arm/disarm the alarm zone of the relevant input linked to the selected camera. If the selected camera is associated to several inputs, the context menu presents the list of all the alarm zones where these inputs are belonging to with an additional option to arm/disarm 'All' the relevant alarm zones at the same time.
The user can choose to arm/disarm the relevant alarm zones constantly, for X seconds (where X is defined in the 'ArmInputSeconds' option of the "configV+.xml" file), for Y minutes (where Y is defined in the 'ArmInputMinutes' option of the "configV+.xml" file), or until the next time zone.

Note: If the user sends a command (eg. Open/Close Door or Arm/Disarm Input Group) while the communication between GuardPoint Pro and Video Plus is down, the command stays in pending for a specific duration. This duration can be set with the 'CommandExpire' option of the "configV+.xml" file.

Log

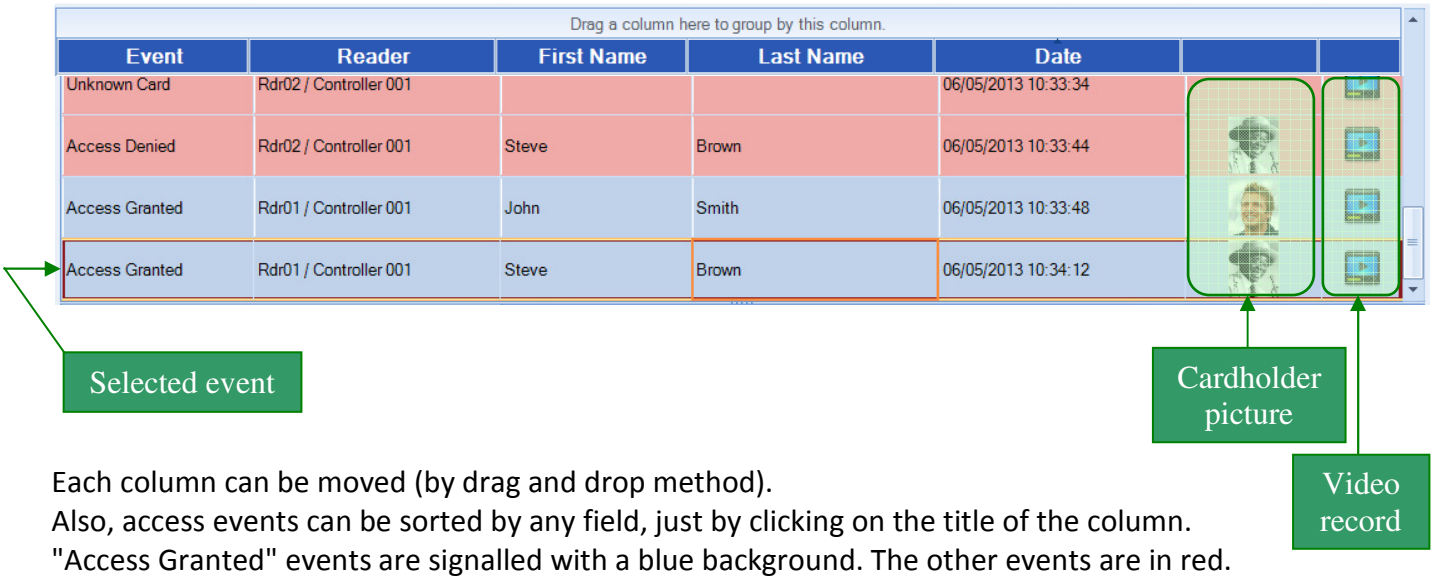
The Video Plus module displays an event log. This log is automatically updated with last events as long as the communication with GuardPoint Pro is running. There is no need to allocate any camera to a reader/input for having events in the log.

This log displays all access events such as "Access Granted", "Access Denied" events, in the "Access Monitoring" tabs, and all active alarms in the "Alarm Monitoring" tabs.

In addition, if a camera has been associated to a reader or an input, when an event occurs on this reader/input, the corresponding video record is automatically displayed on the Canvas Tiles. Later it may possible to monitor the same video record by drag & drop the event from the Log to the Canvas Tiles.

Access Event Log

In the "Access Monitoring" tabs, the log displays the list of all the Access control events, from the beginning until the current time.



Each column can be moved (by drag and drop method).
Also, access events can be sorted by any field, just by clicking on the title of the column.
"Access Granted" events are signalled with a blue background. The other events are in red.
Selecting an event (i.e. clicking on it) set an orange border around the event.

Note: Right clicking on a column title opens a context menu allowing more features for advanced users. These features are not detailed in this document.

Cardholder picture:

For cardholders having a picture in GuardPoint Pro, their picture is automatically displayed with their events.

Video record:

All access events occurring on readers that are associated to a camera have a video icon. This video icon means that a video record relating to the corresponding event is available. To view it, the user has to drag and drop the event to one of the Canvas Tiles. From the "Events" Menu of the Splitter, it is possible to filter the Log with events that have a video only.

Default number of events in the Log:

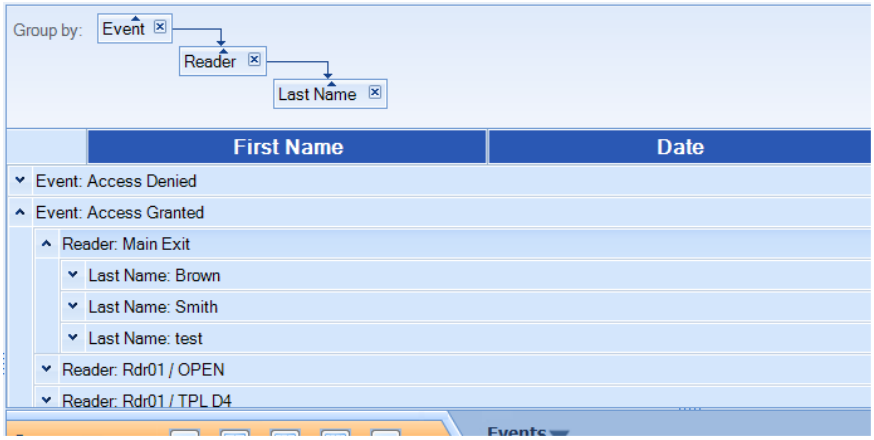
The 'DisplayLastEvents' option of the "configV+.xml" file allows to define the number of last events to display in the Access Event Log by default when opening a new Access Monitoring tab.
In addition, from the "Events" Menu of the Splitter, it is possible to clear all the events of the Log.

Event group option:

To focus on specific events, all events can be grouped by one or more specific fields, by dragging and dropping the title of the corresponding column to the top line.

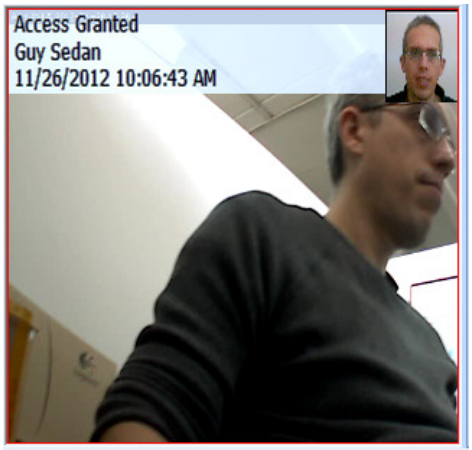
For example, to monitor denied accesses only, drag and drop the 'Event' field to the top line. Then click on the left arrow next to the 'Access Denied' to develop all the denied accesses.

In the same way, to monitor the events per reader and per cardholder, drag and drop the 'Reader" and the "Last Name" fields to the top line and click on the left arrow next to the relevant group.



Thus it is easy to trace the access of a specific person, or events on a specific door at a specific date also.

Overlay:



Upon access on a reader linked to a camera (or after dragging an event having a video icon to a Canvas Tile), the footage of the event is displayed with an overlay text.

The overlay text contains the access event information (eg. Access type, Cardholder name, access time and date) with an inlaid photo of the cardholder. Thus, the user can compare the video with the associated picture.

On the Splitter, clicking on the “Canvas” allows to display the cardholder picture in Side by Side (video or snapshot in one side, the cardholder picture in the other side) mode or to hide the picture from the Overlay.

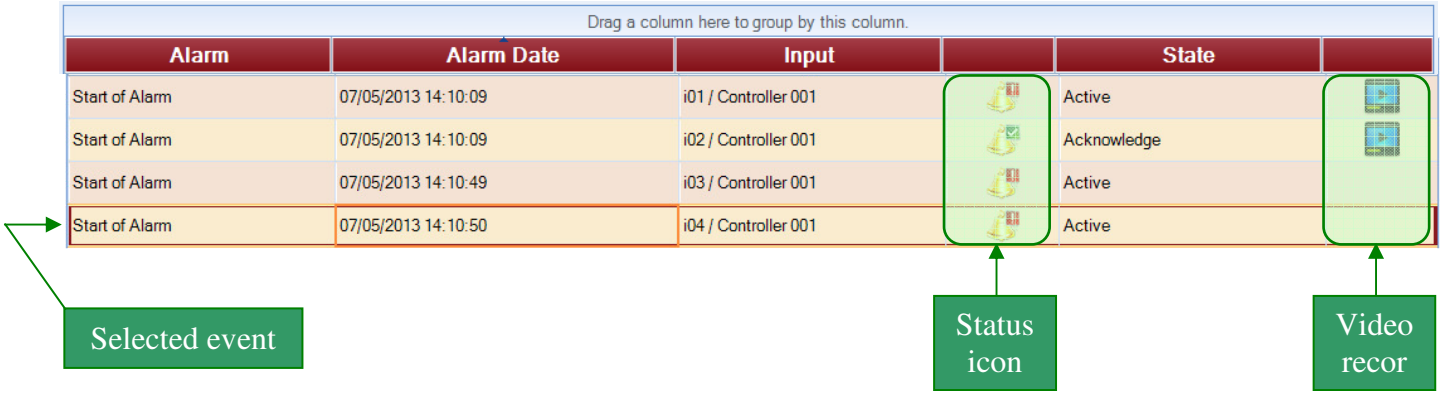
Note that if the cardholder has been defined without picture in GuardPoint Pro or upon "Unknown card" accesses, a blue shape with a ‘**!**’ symbol is displayed instead.

The color of the overlay background is blue for granted accesses and red for the other types of access (eg. denied and unknown).

The position of the Overlay may be changed. The ‘OverlayPosition’ option of the “configV+.xml” file allows to position the Overlay either at the bottom or at the top of the Tile.

Alarm Event Log

In the "Alarm Monitoring” tabs, the log displays the list of the current active alarms sorted from the oldest to the newest, like in the "Active Alarm" screen of GuardPoint Pro. This means that "End of Alarm" events do not appear and no matter whether same alarm occurs several time, it will be displayed only once.



Each column can be moved (by drag and drop method).
Also, alarms can be sorted by any field, just by clicking on the title of the column (i.e. for sorting alarms from the newest to the oldest, click on the Date field). Note that the Video Plus module does not manage the alarm by their priority (i.e. the user cannot sort the alarms by their priority level defined in GuardPoint Pro).

Selecting an alarm (i.e. clicking on it) set an orange border around the event. In addition, right clicking on a column title opens a context menu allowing more features for advanced users. These features are not detailed in this document.

Status icon:

When an alarm occurs, its first state is “Active” and when acknowledged, its state is changed to “Acknowledge”. The corresponding icons are the same as in the "Active Alarm" screen of GuardPoint Pro, i.e. the icon for Active alarms and the icon for Acknowledged alarms.

Note that an alarm will occur only if the input is armed and its logical status has been changed to ‘ON’.

Video record:

All alarms occurring on inputs that are associated to a camera have a video icon. This video icon means that a video record relating to the corresponding event is available. To view it, the user has to drag and drop the event to one of the Canvas Tiles. It may possible to display on the Log only alarms associated to a video record by selecting this option from the “Alarms” Menu of the Splitter.

Alarm group option:

To focus on specific alarms, all alarms can be grouped by one or more specific fields, by dragging and dropping the title of the corresponding column to the top line.

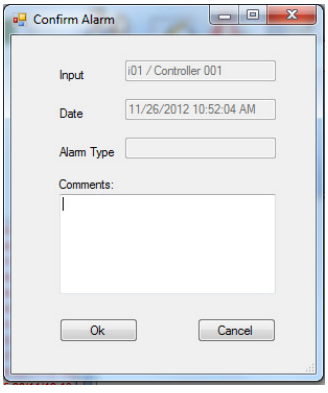
For example, to view active alarms only, drag and drop the ‘State’ field to the top line. Then click on the left arrow next to the ‘Active’ to develop all the active alarms.

Alarm acknowledgment/confirmation:

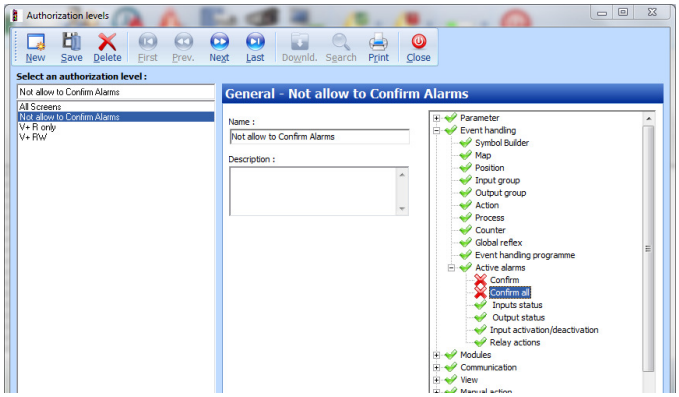
To acknowledge an alarm, select it in the Log and press on the Splitter. Then, the alarm state changes to “Acknowledge” and the status icon is updated.

Once the alarm has been treated, select it in the Log and press on the Splitter. The following confirm window appears (like in GuardPoint Pro) asking to enter a comment. Once confirmed, this alarm is removed from the Log.

Note: All changes done in Video Plus or in the GuardPoint Pro "Active Alarm" screen are mutually updated, i.e. if an alarm is acknowledged or confirmed at



any side, the other side is automatically updated, as long as the communication with GuardPoint Pro is running.
From the “Alarms” Menu of the Splitter, all alarms may be confirmed in one command, like in GuardPoint Pro Active Alarm screen.



If the user is not authorized to confirm alarms in GuardPoint Pro, following to his Authorization level, he will not be able to confirm alarms in Video Plus module either.

Overlay:

Upon alarm associated to a camera (or after dragging an alarm having a video icon to a Canvas Tile), the footage of the event is displayed with a red overlay text, containing the alarm event information (eg. Input name, alarm time and date).

The ‘OverlayPosition’ option of the “configV+.xml” file allows to position the Overlay either at the bottom or at the top of the Tile.

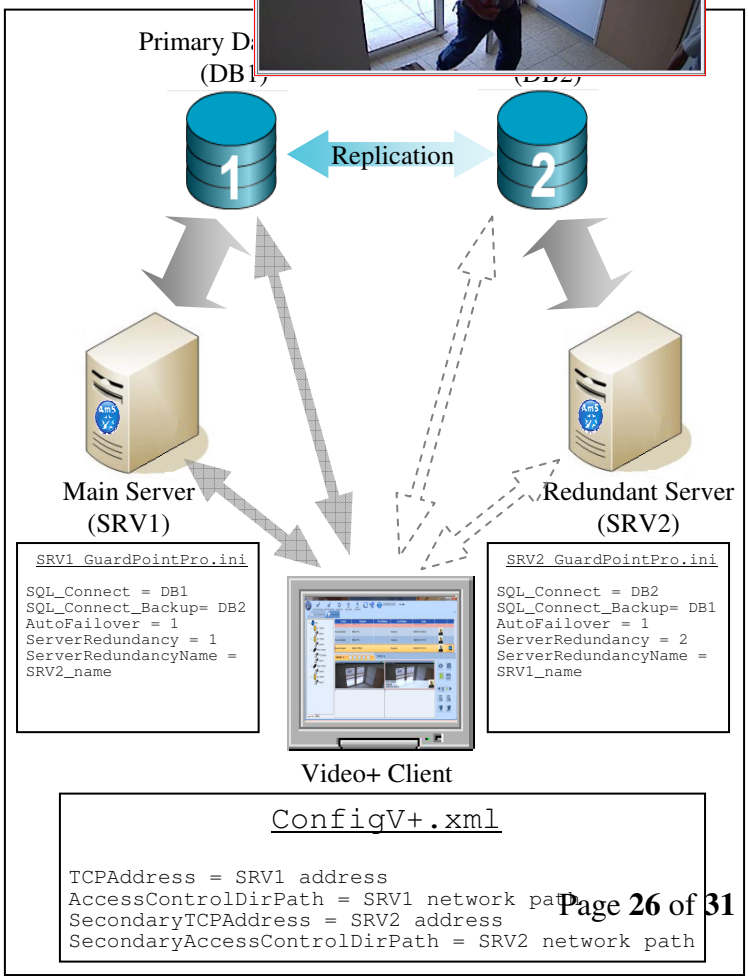
Server & Database Redundancy

The Video Plus module supports both server and SQL database redundancy.

Server Redundancy

If the main server (SRV1) is not responding, the Video Plus module knows how to switch automatically to the redundant GuardPoint Pro server (SRV2).

The icon  starts to blink red  in the Video Plus main toolbar, if the main server (SRV1) does not respond after about 1 min. Then, the Video Plus module tries to renew the connection (30 sec) one time. If the primary server remains inaccessible, the Video Plus



module retries to connect to the primary server X times, where X is defined in the "RedundancyNumRetry" entry of the "ConfigV+.xml". Each attempts lasts 30 sec.

If no success after X times, the Video Plus module pings the "ThirdPartyIP" defined in the "ConfigV+.xml". If the response is positive, which means that there is no disconnection of the network, the Video Plus module tries to connect to the secondary server (SRV2) with the relevant ConfigV+.xml entries ("SecondaryAccessControlDirPath" and "SecondaryTCPAddress").

After connecting the secondary server, the Video Plus main toolbar icon appears with the number 2  , in order to notify that the redundancy server is active. In case SRV2 fails, the Video Plus module will try to connect to primary server again.

Database Redundancy

If the primary database (DB1) is not responding, the Video Plus module knows how to switch automatically to the secondary database (DB2).

Every 30 seconds, the Video Plus module checks the database connection. If the primary database fails and is not available after about 30 sec, the Video Plus module pings the "ThirdPartyIP" defined in the "ConfigV+.xml". If the response is positive, which means that there is no disconnection of the network, the Video Plus module automatically switches to the secondary database defined in the "SQL_Connect_Backup" entry of the main server GuardPoint Pro.ini file.

After connection to the secondary database, the main toolbar icon  appears with the "number 2"  in order to notify that the Video Plus module is connected to the secondary database. In this case, it is recommended to wait that the GuardPoint Pro server has switched to the secondary database too.

Note that the icon  starts to blink instead, when the "SQL_Connect_Backup" entry value is not configured (i.e. left empty) or if there is no response from the "ThirdPartyIP".

Once the Video Plus module is connected to the secondary database, it continues to check the primary database every "CheckDBInterval" seconds (value defined in "ConfigV+.xml"). If the connection to the primary database is restored, the Video Plus module automatically switches back to the primary database and the icon  is displayed again.

GuardPoint Pro side

V module features

The old GuardPoint Pro Video module features are still available in the Video Plus module:

Live stream video from a camera:

From the GuardPoint Pro Camera screen, pressing on 'Preview' button displays the relevant camera in live mode in the Video Plus interface, in the relevant Tile of the current tab (i.e. Access or Alarm Monitoring).

In the same way, triggering the Action "Display live video" from the Graphic interface, i.e. the Active Alarm screen or by a Global Reflex, displays the relevant camera in live mode in the Video Plus interface.

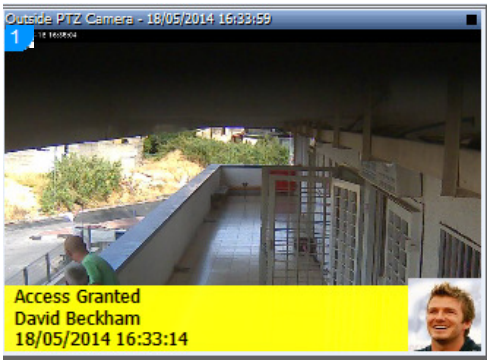
Then, it is possible as in the Video module, to display live stream video of a camera upon any event via Global reflexes. For example, user may create a Global Reflex that would display (on the Video Plus interface) a PTZ camera in a specific position upon denied access at a specific reader.

Start/Stop recording of a camera:

Two GuardPoint Pro Actions ("Record video" and "Stop record") allow to manage the video recording of a camera from an GuardPoint Pro map or via a Global Reflex.

Playback sequences of an event:

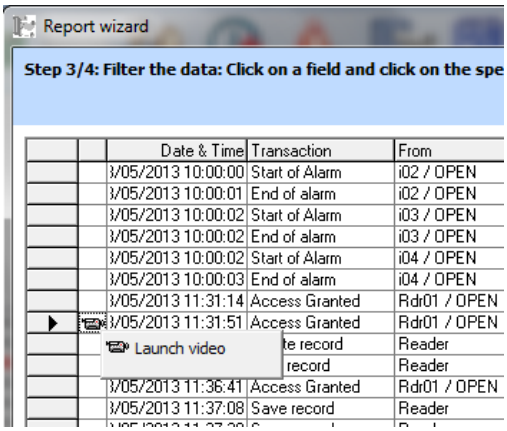
When using the Rich log in GuardPoint Pro, it is possible to right click on an event (alarm or access) that is linked to a camera and display the relevant playback record on the Video Plus interface.



The playback record is displayed in the relevant Tile of the current tab (i.e. Access Monitoring or Alarm Monitoring) with a yellow overlay text. The overlay text contains the relevant event information.

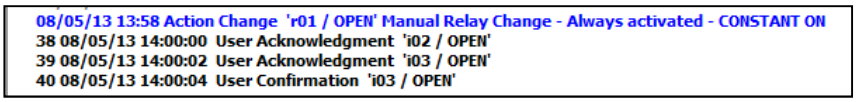
Note: There is no need to define any camera in the relevant Reader/Input screen as in the Video module. GuardPoint Pro knows the association between readers/inputs and cameras from the Video Plus Logical View.

In the same way, as in the Video module, it is still possible to right click on an event (alarm or access) on the report and display the relevant playback record on the Video Plus interface.



Audit/Reports

The following commands made from the Video Plus module are stored in the GuardPoint Pro reports and written in the GuardPoint Pro log:
Action on relays, Alarm Acknowledgment, Alarm Confirmation.



Multisite

In Multisite, a camera can be associated to any reader from any site and events from any site can be viewed from the Video Plus interface.

Appendix A

Video Plus can be customized by changing some parameters in the “configV+.xml” file located in the “VideoPlus” application folder. The “configV+.xml” file may be updated via the “VidSettingEdit.exe” tool located in the same folder.

Open the “configV+.xml” file with Notepad. It should look like this:

```
<?xml version="1.0" encoding="utf-8"?>
<Settings>

    <Param Name="CompanyName" Value="Milestone"/>
    <Param Name="ProductVersion" Value="Enterprise"/>

    <Param Name="TCPAddress" Value="172.168.1.248"/>
    <Param Name="AccessControlDirPath" Value="C:\"/>
    <!-- These parameters should be used for application redundancy

    <Param Name="SecondaryAccessControlDirPath" Value="\\SERVER2\"/>
    <Param Name="SecondaryTCPAddress" Value="172.168.1.248"/>
    <Param Name="RedundancyNumRetry" Value="3"/>
    -->

    <Param Name="AccessControlUsername" Value="1000"/>
    <Param Name="AccessControlPassword" Value="2000"/>

    <Param Name="CheckDBInterval" Value="25"/>
    <Param Name="ThirdPartyIP" Value="127.0.0.1"/>
    <Param Name="Language" Value="EN"/>
    <Param Name="CommandExpire" Value = "120"/>
    <Param Name="DisplayLastEvents" Value ="23"/>
    <Param Name="OverlayPosition" Value ="bottom"/>
    <Param Name="PauseBetweenEvents" Value="1"/>
    <Param Name="OpenRelaySeconds" Value="5"/>
    <Param Name="ArmInputSeconds" Value="5"/>
    <Param Name="ArmInputMinutes" Value="1"/>
    <Param Name="DoorStatus" Value ="true"/>
    <Param Name="PreEventSeconds" Value ="30"/>
    <Param Name="LiveIndicator" Value="true"/>
    <Param Name="DefaultEventView" Value="Video"/>
```

NVR settings

GPP settings

Redundancy settings

User login parameters

User settings

```
    <Param Name="DisableVideoRewindBuffer" Value="false"/>
</Settings>
```

Each parameter has a specific value (in yellow) that can be changed manually. The changes are updated after restarting the Video Plus application. Here is the list of parameters:

CompanyName - NVR manufacturer name. Possible values: "Milestone" for Milestone and OnSSI NVR or "HIK" for Hikvision NVR.

ProductVersion - Product version. Currently only "Enterprise" version is supported.

TCPAddress - The IP Address of the GuardPoint Pro server.

AccessControlDirPath - The full network path to the GuardPoint Pro server application folder.

SecondaryAccessControlDirPath - The full network path to the redundant server application folder. To use this parameter, delete the two lines in blue.

SecondaryTCPAddress - The IP Address of the redundant GuardPoint Pro server (if exists). To use this parameter, delete the two lines in blue.

RedundancyNumRetry - Number of retries to connect to the primary server before switching to the redundant server. Each attempts lasts 30 sec. If no success after reaching this number, Video Plus switches to the redundant server (if exists). To use this parameter, delete the two lines in blue.

AccessControlUsername, **AccessControlPassword -** Default Username and Password for automatic login when launching Video Plus. The users' information is the same as the one defined in GuardPoint Pro. For security reasons, if wanting automatic login without writing user password here, open the Video Plus shortcut Properties and add at the end of the Target the following command: " **/username:**<username> **/password:**<password>".

CheckDBInterval - Frequency **(**in seconds) in which Video Plus checks the primary database. If the connection to the primary database is restored, the Video Plus automatically switches back to the primary database. If not defined, the default value is 120 seconds.

ThirdPartyIP - IP address of another station of the same LAN in order to check if the Video Plus machine is still connected to the network. If the Video Plus loses its connection with the primary server or with the primary database, this IP address is pinged. If the response is positive, it means that there is no disconnection with the network and then, the Video Plus module can try to connect to the secondary server or to the secondary database.

Language - The Video Plus Language. The available values are ARA (Arabic), CAT (Catalan), CL (Spanish-Chile), DEU (German), EN (English), ES (Spanish-Spain), FIN (Finnish), FR (French), GRK (Greek), HEB (Hebrew), HGR (Hungarian), ITA (Italian), KOR (Korean) (Not translated yet), NL (Dutch), PL (Polish), POR (Portuguese), RU (Russian), SIC (Chinese simplified), SK (Slovak), SWE (Swedish), TUR (Turkish).

CommandExpire - Timeout (in seconds) of a command (eg. OPEN/CLOSE READER RELAY or ARM/DISARM INPUT GROUP).

DisplayLastEvents - Default number of last events displayed in the Access Event Log when opening new Access Monitoring tab.

OverlayPosition - Possible values: "bottom" or "top". Allows to display the access/alarm information at the bottom or at the top of the Tile. This parameter is optional. If omitted, the default position is at the top.

PauseBetweenEvents - Allows to set a pause between successive events/alarms that should appear on the same Tile. The value is in milliseconds.

OpenRelaySeconds - Used for defining the default delay in seconds with the OPEN/CLOSE READER RELAY feature. This parameter is optional. If omitted, the default value is 5 seconds.

ArmInputSeconds, ArmInputMinutes - Used for defining the default delay in seconds/minutes with the ARM/DISARM INPUT GROUP feature. These parameters are optional. If omitted, the default values are 5 seconds/1 minute respectively.

DoorStatus - Possible values: "true" or "false". Allows to display or not the status of a door when camera linked to a reader is on live mode.

PreEventSeconds - Recording seconds to display before an event playback. If omitted, the default value is 15 seconds.

LiveIndicator - Possible values: "true" or "false". Allows to turn on/off the live indicator (flashing green light) at the top right of the live video stream window.

DefaultEventView - Defines the default mode to display the videos on tiles upon event: as snapshot, as video or as live. The possible values are ‘snapshot’, ‘video’ or ‘live’.

DisableVideoRewindBuffer – Only for HIK products (like DS-80xx devices) that have difficulties to jump to a certain time during playback sequences, in playback mode. In fact it concerns HIK DVR and HIK NVR having a build time of firmware less than “101008”. When this option has the value “true”, the Video Plus is able to support such products by disabling the jumping function and then limiting playback sequences upstream. Possible values: "true" or "false".