



Ocularis Technical Notes

Version 5.8

October, 2019

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Revision History

Revision	Purpose for Change	Author	Date
002	GA	D. Jecker	Oct 2019

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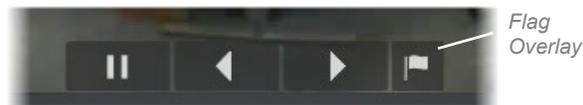
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1 OC Client - Video Flags

A video flag is a timestamp on an image of video. Operators can flag video for later reference using Ocularis Client if they see something of interest. Flags may also be created on recorded video. The ability to view & create or modify & delete flags are privileged features and configured in Ocularis Administrator. Flags may only be created and viewed in Ocularis Client. Flags are not included with exported video.

If you have the privilege to create flags, you'll see the flag overlay on the camera pane.

Figure 1 Flag Overlay



1.1 Create A Flag (Live)

1. On the camera pane for which you want to create a flag, click the 'Flag' overlay.
A 'Video Flag Created' message appears in the upper left corner of the pane.

Figure 2 Creating a flag in Live Mode



1.2 Create A Flag (Browse)

1. Click 'Browse' to enter Browse Mode.
2. On the camera pane for which you want to create a flag, click the 'Flag' overlay.
A 'Create Video Flag' pop-up appears.

Figure 3 Create Video Flag (Browse Mode)

Camera Name : 157 - Bosch NBC-255 (12.35) - Training Room

Flag Name :

Description :

Submit Cancel

3. If desired, enter a name for the flag and optional description. Click **Submit**.

1.3 To View Flags

Use the Alert Manager interface to access flags.

1. Access the Alert Manager by clicking the Alert Counter or Views>Tools>Alert Manager.
2. Click the 'Flags' tab adjacent to the Events tab.

Figure 4 Flag List

Camera	Time	
Incident 1 This is a flag description.	10/18/19 13:31:11	
157 - Bosch NBC-255 (12.35) - Training Room		
AXIS P1435-LE	10/18/19 13:27:06	
157 - Bosch EX36 (10.240) - MPEG4 - Lab	10/18/19 13:17:38	
AXIS P1435-LE	10/18/19 13:17:36	
AXIS P1435-LE	10/18/19 13:17:33	
157 - Bosch NBC-255 (12.35) - Training Room	10/18/19 13:15:41	
157 - Bosch NBC-255 (12.35) - Training Room	10/18/19 13:15:38	
Azure-Side Building PTZ	10/18/19 13:15:35	
Receptionist	10/18/19 11:59:18	
157-DEW - Bosch FLEXIDOME IP Panaromic 7000 MP (12.189)	10/18/19 10:41:27	

You can sort the flag list by clicking on the Camera or Time headings.

3. Select a Flag in the list. The flagged image will appear in the upper left pane while live video appears in the upper right pane.
4. Use the navigational overlays to view video forward or backward from the timestamp of the flag..

Note: the Flag List does not refresh automatically. Reload in order to view an updated list.

Use the tools at the bottom of the list to:

- **Modify** – this allows you to add or edit **Flag Name** or **Description**
- **Locate** – locate the camera for the selected Flag
- **Delete** – to delete the flag

1.4 What Flags Are Displayed?

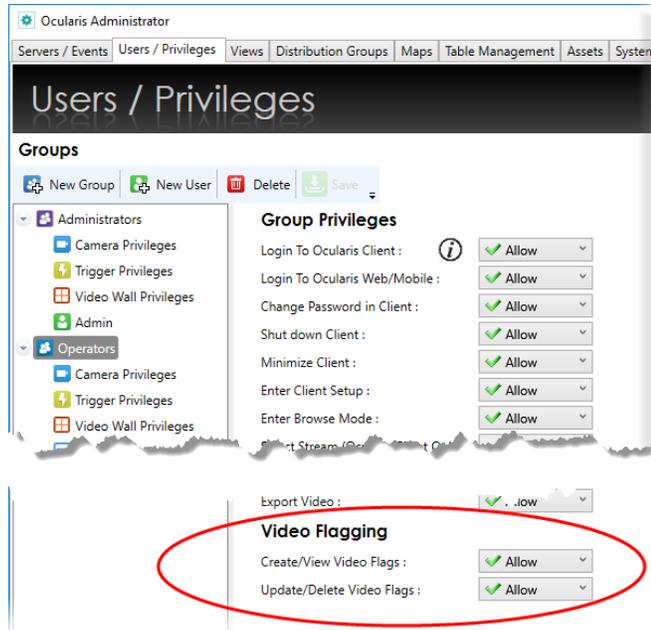
There is a chance that flags will be listed for video that has already been purged due to retention settings. Conversely, flags may be missing for video that has not yet been deleted. Flags are purged based on settings in the Device Manager ('Automatically delete events older than'). If you find that you are missing flags or that you have orphaned flags, ask your Administrator to check the settings on the Device Manager.

Flags only appear once there is a connection to the recorder. If you have multiple recorders, you may not see pertinent flags to a specific camera if that camera's video has not been viewed in the current session. To remedy this, right-click a pane to open the camera and then it and all flags from that recorder should be visible. Like camera video, you will only see flags for cameras to which you have permission to view.

1.5 OC Admin - User Group Privileges

Flags are created and viewed in Ocularis Client and the ability to create, view, update and delete are controlled by the Video Flagging permissions set at the user group level in Ocularis Administrator.

Figure 5 Video Flagging Privilege

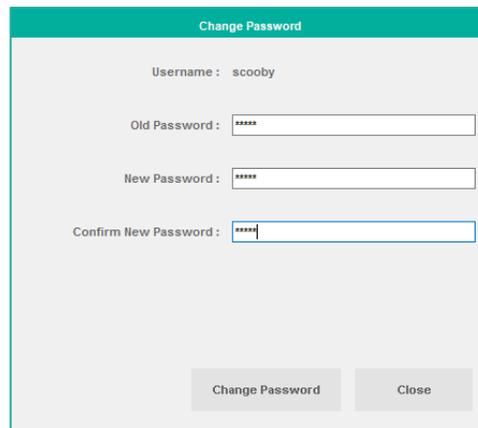


2 Ocularis Client Passwords

2.1 Change Upon First Login

The first time a 'Basic' user logs in to Ocularis Client, they will be prompted to change their initial password. Administrators can use a global default password, knowing that upon its first use, it will be changed by the user. Passwords may be between 4 and 41 characters. Password strength and complexity is not enforced. We recommend using a passphrase when setting a password.

Figure 6 Change Password



The screenshot shows a dialog box titled "Change Password" with a teal header. The dialog contains the following fields and buttons:

- Username: scooby
- Old Password: [password field]
- New Password: [password field]
- Confirm New Password: [password field]
- Change Password button
- Close button

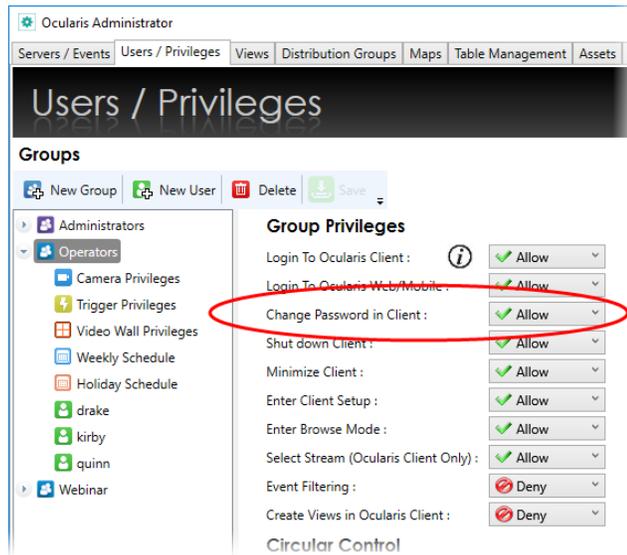
- **Old Password:**
Enter the password provided to you by the system administrator.
- **New Password:**
Enter the desired new password between 4 and 31 characters.
- **Confirm New Password:**
Re-enter the new password.

Click **Change Password**. If you click **Close**, the system will not let you log in until you change your password.

Passwords do not expire. You may change your password at any time. This applies only to 'Basic' users, not Windows or Active Directory users.

The ability to change your own password is privileged. The user permission 'Change Password in Client' is set to 'Inherit' by default. The group level permission is set to 'Allow'.

Figure 7 Change Password in Client Privilege

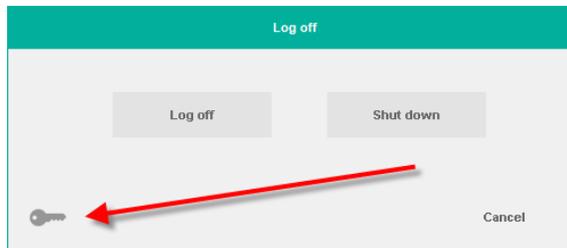


2.2 Change Password Manually

If granted the permission to do so, Basic users may change their own password at any time. This is done via the **Log off** dialog.

1. To change your password, click the **Log Off** application control on the menu bar.
2. Click the 'key' icon.

Figure 8 Manually Change Password



The Change Password dialog appears. (see Figure 6)

3. Enter your **Current Password**.
4. Enter your **New Password** (between 4 and 31 characters).
5. Re-enter your password.
6. Click **Change Password**.

3 OC Client - Automatic Client Log Off

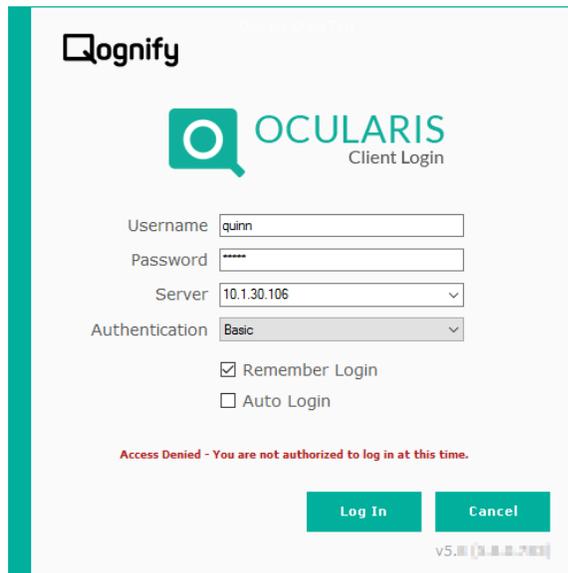
Based on an Ocularis Client’s user account schedule as configured in Ocularis Administrator, as the period for when a user’s shift is over (i.e. when their end time is approaching), a pop-up warning will appear in Ocularis Client notifying the user that the approved login period is reaching its limit. This pop-up first appears when it is five minutes until the end time. When it is 60 seconds to the scheduled end time, the pop-up appears again with a countdown. Once the time limit has been reached, the user will automatically be logged off Ocularis Client and returned to the login screen with the message: ‘Automatic Log Off – You were logged off by the system since it is outside of your scheduled hours’.

By default, when an Ocularis user is created, the account may access the application 24 / 7 / 365. However, an administrator may decide to limit the schedule for which a user can log into the system. This configuration is done by a group or standard administrator user for each user group.

3.1 Access During Unapproved Times

If you attempt to login to Ocularis outside of your approved schedule, you will see a message indicating this.

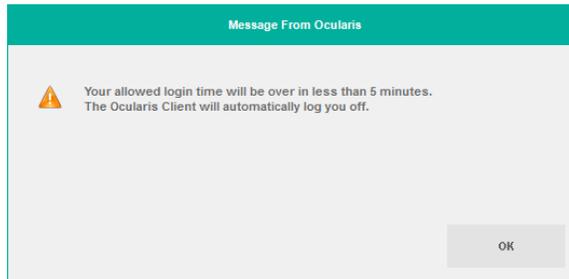
Figure 9 Access Denied



3.2 Automatic Log Off – Ocularis Client

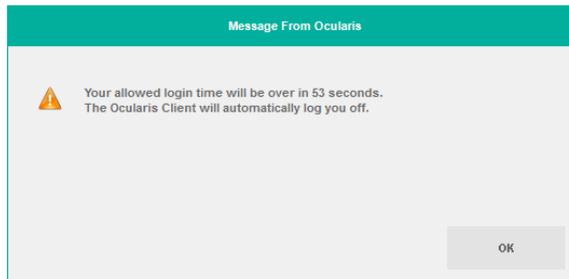
If you are logged in but approaching the end of your approved log in time, you'll see a warning message in Ocularis Client:

Figure 10 Automatic Log Off Message



Click OK to clear the message. If you do not log off manually, you will see the message again at the one minute mark and a countdown timer will appear. When the clock runs out, your account is logged off.

Figure 11 Countdown Timer



When the time runs out, you are logged off and returned to the Ocularis Client log in screen with the message: 'Automatic Log Off – You were logged off by the system since it is outside of your scheduled hours.'

Figure 12 Automatic Log Off Message

The screenshot shows the Ocularis Client Login window. At the top left is the Cognify logo. In the center is the Ocularis logo with the text "OCULARIS Client Login". Below the logo are four input fields: "Username" with the value "scooby", "Password" with masked characters "****", "Server" with the value "10.1.30.106", and "Authentication" with the value "Basic". Below these fields are two checkboxes: "Remember Login" (checked) and "Auto Login" (unchecked). A red message states: "Automatic Log Off - You were logged off by the system since it is outside of your scheduled hours." At the bottom right are two buttons: "Log In" and "Cancel". The version number "v5.8 (2020.07.02)" is displayed in the bottom right corner.

4 OC Client - Video Debug Information

If the Video Debug Information checkbox is checked in the Client Setup, you will be able to see additional information in the camera pane regarding camera statistics.

Figure 13 Video Debug Off

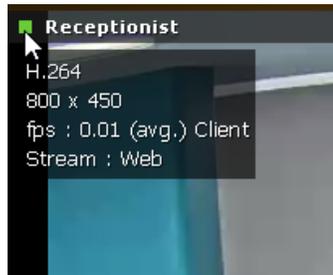
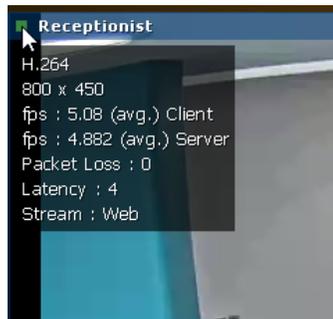


Figure 14 Video Debug On



As you can see (Figure 14), with Video Debug On, you also see the frames per second (fps) that are streaming from the camera to the server as well as the Packet Loss and Latency. This information is useful during troubleshooting. You may need to reload the camera in order to view this information after enabling the feature.

5 OC Client - Bookmarks

In this release, working with bookmarks is much easier!

5.1 Sorting

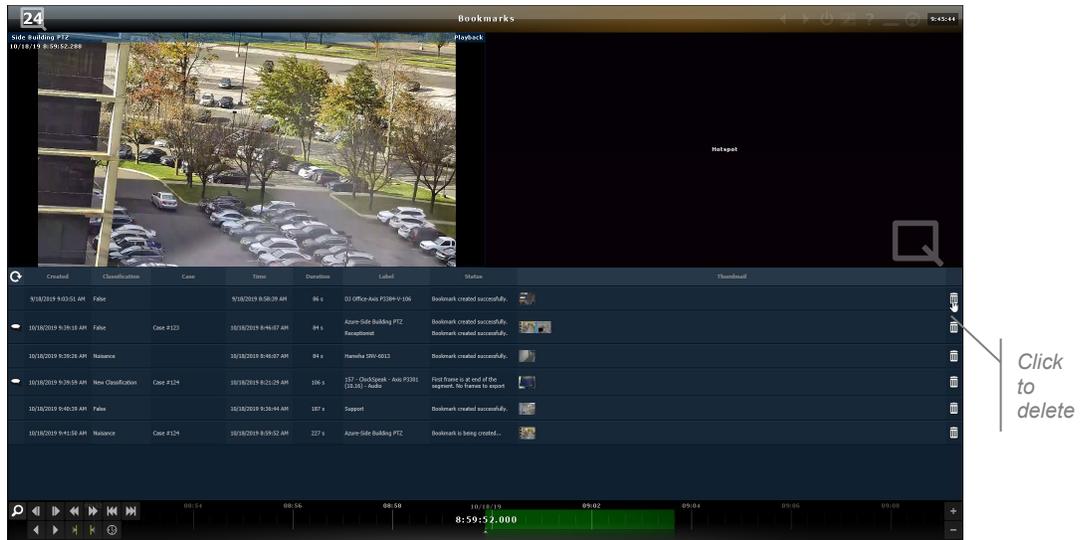
Bookmarks may now be sorted alphabetically in ascending or descending order. If there is more than one camera in a bookmark, the sort will use the first camera name as the sort key.

5.2 Deleting Multiple Bookmarks

Deleting multiple Bookmarks is easy. Simply select multiple bookmarks using the [SHIFT] or [CTRL] keys and select the multiple trashcan icon.

1. Click 'Views' on the menu bar.
2. Select 'Tools' and then 'Bookmarks'.

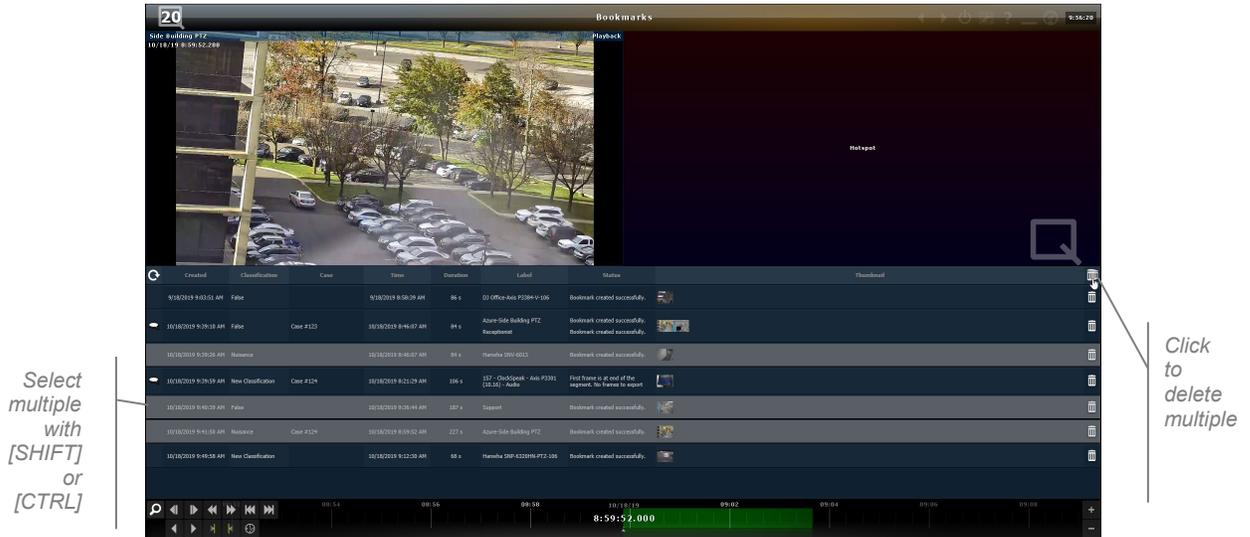
Figure 15 Delete Multiple Bookmarks



3. Select the bookmarks you wish to delete.
 - a. Click on the first bookmark to be deleted.
 - b. Use [SHIFT] and then click the left mouse button on the last contiguous bookmark to be deleted. This highlights a range of bookmarks.

- c. If the bookmark you wish to delete is not contiguous, use the [CTRL] key to select multiple, separate bookmarks.

Once two bookmarks are deleted, a multi-trashcan icon appears.



- 4. Click the multi-trashcan icon in the column heading.
- 5. Click **Yes** at the 'Do you want to delete x bookmarks?' pop-up. Then click **OK**.

5.3 Using Ocularis Client 5.8 with older Ocularis Bases

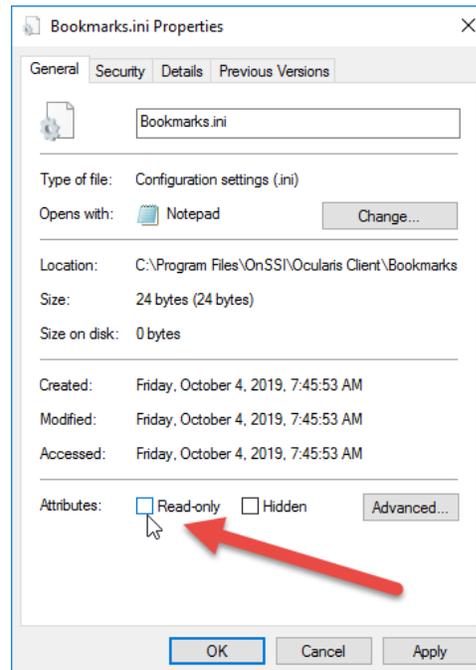
Bookmarking technology has been updated in v5.8 to allow the Client to provide the rendering of the bookmark page and take advantage of new features. In many cases, customers use a new Ocularis Client to log in to an older Base. In this instance, the bookmark page is generated from the Base and will appear as it did pre-5.8. In order to use Ocularis Client v5.8 with older Bases and still take advantage of the 5.8 features, administrators must do the following:

- 1. On the machine where bookmarks are stored, locate the **Bookmarks.ini** file. The default location for bookmarks is:

C:\Program Files\OnSSI\Ocularis Client\Bookmarks

- 2. In the **Bookmarks.ini** file properties (right-click and select 'Properties'), uncheck the 'Read-only' checkbox.

Figure 16 Bookmarks.ini



3. Next, open the **Bookmarks.ini** file using a text editor, such as Notepad.
4. Change:

loadBookmarksViewLocal=0

to

loadBookmarksViewLocal=1
5. Save the file.
6. Relaunch Ocularis Client.

6 OC Client - Overlays with Metadata

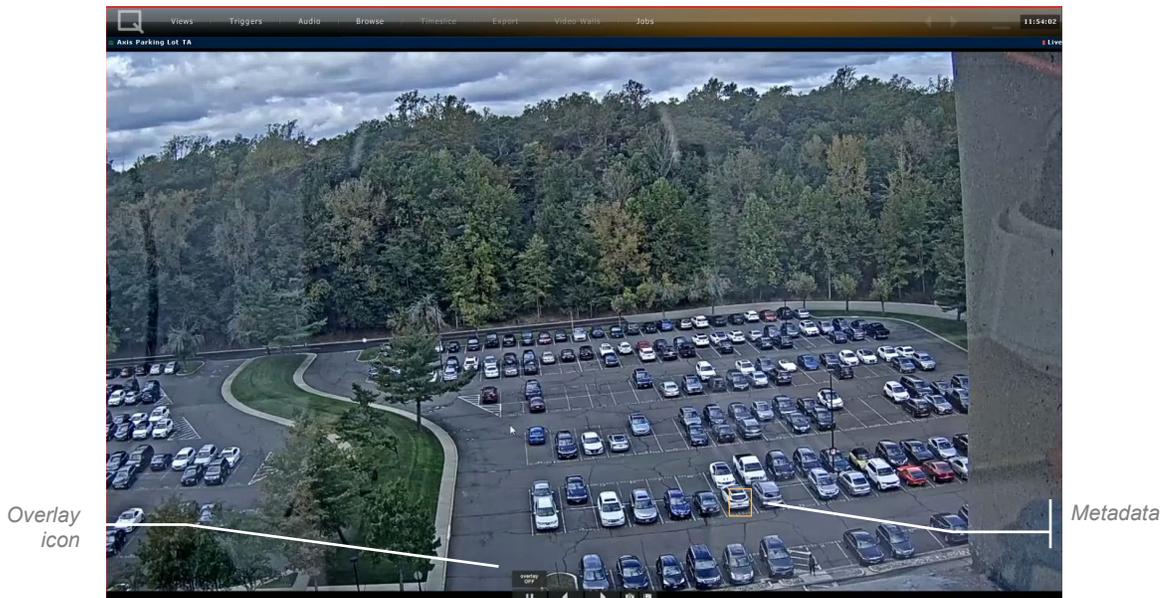
When configured with third party systems, additional data may be displayed along with the camera's video stream. Text, shapes or images may appear as an overlay while viewing a camera. The data is read from a file accessible via the network or internet. Any changes made to the file will dynamically appear in the view or map. In the event where a camera is configured with an overlay, additional interactive controls will appear in the camera's pane.

Figure 17 Toggle for Overlay



Ocularis supports the SAI (SeeTec Analytic Interface) plug in that allows you to connect to third party analytic software (e.g. as Technoware). This configuration is done on the recorder. If present, the 'Overlay on' and 'Overlay off' icons will be present in live or browse mode. Toggle the icon on or off to view the metadata.

Figure 18 Sample Metadata



7 OC Admin - Views Tab Enhancements

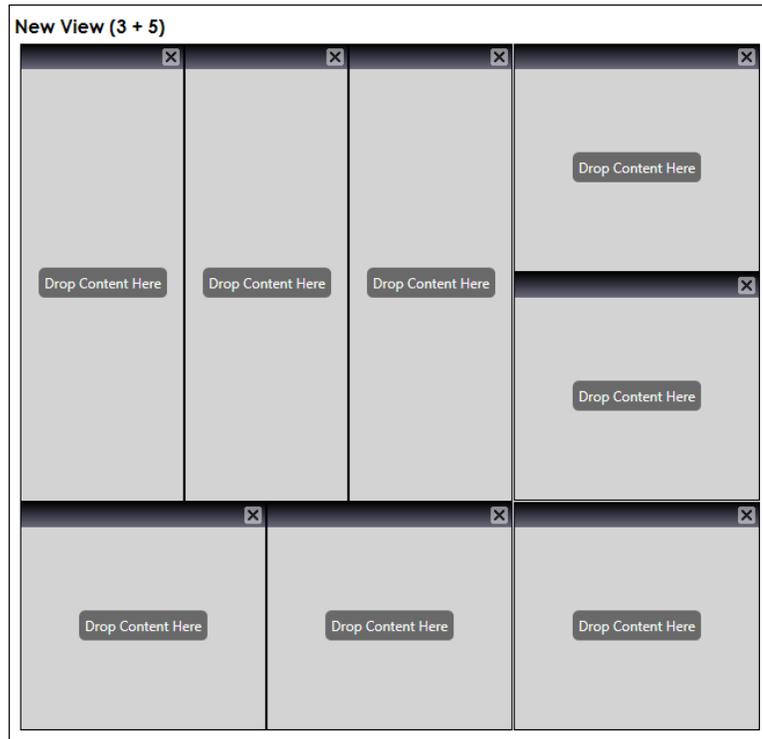
The following enhancements have been made within the Views Tab for this release:

- A new view layout has been added
- Shared views have been moved to the top
- Populating Views Made Easy

7.1 A New View Configuration

A new view, 3 + 5, has been added to Ocularis v5.8.

Figure 19 New 3 + 5 View



The following is a complete list of view configurations are available in Ocularis:

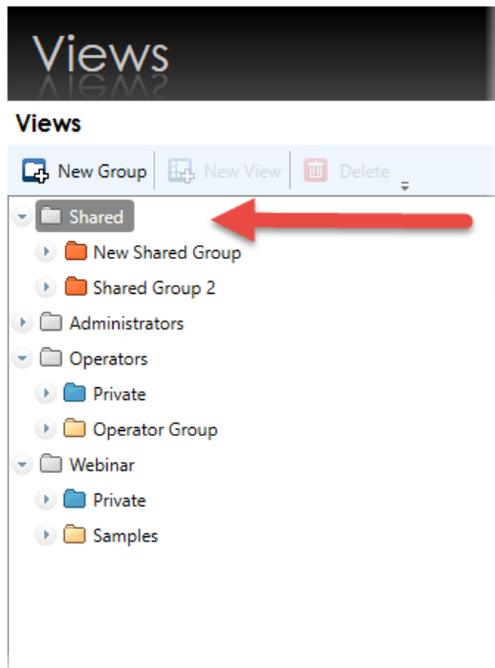
Figure 20 Available View Layouts

- 1 + 3
- 1 + 4
- 1 + 5
- 1 + 7
- 1 + 8
- 1 x 1
- 1 x 2
- 1 x 3
- 1 x 4
- 2 + 4
- 2 x 1
- 2 x 2
- 2 x 3
- 3 + 5
- 3 x 1
- 3 x 3
- 4 Top, 2 Middle, 4 Bottom
- 4 Top, 3 Middle, 4 Bottom
- 4 x 1
- 4 x 3
- 4 x 4
- 5 x 5
- 6 Top, 4 Middle, 6 Bottom
- 6 x 6
- 7 x 7
- 8 x 8
- Cancel

7.2 Shared Views Moved To Top

Since most Ocularis Administrators create views under Shared and then share the view with other groups, the Shared Views and folders have been moved to the top of the views list for easier visibility and use.

Figure 21 Shared Views Moved to Top



7.3 Populating View Panes Automatically

You can select multiple cameras and populate views quickly and easily. This is especially helpful when populating very large views.

- Use the [CTRL] key to select more than one camera
 - Use the [SHIFT] key to select multiple contiguous cameras within the list
 - Use the [CTRL] key to deselect cameras
1. Open or create a view to be populated.
 2. Select cameras from the Cameras list. Use [SHIFT] or [CTRL] and click the mouse for multiple selections.
 3. Either drag and drop or right-click and select 'Move selected camera(s) to the view'.

Figure 22 Drag-and-drop multiple cameras to first pane

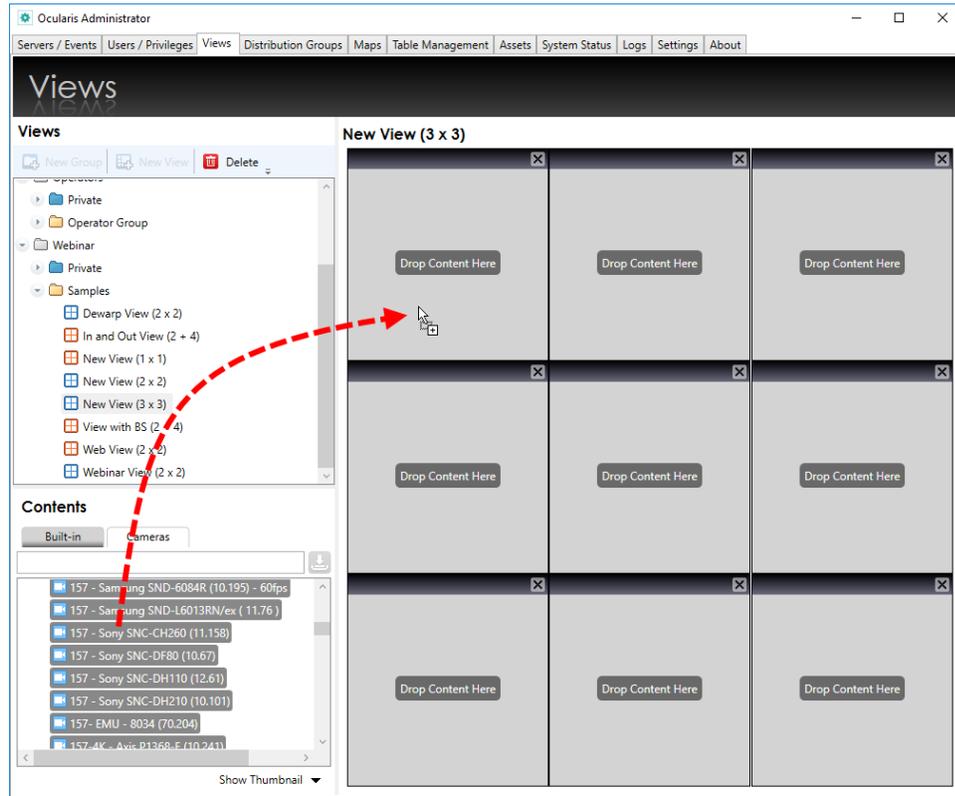
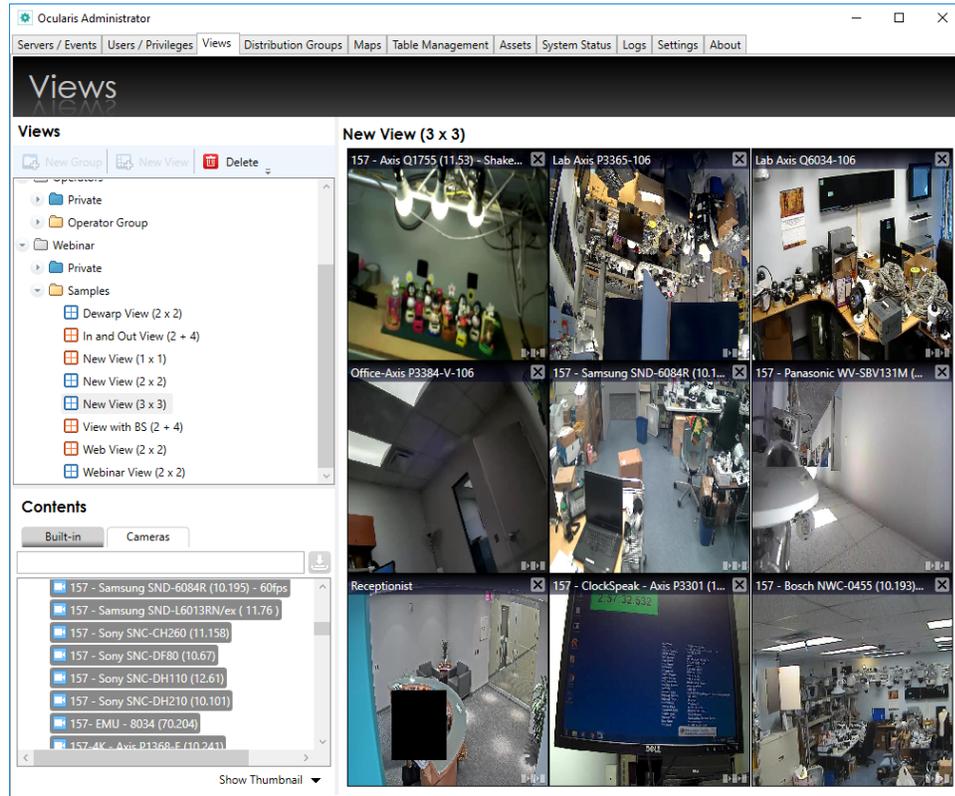


Figure 23 Results



If you select more cameras than panes in the view, you will see a message that there is not enough room. You can proceed by populating the first x cameras in the available panes.

If you use the drag-and-drop method, the system will begin populating cameras in the pane you dropped off to. Therefore, to populate the entire view, make sure you drag-and-drop to the first (upper left) pane. If you use right-click it will automatically start with the upper left pane.

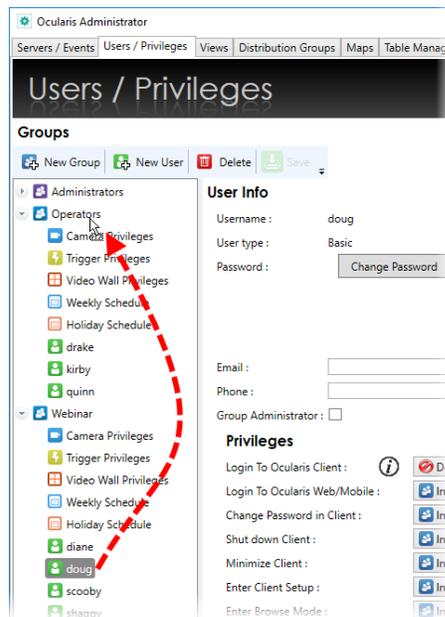
If there is already a pane populated in the view, the system will ask you if you want to skip over the already populated view pane. If you select 'Yes', it will populate the panes surrounding the existing camera and skip over that tile and continue populating empty panes. Selecting 'No' will overwrite the existing camera.

8 OC Admin - Move User To A Different Group

Ocularis user accounts may be moved between user groups within Ocularis Administrator. There is no longer a need to delete and recreate an account if someone's job or role changes.

1. In the **Users / Privileges** Tab, expand the user group containing the user you wish to move.
2. Drag-and-drop the user from the existing group to the destination group name.

Figure 24 Move a User



All user level permissions will follow the user. Private views will also be moved. The user now inherits the group privileges from the new group. You may not move a group administrator to another group (until you remove their group administrator status) nor can you move users into the Administrators group.

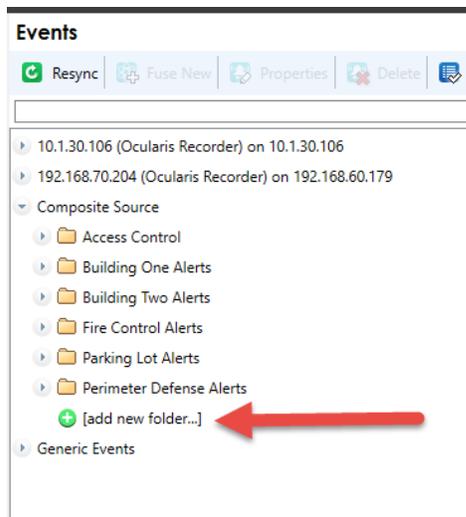
9 OC Admin - Composite Event Folders

A *Composite Event* (also called ‘Event Fusion’) is combination of two other events defined with a specific relationship and timeframe. Composite Events are supported by all models of Ocularis. In this version, you now have the ability to create folders for composite events to improve organization and ease of access.

1. In the **Servers / Events** tab, create a Composite Sensor folder by clicking ‘[add new folder...]’

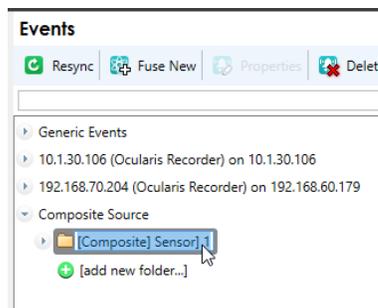
You may add as many folders as desired to organize your composite events.

Figure 25 Add Composite Event Folder



2. If you want to rename the folder now or at a later time, double-click it and replace the text. Then press [ENTER].

Figure 26 Rename Composite Event Folder



3. To create the event either click the **Fuse New Event** button on the toolbar, or expand the folder you just created and click ‘[add new..]’.
4. Fill out the **Composite Event Rule** pop-up.

10 OC Admin - Maps Tab Enhancements

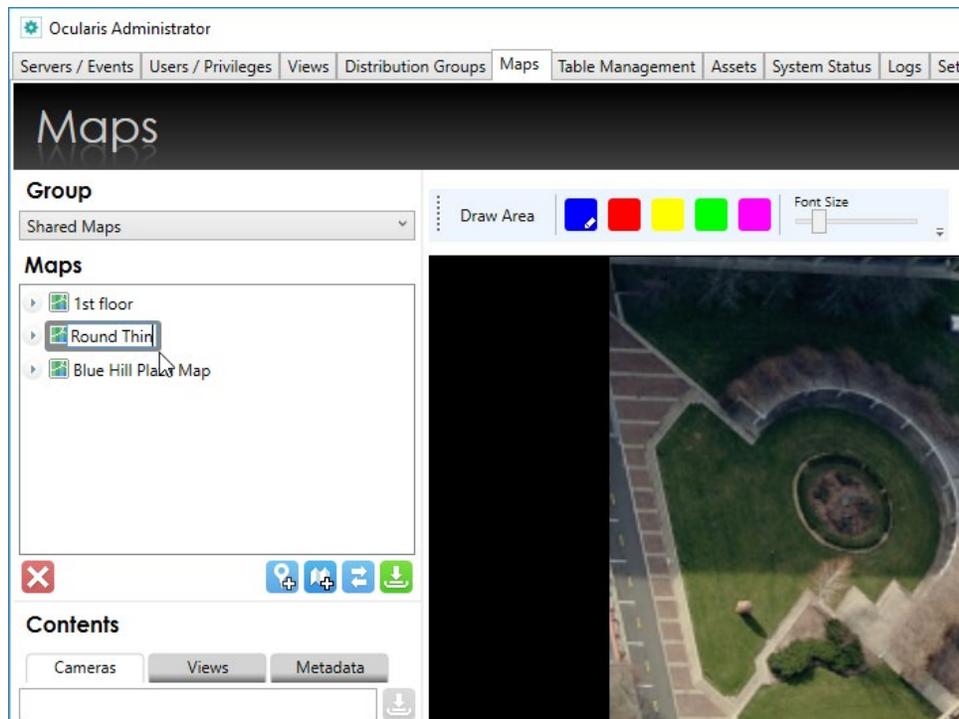
Once maps and icons have been imported in the Assets Tab, they can be configured in the **Maps** Tab.

10.1 To Change a Map Name

If desired, you may change the name of a map.

1. Under the desired group, double-click the map name in the Maps list. The name becomes editable.
2. Modify the map name and press **[ENTER]**.

Figure 27 Edit a Map Name



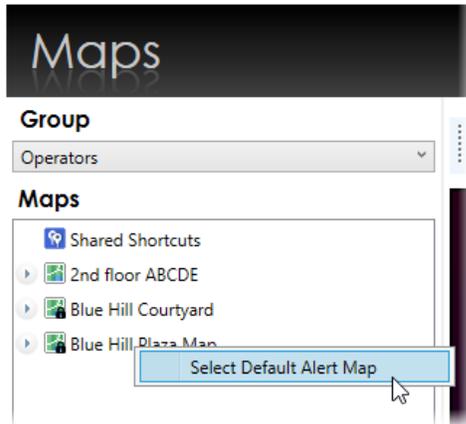
A map name changed on a Shared Map will change the name for all groups that use the map. A map name changed for a single map in a user group will only be changed for that group. The map names in the Assets Tab will not be changed.

10.2 To Set a Default Alert Map

If you use alerts with Ocularis, you can set a map to be the default map displayed when you enter the Alert Manager of Ocularis Client. You can set a unique map for each user group.

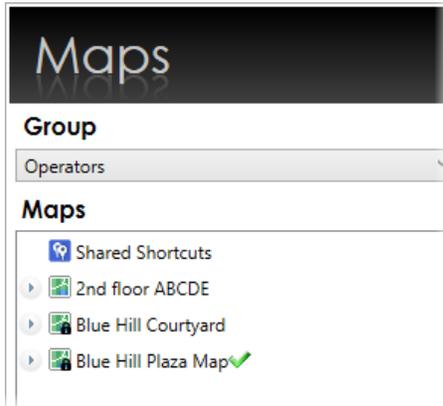
1. Under the desired group, right-click the map name in the Maps list and click 'Select Default Alert Map'.

Figure 28 Select Default Alert Map



A green checkmark appears next to the default map.

Figure 29 Default Alert Map



10.3 Shortcuts and Pins

A *Shortcut* is a link that appears on one map that, when clicked, will navigate the screen to another map. The shortcut inherits its name from the *pin* used. A *Pin*, is a shortcut name given to a location on a particular map and is created by the administrator. The pin sets the destination map as well as its horizontal position, vertical position and zoom level.

Prior to creating an embedded or floating link, you must first set the pin(s) on the map(s).

10.3.1 To Set a Map Pin

1. In the **Maps** Tab, with the desired group selected, open the *destination* map or the map to which you would like be linked. This is the map that must include the pin(s).
2. Position the map on the screen and zoom in or out so that the map is positioned in the location you wish it to be displayed when it is brought up by the link.
3. Click the **Add New Pin** icon. 
4. A pin with the same name as the map is created (**NEW!**). Double-click the pin name if you wish to rename it. Additional pins will follow the naming convention of 'map name (1)', 'map name (2)', etc.

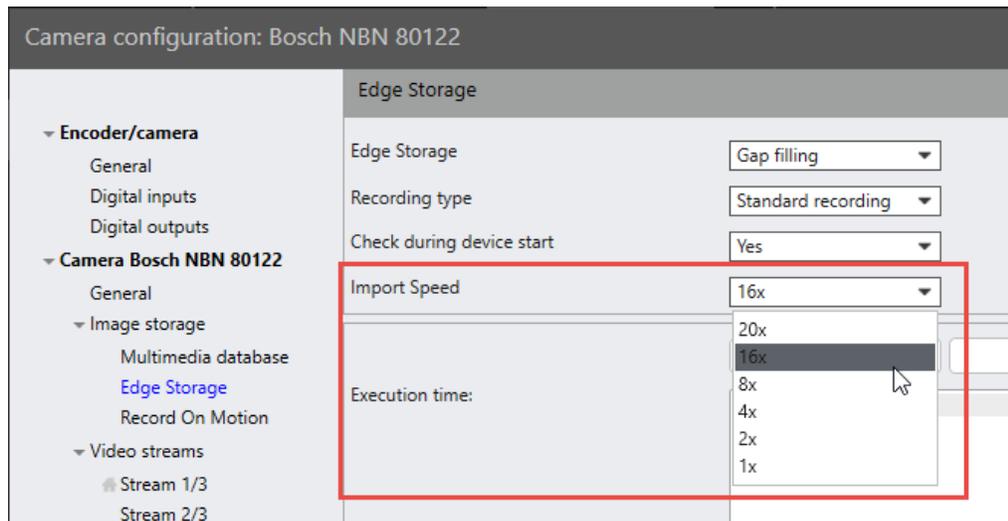
11 Ocularis Recorder Improvements

11.1 Edge Storage

There have been several improvements to Edge Storage.

- Support for Edge Storage or “recording” has been added to Ocularis Enterprise, in addition to Ocularis Ultimate.
- Hikvision and Sony Gen-X cameras are now supported for edge storage using Ocularis Smart Drivers.
- Multi-channel devices are now supported for Edge Storage.
- Video retrieval may now be made from multiple devices simultaneously and there is improved error handling and system notification.
- For certain camera models, video retrieval is faster and can be configured by the administrator.

Figure 30 Edge Storage Video Import Speed



11.2 VMS Configuration Export Tool Updated

The VMS Configuration Export Tool has been improved. You can now display or hide camera passwords as needed. You can also specify whether you want information for Cameras, Users, Groups or Alarms. The report can be generated in “human” readable format in Excel or in “Machine” mode. Machine mode provides a lot more detail including the Resolution, Aspect ratio, retention time, frames per second and much more! We recommend running this report upon successful installation or periodically when the system changes. It can be found at:

C:\Program Files\OnSSI\Ocularis Recorder\Tools\ConfigurationExport\VMS_ConfigurationExport.exe

Figure 31 VMS Configuration Export Tool

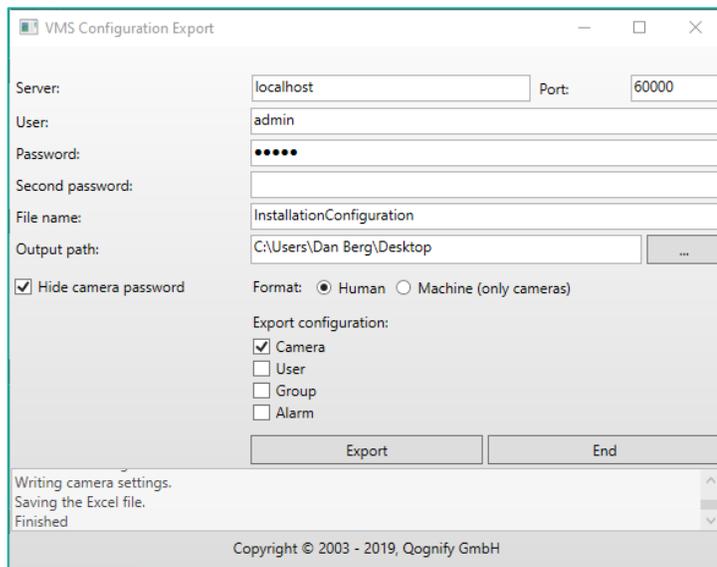


Figure 32 Human vs. Machine Report

Camera No.	Server	File-Path	Name	Type	IP address	DeviceManager	User name	Password	Recording type	Ring buffer size	Resolution	Aspect ratio	Compression	Bandwidth	Quality	Streaming mode	Firmware
1	True	Qognify-New York	Office-Axis P3384-V-106	AXIS_P3384	192.168.11.121	TEST-30-106-on-Master	root	admin	Standard recording	2 Days	1280x960	4:3	50000	4194304	H.264	Undefined	
2	True	Qognify-New York	Lab-Axis Q6034-106	AXIS_Q6034-E	192.168.11.215	TEST-30-106-on-Master	root	admin	Stream 2/6	...	800x600	4:3	50000	4194304	H.264	5.41.4	
3	True	Qognify-New York	Camera 1	AXIS_216M	192.168.11.127	TEST-30-106-on-Master	root	admin	Standard recording	3 Days	640x480	4:3	50000	4194304	Motion JPEG	Undefined	
4	True	Qognify-New York	Lab-Axis P3365-106	AXIS_P3365	192.168.11.99	TEST-30-106-on-Master	root	admin	Standard recording	2 Days	1280x720	16:9	50000	4194304	H.264	Undefined	
5	True	Qognify-New York	Axis P3245-106-On-Demand	AXIS_P3245-LVE	192.168.13.88	TEST-30-106-on-Master	root	admin	Alarm recording	3 Days	800x600	4:3	34000	4194304	H.264	9.25.1	

Name	Type	IP address	DeviceManager	User name	Password	Firmware	Standard record	Ring buffer size	Alarm recording	Ring buffer size	Alarm recording	Resolution	Standard record	FPS	Standard record	Aspect ratio	Standard record	Compression	Standard record	Bandwidth
Office-Axis P3384-V-106	AXIS_P3384	192.168.11.121	TEST-30-106-on-Master	root	admin	Undefined	True	2 Days	True	3 Days	1280x960	8	4:3	50						50
Lab-Axis Q6034-106	AXIS_Q6034-E	192.168.11.215	TEST-30-106-on-Master	root	admin	5.41.4	True	2 Days	True	3 Days	1280x720	8	16:9	50						50
Camera 1	AXIS_216M	192.168.11.127	TEST-30-106-on-Master	root	admin	Undefined	True	2 Days	True	3 Days	640x480	8	4:3	50						50
Lab-Axis P3365-106	AXIS_P3365	192.168.11.99	TEST-30-106-on-Master	root	admin	Undefined	True	2 Days	True	3 Days	1280x720	8	16:9	50						50
Axis P3245-106-On-Demand	AXIS_P3245-LVE	192.168.13.88	TEST-30-106-on-Master	root	admin	9.25.1	True	2 Days	True	3 Days	800x600	8	4:3	34						50
Harvesta SW-106	SW-106	192.168.12.101	TEST-30-106-on-Master	admin	ctcong@99	2.01_371201	True	2 Days	True	3 Days	1920x1080	8	16:9	50						50
Axis P3365-106	AXIS_P3365	192.168.11.141	TEST-30-122-on-Slave	root	admin	9.30_beta14	True	2 Days	True	3 Days	1280x720	8	16:9	50						50
Diana PWS-106	Generic_CAM	192.168.12.147	TEST-30-122-on-Slave	root	admin	Undefined	True	2 Days	True	3 Days	Default	8	n/a	50						50
Axis P3367	AXIS_P3367	192.168.12.152	TEST-30-122-on-Slave	root	admin	5.40.9.9	True	2 Days	True	3 Days	Default	8	n/a	50						50
Axis LPR-106	AXIS_Q1700-LE	192.168.12.147	TEST-30-122-on-Slave	root	admin	9.30_beta14	True	2 Days	True	3 Days	Default	8	n/a	50						50
Harvesta SW-106	SW-106	192.168.12.22	TEST-30-122-on-Slave	admin	samsung@1	3.05_140608	True	2 Days	True	3 Days	1920x1080	8	16:9	50						50
GrandEye-Hai-106	GRANDEYE_EVOLUTION	192.168.13.4	TEST-30-122-on-Slave	admin	admin	Undefined	True	2 Days	True	3 Days	2544x1944	8	208:243	50						50