



Senstar Symphony 7.2 User Guide



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Introduction

Senstar Symphony is an award-winning, intelligent video surveillance software that offers a single, innovative, and open IP video platform for video management, video analytics, system integration, and alarm management.

Symphony installs on standard IT hardware, supports both analog and IP cameras from hundreds of manufacturers, provides a feature-rich, easy-to-use interface, and incorporates IT friendly features to make administration simple. The Symphony Server can reside on a single computer or multiple computers in a server farm.

Symphony comprises two main components: the Symphony Server and the Symphony Client. You can use the server configuration interface to configure the Symphony Server and the client interface to interact with the cameras connected to Symphony.

Symphony also includes the Symphony Web Client and the Symphony Player. The Web Client provides functionality similar to the Client, but in a Web browser and without requiring installed software. The Player allows you to play video files that you export from Symphony.

Related concepts

Symphony Server on page 8

The Symphony Server includes functionality to manage devices, security, rules, sites, and settings.

Symphony Client on page 70

The Symphony Client includes functionality to monitor cameras, manage video, generate reports, and configure alarms.

Symphony Web Client on page 105

The Symphony Web Client includes functionality to monitor cameras, manage video, generate reports, and configure alarms.

Symphony Player on page 106

The Symphony Player is an application that can view video files created in the Symphony Client.

Network configuration

The Symphony Server uses the network ports below by default.

Single-server network configuration

Port	Protocol	Description
80	ТСР	HTTP web server that forwards to HTTPS on port 443 for server configuration
443	ТСР	HTTPS secure web server for server configuration
8433	ТСР	Mobile Bridge (mobile listening port)
8488	ТСР	Mobile Bridge (video proxy listening port)
50000	ТСР	HTTP web server for the web client
50001	ТСР	Web service (control and notification port)
50010	TCP	RTSP live and historical video



Port	Protocol	Description
50014	ТСР	HTTPS secure web server for the web client (if configured)

Server farm network configuration

Port	Protocol	Description
80	TCP	HTTP web server that forwards to HTTPS on port 443 for server configuration
443	TCP	HTTPS secure web server for server configuration
1433	ТСР	Outbound rule for SQL server on the SQL server firewall
1434	UDP	Port for SQL communication
5045	UDP	Port for health checks
8433	ТСР	Mobile Bridge (mobile listening port)
8488	ТСР	Mobile Bridge (video proxy listening port)
50000	ТСР	HTTP web server for the web client
50001	ТСР	Web service (control and notification port)
50004	ТСР	Port for server sub-services
50010	ТСР	RTSP live and historical video
50014	ТСР	HTTPS secure web server for the Web Client (if configured)

Additional network configuration

Port	Protocol	Description
5041	TCP	Access control
50002	TCP	SSO authentication requests
50005	ТСР	Video wall
50015	TCP	SSO authentication requests and cryptography

Getting started

Task	Topic
I want to add a digital camera to Symphony.	Add a camera manually
	Add a camera automatically





Task	Topic
I want to save video to a file.	Export video
I want to view video from a camera.	View a camera
I want to add an alert to Symphony.	Create a rule
I want to view an event across different cameras.	View Camera Activity

Related tasks

Add a camera manually on page 9

You can manually add cameras to Symphony in the server configuration interface.

Add a camera automatically on page 9

Symphony can automatically detect cameras on the same network.

View a camera on page 73

You can view a camera in each camera view panel in the client interface.

Export video to file on page 76

You can export video from the Symphony Client as .aira or .avi files.

Create a rule on page 31

You can create a rule to trigger actions in Symphony.

View camera activity on page 82

You can view the activity for multiple cameras and open camera view panels for specific times from each camera's timeline.



Symphony Server

The Symphony Server includes functionality to manage devices, security, rules, sites, and settings.

You configure the Symphony Server using the server configuration interface. You can access the server configuration interface directly in a browser or from the client interface.

Related concepts

Introduction on page 5

Senstar Symphony is an award-winning, intelligent video surveillance software that offers a single, innovative, and open IP video platform for video management, video analytics, system integration, and alarm management.

Symphony Client on page 70

The Symphony Client includes functionality to monitor cameras, manage video, generate reports, and configure alarms.

Symphony Web Client on page 105

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Symphony Player on page 106

The Symphony Player is an application that can view video files created in the Symphony Client.

Log in to the server configuration interface

You can open the server configuration interface in a browser.

You can also access the **Web Client** from the server configuration interface.

- 1. In a browser, navigate to the IP address of your Symphony Server.
- In the language list, select your language.
- 3. Type your username and password.
- Click Server Configuration.

Devices

Symphony supports cameras, digital input/output devices, and access control devices.

You can configure devices on the Devices tab in the server configuration interface. The Devices tab includes the Cameras, Templates, Hardware, Access Devices, Device Tree, and Carousels tabs.

Cameras

Symphony is compatible with analog and IP cameras from a wide variety of manufacturers.

Symphony supports the following standards:

- ONVIF Profile S
- ONVIF Profile G
- · Real Time Streaming Protocol (RTSP)

Symphony supports the most recent official firmware for cameras, as provided by camera manufacturers.

Search for a camera

You can use filters in the server configuration interface to search for specific cameras.

You can filter the camera list using the following filters:

camera ID (ID)



- camera name (Name)
- Symphony Server to which the camera connects (Server)
- camera type (Type)
- IP address of the camera (IP Address)
- camera brand (Brand)
- camera model (Model)
- template applied to the camera (Template)
- · camera resolution (Resolution)
- camera frame rate (FPS)
- group to which the camera belongs (Group)
- video analytic active on the camera (Add-on)
- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Define the filter criteria.
- Click Apply filter.

Add a camera manually

You can manually add cameras to Symphony in the server configuration interface.

To add a camera using RTSP, add the RTSP URL in the Address field and select RTSP URL in the Driver list.

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Click Add Cameras.
- 3. Click Add Camera Manually.
- 4. In the **Address** field, type the IP address of the camera.
- 5. In the **Driver** list, select the manufacturer of the camera.
- 6. Type a the username and password for the camera.
- 7. Click Connect or Add without connecting.

Add a camera automatically

Symphony can automatically detect cameras on the same network.

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Click Add Cameras.
- 3. Click Begin Automatic Discovery.
- In the Credentials Required window, type the user name and password for the camera, and click Connect.
- 5. Select the camera and click Next.

Add a mobile camera

You can add the camera on a mobile device to Symphony when you use Mobile Bridge. The mobile camera must be on for Symphony to receive video.

To use a mobile camera, you must open port 49900 on the firewall.

- In the server configuration interface, click Devices > Cameras.
- 2. Click Add Cameras.
- 3. Click Add Camera Manually.
- 4. In the **Address** field, type 0.0.0.0.
- 5. In the **Driver** field, select **Mobile**.
- 6. In the **User Name** and **Password** fields, type the credentials for the Mobile Bridge.



- 7. Click Connect.
- 8. In the **Camera Name** field, type a name for the mobile camera.
- In the **Template** field, select a template for the mobile camera.
- 10. In the **Group** field, select the group for the mobile camera.
- 11. In the Add-Ons field, select None.
 - Note: Symphony video analytics do not support mobile cameras.
- 12. In the Server field, select the Symphony Server for the mobile camera.
- 13. Click Add 1 Selected Camera.
- 14. Configure the settings for the mobile camera.
 - Note: The resolution on the mobile device must match the resolution set in the server configuration interface to transmit video.
- 15. Click Save.

Set a camera password

You can set a new password that Symphony pushes to the camera.

If you set a new password for a camera, you must use that password when you log in to the camera home page.

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select a camera.
- Click the Set Password button.
- 4. Type and confirm the new password.
- 5. Click the **Set Password** button.

Move a camera

You can move a camera to a different Symphony Server in your server farm.

- 1. In the server configuration interface, click **Devices > Cameras**.
- Select a camera.
- 3. Click Move to Server.
- 4. In the server list, select the server.
- 5. Click OK.

Add a stream

You can add a stream to a camera that Symphony can use to display video at a reduced resource cost.

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select a camera and click Edit.
- 3. In the Video section, click Add Stream.
- 4. In the **Resolution** field, select the resolution for the stream.
- 5. In the **FPS** field, select the frames per second for the stream.
- 6. In the Video Codec field, select the video codec for the stream.
- 7. In the **Transport** field, select how the camera transmits video from the stream to Symphony.
- 8. In the **Bitrate** field, select the bitrate for the stream.
- 9. In the **Key Frame Interval** list, select the frequency of frames in the video that Symphony considers to be key frames.
- 10. In the Recording Mode list, select when Symphony records video from the stream.



- 11. In the **Schedule** list, select when the recording mode is active for the stream.
- 12. Click Save.

Add an analytics stream

You can add a stream to a camera that Symphony can use for video analytic processing.

To add an analytics stream, you must configure a video analytic for the camera.

Symphony sets the resolution, frame rate, video codec, transport, bitrate, and key frame interval automatically.

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select a camera and click Edit.
- 3. In the Video section, click Add Analytics Stream.
- 4. In the **Recording Mode** list, select when Symphony records video from the stream.
- 5. In the **Schedule** list, select when the recording mode is active for the stream.
- 6. Click Save.

Configure video storage for a camera

You can set the video storage setting for individual cameras.

The camera setting takes precedence over the video storage settings for individual Symphony Server instances and the server farm.

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select a camera and click Edit.
- 3. To set the storage path for video from the camera, perform one of the following tasks in the **Storage**Paths section:
 - To use the storage path that the Symphony Server uses for video, select Use storage paths set by server.
 - To use a custom storage path, select **Use specific paths for this camera** and type the storage path.
- 4. To set the video retention policy for the camera, perform one of the following tasks in the **Video Storage** section:
 - To use the video retention policy that the Symphony Server uses for video, select **Use storage limit set by server**.
 - To use a video retention policy, select **Limit the number of days video is stored** and set the number of days to retain video.
- 5. To use a custom video retention policy for video associated with alarms, perform the following tasks:
 - Select Protect Alarm Recordings.
 - b) In the **Days** field, set the time (in days) for which the Symphony Server retains video associated with alarms.
 - c) In the **Pre Alarm** field, set the time (in seconds) before the alarm that the Symphony Server includes in the alarm video.
 - d) In the **Post Alarm** field, set the time (in seconds) after the alarm that the Symphony Server includes in the alarm video.
- 6. Click Save.



Configure a privacy mask

You can use a privacy mask to obscure areas in the camera view. A privacy mask obscures video (live and historical) so that a viewer cannot identify objects but allows Symphony to analyze the video for alarms.

A static privacy mask obscures a defined area of the camera view. A dynamic privacy mask obscures tracked objects.

- 1. In the server configuration interface, click **Devices > Cameras**.
- Select a camera and click Edit.
- 3. In the **Privacy Mask** section, perform the following tasks:
 - a) In the **Enabled** list, select whether the privacy is static, dynamic, or both.
 - b) In the **Mask Delay** field, set how long (in seconds) Symphony remembers the position of tracked objects and continues to obscure the previous location of a tracked object.
 - This setting only applies to dynamic privacy masks.
 - c) On the % Surrounding Object slider, select the area beyond a tracked object to which Symphony applies the privacy mask.
 - This setting only applies to dynamic privacy masks.
 - d) On the **Blur Amount** slider, select to what degree Symphony obscures the camera view.
 - e) In the **Drawing Mode** list, select whether the paintbrush marks areas to hide or show. This setting only applies to static privacy masks.
 - f) On the **Size** slider, select the size of the paintbrush.
 - This setting only applies to static privacy masks.
 - g) To change the privacy mask image, click **Change Image** and select the image.
 - This setting only applies to static privacy masks.
 - h) On the privacy mask image, use the paintbrush to define the areas to either hide or show. This setting only applies to static privacy masks.
- Click Save.

Configure digital input and output

You can configure how digital inputs and outputs appear in the client interface.

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select a camera and click Edit.
- 3. In the **Digital I/O** section, perform the following tasks:
 - To enable the input or output, select In Use.
 - b) To set the name that appears in the client interface, type a name in the **Output Name** or **Input Name** field.
 - c) In the **Activate** field, type the text that appears in the client interface when clicking on the input or output activates it.
 - d) In the **Deactivate** field, type the text that appears in the client interface when clicking on the input or output deactivates it.
 - e) In the **Auto Deactivate** field, set the time (in milliseconds) after which the input or output automatically deactivates.
 - f) In the **Camera Shortcut** list, select the camera on which the input or output controls appear. Buttons that allow you to control the input or output appear in the camera view panel for the camera that you select.
- Click Save.



Templates

A template is a collection of configuration settings that you can apply to cameras.

Template settings

General

Setting	Description
Failover enabled	Select and specify whether failover is enabled or disabled.
Support Direct Connect	Select whether the camera allows direct connections through a browser.
Enable Audio Input	Select whether the camera can record audio.
Enable Audio Output	Select whether the camera can play audio.
Rotate Degrees	Select whether to rotate the footage from the camera.
Change frame rate on alarm to	Select to change the frame rate of the video from the camera.
Limit the number of days video is stored	Specify the maximum time (days) for which Symphony keeps the video.
PTZ Maximum Locked Time	Specify the maximum time (minutes) that PTZ cameras can remain in a locked state.
Enable panoramic technology	Select to enable panoramic technology for the camera and specify the panoramic type and camera position.

Stream

Setting	Description
Resolution	Specify the resolution for the camera.
Frame Rate	Specify the frame rate for the camera.
Video Codec	Select the video codec that the camera uses.
Bitrate	Specify the bitrate (in kilobits per second) for the camera.
Key frame interval	Specify the key frame interval.
Video Recording	Select when the camera records video.
Pre Event	Specify how much video (in seconds) the camera records before an event.
Post Event	Specify how much video (in seconds) the camera records after an event.





Setting	Description
Schedule	Select to set the schedule.
Audio recording	Select when the camera records audio.

Create a template

Create a template in the server configuration interface.

- 1. Click **Devices** > **Templates**.
- 2. Click Add Template.
- 3. In the **Name** field, type a name for the template.
- 4. Configure the settings for the template.
- 5. Click Save.

Copy a template

You can copy a template to use it as the starting point for a new template.

- 1. In the server configuration interface, click **Devices** > **Templates**.
- 2. Select the template and click Clone.
- In the Name field, type a name for the template.
 By default, the name of the new template include Clone of before the original template name.
- 4. Configure the settings for the template.
- Click Save.

Hardware

Hardware can provide data Symphony can use data from digital input and output devices to trigger events. Symphony supports the following manufacturers:

- Advantech ADAM
- Axis
- Phoenix Contact
- Gallagher
- JCI P2000
- Siemens SPC
- · Software House

Add a hardware device

You can add hardware devices to Symphony.

- 1. In the server configuration interface, click **Devices** > **Hardware**.
- 2. Click Add Hardware.
- 3. In the **Manufacturer** list, select the manufacturer of the hardware device.
- 4. In the **General** section, specify the settings for the hardware device. The settings are specific to the manufacturer.
- 5. Click Save.



Access control devices

Symphony can use data from access control devices to trigger events.

You can use the server configuration interface to integrate an access control device with Symphony. Once you have added the access control device, you can select the access control devices in the solution to use as sources for events.

Symphony supports the following manufacturers:

- Axiom
- Axis PACS
- Gallagher
- JCI P2000
- Siemens SPC
- Software House

Add an access control device

You can add access control devices to Symphony.

In some cases, you might need to perform additional tasks on the access control device. For information on a specific access control device, search the Xnet for the manufacturer of the access control device.

- 1. In the server configuration interface, click **Devices** > **Access Devices**.
- 2. Click Add Access Device.
- 3. In the Manufacturer list, select the manufacturer of the access control system.
- 4. In the Server list, select the Symphony Server to which you want to add the access control device.
- 5. In the **IP Address** field, type the IP address of the access control system.
- 6. In the **Username** and **Password** fields, type the credentials for the access control system.
- 7. In the **Sources** list, select the devices in the access control system that can trigger events in Symphony.
- 8. Click Save.

Device tree

The device tree organizes and displays devices in the client interface.

You can organize the devices in groups. In the server configuration interface, you can create, copy, edit, and delete groups. Changes that you make in the server configuration interface appear immediately in the client interface.

Create a device group

You can use device groups to organize your devices.

- 1. In the server configuration interface, click **Devices > Device Tree**.
- Click Create Group.
 - A new folder named **New Group** appears in the device tree.
- 3. Type a name for the group and press Enter.
- 4. Drag devices into the group.
- Click Save.

Modify a device group

You can change the name of the device group or add and remove devices from the device group.

1. In the server configuration interface, click **Devices > Device Tree**.



- 2. To modify the name of the device group, perform the following tasks:
 - a) Select the device group.
 - b) Click Edit.
 - c) Type a name for the device group.
 - d) Click Save.
- 3. To move a device to the device group, perform the following tasks:
 - a) Click and drag a device to the device group.
 - b) Click Save.

Copy a device group

You can copy a device group to act as a template for a new device group.

- 1. In the server configuration interface, click **Devices > Device Tree**.
- 2. Select a device group.
- 3. Click Clone.
- 4. Type a name for the new device group.
- Click Save.

Delete a device group

You can delete a device group from the device tree. When you delete a device group, the devices in the group move to the root folder of the device tree.

- 1. In the server configuration interface, click **Devices > Device Tree**.
- 2. Select a device group.
- 3. Click Delete.

Carousels

Carousels are configurations for video panels in the client interface that can loop through multiple cameras and display video for a set time.

In the server configuration interface, you add cameras to the carousel and then set how long the video panel in the client interface displays video before moving to the next camera. The device tree in the client interface lists all available carousels. You can open a carousel in any video panel.

Create a carousel

- 1. In the server configuration interface, click **Devices** > **Carousels**.
- 2. Click Add Carousel.
- 3. Type a name for the carousel.
- 4. In the **Available Cameras on Servers** list, select the cameras to add to the carousel and click **Add Selected**.
- 5. In the **Camera** list, drag and drop the cameras to define the carousel order and define the number of seconds for which the camera view panel displays the camera.
- 6. Click Save.

Modify a carousel

- 1. In the server configuration interface, click **Devices > Carousels**.
- 2. Select the carousel and click Edit.
- Perform any of the following tasks:
 - a) To modify the name of the carousel, type a new name in the **Name** field.



- To add a camera to the carousel, select the camera in the Available Cameras on Servers list and click Add Selected.
- c) To remove a camera from the carousel, highlight the camera in the **Camera** list and click the **X** button.
- d) To modify the amount of time for each camera, type new values in the **Seconds** fields.
- 4. Click Save.

Copy a carousel

- 1. In the server configuration interface, click **Devices** > **Carousels**.
- 2. Select the carousel and click Clone.
- 3. Modify the carousel.
- 4. Click Save.

Delete a carousel

- In the server configuration interface, click Devices > Carousels.
- Select the carousel and click **Delete**.

Security

Security settings in Symphony allow you to configure authentication for users, set and change permissions for users and groups quickly, and add watermarks to video.

You access the security settings on the Security tab in the server configuration interface. The Security tab includes the Users, Groups, Security Profiles, and Logins tabs.

Users

Users are individuals with permission to use Symphony.

Add a user

You can add a user to allow someone to use Symphony.

- 1. In the server configuration interface, click **Security** > **Users**.
- 2. Click Add.
- 3. Enter information for the user.
- 4. To disable the user, select the **Disabled** box and type a reason.
- 5. Using the **Priority** slider or text box, define a priority for the user to help resolve resource conflicts.
- 6. In the **Group Membership** pane, select the groups to which the user belongs.
- 7. In the **Supervisor** list, select the group that contains users who can impersonate this user.
- 8. Click Save.

Related concepts

Security authentication on page 30

The Symphony security authentication mode authenticates usernames and passwords that you create for users in the server configuration interface.

Related tasks

Set the security profile permissions on page 21



You can set the security profile permissions for a user or group. When you activate the security profile, Symphony applies the permissions associated with the security profile to the users and groups.

Copy a user

You can copy a user to use it as a template for a new user.

- 1. In the server configuration interface, click **Security** > **Users**.
- Select a user and click Clone.
- 3. Enter information for the user.
- 4. To disable the user, select the **Disabled** box and type a reason.
- 5. Using the **Priority** slider or text box, define a priority for the user to help resolve resource conflicts.
- 6. In the **Group Membership** pane, select the groups to which the user belongs.
- 7. In the **Supervisor** list, select the group that contains users who can impersonate this user.
- Click Save.

Add a user to a group

You can add a user to a group at any time to grant the permissions for that group to a user.

- 1. In the server configuration interface, click **Security > Users**.
- 2. Select a user and click Edit.
- 3. In the **Group Membership** pane, select the group to which you want to add the user.
- Click Save.

Supervisor impersonation

Supervisor impersonation allows two users with lesser permissions to log in simultaneously to impersonate a single user with greater permissions.

Supervisor impersonation is the application of the two-person rule to add additional security to the Symphony Client. You can use this feature to ensure that two people are present when a user performs an operation in the client interface.

Configure a user for supervisor impersonation

To use supervisor impersonation, you must configure a user the two other users can impersonate.

- 1. In the server configuration interface, click **Security** > **Users**.
- 2. Perform one of the following tasks:
 - To create a new user for supervisor impersonation, click Add.
 - To use an existing user for supervisor impersonation, select the user and click Edit.
- 3. In the **Properties** section, select **Enable Two Person Rule**.
- 4. In each of the group lists, select the groups from which the users can impersonate the user.
- Click Save.

Related tasks

Add a group on page 19

You can add a group to create a collection of customized permissions for users.

Add a user on page 17

You can add a user to allow someone to use Symphony.

Add a user to a group on page 18



You can add a user to a group at any time to grant the permissions for that group to a user.

Enable supervisor impersonation

To make the supervisor impersonation option available in the Symphony Client, you must add the feature to the configuration file.

- 1. Open the acc.ini file at %appdata%\Senstar7.
- 2. In the [Main] section, add the following text:

ShowTwoManRule=True

Save and close the acc.ini file.

The Supervisor Logon option is visible on the login page for the Symphony Client.

Impersonate a supervisor

Two users can log in to the Symphony Client to impersonate a user and gain access to additional functionality.

- In the client interface, click the user name and then click Log On/Switch User to open the Logon window.
- In the Server list, select the Symphony Server for which you have configured supervisor impersonation.
- 3. Type the credentials for the first user.
- 4. Select the Supervisor Logon box.
- 5. Type the credentials for the second user.
- 6. Type the name of the supervisor-impersonation user.
- 7. In the **Reason** field, type the reason for impersonating a supervisor.
- 8. Click OK.

Groups

Groups are collections of users with similar permissions for the Symphony Server and Symphony Client.

Groups can contain users that you create and maintain in Symphony or, if you use Active Directory authentication, groups can synchronize membership with an associated Active Directory group.

Add a group

You can add a group to create a collection of customized permissions for users.

- 1. In the server configuration interface, click **Security** > **Groups**.
- Click Add.
- Type a name for the group.
- Select the parent group.
- 5. Type a description for the group.
- To associate the group with an Active Directory group, perform the following steps:
 - a) Click Associate.
 - b) Search for and select the Active Directory group.
 - c) Click OK.
- 7. Click Save.

After you create a group, you need to set the permissions for each security profile that you use.



Related tasks

Set the security profile permissions on page 21

You can set the security profile permissions for a user or group. When you activate the security profile, Symphony applies the permissions associated with the security profile to the users and groups.

Copy a group

You can copy a group to use it as a template for a new group.

When you copy a group, the permissions for all of the security profiles are cloned to the new group.

- In the server configuration interface, click Security > Groups.
- 2. Select a group and click Clone.
- 3. In the **Name** field, type a name for the group.
- 4. In the **Group Parents** field, select the groups that act as parent groups.
- 5. In the **Description** field, type a description for the group.
- 6. To associate the group with an Active Directory group, perform the following steps:
 - a) Click Associate.
 - b) Search for and select the Active Directory group.
 - c) Click OK.
- Click Save.
- 8. In the **Group Membership** pane, select the groups to which the user belongs.
- 9. In the **Supervisor** list, select the group that contains users who can impersonate this user.
- 10. Click Save.

Synchronize groups with Active Directory

You can manually synchronize groups that are associated with Active Directory groups to implement changes in Active Directory.

- In the server configuration interface, click Security > Groups.
- 2. Click Synchronize.

Security profiles

A security profile is a collection of permissions that you can apply across all users and groups. Security profiles make it easy to switch the permissions for users and groups in Symphony.

Each user and group can have a specific set of permissions associated with each security profile. When you activate a security profile, all users and groups switch to the permissions that you set.

Add a security profile

You can copy an existing security profile to add another security profile to Symphony.

- 1. In the server configuration interface, click **Security > Security Profiles**.
- Select a security profile and click Copy.
- 3. In the **Name** field, type a name for the security profile.
- 4. (Optional) In the **Description** field, type a description for the security profile.
- Click Save.

Activate a security profile

You can activate a security profile to apply all of the permissions that you configure for users and groups under that security profile.

1. In the server configuration interface, click **Security > Security Profiles**.



2. Select a security profile and click **Activate Security Profile**.

Remove a security profile

You can remove a security profile from Symphony as long as the security profile is not active.

- 1. In the server configuration interface, click **Security > Security Profiles**.
- 2. Select a security profile and click **Delete**.

Set the security profile permissions

You can set the security profile permissions for a user or group. When you activate the security profile, Symphony applies the permissions associated with the security profile to the users and groups.

In most cases, you will set the permissions for the default security profile. However, if you use multiple security profiles, you might need to set custom permissions for each security profile.

- 1. In the server configuration interface, perform one of the following tasks:
 - To set the security profile permissions for a user, click Security > Users.
 - To set the security profile permissions for a group, click **Security > Groups**.
- 2. Select a user or group and click Edit.
- 3. In the **Security Profile** list, select the security profile for which you want to set permissions.
- 4. In the permissions tree, click the permission category that you want to set.
- 5. In the permission list, set the permissions.
- 6. Click Save.

Site permissions

General

Permission	Description
Change IO State	This permissions allows a user to change the IO state of devices in the client interface.
Configure Maps	This permission allows a user to configure maps in the client interface.
Connect	This permission allows a user to connect to servers.
Delete Footage	This permission allows a user to delete video footage in the client interface.
Export Video	This permission allows a user to export video from the client interface.
Get Logs	This permission allows a user to view and download logs in the client interface.
Manage Bookmarks	This permission allows a user to create and edit bookmarks in the client interface.
Manage Services	This permission allows a user to edit service settings in the server configuration interface.



Permission	Description
Play Sounds	This permission allows a user to play audio in the client interface.

Configuration

Permission	Description
Add Devices	This permission allows a user to add devices in the server configuration interface.
Change Access Control	This permission allows a user to configure access control devices in the server configuration interface.
Change Settings	This permission allows a user to change the general settings in the server configuration interface.

Alarm

Permission	Description
Add Alarm	This permission allows a user to create alarms in the server configuration interface.
Manage Alarms	This permission allows a user edit and delete alarms in the server configuration interface.
Mark Alarms	This permission allows a user to mark alarms as an alarm, false alarm, or real actionable in the client interface.
View Alarms	This permission allows a user to view alarms in the client interface.

Backup

Permission	Description
Backup	This permission allows a user to configure backup options in the server configuration interface.
Restore	This permission allows a user to restore a configuration in the server configuration interface.

Face Recognition

Permission	Description
Change faces/people	This permission allows a user to edit faces and associated information for the Face Recognition video analytic in the client interface.
Manage Face Lists	This permission allows a user to add faces to or remove faces from a list.





Permission	Description
View faces/people	This permission allows a user to view faces and associated information for the Face Recognition video analytic in the client interface.

LPR

Permission	Description
Add or Edit License Plate Metadata	This permission allows a user to add or edit license plate information for the Automatic License Plate Recognition video analytic in the client interface.
Delete License Plate	This permission allows a user to delete license plate information from the Automatic License Plate Recognition video analytic in the client interface.
Export License Plates	This permission allows a user to export license plate information from the Automatic License Plate Recognition video analytic in the client interface.
Manage License Plate Lists	This permission allows a user to create and edit license plate lists for the Automatic License Plate Recognition video analytic in the client interface.
Manage Special Characters	This permission allows a user to add special character mappings for the Automatic License Plate Recognition video analytic in the client interface.
Perform License Plate Search	This permission allows a user to search for license plate information from the Automatic License Plate Recognition video analytic in the Symphony client interface.
View License Plate Log	This permission allows a user to view the license plate log from the Automatic License Plate Recognition video analytic in the Symphony client interface.
View License Plate Metadata Configuration	This permission allows a user to view the license plate metadata configuration for the Automatic License Plate Recognition video analytic in the Symphony client interface.

Messenger

Permission	Description
Modify Pre-written Messages	This permission allows a user to edit the canned messages in the messenger in the Symphony client interface.
Send Messages	This permission allows a user to send messages using the messenger in the Symphony client interface.





Point of Sale

Permission	Description
Change POS data	This permission allows a user to modify the point-of-sale data in the client interface.
View POS data	This permission allows a user to view point-of-sale data in the client interface.

Report

Permission	Description
Execute Report	This permission allows a user to run reports in the Symphony client interface.

Rule

Permission	Description
Add Rules	This permission allows a user to create rules in the Symphony server configuration interface.

Search

Permission	Description
Convert Searches	This permission allows a user to convert search results to AVI or MPEG files in the Symphony client interface.
Delete Searches	This permission allows a user to delete searches in the Symphony client interface.
Search	This permission allows a user to perform searches in the Symphony client interface.

Security

Permission	Description
Activate Security Profile	This permission allows a user to activate security profiles in the Symphony server configuration interface.
Change Authentication Mode	This permission is not used.
Edit Security	This permission allows a user to edit security settings in the Symphony server configuration interface.
Manage Security Profiles	This permission allows a user to add, edit, and delete security profiles in the Symphony server configuration interface.





Subscription

Permission	Description
Change Subscriptions	This permission allows a user to change the notification settings in the Symphony server configuration interface.
View Subscriptions	This permission allows a user to view the notification settings in the Symphony server configuration interface.

UI

Permission	Description
Change Carousels	This permission allows a user to edit camera carousels in the Symphony server configuration interface.
Configure Visual Tracking	This permission allows a user to add, edit, and delete visual tracking links in the Symphony client interface.
Lock UI	This permission allows a user to lock the Symphony client interface.
Manage Shared Views	This permission allows a user to edit and save shared views in the Symphony client interface.
View Carousels	This permission allows a user to view camera carousels in the Symphony client interface.

User

Permission	Description
Add Users	This permission allows a user to create users in the Symphony server configuration interface.
Multiple Logins	This permission allows a user to log in to multiple Symphony client interfaces and server configuration interfaces concurrently.

Video Wall

Permission	Description
Change Video Wall Client	This permission allows a user to configure video wall clients in the Symphony client interface.
Control Video Walls	This permission allows a user to remotely control video wall clients in the Symphony client interface.
Create Video Walls	This permission allows a user to create video walls in the Symphony client interface.



Device permissions

General

Permission	Description
Basic Access	This permissions allows a user to access cameras or other devices.
View Group	This permissions allows a user to view the devices in device groups.
View IO State	This permissions allows a user to view the input/output state of devices.

Configuration

Permission	Description
Add Members	This permission allows a user to add devices to a device group.
Change IO State	This permission allows a user to change the input and output state of a device.
Change Settings	This permission allows a user to change the settings for a device.
Configure Analytics	This permission allows a user to configure analytics for a device.
Delete	This permission allows a user to remove a device from Symphony.
Delete Group	This permission allows a user to delete a device group.
Edit Device Security	This permission allows a user to modify the authentication settings for devices.
Edit Group Membership	This permission allows a user to modify which groups to which a device group belongs.
Edit Group Properties	This permission allows a user to modify the properties for device groups.
Edit Group Security	
Edit Membership	This permission allows a user to modify devices are in a device group.
Remove Members	This permission allows a user to remove a device from a device group.





Alarm

Permission	Description
Manage Alarms	This permission allows a user to mark an alarm as an alarm, false alarm, or as real and actionable, and to view and edit alarm details in the client interface.
Trigger Manual Alarm	This permission allows a user to add an alarm to a camera timeline in the client interface.

Audio

Permission	Description
Listen to camera	This permission allows a user to listen to the audio that a camera records using the client interface.
Talk through camera	This permission allows a user to broadcast audio from a camera using the client interface.

LPR

Permission	Description
Edit License Plate	This permission allows a user to edit license plates that cameras detect using the client interface.

PTZ

Permission	Description
Calibrate PTZ Camera	This permission allows a user to calibrate a PTZ camera in the client interface.
Control PTZ	This permission allows a user to control a PTZ camera using the client interface.
PTZ Presets	This permission allows a user to move a PTZ camera to a preset position using the client interface.

Search

Permission	Description
Search Footage	This permission allows a user to search video footage using the client interface.



Video

Permission	Description
Manage Recording	This permission allows a user to manage recordings.
Video Historical Video	This permission allows a user to view historical video.
View Live Video	This permission allows a user to view live video.
View Private Video	This permission allows a user to view video that has been marked as private.
View Restricted Historical Video	This permission allows a user to view video that has been marked as restricted.

User permissions

General

Permission	Description
Terminate user session	This permission allows a user to end the session for another user.
View Group	This permission allows a user to view user groups.
View User	This permission allows a user to view users.

Configuration

Permission	Description
Add Members	This permission allows a user to add users to user groups.
Delete Group	This permission allows a user to delete user groups.
Delete User	This permission allows a user to remove users from Symphony.
Edit Group Membership	This permission allows a user to modify the user groups to which user groups belong.
Edit Group Properties	This permission allows a user to modify the name, description, and Active Directory association of user groups.
Edit Group Security	This permission allows a user to modify the security profiles of user groups.
Edit Membership	This permission allows a user to modify the users in user groups.
Edit Security	This permission allows a user to modify the security profiles of users.
Edit User Properties	This permission allows a user to modify the properties of users (phone number, email, description, etc.).





Permission	Description
Remove Members	This permission allows a user to remove users from user groups.

Video wall permissions

General

Permission	Description
Change Panel	This permission allows a user to modify the camera views in a video wall panel.
Change Window	This permission allows a user to modify the panels in a video wall window.
Move Window	This permission allows a user to move video wall panels in the video wall.
Use Panel Context Menu	This permission allows a user to view and use the contextual menu for video wall panels.
Use Window Context Menu	This permission allows a user to view and use the contextual menu for video wall windows.
View	This permission allows a user to view video walls.

Rule permissions

General

Permission	Description
View Rule	This permission allows a user to view rules in the Symphony server configuration interface.

Configuration

Permission	Description
Change Rule	This permission allows a user to change rules in the Symphony server configuration interface.

Logins

The Logins page displays active and historical sessions for the Symphony Server.

Stop an active session

- 1. In the server configuration interface, click **Security > Logins**.
- 2. Beside the active session that you want to stop, click **Terminate**.



View historical sessions

- 1. In the server configuration interface, click **Security > Logins**.
- 2. Click Load Historical Sessions.
- 3. To export the historical sessions to a CSV file, click Export CSV file and open or save the file.

Active Directory authentication

The Active Directory Integration security mode uses Active Directory to authenticate users.

For this authentication method, the Symphony database stores user names and security identifiers for user accounts, but not the passwords. When a user attempts to log in, Symphony checks the credentials against Active Directory. When you add a user account to Symphony, you must associate the user account with a user account in Active Directory.

Associate a group

If you use Active Directory authentication, you must associate groups that you create in Symphony with groups in Active Directory.

- In the server configuration interface, click Security > Groups.
- Select a group and click Edit.
- Click Associate.
- 4. In the **Search For** box, type a group name and click **Search**.
- 5. Click the group and click OK.

Security authentication

The Symphony security authentication mode authenticates usernames and passwords that you create for users in the server configuration interface.

For this authentication method, the Symphony database stores user names and passwords for user accounts. When a user attempts to log in, Symphony checks the credentials against the Symphony database.

Related tasks

Add a user on page 17

You can add a user to allow someone to use Symphony.

Watermarking

Symphony uses watermarking to detect tampered video and audio. Watermarking works in the Symphony Client, Symphony Player, and Symphony Web Client.

If Symphony successfully verifies the watermark, the video plays normally. If the watermark verification fails, Symphony displays an error message when you try to view video in the Symphony Client or the Symphony Player.

Related tasks

Enable watermark verification on page 106

You can enable watermark verification for the Symphony Player to prevent the Player from playing tampered video.

Enable watermarking on page 31



When you enable watermarking, the Symphony Server adds watermarks to recorded video and the Symphony Client verifies watermarks when playing video.

Enable watermarking

When you enable watermarking, the Symphony Server adds watermarks to recorded video and the Symphony Client verifies watermarks when playing video.

- 1. In the client interface, click Server Configuration > Manual Configuration Editor.
- 2. Click Add a new setting.
- 3. Add the following values:

```
Type: Global
Section: Main
Key: EnableWatermark
Value: True
```

- 4. Click OK.
- 5. Restart the Symphony services.

Related concepts

Watermarking on page 30

Symphony uses watermarking to detect tampered video and audio. Watermarking works in the Symphony Client, Symphony Player, and Symphony Web Client.

Related tasks

Enable watermark verification on page 106

You can enable watermark verification for the Symphony Player to prevent the Player from playing tampered video.

Rules

Symphony can generate alarms from rules. Rules include events, action sets, and schedules.

You create rules in the server configuration interface. When you create a rule, you either associate existing events, action sets, and a schedule with the rule, or you create new events, action sets, and a schedule for the rule.

An event triggers a rule. Examples include events from video analytics, camera inputs, and access devices.

An action set defines the actions that Symphony takes when an event triggers a rule. Examples include displaying or recording footage from a camera, sending an email, and switching a relay.

A schedule defines when a rule is active. An event must occur during an active time in the schedule to trigger a rule.

When a rule is enabled, the occurrence of an event associated with the rule during an active period in the rule's schedule causes Symphony to perform the actions defined in the rule's action set.

Create a rule

You can create a rule to trigger actions in Symphony.

- 1. In the Symphony server configuration interface, click **Rules** > **Rules**.
- Click Add.
- Type a name for the rule.
- 4. Enable or disable the rule.
- 5. Add an existing event to the rule or create a new event to add to the rule.
- 6. If you add multiple events to the rule, select how the events must occur to trigger the rule.



- Select in sequence to trigger a rule when the events occur in the order in which the server configuration interface lists the events.
- Select within a time period of and specify the number of seconds to trigger an rule when all of the events occur in the specified time period.
- 7. Add an existing action set to the rule or create a new action set to add to the rule.
- 8. Add and existing schedule to the rule or create a new schedule to add to the rule.
- 9. Click Save.

Related tasks

Create an event on page 32

You can create an event that triggers the Face Recognition rule.

Create an action set on page 34

You can create an action set to determine what actions Symphony takes when rule is triggered.

Create a schedule on page 40

You can create a schedule to determine when a rule is active.

Edit a rule

You can edit a rule to change the events, action set, and schedule associated with the rule.

- 1. In the server configuration interface, click **Rules** > **Rules**.
- 2. Select a rule.
- 3. Click Edit.
- 4. Modify the rule.
- Click Save.

Delete a rule

You can remove a rule from Symphony.

When you delete a rule, the events, action set, and schedule associated with the rule are not deleted.

- 1. In the Symphony server configuration interface, click **Rules** > **Rules**.
- 2. Select a rule.
- 3. Click Delete.
- Click Yes.

Events

Events define the condition that must exists for a rule to trigger an alarm in Symphony.

Create an event

You can create an event that triggers the Face Recognition rule.

- 1. In the Symphony server configuration interface, click **Rules** > **Events**.
- 2. Click New Event.
- 3. Type a name for the event.
- 4. To add a device, perform the following tasks:
 - a) Click Add Devices.
 - b) Select the device.
 - c) Click OK.
- 5. Perform one of the follow tasks:



- If you add a camera, select the video engine and configure how it triggers a rule.
- If you add a metadata device, select the input and configure how it triggers a rule.
- If you add an access control device, select the readers and inputs, and configure how they trigger a rule.

6. Click Save.

Automatic License Plate Recognition event settings

The event settings for Automatic License Plate Recognition are visible when you select it as the video engine for an event.

Setting	Description
Alarm type	Select whether the event triggers the rule when Automatic License Plate Recognition detects a license plate, detects a license plate not on the list (white list), or detects a license plate on the list (black list).

Crowd Detection event settings

The event settings for Crowd Detection are visible when you select it as the video engine for an event.

Setting	Description
Alarm type	Select whether the event responds to capacity or occupancy.
Duration	Set the amount of time over which Crowd Detection averages values. A higher duration reduces the number of alarms but increases the possibility of missed alarms. A lower duration increases the number of alarms but increases the possibility of false alarms.
Threshold	Use the slider bar to define the values that trigger the event. Values that fall outside of the threshold trigger the event.

Left and Removed Item Detection event settings

The event settings for Left and Removed Item Detection are visible when you select it as the video engine for an event.

Setting	Description
Processing mask	
Alarm based on percentage of object inside alarm mask	Select if the event triggers rules based on the percentage of the object inside of the processing mask.
Alarm size	Define the maximum and minimum size of objects that can trigger the rule.
Alarm only if	Select to alarm only if there are multiple alarms in a specific time. You can define both the number of alarms and the time.
Or at least	Select to alarm if a number of pixels change in a specific time. You can define both the number of pixels and the time.



Motion Detection event settings

The event settings for Motion Detection are visible when you select it as the video engine for an event.

Setting	Description
	Draw a processing mask to determine what movement triggers an event.

Outdoor People and Vehicle Tracking event settings

The event settings for Outdoor People and Vehicle Tracking are visible when you select it as the video engine for an event.

Setting	Description
Class	Select the class of object that triggers the rule.
Behavior	Select whether an object moving for a time or loitering for a time triggers the rule, and set the time.
Use Mask	Select what movement to use when triggering the rule. Select whether the beginning, end, or any part of the movement track triggers the alarm, and select whether any part of the object can trigger the rule.
Use Fences	Select whether to trigger rules when an object crosses any of the fences or when an object crosses all of the fences.

Edit an event

You can edit an event to change what triggers a rule.

- 1. In the server configuration interface, click **Rules > Events**.
- Select an event.
- 3. Click Edit.
- 4. Modify the event.
- 5. Click Save.

Delete an event

You can delete an event to remove it from Symphony.

- 1. In the Symphony server configuration interface, click **Rules > Events**.
- 2. Select an event.
- 3. Click Delete.
- 4. Click Yes.

Action sets

Action sets are combinations of actions that Symphony takes when a rule generates an alarm.

Create an action set

You can create an action set to determine what actions Symphony takes when rule is triggered.

1. In the Symphony server configuration interface, click **Rules > Action Sets**.



- 2. Click New Action Set.
- 3. Type a name for the action set.
- 4. In the **Alarm** list, select the cameras to view when an alarm occurs.
- 5. To select where the alarm appears, perform one of the following tasks:
 - To associate the alarm with a camera and display the alarm in a camera timeline, select the camera in the **Choose a Camera** list.
 - To associate the alarm with a map and display the alarm on the map, select the map in the **Choose a Map** list.
- 6. In the **Record** list, select the cameras that record footage when an alarm occurs.
- 7. To add other actions, perform the following tasks:
 - a) In the Pick an item list, select an action.
 - b) Click Add.
 - c) Configure the settings for the action.
- 8. Click Save.

Actions

Alarm Console

Symphony can display cameras or maps in the if the display panels of the alarm console. You can choose to display the following things in the display panels:

- Default Trigger displays the camera or map (configured in the Alarm section of the action).
- · Camera displays the camera that you select.
- Map displays the map that you select.

Setting	Description
Display 1	Select what appears in the first display of the alarm console.
Display 2	Select what appears in the second display of the alarm console.
Display 3	Select what appears in the third display of the alarm console.
Display 4	Select what appears in the fourth display of the alarm console.

Email

Symphony can send email messages when an alarm occurs.

Setting	Description
Email Address	Type the email address to which Symphony sends the email. You can type multiple email addresses by pressing Enter after typing an email address.
Only email if not acknowledged in	Select to only send an email if an the alarm remains unacknowledged for a specified time.
Minutes	Specify the number of minutes that the alarm must remain unacknowledged before Symphony sends the email.



FTP

Symphony can capture images from cameras and post those images to an FTP server when an alarm occurs.

Setting	Description
FTP camera images on alarm	Select the cameras from which Symphony collects images to post to the FTP server.
Server name	Type the IP address of the FTP server.
Port	Select the port that the FTP server uses.
Username	Type the username for accessing the FTP server.
Password	Type the password for accessing the FTP server.
Remote directory	Type the directory to which Symphony posts the image files.
Transfer Multiple pictures	Select to make Symphony post multiple images to the FTP server.
Pre-alarm pictures	Select the number of images prior to the alarm that Symphony posts to the FTP server.
Post-alarm pictures	Select the number of images after the alarm that Symphony posts to the FTP server.
Interval between pictures	Select the number of milliseconds between each picture.
Show all Decorations	Select to include all decorations in the images. If you clear this selection, you can select specific decorations to include in the images.
Boxes	Select to include tracking boxes in the images.
Decorations	Select to include the camera name and description in the images.
Date	Select to include the date in the images.
Time	Select to include the time in the images.
Paths	Select to include tracking paths in the images.
Resize the transferred file	Select a size to which Symphony resizes images before posting them to the FTP server.
Rename the transferred file according to this pattern	Select to rename the images using the pattern that you define in the text field.
	For example, %YYYY %MM %DD instructs Symphony to rename the image file to 2018_01_01.jpg.
Use UTC date and time	Select to use the UTC date and time when Symphony renames image files.



Instructions

Symphony can display a message or file to users in the client interface when an alarm occurs. If you add a file to an alarm, you can zoom in or out on the file using the Ctrl key and the mouse scroll wheel.

Setting	Description
Display	Select whether to display the instructions for the alarm in text or in a file.
Enter what should be done in case of an alarm below	When adding instructions in text, type the text that Symphony displays.
Drag file here	When adding instructions in a file, drag and drop the file that Symphony displays into the pane. Symphony supports the following file formats:
	• .doc
	• .docx
	• .epub • .htm
	• .html
	• .mht
	• .odt
	• .pdf
	• .rtf
	• .txt

OPC

Setting	Description
Alarm type	Specify the value that Symphony sends to the item.
Stay for	Set how long that Symphony sends the alarm type value.

Relays

Symphony can trigger a relay when an alarm occurs.

Setting	Description
Use the following hardware device	Select the relay to control.
Turn Relay On	Select to turn the relay on.
Turn Relay Off	Select to turn the relay off.
Toggle Relay	Select to change the state of the relay.
Relay #	Define the address on the relay board to control.
Restore state	Define when the relay remains in the state before resetting.



Rule

Setting	Description
Enable rule	Select to enable a rule.
Disable rule	Select to disable a rule.
Toggle rule	Select to toggle a rule.
Choose a rule	Select the rule.

Run Program

Symphony can run third-party applications when an alarm occurs.

Setting	Description
Working Directory	Specify the folder that contains the application or batch file. For example, C:\Program Files\Senstar\Symphony_bin.
Executable Name	Specify the path of the application executable file (for applications) or the command prompt executable file (for batch files). For example, C: \Windows\System32\cmd.exe.
Arguments	Type /C and the batch file name. For example, /C RecordToggle.bat.

SMS

Symphony can send SMS messages when an alarm occurs. The modem that Symphony uses to send SMS messages must support protocol data unit (PDU) mode.

Setting	Description
COM Port	Specify the COM port that Symphony uses to connect to the modem.
Baud Rate	Specify the baud rate for the connection to the modem.
Phone Numbers	Type the phone numbers to which Symphony sends the SMS message. You can type multiple phone numbers by pressing Enter after typing a phone number.
Message	Type the message that Symphony sends when the alarm occurs.

TCP

Symphony can send a TCP message when an alarm occurs.

Setting	Description
Address	Specify the IP address of the recipient of the TCP message.
Port	Specify the port that the recipient uses for TCP.





Setting	Description
Message	Type the message that Symphony sends.

Zoom

Symphony can send commands to PTZ cameras when an alarm occurs.

Setting	Description
Auto-tracking	Select to make the PTZ camera track the object that triggers the alarm.
Force a PTZ camera to a location	Select to force a PTZ camera to a specific camera.
Camera	Select the camera that move to the location.
Get the current location	Click to populate the Pan, Tilt, and Zoom fields with the current pan, tilt, and zoom from the camera.
Pan	Specify the pan for the camera.
Tilt	Specify the tilt for the camera.
Zoom	Specify the zoom for the camera.
Seconds to stay at location when auto-tracking is disabled	Specify how long the camera should stay at the location when auto-tracking is not active.
Minimum seconds between activations of this rule	Specify how much time must elapse before Symphony can trigger this action when auto-tracking is active.

Edit an action set

You can edit an action set to change what actions Symphony takes when a rule is triggered.

- In the server configuration interface, click Rules > Action Sets.
- 2. Select an action set.
- 3. Click Edit.
- 4. Modify the action set.
- 5. Click Save.

Delete an action set

You can delete an action set to remove it from Symphony.

If the action set is associated with a rule, you will see an additional warning message and a request for confirmation when deleting an action set. If you choose to remove the action set in this case, the rule will not function as expected.

- 1. In the Symphony server configuration interface, click **Rules > Action Sets**.
- 2. Select an action set.
- 3. Click Delete.
- 4. Click Yes.



Schedules

Schedules determine when rules is active in Symphony.

You can create a schedule as part of the rule creation process or independently in the server configuration interface. Schedules use half hour blocks and support daily exceptions that can recur every year.

Create a schedule

You can create a schedule to determine when a rule is active.

- 1. In the server configuration interface, click **Rules > Schedules**.
- Click Add Schedule.
- 3. Type a name for the schedule.
- 4. Define the active and inactive times for the schedule.
- 5. If required, add exceptions to the schedule.
 - a) Select a date.
 - b) Select whether to repeat the exception every year on that date.
 - c) Click Add Exception.
 - d) Define the active and inactive times for the exception.
- 6. Click Save.

Edit a schedule

You can edit a schedule to change when a rule is active.

- 1. In the server configuration interface, click **Rules** > **Schedules**.
- 2. Select a schedule.
- 3. Click Edit.
- 4. Modify the schedule.
- 5. Click Save.

Clone a schedule

You can clone a schedule to use it as a template for a new schedule.

- 1. In the server configuration interface, click **Rules > Schedules**.
- 2. Select a schedule.
- 3. Click Clone.
- 4. Modify the schedule.
- 5. Click Save.

Delete a schedule

You can delete a schedule to remove it from Symphony.

You cannot delete a schedule if it is associated with a rule.

- 1. In the Symphony server configuration interface, click **Rules > Schedules**.
- Select a schedule.
- 3. Click Delete.
- 4. Click Yes.



Licenses

License settings in Symphony allow you to view and refresh licenses.

You access the license settings on the Licenses tab in the server configuration interface.

The Properties section displays the characteristics of your Symphony Server license. The section displays the date at which the license expires and the software version to which the license applies.

The Licenses in Farm section displays the video analytic licenses, the camera licenses, and the MAC addresses of servers that are permitted in the server farm.

The Unlicensed Devices section displays the cameras on the network that do not have an associated license.

Refresh licenses

You can refresh your licenses to check for newer versions from Xnet or to manually apply updates.

- 1. In the server configuration interface, click **Licenses**.
- 2. Click Refresh Licenses.
- 3. Perform one of the following tasks:
 - a) To refresh the licenses from Xnet, select.
 - b) To refresh the license from a file, select **Refresh license from file**, browse to the license file or drag the license file into the window.
- 4. Click OK.

Show license XML

You can view the XML for your license.

- 1. In the server configuration interface, click Licenses.
- 2. Click Show Raw License.

Settings

Settings in Symphony allow you to configure servers, general settings, email notifications, health monitoring, Enterprise Manager, updates, and backup and restore.

You access the settings on the Settings tab in the server configuration interface. The Settings tab includes the Servers, General Settings, Notifications, Cloud Services, Maintenance, and Backup & Restore tabs.

Servers

The Servers tab in the server configuration interface is the interface for configuring settings specific to individual Symphony Server instances in the server farm.

Configure video storage for a server

You can configure how a Symphony Server stores and maintains video footage.

You can configure where Symphony stores video footage, how much video footage Symphony stores, and under which conditions Symphony erases video footage. In addition, you can specify backup locations for video footage.

- 1. In the server configuration interface, click **Settings** > **Servers**.
- 2. Select a server and click Edit.
- 3. To specify a storage path, complete the following tasks in the Video Storage section:
 - a) Specify the path to which Symphony should save footage files.



- b) To add another storage path, click **Add Another Path** and specify the path.
- c) To save footage files to only one storage path, select **Failover**.
 - Symphony attempts to save footage files to the first path in the list. If that path is not available, Symphony attempts to save footage files to the next path in the list.
- d) To save footage files to all storage paths, select **Redundant**.
- e) Select the path from which Symphony should read footage files in the Force disk reads from.
- 4. To specify a secondary (archive) storage path, complete the following tasks:
 - a) Select Archive video to secondary storage path.
 - b) Type the path to which Symphony should save footage files.
 - You must type a secondary (archive) storage path for each of the primary storage paths.
 - c) In the **Days to store before archiving** field, set how many days must occur before Symphony saves the footage files to the secondary (archive) storage path.
 - This value must be less than the **Limit the number of days video is stored** value.
- 5. To set a limit based on the amount of disk space left, set the disk space in the **MB** field or the percentage of disk space in the **%** field.
- 6. To set the maximum number of days for which Symphony can retain footage files, select **Limit the number of days video is stored** and set the number of days.
- 7. To retain metadata after Symphony deletes footage files, select **Keep metadata longer** and set the number of days.
- 8. To copy footage files generated during a failover back to the restored primary server from the redundant server, select **SAN Failover mode: Copy files to owner server**.
 - Both the primary server and redundant server must have read and write permission for the storage paths on each server.
- In the Cameras list, define any storage paths specific to cameras.
 By default, Symphony saves footage files from all cameras to the storage paths.
- 10. Click Save.

Configure overload protection

You can configure a Symphony Server to move cameras to another server when the CPU load grows too great.

- 1. In the server configuration interface, click **Settings** > **Servers**.
- 2. Select a server.
- 3. Click Overload Protection.
- 4. Select whether to move cameras to a different server when the CPU load is too high.
- 5. Select whether to use redundant servers.
- 6. Set the CPU threshold (in percent).
- 7. Set the polling frequency (in seconds).
- 8. Set the maximum number of cameras to move to the new server.
- Click Save.

Move cameras

You can move all of the cameras from one Symphony Server to a different Symphony Server in your server farm.

You can only move all cameras from one to server to another server if the destination server does not have any cameras associated with it.

- 1. In the server configuration interface, click **Settings** > **Servers**.
- 2. Select the server from which to move cameras.



- 3. Select the server to which to move the cameras.
- 4. Click Swap Servers

General

The General Settings tab in the server configuration interface is the interface for configuring settings that apply to all of the Symphony Server instances in the server farm.

Configure video storage for a server farm

You can set a global video storage setting for a Symphony Server farm.

The global setting takes effect when you do not configure video storage settings for individual Symphony Server instances.

- 1. In the server configuration interface, click **Settings** > **General Settings**.
- 2. In the Video Storage section, select Limit the number of days video is stored.
- 3. Set the maximum number of days to save video.
- 4. To keep video metadata after the video is deleted, select **Keep metadata longer**.
- 5. Set the maximum number of days to save video metadata.
- 6. Click Save.

Configure SNMP

You can configure Symphony to send SNMP data to a SNMP client.

- 1. In the server configuration interface, click **Settings** > **General Settings**.
- 2. Select Enable SNMP.
- 3. In the Data polling rate, set how often (in seconds) SNMP sub-agents poll for data.
- 4. In the Footage size polling set how often (in seconds) Symphony updates the size of the footage.
- 5. Click Save.
- 6. Restart the Symphony services.
- 7. Configure the Windows SNMP Agent Service on the computer that hosts the Symphony Server.

SNMP object identifiers

Server information

Object	Description
serverId	This object is the unique identifier of the Symphony Server.
serverName	This object is the name of the Symphony Server.

Version information

Object	Description
serverVersion	This object is the assembly version of the Symphony Server software.
webserviceVersion	This object is the version of the Symphony Web service protocol.
cameraMessageVersion	This object is the version of the Symphony camera message protocol.



Object	Description
streamingVersion	This object is the version of the Symphony streaming protocol.

Client bandwidth

Object	Description
connectedClientNumber	This object is the number of Symphony Client instances that are connected to the Symphony Server.
connectedClientIndex	This object is the unique identifier of the Symphony Client.
connectedClientIpAddress	This object is the IP address of the Symphony Client.
connectedClientUsername	This object is the username that the Symphony Client uses to connect to the Symphony Server.
connectedClientDuration	This object is how long the Symphony Client has been connected to the Symphony Server.
connectedClientDataReceived	This object is how much data (in kilobytes) the Symphony Client has received from the Symphony Server.
connectedClientCurrentBandwidth	This object is the amount of data (in kilobytes per second) transmitted between the Symphony Client and the Symphony Server.

Camera information

Object	Description
cameraNumber	This object is the number of cameras that are connected to the Symphony Server.
cameraId	This object is the unique identifier for the camera.
cameraName	This object is the name of the camera.
footagePath	This object is the storage path for footage from the camera.
footageSize	This object is the size (in bytes) of the footage at the storage path.

Storage information

Object	Description
storagePoolNumber	This object is the number of storage pools that are connected to the Symphony Server.
storagePath	This object is the path of the storage pool.
storageCapacity	This object is the total capacity (in megabytes) of the storage pool.





Object	Description
storagePercentAvailable	This object is the available capacity (in megabytes) of the storage pool.
storageFootageSize	This object is the size (in megabytes) of the footage in the storage pool.
storageFootageFiles	This object is the number of footage files in the storage pool.

Service information

Object	Description
infoServiceStatus	This object is the status of the InfoService service.
netSendHistStatus	This object is the status of the NetSendHist service.
schedulerStatus	This object is the status of the Scheduler service.
trackNumber	This object is the number of active Tracker services.
trackerId	This object is the unique identifier for the Tracker service.
trackerStatus	This object is the status of the Tracker service.

Login monitor information

Object	Description
authorizedLoginNotif	This object is the notification sent when a login is successful.
	Trap
unauthorizedLoginNotif	This object is the notification sent when a login is unsuccessful.
	Trap
loginNotifyIpAddress	This object is the IP address of the Symphony Client.
loginNotifyUsername	This object is the username that the Symphony Client used to connect to the Symphony Server.
loginNotificationMessage	This object is the additional details about the login.

Alarm monitor information

Object	Description
alarmNotif	This object is the notification sent when an alarm occurs.
	Trap
alarmNotifyCameraId	This object is the identifier of the camera that recorded the alarm.





Object	Description
alarmNotifyCameraName	This object is the name of the camera that recorded the alarm.
alarmNotifyUserId	This object is the identifier of the user who marked the alarm.
alarmNotifyUserName	This object is the name of the user who marked the alarm.
alarmNotifyMarkedDelay	This object is the time at which the alarm was marked.
alarmNotifyFalseAlarm	This object is whether the alarm is a false alarm.
alarmNotifyRuleId	This object is the identifier of the rule causing the alarm.
alarmNotifyRuleName	This object is the name of the rule causing the alarm.
alarmNotifyDBId	This object is the identifier of the alarm.
alarmNotifyComment	This object is the comment associated with that alarm.
alarmNotifyMSSinceChange	This object is the milliseconds between when the alarm occurred and when it was detected.

Device Movement monitor information

Object	Description
devicesMovedNotif	This object is the notification sent when a device moves from one server to another server. Trap
sourceServerId	This object is the identifier of the server from which the device moved.
destinationServerId	This object is the identifier of the server to which the device moved.
numberDevicesMoved	This object is the number of devices that moved from the source server to the destination server.

Health monitor information

Object	Description
healthMonitorFaultNotification	This object is the notification sent when the health monitor detects a fault.
	Trap
healthMonitorActionNotification	This object is the notification sent when the health monitor takes an action in response to a fault.
	Trap
healthMonitorName	This object is the name of the associated health monitor.





Object	Description
healthMonitorAction	This object is the action that the health monitor took in response to a fault.

Configure mobile connections

You can configure Symphony to support connections with Symphony mobile applications on mobile devices.

The mobile connections functionality in Symphony replaces the Mobile Bridge standalone application. For more information on the Mobile Bridge standalone application, see the *Symphony Mobile Bridge Installation Guide*.

- 1. In the server configuration interface, click **Settings** > **General Settings**.
- 2. Navigate to the Mobile Connections section.
- 3. To select the SSL certificate, click Change, select the certificate, and click OK.
- 4. In the Mobile Port field, set the port that Symphony uses to listen for requests from mobile devices.
- 5. In the **Video Proxy Port** field, set the port that Symphony uses to stream video to and receive video from mobile devices.
- 6. To allow Symphony to send push notifications to iOS devices, select **Enable iOS Notifications**.
- 7. Click Save.

General settings

Video

Setting	Description
Time based video playback restriction applied at	This setting determines how long (in minutes) after video is recorded that a user can view the video in the Symphony Client.

Video storage

Setting	Description	
Limit the number of days video is stored	This setting determines whether Symphony deletes video older than the set number of days.	
Keep metadata longer	This setting determines whether Symphony retains metadata from video for the set number of days after it deletes the video.	

Video decorations

Setting	Description	
Frame rate stats	This setting determines whether the frame rate (in frames per second) appears in video.	
Frame rate variance	This setting determines whether the frame rate variance decoration appears in the video. The frame rate variance decorations show how much the frame rate changes over the last 50 frames.	



Setting	Description	
Overlay camera name on video	This setting determines whether the camera name appears in video.	
Overlay camera ID on video	This setting determines whether the camera ID appears in video.	
Overlay logo on video	This setting determines whether a custom logo appears in video.	
Decoration Text Color	This setting determines the color of the text for decorations.	
Background sensitive	This setting determines whether the text color for decorations automatically adjusts to the colors in the video to provide more contrast.	
Decoration Text Background	This setting determines the color of the background for decoration text.	
Transparency	This setting determines the transparency of the background for decoration text.	

Event log

Setting	Description	
Enable Event Log	This setting determines whether Symphony logs events.	
Never archive logs	This setting prevents Symphony from archiving event logs.	
Archive logs weekly	This setting causes Symphony to archive event logs every week.	
Event archive retention	This setting determines how long (in days) Symphony retains archived event logs.	

SNMP

Setting	Description	
Enable SNMP	The setting determines whether SNMP is enabled.	
Data polling rate	This setting determines how often (in seconds) the SNMP agent po Symphony for data.	
Footage size polling rate	This setting determines how often (in seconds) the SNMP agent po Symphony for the size of video footage.	

Web Client

Setting	Description	
	This setting determines if the master Symphony Server redirects users to other servers in the server farm. This provides load balancing for the Web Client.	



Setting	Description	
Refresh rate	This setting determines how often the Web Client updates information from Symphony.	
Use an ICE Server	This setting determines if you are using an ICE server with the Web Client.	
Туре	This setting determines what type of an ICE Server you are using, STUN or TURN.	
URL	This setting is the URL of the ICE Server.	
Username	This setting is the user name for the ICE Server.	
Password	This setting is the password for the ICE Server.	

SMTP

Setting	Description	
SMTP server	This setting is the URL of the SMTP server.	
Use Secure Sockets Layer	This setting determines whether Symphony uses SSL for communication with the SMTP server.	
Sender email account	This setting defines the email account that Symphony uses to send email.	
SMTP server requires authentication	This setting determines whether the SMTP requires authentication.	
Username	This setting is the user name that Symphony uses to authenticate with the SMTP server.	
Password	This setting is the password that Symphony uses to authenticate with the SMTP server.	
Send a test email to address	This setting allows you to test the SMTP settings. Type an email address and click Send Test to send a test email.	

User Connections

Setting	Description	
Do not allow more than one concurrent connection per user	This setting determines if users can log in to more than one server configuration interface concurrently per server farm.	
Automatically log out inactive Server Configuration users	This setting determines if Symphony automatically logs users out of the server configuration interface after a period of inactivity.	
Minutes of Inactivity	This setting determines the timeout period for the server configuration interface.	



Farm Location

Setting	Description	
GPS Latitude	This is the latitudinal coordinate of the Symphony server farm.	
GPS Longitude	This is the longitudinal coordinate of the Symphony server farm.	

Mobile Connections

Setting	Description	
SSL Certificate	This setting displays the SSL certificate that Symphony uses to communicate with mobile devices.	
Mobile Port	This setting determines the port that Symphony uses to communicate with mobile devices.	
Video Proxy Port	This setting determines the port that Symphony uses for sending video to and retrieving video from mobile devices.	
Enable iOS Notifications	This setting determines whether push notifications are enabled for iOS devices.	

Notifications

The Notifications tab in the server configuration interface is the interface for configuring event notifications from the server farm.

Configure notifications

You can configure Symphony to send notifications when users perform specific action in the server configuration interface and client interface.

Before you begin:

Configure SMTP for Symphony

These notifications are different from the notifications that events trigger.

- 1. In the server configuration interface, click **Settings** > **Notifications**.
- 2. For each event for which you want Symphony to send a notification, type an email address. To add multiple email addresses, separate each email address with a semi-colon (;).
- 3. Click Save.

Cloud services

The Cloud Services tab in the server configuration interface is the interface for configuring additional cloud services that provide additional functionality for the server farm.

Turn on health monitoring

If you purchased the Maintenance and Support option with your Symphony Server license, you can turn on health monitoring.

Health monitoring sends telemetry data from the Symphony Server to Xnet. You can log in to Xnet and view the status of all Symphony services.



- 1. In the server configuration interface, click **Settings** > **Cloud Services**.
- 2. Move the **Health Monitoring** toggle switch to **On**.

To turn off health monitoring, move the **Health Monitoring** toggle switch to **Off**.

Manage Symphony with Enterprise Manager

You can manage your Symphony Server or server farm using Enterprise Manager.

- Warning: If you have created users or groups in Symphony, those users and groups are replaced with the users from Enterprise Manager when you add the Symphony Server to Enterprise Manager. This includes administrator users. We recommend that you back up your configuration settings or database before you manage your server or server farm with Enterprise Manager.
- 1. In the server configuration interface, click **Settings** > **Cloud Services**.
- 2. Move the Enterprise Manager toggle switch to On.
- 3. In the **Address** field, type the IP address of Enterprise Manager.
- In the Site Name field, type a name for the site.
 Enterprise Manager uses this site name to identify the server or server farm.
- 5. In the Organization Name field, type your Enterprise Manager organization name.
- 6. In the Passphrase field, type your Enterprise Manager password.
- 7. Click Save.

Maintenance

The Maintenance tab in the server configuration interface is the interface for configuring updates for the Symphony Client.

Configure automatic server updates

The Symphony Server can perform automatic updates.

- 1. In the server configuration interface, click **Settings** > **Maintenance**.
- In the Server Updates section, select Enable automatic updates.
- 3. Specify when to download and install the update.
- 4. Perform one of the following actions:
 - To update from a specific location, select **Update from the following location** and type the file path.
 - To update from the Internet, select Update from product web site.
- Click Save.

Check for server updates

In you have a standalone Symphony Server (single-server farm), you can manually check for software updates.

This feature is not available in multi-server farms.

- 1. In the server configuration interface, click **Settings** > **Maintenance**.
- 2. In the Server Updates section, click Check for Updates.
- 3. If there are updates and you want to apply the updates, click **Yes**. The Symphony Server starts downloading and installing updates.
- Click Close.
- 5. Click Close again.
- 6. Wait 20 minutes and then log in to the server configuration interface.



Configure client updates

You can configure when the Symphony Client applies updates.

- 1. In the server configuration interface, click **Settings** > **Maintenance**.
- 2. In the **Client Updates** section, select one of the following options:
 - To update the Symphony Client as soon as an update is available, select Immediately.
 - To update the Symphony Client at a specific time, select **During time frame** and set the time during which to apply the updates.
- Click Save.

Backup and restore

The Backup & Restore tab in the server configuration interface is the interface for configuring backing up and restoring configurations.

Configure backups

You can back up the Symphony Server configuration.

By default, the Symphony Server creates a backup file automatically at 11:00 PM to the local backup path.

- In the server configuration interface, click Settings > Backup & Restore.
- 2. In the **Backup configuration daily at** field, type the time at which you want the Symphony Server to create a backup file.
- 3. In the **Local backup path** field, type the path to which the Symphony Server saves the backup file. For a server farm, type a network path that is available to all servers in the server farm.
- 4. To backup the server to Xnet, turn **Enable online backup** on.
 - Note: This feature requires a Maintenance & Support license.
- To test your configuration, click Test configuration.
- 6. To create a backup, click Back up now.

Restore from a local backup

You can restore configuration settings for a Symphony Server from the local backup path.

- 1. In the server configuration interface, click **Settings** > **Backup & Restore**.
- 2. To restore the configuration settings from a Symphony Server that is not part of the server farm, select **Restore backup from different hardware**, **excluding license**.
- Click the Restore local backup tab.
- 4. To show compatible backup files in the local path, select **Show only compatible versions**.
- 5. Select the backup file.
- 6. Click Restore.

Restore from online backup

You can restore configuration settings for a Symphony Server from the Xnet.

- Note: This feature requires a Maintenance & Support license.
- 1. In the server configuration interface, click **Settings** > **Backup & Restore**.
- Click the Restore online backup.
- 3. To show compatible backup files in the local path, select **Show only compatible versions**.
- Select the backup file.



Click Restore.

Restore from file

You can restore configuration settings for a Symphony Server from a file.

- In the server configuration interface, click Settings > Backup & Restore.
- 2. To restore the configuration settings from a Symphony Server that is not part of the server farm, select **Restore backup from different hardware, excluding license**.
- 3. Click the **Restore from file**.
- 4. Drag the file into the interface or browse to the backup file.
- Click Restore.

Analytics

Symphony video analytics provide real-time alerts, smart video search, and reporting in Symphony.

To use a video analytic, you purchase the appropriate license and install the analytic package on the computer hosting the Symphony Server. Once installed, you can enable the video analytic on a camera.

	Name	Туре	Description
OFF	TCP Listener	Other	Accepts metadata into Symphony.
OFF	Analog Video Signal Loss	PC Analytic	Detects if the video input is one solid colour which may indicate signal loss.
OFF	Automatic License Plate Recognition - Core	PC Analytic	(BETA) Recognition of license plates from various regions.
OFF	Camera Tampering	PC Analytic	Detects if the video has been compromised (field of view obstruction, spray painted lens, camera position altered).
CITE	Crowd Detection	PC Analytic	Detects size and density of crowds of people
OFF	Image Stabilization	PC Analytic	Stabilize the video stream, when experiencing small movements, for use with another video analytic add-on.
OFF	Indoor People Tracking	PC Analytic	Can be used for robust people tracking in indoor environments.
CFF	Left and Removed Item Detection	PC Analytic	Detects left or removed items
OFF	Motion Detection	PC Analytic	Detects pixel changes in the scene.
OFF	Outdoor People and Vehicle Tracking	PC Analytic	Can be used for robust people and vehicle tracking in outdoor environments.

Add a video analytic license to a camera

To use a video analytic on a camera, you must add a license that includes the video analytic to the camera.

Before you begin:

- Purchase a license for the video analytic.
- Download and install the video analytic.
- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select a camera.
- Click Edit.
- 4. In the Add-Ons section, select an appropriate license in the Analytic License Requested list.
- 5. Click Update License.

TCP Listener

The Senstar TCP Listener is a video analytic that listens for incoming metadata over a TCP socket and associates the metadata with an image or video.

Symphony can use the metadata to search for images and video.

Configure TCP Listener

In the server configuration interface, click Devices > Cameras.



- Select the camera and click Edit.
- In the Add-Ons list, turn TCP Listener on.
- 4. Click Save.

Create an event

- 1. In the Symphony server configuration interface, click **Rules > Events**.
- Click New Event.
- 3. Type a name for the event.
- To add a device, perform the following steps:
 - a) Click Add Devices.
 - b) Select the device.
 - c) Click OK.
- 5. In the video engine list, select **TCP Listener**.
- 6. Select whether to alarm on any metadata or specific metadata.
- 7. If you select to alarm on specific metadata, type the text.
- 8. Click Save.

Analog Video Signal Loss

Senstar Analog Video Signal Loss is a video analytic that can detect when video from a camera is unavailable.

This video analytic does not require configuration and uses minimal CPU resources. It is recommended for all cameras.

Automatic License Plate Recognition

Senstar Automatic License Plate Recognition is an analytic pack for Senstar Symphony that can detect and index license plates.

Automatic License Plate Recognition can recognize and log license plates from different countries and regions on vehicles traveling up to 30 kph (19 mph). It can analyze video in real time without requiring an external trigger.

With Automatic License Plate Recognition, a 720p network camera can analyze up to two lanes of traffic if the license plate images are at least 32 pixels in height for Latin characters or 40 pixels in height for non-Latin characters.

Typical uses for Automatic License Plate Recognition include:

- Toll collection in parking garages
- Traffic control
- Border crossings
- Pattern of use analysis

Configure Automatic License Plate Recognition

Configure the Automatic License Plate Recognition video analytic for each camera that runs the video analytic.

- 1. In the Symphony server configuration interface, click **Devices > Cameras**.
- 2. Select the camera on which you want to run Automatic License Plate Recognition and click Edit.
- 3. In the Add-Ons section, click the button beside Automatic License Plate Recognition to turn it on.
- 4. Click the **Configure** button beside Automatic License Plate Recognition.



- 5. In the **Overview** section, configure analysis options and select whether the advanced options are hidden (simple mode on) or visible (simple mode off).
- 6. If the image in the **Processing Mask** and **Plate Detection** sections do not include an image that is suitable for license plate detection, update the image.
 - a) Click Change Image.
 - b) In the Web Access interface, use the timeline and video controls to navigate to an image that is suitable for license plate detection.
 - c) Click Select.
- 7. In the **Processing Mask** image, define the areas that the video analytic analyzes and ignores.
 - a) In the **Drawing Mode** list, select whether to draw an area to analyze or ignore.
 - b) Using the Size slider, select the size of drawing circle.
 - On the image, click and drag the drawing circle to define the areas to analyze or ignore.
- 8. In the **Plate Detection** image, draw a frame around the license plate so that the edges of the text on the license plate fall within the green frame.
 - a) Click and drag the frame on the image.
 - b) To move the frame, click in the middle of the green frame and drag the frame.
 - c) To change the size of the frame, click an edge of the frame and drag the line to change the size.
 - d) To adjust the slant and slope of the frame, click a corner of the frame and drag the corner to change the slant or slope.
- 9. Using the **Reporting Confidence** slider, select how sensitive the video analytic is to potential license plates.
- 10. Click **OK**.

Settings

Overview

Setting	Description
Analysis Resolution	Select the resolution that the Automatic License Plate Recognition video analytic uses to analyze video frames.
Analysis FPS	Select the number of frames per second that the video analytic uses to analyze video.
Simple Mode	Turn off to make the advanced settings visible.
Region For Plate Analysis	Select the regional engine that the video analytic uses to analyze the license plates that this camera detects. The list includes the regions that you select during installation.
V9 Dongle	Select this option if you are using a new license with the Default or China engine.
Enable with Motion Detection	Select this option to only perform analysis when the camera detects motion.
Enable with Relay	Select this option to only perform analysis when a relay device records an input event. When you select this option, additional fields appear that allow you to select the relay and configure how the video analytic responds to the input event.



Processing Mask

Setting	Description
Drawing Mode	Select whether to draw areas to analyze or ignore on the processing mask.
Size	Define the size of the circle to draw on the processing mask.

Plate Detection

Use the plate detection image to draw a frame around the license plate in an image that represents a typical license detection situation. The frame can only surround one line of characters and outside boundaries of the characters should fall within the green frame.

This is an example of a good plate detection frame:





This is an example of a poor plate detection frame:





Setting	Description
Reporting Confidence	Use the slider bar to define how sensitive the video analytic is. The reporting confidence is 50% by default. A lower reporting confidence results in more detection and might affect performance.
Minimum height	This field displays the height of the inner rectangle.
Maximum height	This field displays the height of the outer rectangle.
Minimum width	This field displays the width of the inner rectangle. This setting is only available for Automatic License Plate Recognition Core.



Setting	Description
Maximum width	This field displays the width of the outer rectangle.
	This setting is only available for Automatic License Plate Recognition Core.
Minimum slant	This field displays the minimum slant of the vertical lines.
	This setting is only available for Automatic License Plate Recognition Peripheral.
Maximum slant	This field displays the maximum slant of the vertical lines.
	This setting is only available for Automatic License Plate Recognition Peripheral.
Minimum slope	This field displays the minimum slope of the horizontal lines.
	This setting is only available for Automatic License Plate Recognition Peripheral.
Maximum slope	This field displays the maximum slope of the horizontal lines.
	This setting is only available for Automatic License Plate Recognition Peripheral.

Advanced

The settings below are advanced settings and any changes could adversely affect the performance of the video analytic.

Setting	Description
Minimum plate length	Define the minimum number of characters that the video analytic must detect before it recognizes the text as a potential license plate.
Plate dwell time	Define the time (in seconds) that a potential license plate must be visible before the video analytic begins analyzing the potential license plate.
Queue time	Define how much video the video analytic retains for analysis. Frames that fall outside of the queue time are ignored by the video analytic.
Analysis timeout	Define how much time can elapse before the video analytic stops processing a license plate.
Plate display time	Define how long the video analytic displays the license plate decoration in the client interface.
Import XML	Click this button to import a configuration XML file.
Export XML	Click this button to export the configuration XML file.
Show XML	Click this button to display the configuration XML.



Camera Tampering

Senstar Camera Tampering is a video analytic that can detect when a camera's field of view is obstructed.

For example, the Camera Tampering video analytic can detect when the lens of a camera is covered in spray paint, when a camera is moved, or when a large object is place in front of a camera.

Configure Camera Tampering

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select the camera and click Edit.
- 3. In the Add-Ons list, turn Camera Tampering on and click Configure.

Settings

Setting	Description
Analysis Resolution	Set the resolution for the camera on which Camera Tampering is active.
Simple Mode	Select whether to hide or display the advanced settings. Simple mode is the default mode. Advanced mode is intended for system integrators and technical support staff.
Minimum tampering time threshold	Set how long a camera must be blocked before it triggers an alarm.

Crowd Detection

Senstar Crowd Detection is a video analytic that offers crowd detection, event triggering, and alarms for Symphony.

You can define the area that Crowd Detection monitors for the number of people in the monitored area (capacity) and the percentage of the monitored area with people (occupancy). Crowd Detection can trigger alarms when it detects a specific capacity or occupancy.

Configure Crowd Detection

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select the camera and click Edit.
- 3. In the Add-Ons list, turn Crowd Detection on and click Configure.

Settings

Overview

Setting	Description
Analysis Resolution	Set the resolution for the camera on which Crowd Detection is active.
Automatically Select Resolution Based on Calibration	Select to automatically set the analysis resolution based on the settings in the Calibration section.
Analysis FPS	Set the frames per second for the camera on which Crowd Detection is active.



Setting	Description
Simple Mode	Select whether to hide or display the advanced settings.

Processing Mask

Setting	Description
Drawing Mode	Select whether the paintbrush marks areas in the processing mask image to include (Analyze) or exclude (Ignore).
Size	Select the size of the paintbrush that you use in the processing mask image.

Capacity

Setting	Description
Maximum Capacity	Use the slider to define the maximum capacity for the scene.

Calibration

Setting	Description
Туре	Select the type of calibration. Manual allows you to set the camera position. Automatic allows the video analytic to set the camera position and field of view. Uncalibrated runs the video analytic without camera position and field of view information.
Zoom In	Click to make the calibration diagram larger.
Zoom Out	Click to make the calibration smaller.
Field of view (degrees)	Define the horizontal field of view (in degrees) for the camera.
Pan (degrees)	Define the rotation around the vertical axis of the camera in relation to the scene.
Twist (degrees)	Define the rotation around the horizontal axis of the camera in relation to the scene.
Height (meters)	Define the vertical distance from the camera to the ground.
Distance (meters)	Define the horizontal distance from the camera to the center of the scene.

Sensitivity

Setting	Description
Occupancy	Use the slider to set how sensitive Crowd Detection is to the area occupied by people.



Setting	Description
Capacity	Use the slider to set how sensitive Crowd Detection is to the number of people in the scene.

Image Stabilization

Senstar Image Stabilization is a video analytic that can stabilize video when a camera experiences vibrations or other small movements.

This video analytic is beneficial when you use it to supplement other video analytic. This video analytic does not require configuration.

Indoor People Tracking

Senstar Indoor People Tracking is a video analytic that offers people counting, dwell-time detection, event triggering, and alarms for Symphony.

For people counting, Indoor People Tracking uses counting lines that you draw on the scene to count how many people pass through the scene.

Configure Indoor People Tracking

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select the camera and click Edit.
- 3. In the Add-Ons list, turn Indoor People Tracking on and click Configure.

Settings

Overview

Setting	Description
Analysis Resolution	Set the resolution for the camera on which Indoor People Tracking is active.
Automatically Select Resolution Based on Calibration	Select to automatically set the analysis resolution based on the settings in the Calibration section.
Analysis FPS	Set the frames per second for the camera on which Indoor People Tracking is active.
Simple Mode	Select whether to hide or display the advanced settings. Simple mode is the default mode. Advanced mode is intended for system integrators and technical support staff.

Processing Mask

Setting	Description
Drawing Mode	Select whether the paintbrush marks areas in the processing mask image to include (Analyze) or exclude (Ignore).
Size	Select the size of the paintbrush that you use in the processing mask image.





Counting Line

Setting	Description
Create	On the image, click and hold the left mouse button, move the mouse to draw the new counting line, and release the left mouse button.
Delete	Click a counting line to select it and press Delete.
Move	Hold the CTRL key, click and hold the left mouse button on the counting line endpoint, and drag the endpoint to the
Add a connected counting line	Click and hold the left mouse button on the endpoint of an existing counting line, move the mouse to draw the new counting line, and release the left mouse button.
Change the counting direction	Click an arrow on the counting line to toggle counting for that direction on and off.

Calibration

Setting	Description
Туре	Select the type of calibration. Manual allows you to set the camera position. Automatic allows the video analytic to set the camera position and field of view. Uncalibrated runs the video analytic without camera position and field of view information.
Zoom In	Click to make the calibration diagram larger.
Zoom Out	Click to make the calibration smaller.
Field of view (degrees)	Define the horizontal field of view (in degrees) for the camera.
Pan (degrees)	Define the rotation around the vertical axis of the camera in relation to the scene.
Twist (degrees)	Define the rotation around the horizontal axis of the camera in relation to the scene.
Height (meters)	Define the vertical distance from the camera to the ground.
Distance (meters)	Define the horizontal distance from the camera to the center of the scene.

Sensitivity

This section is only visible in simple mode.

Setting	Description
Object Contrast	Use the slider to set how sensitive Indoor People Tracking is to the contrast between objects and the background.





Setting	Description
Object Motion	Use the slider to set how sensitive Indoor People Tracking is to the movement of objects.
Background Motion	Use the slider to set how sensitive Indoor People Tracking is to movement in the background.
Shadow Suppression	Select this option to have Indoor People Tracking ignore the presence and movement of shadows.

Left and Removed Item Detection

Senstar Left and Removed Item Detection is a video analytic that can detect when an object is added to or removed from the scene.

Configure Left and Removed Item Detection

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select the camera and click Edit.
- 3. In the Add-Ons list, turn Left and Removed Item Detection on and click Configure.

Settings

Overview

Setting	Description
Analysis Resolution	Set the resolution for the camera on which Left and Removed Item Detection is active.
Automatically Select Resolution Based on Calibration	Select to automatically set the analysis resolution based on the settings in the Calibration section.
Analysis FPS	Set the frames per second for the camera on which Indoor People Tracking is active.
Simple Mode	Select whether to hide or display the advanced settings. Simple mode is the default mode. Advanced mode is intended for system integrators and technical support staff.

Processing Mask

Setting	Description
Drawing Mode	Select whether the paintbrush marks areas in the processing mask image to include (Analyze) or exclude (Ignore).
Size	Select the size of the paintbrush that you use in the processing mask image.





Calibration

Setting	Description
Zoom In	Click to make the calibration diagram larger.
Zoom Out	Click to make the calibration smaller.
Field of view (degrees)	Define the horizontal field of view (in degrees) for the camera.
Pan (degrees)	Define the rotation around the vertical axis of the camera in relation to the scene.
Twist (degrees)	Define the rotation around the horizontal axis of the camera in relation to the scene.
Height (meters)	Define the vertical distance from the camera to the ground.
Distance (meters)	Define the horizontal distance from the camera to the center of the scene.

Motion Detection

Senstar Motion Detection is a video analytic that offers motion detection, event triggering, and alarms for Symphony.

Configure Motion Detection

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select the camera and click Edit.
- 3. In the Add-Ons list, turn Motion Detection on and click Configure.

Settings

Overview

Setting	Description
Analysis Resolution	Set the resolution for the camera on which Motion Detection is active.
Analysis FPS	Set the frames per second for the camera on which Motion Detection is active.
Simple Mode	Select whether to hide or display the advanced settings.

Processing mask

Setting	Description
Drawing Mode	Select whether the paintbrush marks areas in the processing mask image to include (Analyze) or exclude (Ignore).



Setting	Description
Size	Select the size of the paintbrush that you use in the processing mask image.

Grid View

Setting	Description
Minimum Foreground Fill (percent)	Use the slider to define what percentage of a grid square must change for Motion Detection to detection in that grid square.
Grid Spacing	Use the slider to define the size of the grid squares.
Foreground Sensitivity	Use the slider to define how sensitive Motion Detection is to motion when determining the foreground fill.
Adjust sensitivity based on camera noise	Select to automatically change the foreground sensitivity to accommodate random variations or brightness or color from the camera.

Outdoor People and Vehicle Tracking

Senstar Outdoor People and Vehicle Tracking is a video analytic that offers people and vehicle detection in outdoor environments with weather and lighting changes.

Configure Outdoor People and Vehicle Tracking

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select the camera and click Edit.
- 3. In the Add-Ons list, turn Outdoor People and Vehicle Tracking on and click Configure.
- 4. Configure the video analytic.
- 5. Click Save.

Settings

Overview

Setting	Description
Analysis Resolution	Set the resolution for the camera on which Outdoor People and Vehicle Tracking is active.
Automatically Select Resolution Based on Calibration	Select to automatically set the analysis resolution based on the settings in the Calibration section.
Analysis FPS	Set the frames per second for the camera on which Outdoor People and Vehicle Tracking is active.
Simple Mode	Select whether to hide or display the advanced settings.



Processing mask

Setting	Description
Drawing Mode	Select whether the paintbrush marks areas in the processing mask image to include (Analyze) or exclude (Ignore).
Size	Select the size of the paintbrush that you use in the processing mask image.

Calibration

Setting	Description
Туре	Select the type of calibration. Manual allows you to set the camera position. Automatic allows the video analytic to set the camera position and field of view. Uncalibrated runs the video analytic without camera position and field of view information.
Zoom In	Click to make the calibration diagram larger.
Zoom Out	Click to make the calibration smaller.
Field of view (degrees)	Define the horizontal field of view (in degrees) for the camera.
Pan (degrees)	Define the rotation around the vertical axis of the camera in relation to the scene.
Twist (degrees)	Define the rotation around the horizontal axis of the camera in relation to the scene.
Height (meters)	Define the vertical distance from the camera to the ground.
Distance (meters)	Define the horizontal distance from the camera to the center of the scene.

Sensitivity

Setting	Description
Object Contrast	Use the slider to set how sensitive Outdoor People and Vehicle Tracking is to differences between objects and the background.
Object Motion	Use the slider to set how sensitive Outdoor People and Vehicle Tracking is to foreground motion when detecting objects.
Background Motion	Use the slider to set how sensitive Outdoor People and Vehicle Tracking is to background motion when detecting objects.
Shadow Suppression (Simple)	Select to use simple shadow suppression. Simple shadow suppression is effective where there are light shadows in the scene.
Shadow Suppression (Complex)	Select to use complex shadow suppression. Complex shadow suppression in effective when there are dark shadows in the scene.



Setting	Description
Snow Suppression	Select to have Outdoor People and Vehicle Tracking ignore the motion of snow in the scene.
Dynamic Background	Select to have Outdoor People and Vehicle Tracking ignore periodic movement in the scene. This setting is effective for outdoor scenes where weather can cause motion in the background.
Detect Distant Objects	Select to have Outdoor People and Vehicle Tracking attempt to detect objects in the distance.

PTZ Auto-Tracking

Senstar PTZ Auto-Tracking is a video analytic that can automatically control PTZ cameras when activity is detected.

PTZ Auto-Tracking requires that Indoor People Tracking or Outdoor People and Vehicle Tracking is active on the camera. You can add PTZ Auto-Tracking as an action for a rule.

Configure PTZ Auto-Tracking

- 1. In the server configuration interface, click **Devices > Cameras**.
- 2. Select the camera and click Edit.
- 3. Turn on and configure either Indoor People Tracking or Outdoor People and Vehicle Tracking for the camera.
- 4. In the Add-Ons list, turn PTZ Auto-Tracking on and click Configure.
- 5. Configure the video analytic.
- 6. Click Save.

Settings

Overview

Setting	Description
Analysis Resolution	Set the resolution for the camera on which PTZ Auto-Tracking is active.
Analysis FPS	Set the frames per second for the camera on which PTZ Auto- Tracking is active.
Simple Mode	Select whether to hide or display the advanced settings. Simple mode is the default mode. Advanced mode is intended for system integrators and technical support staff.

Face Recognition

Senstar Face Recognition is a video analytic that offers facial recognition, event triggering, and alarms for Symphony.

Face Recognition uses profiles to represent individuals. Each profile can include multiple images of an individual's face. Use the Symphony client interface to create profiles, add images of faces, and set whether the profile is blocked or allowed. When Face Recognition identifies a face in video, it can trigger events in Symphony.

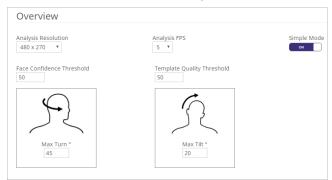


In the client interface, a blue square surrounds a tracked face and a red square surrounds a tracked face that triggers an alarm.

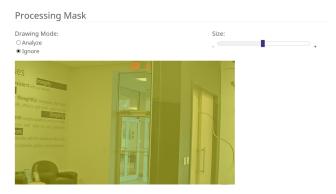
Configure Face Recognition

Configure the settings for Face Recognition in the Symphony server configuration interface.

- 1. In the Symphony server configuration interface, click **Devices** > **Cameras**.
- 2. Select the camera and click Edit.
- 3. In the Add-Ons list, turn Face Recognition on and click Configure.
- 4. In the **Overview** section, set the parameters that Face Recognition uses when detecting faces.



5. In the **Processing Mask** section, set the areas in the image that the camera ignores or analyzes.



- 6. Click Ok.
- 7. Click Save.

Settings

Overview

Setting	Description
Analysis Resolution	Set the resolution for the camera on which Face Recognition is active.
Analysis FPS	Set the frames per second for the camera on which Face Recognition is active.
Face Confidence Threshold	Set how confident Face Recognition must be that objects are faces before it tracks objects.



Setting	Description
Template Quality Threshold	Set how clear objects must be before Face Recognition tracks objects.
Max Turn	Set the horizontal angle (in degrees) from center where Face Recognition does not track objects. The recommended value is 45 degrees or less. The maximum value is 70 degrees. Max Turn ° 45
Max Tilt	Set the vertical angle (in degrees) from center where Face Recognition does not track objects. The recommended value is 20 degrees or less. The maximum value is 45 degrees. Max Tilt ° 20

Processing mask

Setting	Description
Drawing Mode	Select whether the paintbrush marks areas in the processing mask image to include (Analyze) or exclude (Ignore).
Size	Select the size of the paintbrush that you use in the processing mask image.

Calibrate a camera

For some video analytics, you must calibrate the camera to achieve optimum performance and accuracy.

- 1. In the server configuration interface, click **Devices** > **Cameras**.
- 2. Select the camera and click **Edit**.
- 3. In the **Add-Ons** list click **Configure** for the video analytic.
- 4. Click on the calibration image to place avatars on the image. The avatars help you visualize people in the sample image.
- 5. In the **Field of view** field, type the camera's field of view in degrees.



- 6. In the **Pan** field, type the angle (degrees) of horizontal rotation around the vertical access of the camera.
- 7. In the **Twist** field, type the angle (degrees) of rotation around the long axis of the camera.
- 8. In the **Calibration** section, perform one of the following tasks:
 - Click and drag the camera icon to the correct position. You can use the **Zoom In** and **Zoom Out** buttons to adjust the resolution of the calibration diagram.
 - Type the height (meters) and distance (meters) of the camera in the appropriates boxes.
- Click Save.

Server redundancy

Symphony supports server redundancy in server farms. If a Symphony Server stops responding, the camera and device processing moves to another Symphony Server.

A primary servers actively performs camera and device processing. When failover occurs, the primary server becomes a redundant server.

A redundant server does perform camera and device processing. There must be at least one redundant server available in the server farm at all times. When failover occurs, the redundant server becomes the primary server.

In addition, one server in the server farm is the master server. The master server performs the additional task of managing failover actions. If the master server is unavailable, Symphony designates another server as the master server.

Server redundancy works within redundancy groups.

Add a server to a redundancy group

You can add a server to a redundancy group or create a new redundancy group.

- 1. In the server configuration interface, click **Settings** > **Servers**.
- 2. Select a server and click Edit.
- 3. In the **Server Group** list, perform one of the following tasks:
 - To add the server to an existing redundancy group, select the group.
 - To add the server to an existing redundancy group, select <New>.
- Click Save.



Symphony Client

The Symphony Client includes functionality to monitor cameras, manage video, generate reports, and configure alarms.

The Symphony Client is automatically installed with the Symphony Server, but you can also install the Client on additional computers and connect to the Symphony Server

You can use the client interface to access the Symphony Client.

Related concepts

Introduction on page 5

Senstar Symphony is an award-winning, intelligent video surveillance software that offers a single, innovative, and open IP video platform for video management, video analytics, system integration, and alarm management.

Symphony Server on page 8

The Symphony Server includes functionality to manage devices, security, rules, sites, and settings.

Symphony Web Client on page 105

The Symphony Web Client includes functionality to monitor cameras, manage video, generate reports, and configure alarms.

Symphony Player on page 106

The Symphony Player is an application that can view video files created in the Symphony Client.

Open command

You can open the Symphony Client using a command in the command line. In addition, you can add arguments to the command that open specific cameras and, in the case of PTZ cameras, specific camera presets.

In custom application development, you can associate this command with a control to open the Client from another application.

ae.exe ai://server/camera/preset

Where:

- server is the address of the server
- camera is the ID of the camera
- preset is the preset for the PTZ camera

View log files

You can view, search, and download log files for the Symphony Client and any Symphony Servers to which the Client connects.

- 1. In the client interface, click **Help > View Detailed Logs**.
- 2. In the **Date** field, select the date for which you want to view log files.
- 3. Select a server or the client.
- Select the log file to view.
- 5. To copy the visible log file, click **Copy to Clipboard**.
- 6. To download log files, perform the following tasks:
 - a) Click Download.
 - b) Select the start and end date, or select **Download all logs from server**.
 - c) Click **Download**.
- 7. To search the visible log file, perform the following tasks:



- a) In the text field, type the search text.
- b) Click Find Next.

View events

You can view and export events for the Symphony Client and any Symphony Servers to which the Client connects.

By default, the client interface displays the events for the current day.

- 1. In the client interface, click **Help > View Detailed Events**.
- 2. Select the start date and time and the end date and time.
- Click Reload.
- 4. To group the events, drag a column
- 5. To export the events as a CSV file, click **Export**.

Lock times

You can lock times on navigation in the client interface to make all camera view panels display video from the same time.

For example, if you have four camera view panels open in the client interface, and you click a bookmark for video from the previous day, all of cameras in the camera view panels will attempt to show video from the time of the bookmark.

Locking times on navigation supports a maximum of four camera view panels.

In the client interface, click Lock Times On Navigation.

Customize the toolbar

You can change the icons that appear on the toolbar in the client interface.

- 1. In the client interface, click the down arrow.
- 2. Click Add or Remove Buttons > Main Menu
- 3. Select the icons to add to or remove from the toolbar.
- 4. To restore the toolbar to the default, click **Reset Toolbar** and click **OK**.

Device tree

The device tree in the client interface lists the cameras and devices connected to the Symphony Server.

You can search for devices in the device tree. To search, type your search criteria in the search field and click Search. The Symphony Client filters the device tree to show only those devices that match your search criteria. To restore the device tree, press the X in the search field.

Display a list of users viewing a camera

You can view a list of users who are logged in to a Symphony Client that has a camera active in a camera view panel.

To display a list of users viewing a camera, you must be an administrator user.

- 1. In the **client interface**, right-click a camera.
- 2. Click Users Viewing Camera.
- To refresh the list of users viewing the camera, click Refresh.



Suspending access to video

Symphony includes functionality to suspend access to video, or ban video, from a camera of a camera group.

To use this feature, you must create a group called *UserBanGroup*. When you suspend access to video, the users in the *UserBanGroup* cannot view video from the camera, while other users can view video from the camera.

Access to video remains suspended until you resume access to video.

Create a group for suspending access to video

To suspend access to video, you must create a group and add the group to the Symphony database.

- 1. In the server configuration interface, perform the following tasks:
 - a) Create a group called UserBanGroup.
 - b) Add any users that you want to prevent from viewing video to the UserBanGroup.
 - c) If you want to suspend access to video on video walls, add users who can log in to video wall clients to the UserBanGroup.
- 2. In the client interface, perform the following tasks:
 - a) Click Server Configuration > Manual Configuration Editor.
 - b) Click Add a new setting.
 - c) Enter the following values:

```
Type = Global
Section = Main
ID = <empty>
Key = LiveBanGroup
Value = UserBanGroup
```

- d) Press Enter.
- e) Click OK.

Related tasks

Add a group on page 19

You can add a group to create a collection of customized permissions for users.

Add a user to a group on page 18

You can add a user to a group at any time to grant the permissions for that group to a user.

Suspend access to video

You can suspend access to video, or ban video, from a camera or camera group for a group of users.

- In the client interface, right-click a camera or camera group in the device tree.
- Click Ban Video.

To resume access to video, click Unban Video.

Create a camera tour

You can create a tour of preset locations for a PTZ camera to visit in the client interface.

- 1. In the client interface, right-click a camera.
- 2. Click Camera Tour.
- For each location in the camera tour, perform the following tasks:
 - a) Use the PTZ controls to move the camera to the desired location and zoom.
 - b) Click Add Live View PTZ Location To The List.
 - c) Click the tour location and edit its details.



- 4. To set the schedule for the camera tour, perform the following tasks:
 - a) Click Set Schedule For This Tour.
 - b) In the schedule list, select an existing schedule or **Create new schedule**.
 - c) If you create a new schedule, type a name for the schedule.
 - d) Mark the cells as either active or inactive.
 - e) Click OK.
- 5. Click OK.

Camera view panels

Camera view panels display live video, recorded video, and decorations from cameras.

View a camera

You can view a camera in each camera view panel in the client interface.

Before you begin:

- · Add a camera to Symphony
- Open a floating or docked camera view
- 1. In the client interface, click a camera view.
- 2. In the device tree, click the camera that you want to view.

View picture in picture

You can view live video in a nested window when viewing recorded video.

The picture-in-picture window displays live video while the main camera view panel displays historical video.

- 1. In a camera view panel in the client interface, perform one of the following tasks:
 - a) Right-click in the camera view panel and click **Show Picture in Picture**.
 - b) Hover in the camera view panel and click the **Picture in Picture** button.
- 2. View recorded video in the main camera view panel to display live video in the picture-in-picture window.
- 3. To move the picture-in-picture window, click one of the icons in the corner of the picture-in-picture window to move the window to that corner of the camera view panel.

View instant replay

You can play historical video either 5 or 10 seconds behind live video in the in the Symphony Client.

You can select the instant replay duration on the Video Settings page in the Symphony Client settings.

- 1. In the server configuration interface, set the instant replay duration.
- 2. In a video pane in the client interface, click the Instant Replay icon.
- 3. View recorded video.

To end the instant replay, click the Go to live view icon.

Related reference

Video settings on page 85

Save a camera view

1. In the client interface, click Camera View > Save Current View.



- 2. In the **Save As** window, perform one of the following tasks:
 - To overwrite an existing camera view, select Existing Camera View and select the existing camera view to overwrite.
 - To save as a new camera view, select **New Camera View** and type a name for the camera view.
- 3. To make the saved camera view public, select Shared with other users.
- 4. Click OK.

Load a camera view

- 1. In the client interface, click Camera View > Load Camera View.
- 2. Select the camera view to load.

Open a docked camera view

You can open a camera view in the client interface.

The Symphony Client includes camera views with 1, 4, 6, 9, 16, and 25 camera view panels.

- 1. In the client interface, click Camera View > New Docked View.
- 2. Click the camera view that you want to open.

Open a floating camera view

You can open a camera view in an new window.

The Symphony Client includes camera views with 1, 4, 6, 9, 16, and 25 camera view panels.

- 1. In the client interface, click Camera View > New Floating View.
- 2. Click the camera view that you want to open.

Add a camera view panel

You can add a camera view panel to the client interface. A new camera view panel appears as a floating camera view panel, but you can dock it in the client interface.

- 1. In the client interface, click Add Camera View Panel.
- 2. Drag the camera view panel to the desired location.

Configure a camera view panel

- 1. In the client interface, right-click a camera view panel.
- 2. Click Settings.
- 3. Configure the settings for the camera view panel.
- 4. To apply the settings to all of the camera view panels, click **Other > Apply To All**.
- 5. Click Apply.
- 6. Click OK.

Camera view settings

Appearance

Setting	Description
Lock Timeline Height When Resize Occurs	Select to prevent the timeline from resizing when you change the size of the camera view panel.



Setting	Description
Overlay Camera Messages	Select to display messages from the camera in the camera view panel.
Overlay Time	Select to display the time in the camera view panel.
Overlay Tracking Boxes	Select to display boxes for video analytics in the camera view panel.
Overlay Tracking Paths	Select to display paths for video analytics in the camera view panel.
Overlay Date	Select to display the date in the camera view panel.
Overlay Thick Decoration	Select to display tracking boxes and paths as larger lines.
Overlay Messenger Messages	Select to display messages in the camera view panel.
Video Quality	Select the resolution for the camera view panel. The default resolution is the resolution set for the camera.
Display Mode	Select the size and aspect ratio of the video to display in the camera view panel.

Activity

Setting	Description
Switch view when an alarm occurs	Select to switch the camera view panel when an alarm occurs.
Switch view when motion occurs	Select to switch the camera view panel when motion occurs.
Show alarm cameras in other panels	If the rule for the alarm includes the view other cameras on alarm option, select this option to switch the other camera view panels to those cameras.
Limit action to specific cameras or alarms	Select this option and specify the cameras to limit the activity of the camera view panel to specific cameras or alarms.
Ensure Visible	Select to bring the camera view panel into focus whenever an alarm or motion occurs.
Display	Select the whether the camera view panel changes to video or a still image.
Perform action after switch	Select to perform an action when an alarm or motion occurs.
Disable switching after switch occurs	Select to prevent the camera view panel from switching to another camera after a subsequent alarm or motion occurs.
Hide switched view after seconds	
Go back to previous state after seconds	Select this option and specify the number of seconds to return the camera view panel to the state prior to the alarm switch.



Child

Setting	Description
Show latest alarm when the camera displayed in another panel changes	Select to display the latest alarm from the primary camera view panel.
Panel Name	You can use the panel name with the video wall feature and the Symphony SDK. You can use the default name or change it to something more meaningful.

Tracking

Setting	Description
Digitally zoom in on hot spots	Select to automatically zoom in on objects that video analytics detect. This setting works for both live and recorded video.

Other

Setting	Description
Apply To All	Click to apply your changes to all of the active camera view panels.

Export video to file

You can export video from the Symphony Client as .aira or .avi files.

- 1. In the client interface, perform one of the following tasks:
 - Right-click the camera view panel and click Export.
 - Hover over the camera view panel and click the Export icon.
 - Right-click the timeline to mark the export start and export end, and click Export.
- 2. To add a camera stream to the export, perform the following tasks:
 - a) Click Add.
 - b) Select the camera and click Add.
 - c) In the sources list, select the stream in the **Stream** column.
 - d) If required, modify the start and end time for the export.
- 3. In the **Destination** list, select **Local Disk** and specify the file location for the exported video.
- 4. In the **Format** field, select the file format to use for the video export.
- 5. To include the Symphony Player with the video export, select **Include Symphony Player**. You can use the Symphony Player to play .aira files.
- 6. To protect the video export files with a password, perform the following tasks:
 - a) Select Password Protect.
 - b) Type and confirm the password.
- In the Split Files at field, select the maximum size (in MBs) for the video export files.
 Symphony divides the exported video into files no larger than the size that you specify.
- 8. Click Export.



Export video to the cloud

You can export video from the Symphony Client to the cloud and with a link to download the video.

To export video to the cloud, you must associate an email address with your Symphony user account.

Symphony uploads the video files (as <code>.aira</code> files) to Xnet and sends an email with a link to download the video files to the email address associated with your Symphony user account. You can then forward the link to other recipients.

When exporting video to the cloud, Symphony splits the video into files with a maximum size of 4000 MBs, does not include decorations, and does not support increasing the speed of the video.

- 1. In the client interface, perform one of the following tasks:
 - Right-click the camera view panel and click **Export**.
 - Hover over the camera view panel and click the Export icon.
 - Right-click the timeline to mark the export start and export end, and click Export.
- 2. To add a camera stream to the export, perform the following tasks:
 - a) Click Add.
 - b) Select the camera and click Add.
 - c) In the sources list, select the stream in the **Stream** column.
 - d) If required, modify the start and end time for the export.
- In the **Destination** list, select **Cloud To Email**.
- 4. To add a custom email message to the email message, perform the following tasks:
 - a) Click the Email Message field.
 - b) In the text window, type the email message.
 - c) Click OK.
- 5. To protect the video export files with a password, perform the following tasks:
 - a) Select Password Protect.
 - b) Type and confirm the password.
- Click Export.

Symphony sends you an email that includes a link to manage your exported video. You can use the link to delete exported videos.

Add an alarm

You can add a manual alarm to a camera in the Symphony Client.

You can use manual alarms to activate the action set associated with the manual rule.

- 1. In the client interface, open the camera to which you want to add an alarm in a camera view panel.
- 2. Hover over the camera view panel containing the camera to which you want to add an alarm and click the **Alarm** icon.

Record video manually

You can manually start recording video from a camera.

For cameras that are not set to always record, you can manually start recording video.

- 1. In the client interface, click the **Start Recording** button to record 10 minutes of video from the camera.
- 2. To add 10 more minutes, click the **Start Recording** button again.

The camera view panel displays an icon to show that Symphony is recording video.



Search

You can search video from a camera for objects and events.

- 1. In the client interface, perform one of the following tasks:
 - Right-click the camera view panel and click Search.
 - Hover over the camera view panel and click the Search icon.
- 2. In the **Class** pane, select the type of object for which to search.
- 3. In the **Behavior**pane, select whether the object should be moving or loitering and for how long it should demonstrate the behavior.
- 4. Select whether to define the search area by a mask or fences.
- 5. In the **Include** pane, select the parts of the object or object movement the must pass through the search area for the object to be included in the search results.
- 6. In the **Draw** pane, select whether to add or remove mask area or fences.
- 7. Define the search period in the **From** and **To** fields.
- 8. In the **Search For** pane select whether to search for any events or only events that trigger alarms. Changing this selection changes the settings that are available in the **Search** window.
- 9. In the **Add-Ons** pane (available if you search for any events), select the video analytic events to search.
- 10. In the **Rules** pane, select the rule events to search.
- 11. In the Stream list, select the stream to search.
- 12. Click Search.

Timeline

Timelines display the activities and alarms for a camera in the client interface.

You can display a timeline for each camera in the client interface and the timeline spans the current day for that camera. You can click on the timeline to navigate to specific times or events in the footage. A purple circle indicates your current position on the timeline.

Timeline colors

The client interface uses the following colors to mark events on the timeline.

Color	Event
Dark purple (#855fb2)	Activity
Teal (#008080)	Video downloaded from the camera
Black (#000000)	Access denied
White (#ffffff)	Access granted
Red (#ff0000)	Access other
	Alarms
Gray (#5c5c5c)	No activity
Dark gray (#231f20)	No signal
Light gray (#808080)	Not used



Color	Event
Transparent (#00ffffff)	No record
Light purple (#c199ef)	Zoom

Display the timeline

You can display a timeline for a camera in a video panel.

In addition, you can display a timeline for every camera in a video panel by clicking the Timeline button in the client interface.

- 1. In the client interface, right-click a video panel.
- 2. Click Show Timeline.

To hide a timeline, right-click the video panel and click Show Timeline again.

Maps

Maps can display the location of cameras, camera views, digital inputs and output devices, links, and labels in the client interface.

A map can be an image file (jpg, gif, or bmp file) or a map provided by a GIS service. You can use the map editor in the client interface to add, edit, and delete maps.

You can add cameras and camera views to a map. Clicking on a device icon performs the following actions in the client interface:

- Clicking a camera icon displays the camera view in the active video panel.
- Clicking a camera view icon loads the camera view in the client interface.

You can add digital input and output devices to a map.

Add a map

You can add an image file of a map to Symphony.

- 1. In the client interface, click View > Map Editor.
- 2. Click New Map > Upload File.
- 3. Browse to the map file and click **Open**.
- 4. To change the name of the map, click the name of the map in the list and type the new name.
- 5. Click OK.

Add a GIS map

You can add a map from the ArcGIS service to Symphony.

- 1. In the client interface, click **View > Map Editor**.
- 2. Click New Map > GIS Map.
- 3. In the Map Name field, type a name for the map that will appear in the map list.
- 4. In the **Server Address** field, type the URL of the map service.
- 5. Click Add Map.
- 6. Click OK.



View a map

You can open the map panel and view a map in the client interface.

- 1. In the client interface, click View > Map Navigation.
- 2. In the map panel, use the arrows to navigate through maps or select the map in the list.

Add a device to a map

You can add a device to a map to display the location of the camera.

- 1. In the client interface, click View > Map Editor.
- 2. Select a map.
- 3. Click the **Devices** tab.
- 4. Drag a device on to the map.
- 5. To rotate the camera icon, perform the following steps:
 - a) Right-click the camera icon.
 - b) Click Rotate.
 - c) Move the mouse until the camera is facing the correct direction and click the mouse button.
- 6. Click OK.

Map icons

Icon	Description
	Rule
	Digital input Activated: yellow background Not activated: white background
•	Digital output Activated: yellow background Not activated: white background
•	 Camera Online camera: gray arrow Offline camera: white arrow Motion detected: blue arrow Alarm: orange arrow Selected camera: orange circle
	 PTZ camera Online camera: gray arrow Offline camera: white arrow Motion detected: blue arrow Alarm: Orange arrow



Icon	Description
	Access control device • Access granted: green • Access denied: red

Display field of view

You can display the field of view for cameras on maps in the client interface.

If you display the field of view for a PTZ camera, the graphic on the map changes when you move the camera.

- 1. In the client interface, click View > Map Editor.
- 2. Select a map.
- 3. Click FOV > Show FOV.
- 4. To change the color of the field-of-view graphic, perform the following tasks:
 - a) Click FOV > Change Color.
 - Select the color using the color picker or define the color using the RGB values or hex color codes.
 - c) Click OK.
- 5. Click OK.

Messenger

Symphony Messenger allows you to send messages to any user who is logged in to the Symphony Client or Symphony Web Client.

Send a message

You can send messages to users or groups.

- 1. In the client interface, click **Setting > Messenger** to open the Messenger window.
- 2. In the user and group list, select the recipients for the message.
- 3. In the text field, type your message.
- 4. Click Send.

Carousels

Carousels can loop through multiple cameras across multiple servers in the same server farm, pausing on each camera for a defined time.

You can assign a carousel to a video panel in the client interface. The video panel will automatically loop through the cameras and will include controls to pause and move forward and backward through cameras in the carousel.

You can create a carousel in the server configuration interface. Once created, carousels appear in the device tree in the client interface.

Add a carousel

Add a carousel in the server configuration interface.

- 1. In the server configuration interface, click **Devices** > **Carousels**.
- 2. Click Add Carousel.

....



3. In the **Name** field, type a name for the carousel.

The name of the carousel appears in the device tree in the client interface.

- 4. Perform one of the following tasks:
 - Select Add to bottom of list to add cameras to the bottom of the carousel camera list.
 - Select Insert below currently selected camera in list to add cameras below the selected camera in the carousel camera list.
- In the Available Cameras on Servers list, select the cameras to include in the carousel and click Add Selected.
- 6. In carousel camera list, perform the following the tasks:
 - Set the order of cameras by moving camera by clicking and holding the arrow button beside a camera, dragging the camera to the desired location, and releasing the mouse button.
 - b) Set the time that the carousel pauses on the camera before moving to the next camera in the carousel.
- 7. Click Save.

Edit a carousel

Edit a carousel in the server configuration interface.

- 1. In the server configuration interface, click **Devices** > **Carousels**.
- 2. Select the carousel and click Edit.
- 3. Perform any of the following tasks:
 - To remove a camera from the carousel, hover over the camera, and click the X button.
 - To add a camera, select the camera in the Available Cameras on Servers list, and click Add Selected.
 - To change the time that the carousel pauses on the camera, edit the number in the Seconds field.
- Click Save.

Delete a carousel

Remove a carousel in the server configuration interface.

- 1. In the server configuration interface, click **Devices** > **Carousels**.
- 2. Select the carousel.
- Click Delete.
- 4. To confirm the deletion, click **Yes**.

Settings

You can use the Symphony Client settings to customize the client interface.

View camera activity

You can view the activity for multiple cameras and open camera view panels for specific times from each camera's timeline.

Viewing camera activity allows you to compare the timelines and track activity across multiple cameras. You can open video from different times and cameras to view the complete video for an activity or an alarm.

- In the client interface, click View > Activity For Cameras.
- 2. Specify the start and end dates for the activity you want to view and click **Reload**.
- 3. In the Pick Cameras list, select the cameras for which you want to view the activity.



- 4. Use the **Zoom In** and **Zoom Out** to set the correct resolution.
- 5. Perform one of the following tasks:
 - To open video in a single docked camera view panel each time you click on a camera timeline, toggle the **One Camera View** button on.
 - To open video in a new floating camera view panel each time you click a camera timeline, toggle
 the One Camera View button off.
- 6. Click a camera timeline to view video.

Customize the toolbar

You can add or remove icons from the toolbar.

- 1. Click the down arrow in the toolbar.
- 2. Click Add or Remove Buttons > Main Menu.
- 3. Click to show or hide the buttons, or click **Reset Toolbar**.

Change timeline colors

You can change the colors that the Symphony Client uses in the timeline.

When you change the timeline colors, you also change the colors that the Symphony Client uses for map icons.

- 1. In the client interface, click View > Settings.
- 2. Click the **Timeline Colors** tab.
- 3. Select the colors for each timeline event.
- 4. Click OK.

You can also reset the colors to the default Symphony colors at any time or use the classic colors from Symphony 6.14.

Startup settings

Request User Credentials

Setting	Description
	Select to make users provide a valid username and password before using the Symphony Client.

Layout

Setting	Description
Load classic layout	Select to load the default layout when the Symphony Client starts.
Load layout saved when Symphony Client closes	Select to load the layout from the last session when the Symphony Client starts.
Load custom layout file	Select to load the layout from a saved layout file when the Symphony Client starts.



Display settings

Symphony Client

Setting	Description
Restore Symphony Client when an alarm occurs	Select to restore the client interface to full size when an alarm occurs.
Highlight focused camera video panel	Select to highlight the camera view panel that is in focus.
Remote desktop mode	Select if you are using a remote desktop or virtual machine to access the Symphony Client. This setting removes the dependency of overlays and navigation controls in the client interface on DirectX.

Panel Name

Setting	Description
Camera Id	Select to display the camera ID in the name of the camera view panel.
Farm Name	Select to display the farm name in the name of the camera view panel.
Camera Name	Select to display the camera name in the name of the camera view panel.
Panel Id	Select to display the panel ID in the name of the camera view panel.

State Info Bar

Setting	Description
Farms	Select to display warning messages for farms in the notification bar.
Servers	Select to display warning messages for servers in the notification bar.
Cameras	Select to display warning messages for cameras in the notification bar.
Storage	Select to display warning messages for video storage in the notification bar.
Thin Clients	Select to display warning messages for Thin Client devices in the notification bar.
Access Devices	Select to display warning messages for access control devices in the notification bar.





Application Log

Setting	Description
Show verbose debugging information	Select to display verbose debugging information in the application log.
Show failed connection attempts	Select to show failed connection attempts in the application log.

Dialog Preferences

Setting	Description
Reset	Click to reset all dismissed dialog boxes in the client interface.

Alarms settings

Setting	Description
Show Alarm Window (click OK required)	Select to make the Symphony Client display a dialog box when an alarm occurs.
Alarm Pop-up mode	Select how the Symphony Client displays alarm dialog boxes.
Alarm Box colour on Timeline/ Show rule alarms in Alarm Log	Select whether the alarm appears in the alarm log and set the color for the alarm in the timeline.

Video settings

PTZ movement

Setting	Description
Panning left moves the camera left	Select to use the default directions for the pan buttons (i.e., the left pan button pans the camera to the left and/or digitally pans the image to the right).
Panning left moves the image left	Select to use the inverted directions for the pan buttons (i.e., the left pan button pans the camera to the right and/or digitally pans the image to the left).
Pan PTZ camera when clicked on the map	Select to pan PTZ cameras to the location that you click on a map.

Default video decorations

Setting	Description
Boxes	Select to display video analytic boxes over the video in the camera view panel.
Time	Select to display the time over the video in the camera view panel.



Setting	Description
Date	Select to display the date over the video in the camera view panel.
Paths	Select to display video analytic paths over the video in the camera view panel.
Camera messages	Select to display information from cameras over the video in the camera view panel.
Thick decoration	Select to make the video analytic decoration (boxes and paths) thicker.
Messenger messages	Select to display messages from Messenger over the video in the camera view panel.
Seconds	Select how long the messages remain visible.
Video Retention	Select to display video retention capacity over the video in the camera view panel.
Apply to current views	Click to apply the decoration settings to the current views.

Video quality

Setting	Description
Lowest resolution	Select to display video at the lowest possible resolution.
Closest fit to panel size	Select to display video at the resolution that most closely matches the size of the video panel, including resolutions that are smaller than the video panel.
Closest fit not smaller than panel size	Select to display video at the resolution that most closely matches the size of the video panel, excluding resolutions that are smaller than the video panel.
Highest resolution	Select to display video at the highest possible resolution.

Instant replay

Setting	Description
5 seconds	Select to set the instant replay function to 5 seconds.
10 seconds	Select to set the instant replay function to 10 seconds.

Video decoration settings

Setting	Description
Decoration font scale	Define the size of the text in video panels.





Display mode

Setting	Description
Actual Size	Select to set the video panel to display the video at the size from the camera.
Maintain Aspect Ratio	Select to set the video panel to display the video at the aspect ratio.
Fit to Window	Select to fit the video to the video panel.
Camera connection mode	Select how the Symphony Client connects to cameras.
Factory Default	Select to use the default video renderer.
Renderer	Select a video renderer.
Color Space	Select the color space for the Symphony Client.

Related tasks

View instant replay on page 73 You can play historical video either 5 or 10 seconds behind live video in the in the Symphony Client.

Customize settings

Maps

Setting	Description
Flash when alarm occurs	Select to flash the alarm icon when the alarm occurs.
Flash while alarms are unacknowledged	Select to flash the alarm icon while the alarm is unacknowledged.
Scroll To Camera On Map	Select to center the map on a camera when you click the camera in the Map Navigation pane of the client interface.
Always show rule icon	Select to always show the rule icon on the map.
Default color	Select the color for the rule icon.
Transparency	Set the transparency for the rule icon on the map.

Device Tree

Setting	Description
Show Device Icons	Select to show device icons in the device tree.
Show Device Numbers	Select to show device numbers in the device tree.
Show Digital I/O	Select to show digital I/O devices in the device tree.





Setting	Description
Auto Expand Entire Device Tree	Select to expand all levels of the device tree when the client interface starts.
Auto Expand Devices Root Nodes	Select to expand the top level of the device tree when the client interface starts.
Don't Expand Device Tree	Select keep the device tree collapsed when the client interface starts.
Auto Expand Camera Views	Select to expand the camera views in the device tree when the client interface starts.
Don't Expand Camera Views	Select to keep the camera views collapsed in the device tree when the client interface starts.
Auto Expand Carousels	Select to expand the carousels in the device tree when the client interface starts.
Don't Expand Carousels	Select to keep the carousels collapsed in the device tree when the client interface starts.

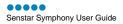
Sound settings

Audio settings

Setting	Description
Default Sound Mode	Set how the Symphony Client plays or mutes audio for video.
	Select Follow focus to play audio from the active video panel.
	Select Listen to all to play audio from all video panels.
	Select No sound to mute all audio.
Input device	Select the audio input device.
Play audio file if you click Talk while holding Ctrl	Select to play an audio file when you click the Talk button while pressing the Ctrl key.
Audio file location	Select the audio file to play when you click the Talk button while pressing the Ctrl key.

Event sounds

Setting	Description
Play sound when an alarm occurs	Select to play a sound when an alarms occurs.
	You can set both the alarm sound and the continuous sound for each rule.
Sound on startup	Select to play the default sound file when the Symphony Client starts.





Setting	Description
Default sound file	Select the default audio file.

Regional settings

Setting	Description
Language for Symphony Client	Select the language for the client interface.
Date Format	Select the format for dates in the client interface.
Use 24 Hour Time	Select to display time in the 24-hour format in the client interface.

Global settings

Setting	Description
Path to client configuration	Define the path to configuration data for the Symphony Client.
Custom path to farm registration	Select to define a custom path for farm registration information.
Use help from the following location	Select whether the Symphony Client opens help that is included with the Symphony Server or help from the Internet.

Bookmarks

A bookmark identifies specific footage that you can return to later. Bookmarks can refer to live videos, recorded videos, or still images.

When you add a bookmark, it refers to the video on a specific camera at a specific time. Bookmarks appear in the bookmarks list in the client interface.

Create a bookmark

You can create a bookmark to reference video from a specific time and camera.

You can share a bookmark so that other users can open the video that you mark.

- 1. In the client interface, click **Bookmarks** > **Add Bookmark**.
- 2. Type a name for the bookmark.
- 3. Select whether you want to share the bookmark with other users.
- 4. Click OK.

Delete a bookmark

You can remove bookmarks that you create.

- 1. In the client interface, click **Bookmarks > Manage Bookmarks**.
- 2. Select **Delete** for the bookmark.
- Click OK.



Video wall

The video wall feature in Symphony can display footage from multiple cameras in the server farm on multiple monitors.

Any Symphony Client can act as a video wall client, and you can include any monitors connected to the computers that host the Symphony Client in the video wall.

Register a client

Register each computer that hosts the Symphony Client that you want to include in the video wall.

- 1. In the Symphony client interface, click View > Video Wall.
- Click the Video Wall Client Configuration tab.
- 3. Click Register current Client.
- Click Save.

Create a video wall

- 1. In the Symphony client interface, click View > Video Wall.
- On the Video Wall Client Configuration tab, click Design Video Wall.
- Click New.
- 4. To define a name for the video wall, perform the following steps:
 - a) Double-click the default name for the video wall.
 - b) Type a new name.
 - c) Press Enter.
- 5. Select the name of the video wall and click **Open**.
- 6. Drag a video wall monitor from the **Tool Box** pane to the video wall grid.
- 7. Click the monitor box in the video wall grid.
- 8. In the **Label** field, type a name for the monitor and click **Apply**.
- 9. Move and size the video wall monitor.
- 10. Click Save.

Server configuration

Although you perform most configuration for the Symphony Server in the server configuration interface, the client interface includes functionality to configure some settings on the Symphony Server.

Connect to a server

You can connect a Symphony Client to multiple Symphony Server instances.

- In the client interface, click Server Configuration > New Symphony Server Registration.
- 2. In the **Address** field, perform one of the following tasks:
 - Select the Symphony Server from the list of discovered servers.
 - Type the IP address of the Symphony Server.
 - Type the DNS name of the Symphony Server.
- 3. In the **Name** field, type a meaningful name for the Symphony Server.

This name will appear in the Server List in the client interface.

- 4. To log in to the Symphony Server, perform one of the following tasks:
 - To use your Windows account to authenticate with the Symphony Server, select the Windows Authentication check box.



- Type your username and password.
- 5. Click OK.

Disconnect from a server

You can disconnect from a Symphony Server to remove the cameras associated with that server from the Symphony Client.

- 1. In the client interface, click Server Configuration > Delete Symphony Server Registration.
- 2. Select the server from which to disconnect.
- Click Remove.

Delete recorded video

You can delete recorded video for a specific time or delete all recorded video.

- 1. In the client interface, click Server Configuration > Delete Recorded Video.
- 2. Perform one of the following tasks:
 - Specify a date range and click Delete Footage in Above Date Range On All Cameras.
 - Click Delete everything.
- Click Yes.

Get information about the server

You can gather information about the Symphony Servers to which the Symphony Client connects.

- 1. In the client interface, click **Server Configuration** > **Get Info**.
- 2. In the **Choose Server** list, select the server for which you want information.
- 3. To get additional information, select Verbose.

The verbose information includes:

- Hard drive information
- Symphony Server version information
- System information
- · Up-time information
- Task list information
- IP configuration information
- License information
- · Network statistics
- Services information
- 4. Click Get Info.

The **Get Info** button also refreshes the information.

Configure the server manually

The manual configuration editor in the client interface allows you to add and configure settings for the Symphony Server.

The manual configuration editor allows you to add, edit, or delete settings from the Symphony database.

- 1. In the client interface, click Server Configuration > Manual Configuration Editor.
- Click the Add a new setting row.
- 3. Define the type, section, ID, key, value, and action for the new setting and press Enter.
- 4. Click OK.



Windows authentication

Windows authentication, or single sign-on, uses domain identities to authenticate users.

To use Windows authentication, the Symphony Server and Symphony Client must be in the same security domain, and the user must use domain credentials to log in to the Symphony Client.

Enable Windows authentication

- 1. In the client interface, right-click a Symphony Server in the Server List.
- 2. Click Edit.
- 3. Select Windows Authentication.
- Click OK.

Update the storage path

To use Windows authentication on all computers in the domain, you must save the farm registration information to a network location that is available to the computers.

- In the client interface, click View > Settings.
- 2. Click the Global tab.
- 3. Select Custom path to farm registration.
- 4. Type a network location where registration information is stored for all roaming users.
- 5. Click OK.

Reports

You can generate reports on the data from Symphony.

You can distribute reports as emails or save reports to files. You can schedule reports to run automatically or manually generate a report at any time. When you run a report, Symphony saves the report to the \Data\Reports path for the server (by default) or the path that you set when you install the Symphony Server.

Symphony includes the following reports:

- Alarm Report—a report that displays a list of and information about individual alarms
- Alarm Statistics—a report that summarizes all alarms for a specific time
- Face Recognition Report—a report that displays information about matched faces
- Heat Map Image—a report that displays a graphical representation of traffic patterns
- Object Counts—a report that summarizes the number of objects
- Object Counts Across a Line—a report that summarizes the object counts across a line
- Object Statistics—a report that compares traffic and dwell time

To run reports, a user must have the Connect and Execute Report permissions. To run the Heat Map Image report, the user must additionally have the Search permission.

Create an alarm report

The alarm report displays a list of and information about individual alarms for a specific time.

- 1. In the client interface, click **Reports**.
 - The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- 3. Click New Report.
- 4. Type a name for the report.
- 5. In the Report Type list, select Alarm Report.



- 6. To allow other users to run the report, select Allow other users to run this report.
- 7. Click OK.
- 8. In the **Cameras** section, perform the following tasks to add the cameras that provide information for the report:
 - a) Click Add Cameras.
 - b) Select one or more cameras.
 - You can search for cameras by camera name.
 - c) Click OK.
- 9. In the **Date Range** section, perform the following tasks to determine the data that the report includes:
 - a) In the **Start including data from** section, define the start of the data.
 - b) In the **Stop including data after** section, define the end of the data.
 - c) To use data from a specific time range from each day, select **Use custom time range for data collection** and specify the time range.
- 10. In the **Schedule** section, perform the following tasks to run the report automatically:
 - a) Select Schedule Enabled.
 - b) In the **Recurrence** section, set when the report runs.
 - c) In the **Schedule start** section, set when the report starts running automatically.
 - In the Schedule finish section, set when the report stops running automatically.
- 11. In the **Distribution** section, perform the following tasks to determine how Symphony distributes reports:
 - a) To send the report attached to an email, select **Send report in email**, specify the email addresses of the recipients, and select the file formats for the reports.
 - b) To save the report as a file, select **Save report to file**, specify the path, define the file name, and select the file formats.
- 12. In the **Table Layout** section, perform the following tasks to determine the appearance of the table in the report:
 - a) In the **Columns** list, select the information that will appear in the columns of the report.
 - b) In the **Grouping** section, select how the information is grouped in the report.
 - c) In the **Sorting** section, select how the information is sorted in the report.
- 13. Click Save.

Create an alarm statistics report

The alarm statistics report summarizes alarms for a specific time.

- 1. In the client interface, click **Reports**.
 - The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- 3. Click New Report.
- 4. Type a name for the report.
- 5. In the **Report Type** list, select **Alarm Statistics**.
- 6. To allow other users to run the report, select Allow other users to run this report.
- 7. Click OK.
- 8. In the **Cameras** section, perform the following tasks to add the cameras that provide information for the report:
 - a) Click Add Cameras.
 - b) Select one or more cameras.
 - You can search for cameras by camera name.
 - c) Click OK.



- 9. In the **Date Range** section, perform the following tasks to determine the data that the report includes:
 - a) In the **Start including data from** section, define the start of the data.
 - b) In the **Stop including data after** section, define the end of the data.
 - c) To use data from a specific time range from each day, select Use custom time range for data collection and specify the time range.
- 10. In the **Schedule** section, perform the following tasks to run the report automatically:
 - a) Select Schedule Enabled.
 - b) In the **Recurrence** section, set when the report runs.
 - c) In the **Schedule start** section, set when the report starts running automatically.
 - d) In the **Schedule finish** section, set when the report stops running automatically.
- 11. In the **Distribution** section, perform the following tasks to determine how Symphony distributes reports:
 - a) To send the report attached to an email, select **Send report in email**, specify the email addresses of the recipients, and select the file formats for the reports.
 - b) To save the report as a file, select **Save report to file**, specify the path, define the file name, and select the file formats.
- 12. In the **Graph** section, perform the following tasks to determine the appearance of the graph in the report:
 - a) In the **Default Graph** list, select the alarm type to display.
 - b) In the **Graph Type** list, select whether the graph is a line or bar graph.
 - c) In the **Graph Size** list, select the size of the graph.
- 13. In the **Table Layout** section, perform the following tasks to determine the appearance of the table in the report:
 - a) In the Columns list, select the information that will appear in the columns of the report.
 - b) In the **Grouping** section, select how the information is grouped in the report.
 - c) In the **Sorting** section, select how the information is sorted in the report.
- 14. Click Save.

Create a Face Recognition report

The Face Recognition report displays information about license plates for a specific time.

For the Face Recognition report to be available, you must have the **Face Recognition** video analytic installed.

- 1. In the client interface, click Reports.
 - The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- Click New Report.
- 4. Type a name for the report.
- 5. In the Report Type list, select Face Recognition.
- 6. To allow other users to run the report, select Allow other users to run this report.
- 7. Click OK.
- 8. In the **Entrance Cameras** section, perform the following tasks to add the cameras that provide information for the report:
 - a) Click Add Cameras.
 - b) Select one or more cameras.
 - You can search for cameras by camera name.
 - c) Click OK.
- 9. In the **Exit Cameras** section, perform the following tasks to add the cameras that provide information for the report:



- a) Click Add Cameras.
- b) Select one or more cameras.
 - You can search for cameras by camera name.
- c) Click OK.
- 10. In the **Face Recognition** section, perform the following tasks to
 - To exclude faces that are observed by an exit camera first and then by an entrance camera, select Remove exit-to-entrance matches.
 - b) In the **Minimum confidence for report** field, select how confident that the Face Recognition video analytic must be for it to report on the face.
 - c) In the **Reporting block size** field, select the time (in seconds) from which the **Face Recognition** video analytic chooses the best face match.
 - d) In the **Number of blocks to check after current** field, set how many blocks of time that the **Face Recognition** video analyticsearches for a face match.
 - e) In the **Timeout for first match in block** field, set the time before which the **Face Recognition** video analytic must detect a face entering the scene for the face to be eligible for a match.
 - f) In the **Hours to run report** list, select the times at which the **Face Recognition** video analytic generates data for the report.
- 11. In the **Date Range** section, perform the following tasks to determine the data that the report includes:
 - a) In the **Start including data from** section, define the start of the data.
 - b) In the **Stop including data after** section, define the end of the data.
 - c) To use data from a specific time range from each day, select **Use custom time range for data collection** and specify the time range.
- 12. In the **Schedule** section, perform the following tasks to run the report automatically:
 - a) Select Schedule Enabled.
 - b) In the **Recurrence** section, set when the report runs.
 - c) In the **Schedule start** section, set when the report starts running automatically.
 - d) In the **Schedule finish** section, set when the report stops running automatically.
- 13. In the **Distribution** section, perform the following tasks to determine how Symphony distributes reports:
 - a) To send the report attached to an email, select **Send report in email**, specify the email addresses of the recipients, and select the file formats for the reports.
 - b) To save the report as a file, select **Save report to file**, specify the path, define the file name, and select the file formats.
- 14. In the **Table Layout** section, perform the following tasks to determine the appearance of the table in the report:
 - a) In the **Columns** list, select the information that will appear in the columns of the report.
 - b) In the **Grouping** section, select how the information is grouped in the report.
 - c) In the **Sorting** section, select how the information is sorted in the report.
- 15. Click Save.

Create a heat map image report

The heat map image report displays a graphical representation of traffic patterns for a specific time.

- 1. In the client interface, click **Reports**.
 - The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- Click New Report.
- 4. Type a name for the report.
- 5. In the **Report Type** list, select **Heat Map Image**.



- 6. To allow other users to run the report, select Allow other users to run this report.
- 7. Click OK.
- 8. In the **Cameras** section, perform the following tasks to add the cameras that provide information for the report:
 - a) Click Add Cameras.
 - b) Select one or more cameras.
 - You can search for cameras by camera name.
 - c) Click OK.
- 9. In the **Zone Selection** section, perform the following tasks to determine which zones in the camera view generate data for the report:
 - a) Click Add Zone.
 - b) Move or reshape the zone.
 - c) To rename the zone, click **Rename Zone**, type a new name, and click **OK**.
 - d) Repeat to add another zone.
- 10. In the **Sensitivity** section, perform the following tasks to set how sensitive the heat map is to events:
 - a) To set the number of intersections that must occur before the heat map starts registering intersections for a zone, select **Minimum intersections** and type the value.
 - b) To set the number of intersections that must occur before the heat map stops updating the value for a zone, select **Maximum Intersections** and type a value.
 - c) To set how long an object must remain stationary before the heat map starts registering dwelling objects for a zone, select **Minimum Dwell Time** and set the time.
 - d) To set how long an object remains stationary before the heat map stops updating the value for a zone, select **Maximum Dwell Time** and set the time.
 - e) To set how long an object must be stationary before it is considered as dwelling, select **Dwell Threshold**, and set the time.
- 11. In the **Date Range** section, perform the following tasks to determine the data that the report includes:
 - a) In the **Start including data from** section, define the start of the data.
 - b) In the **Stop including data after** section, define the end of the data.
 - c) To use data from a specific time range from each day, select **Use custom time range for data collection** and specify the time range.
- 12. In the **Schedule** section, perform the following tasks to run the report automatically:
 - a) Select Schedule Enabled.
 - b) In the **Recurrence** section, set when the report runs.
 - c) In the **Schedule start** section, set when the report starts running automatically.
 - d) In the **Schedule finish** section, set when the report stops running automatically.
- 13. In the **Distribution** section, perform the following tasks to determine how Symphony distributes reports:
 - a) To send the report attached to an email, select **Send report in email**, specify the email addresses of the recipients, and select the file formats for the reports.
 - b) To save the report as a file, select **Save report to file**, specify the path, define the file name, and select the file formats.
- 14. In the **Table Layout** section, perform the following tasks to determine the appearance of the table in the report:
 - a) In the **Columns** list, select the information that will appear in the columns of the report.
 - In the Grouping section, select how the information is grouped in the report.
 - c) In the **Sorting** section, select how the information is sorted in the report.
- 15. Click Save.



Create an LPR report

The LPR report displays information about license plates for a specific time.

- 1. In the client interface, click Reports.
 - The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- 3. Click New Report.
- 4. Type a name for the report.
- 5. In the **Report Type** list, select **LPR Report**.
- 6. To allow other users to run the report, select Allow other users to run this report.
- Click OK
- 8. In the **Cameras** section, perform the following tasks to add the cameras that provide information for the report:
 - a) Click Add Cameras.
 - b) Select one or more cameras.
 - You can search for cameras by camera name.
 - c) Click OK.
- 9. In the **Filter** section, select the plate lists on which to report.
- 10. In the **Date Range** section, perform the following tasks to determine the data that the report includes:
 - a) In the **Start including data from** section, define the start of the data.
 - b) In the **Stop including data after** section, define the end of the data.
 - c) To use data from a specific time range from each day, select Use custom time range for data collection and specify the time range.
- 11. In the **Schedule** section, perform the following tasks to run the report automatically:
 - a) Select **Schedule Enabled**.
 - b) In the **Recurrence** section, set when the report runs.
 - c) In the **Schedule start** section, set when the report starts running automatically.
 - d) In the **Schedule finish** section, set when the report stops running automatically.
- 12. In the **Distribution** section, perform the following tasks to determine how Symphony distributes reports:
 - a) To send the report attached to an email, select **Send report in email**, specify the email addresses of the recipients, and select the file formats for the reports.
 - b) To save the report as a file, select **Save report to file**, specify the path, define the file name, and select the file formats.
- 13. In the **Table Layout** section, perform the following tasks to determine the appearance of the table in the report:
 - a) In the **Columns** list, select the information that will appear in the columns of the report.
 - b) In the **Grouping** section, select how the information is grouped in the report.
 - c) In the **Sorting** section, select how the information is sorted in the report.
- 14. Click Save.

Create an object counts report

The object counts report displays information about objects for a specific time.

- 1. In the client interface, click **Reports**.
 - The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- Click New Report.



- 4. Type a name for the report.
- 5. In the **Report Type** list, select **Object Counts**.
- To allow other users to run the report, select Allow other users to run this report.
- Click OK.
- 8. In the **Cameras** section, perform the following tasks to add the cameras that provide information for the report:
 - a) Click Add Cameras.
 - b) Select one or more cameras.
 - You can search for cameras by camera name.
 - c) Click **OK**.
- 9. In the **Date Range** section, perform the following tasks to determine the data that the report includes:
 - a) In the **Start including data from** section, define the start of the data.
 - b) In the **Stop including data after** section, define the end of the data.
 - c) To use data from a specific time range from each day, select **Use custom time range for data collection** and specify the time range.
- 10. In the **Schedule** section, perform the following tasks to determine when the report runs and what information is contains:
 - a) Select whether to run the report manually or on a schedule.
 - b) If you select to run the report on a schedule, set the schedule.
 - Specify the time from which to collect data for the report.
 You can set a relative time based on the report or select specific times.
 - d) Select how to group the data.
- 11. In the **Distribution** section, perform the following tasks to determine how Symphony distributes reports:
 - a) To send the report attached to an email, select **Send report in email**, specify the email addresses of the recipients, and select the file formats for the reports.
 - b) To save the report as a file, specify the path, define the file name, and select the file formats.
- 12. In the **Graph** section, perform the following tasks to determine the appearance of the graph in the report:
 - a) In the **Default Graph** list, select the alarm type to display.
 - b) In the **Graph Type** list, select whether the graph is a line or bar graph.
 - c) In the **Graph Size** list, select the size of the graph.
- 13. In the **Table Layout** section, perform the following tasks to determine the appearance of the table in the report:
 - a) In the Columns list, select the information that will appear in the columns of the report.
 - b) In the **Grouping** section, select how the information is grouped in the report.
 - c) In the **Sorting** section, select how the information is sorted in the report.
- 14. Click Save.

Create an object counts across a line report

The object counts across a line report displays information about objects crossing a line for a specific time.

- 1. In the client interface, click **Reports**.
 - The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- Click New Report.
- 4. Type a name for the report.
- 5. In the Report Type list, select Object Counts Across a Line.



- 6. To allow other users to run the report, select Allow other users to run this report.
- 7. Click OK.
- 8. In the **Cameras** section, perform the following tasks to add the cameras that provide information for the report:
 - a) Click **Add Cameras**.
 - b) Select one or more cameras.
 - You can search for cameras by camera name.
 - c) Click OK.
- 9. In the **Line** section, select the line across which to count objects.
- 10. In the **Date Range** section, perform the following tasks to determine the data that the report includes:
 - a) In the Start including data from section, define the start of the data.
 - b) In the **Stop including data after** section, define the end of the data.
 - c) To use data from a specific time range from each day, select Use custom time range for data collection and specify the time range.
- 11. In the **Schedule** section, perform the following tasks to determine when the report runs and what information is contains:
 - a) Select whether to run the report manually or on a schedule.
 - b) If you select to run the report on a schedule, set the schedule.
 - Specify the time from which to collect data for the report.
 You can set a relative time based on the report or select specific times.
 - Select how to group the data.
- 12. In the **Distribution** section, perform the following tasks to determine how Symphony distributes reports:
 - a) To send the report attached to an email, select **Send report in email**, specify the email addresses of the recipients, and select the file formats for the reports.
 - b) To save the report as a file, specify the path, define the file name, and select the file formats.
- 13. In the **Graph** section, perform the following tasks to determine the appearance of the graph in the report:
 - a) In the **Default Graph** list, select the alarm type to display.
 - b) In the **Graph Type** list, select whether the graph is a line or bar graph.
 - c) In the **Graph Size** list, select the size of the graph.
- 14. In the **Table Layout** section, perform the following tasks to determine the appearance of the table in the report:
 - a) In the **Columns** list, select the information that will appear in the columns of the report.
 - b) In the **Grouping** section, select how the information is grouped in the report.
 - c) In the **Sorting** section, select how the information is sorted in the report.
- 15. Click Save.

Create an object statistics report

The object statistics report displays information about objects traffic and dwell time for a specific time.

- In the client interface, click Reports.
 - The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- 3. Click New Report.
- 4. Type a name for the report.
- 5. In the **Report Type** list, select **Object Statistics**.
- 6. To allow other users to run the report, select Allow other users to run this report.



- 7. Click OK.
- 8. In the **Cameras** section, perform the following tasks to add the cameras that provide information for the report:
 - a) Click Add Cameras.
 - b) Select one or more cameras.
 - You can search for cameras by camera name.
 - c) Click **OK**.
- 9. In the **Date Range** section, perform the following tasks to determine the data that the report includes:
 - a) In the **Start including data from** section, define the start of the data.
 - b) In the **Stop including data after** section, define the end of the data.
 - c) To use data from a specific time range from each day, select **Use custom time range for data collection** and specify the time range.
- 10. In the **Schedule** section, perform the following tasks to determine when the report runs and what information is contains:
 - a) Select whether to run the report manually or on a schedule.
 - b) If you select to run the report on a schedule, set the schedule.
 - c) Specify the time from which to collect data for the report.You can set a relative time based on the report or select specific times.
 - d) Select how to group the data.
- 11. In the **Distribution** section, perform the following tasks to determine how Symphony distributes reports:
 - a) To send the report attached to an email, select **Send report in email**, specify the email addresses of the recipients, and select the file formats for the reports.
 - b) To save the report as a file, specify the path, define the file name, and select the file formats.
- 12. In the **Graph** section, perform the following tasks to determine the appearance of the graph in the report:
 - a) In the **Default Graph** list, select the alarm type to display.
 - b) In the **Graph Type** list, select whether the graph is a line or bar graph.
 - In the Graph Size list, select the size of the graph.
- 13. In the **Table Layout** section, perform the following tasks to determine the appearance of the table in the report:
 - a) In the **Columns** list, select the information that will appear in the columns of the report.
 - b) In the **Grouping** section, select how the information is grouped in the report.
 - c) In the **Sorting** section, select how the information is sorted in the report.
- 14. Click Save.

Run a report

You can manually generate a report at any time.

- In the client interface, click Reports.
 The Report Designer opens in a browser.
- 2. Log in to the Report Designer.
- 3. Select a report.
- 4. Click Run.

Alarms

Alarms occur when a video analytic running on a device detects the conditions of a rule.

In the client interface, alarms appear in the camera timeline.



Disable alarms for a camera

You can disable the alarms for a camera in the Symphony Client.

- 1. In the client interface, right-click a camera in the device tree.
- 2. Click Disable Alarms for Camera.
- 3. Specify the time (minutes) for which the alarms are disabled.
- Click OK.

To enable the alarm again, right-click the camera and click Enable Alarms for Camera.

Disable alarms for a server

You can disable the alarms for cameras on the Symphony Server to which the Symphony Client is connected.

- 1. In the client interface, click Alarms > Disable Alarms for Server.
- 2. Specify the number of minutes for which to disable the alarms.
- 3. Click OK.

To manually enable alarms without waiting for the time to elapse, click **Alarms > Enable Alarms for Server**.

Alarm console

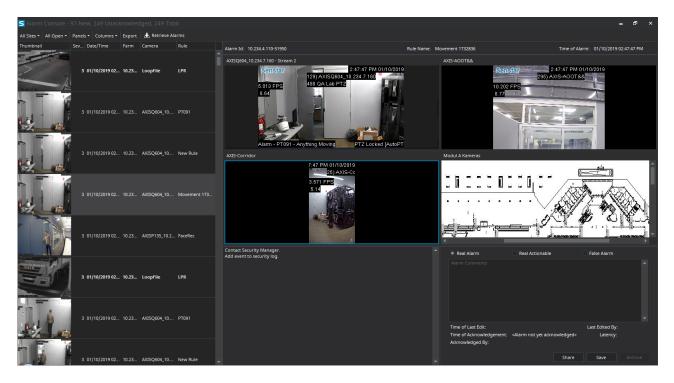
The alarm console in the Symphony Client includes functionality to view and manage alarms.

The alarm console appears in the client interface as a collapsible sidebar by default. When in the sidebar, the alarm console displays a list of alarms that includes an icon to illustrate the alarm type and alarm details. Clicking an alarm in the list will display the alarm video in the active camera view panel.

The alarm console also includes an advanced mode that opens the alarm console in its own window. In advanced mode, the alarm console includes additional functionality to filter, export, and manage alarms. When the alarm console is in the advanced mode, it does not appear as a sidebar in the client interface. The alarm console includes the following components:

- Alarm list
- View panels (display one to four in the Alarm Console section on the Action Sets page in the server configuration interface)
- Instruction pane (Instruction section on the Action Sets page in the server configuration interface)
 - Note: If you add a file, you can zoom on the file by hold the CTRL button and using the mouse scroll wheel.
- Acknowledgment pane





Retrieve alarms

You can retrieve alarms for dates that are not included in the alarm list.

Depending on how you sort the alarm log, the alarms that you retrieve might not appear at the top of the list.

- 1. In the client interface, click View > Alarm Log.
- 2. Click Retrieve Alarms.
- 3. Select a date.

Export an alarm list

You can export alarms from the client interface.

When exporting alarms, Symphony supports the following formats:

- PDF
- HTML
- MHT
- RTF
- XLS
- XLSX
- CSV
- Text
- Image
- 1. In the client interface, click View > Alarm Log.
- 2. Filter and sort the alarms until you get the list that you want to export.
- 3. Click Print And Export To.

The amount of time it takes Symphony to process the export file increases with the number of alarms you want to export.

4. In the **Preview** window, click **File** > **Export Document**.



- Click the file format.
- 6. Specify the options for the output and click **OK**.

Share an alarm

You can share an alarm with any user who is logged in to the Symphony Client.

When you share an alarm with a user, the Symphony Client displays a message for the user in the client interface.

- 1. In the alarm console sidebar, click **Advanced Mode**.
- 2. Select the alarm.
- Click Share.
- 4. In the **Share Event** window, select a user.
- 5. Click Share.

Acknowledge an alarm

- 1. In the alarm console sidebar, click **Advanced Mode**.
- Select the alarm.
- 3. Select the type of the alarm.
 - Real Alarm
 - · Real Actionable
 - False Alarm
- 4. Type any comments that you want to add to the alarm.
- 5. Click Save.

Visual tracking

The visual tracking feature allows you to add links to cameras that will automatically switch the camera view panel to an adjacent camera. You can use this feature to track a moving subject across multiple cameras.

Visual tracking links appear as transparent overlays in the camera view panel. The link includes the camera identification number for the camera to which the link goes. You can customize both the location and shape of the links to adjacent cameras to make the links more meaningful in the scene. For example, you can customize the location and shape of a link to cover a door that leads to an area in the scene the adjacent camera.

When you click a visual tracking link, the camera view panel switches to the camera that the link references.

Add a visual tracking link

You can add to visual tracking link to a camera view panel in the client interface.

- 1. In the client interface, open the camera to which you want to add the visual tracking link in a camera view panel.
- Press and hold the Alt key.
- 3. In the device tree, left-click and hold the camera to which you want to link.
- 4. Drag the target camera to the desired location.
- 5. Release the Alt key and mouse button.
- 6. To move the link, perform the following steps:
 - a) Press and hold the Alt key.



- b) Click the link.
- c) Left-click and hold the hand icon.
- d) Drag the link to the desired location.
- e) Release the Alt key and mouse button.
- 7. To change the shape of the link, perform the following steps:
 - a) Press and hold the Alt key.
 - b) Click the link.
 - c) Left-click and hold an anchor point.
 - d) Drag the anchor point to the desired location.
 - e) Release the Alt key and mouse button.



Symphony Web Client

The Symphony Web Client includes functionality to monitor cameras, manage video, generate reports, and configure alarms.

The Web Client is designed to mimic the Symphony Client as much as possible. Most core features of the Client are available in the Web Client. In addition, the Web Client includes the Report Designer.

Each Symphony Server has a dedicated Web Client.

Related concepts

Introduction on page 5

Senstar Symphony is an award-winning, intelligent video surveillance software that offers a single, innovative, and open IP video platform for video management, video analytics, system integration, and alarm management.

Symphony Server on page 8

The Symphony Server includes functionality to manage devices, security, rules, sites, and settings.

Symphony Client on page 70

The Symphony Client includes functionality to monitor cameras, manage video, generate reports, and configure alarms.

Symphony Player on page 106

The Symphony Player is an application that can view video files created in the Symphony Client.

Log in to the Web Client

You can open the **Web Client** in a browser.

You can also access the server configuration interface from the Web Client.

- 1. In a browser, navigate to the IP address of your Symphony Server.
- 2. In the language list, select your language.
- 3. Type your username and password.
- Click Web Client.

Configure the Web Client

- In the server configuration interface, click Settings > General Settings.
- To use load balancing with the Web Client, select Randomly redirect master server logins to other available servers in the farm.
- 3. Set how often the Web Client refreshes the information on the Monitoring tab in the **Refresh rate** field.
- To use an ICE serve, complete the following tasks:
 - a) Select Use an ICE Server.
 - b) Select the type of the ICE server (either TURN or STUN).
 - c) In the URL field, type the IP address of the ICE server.
 - d) In the **Username** field, type the username that Symphony uses for authentication with the ICE server.
 - In the **Password** field, type the password that Symphony use for authentication with the ICE server.
- Click Save.



Symphony Player

The Symphony Player is an application that can view video files created in the Symphony Client.

The Player is a lightweight solution that allows you to view video and search results from Symphony. By default, the Player installs with the Client and the Server, but you can also install it as a standalone application.

Related concepts

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Symphony Client on page 70

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Symphony Web Client on page 105

The Symphony Web Client includes functionality to monitor cameras, manage video, generate reports, and configure alarms.

Install the Player

You can install the Symphony Player as a standalone application.

- 1. Download and run the installer.
- Select the language and click OK.
- Review the license terms and conditions, select I accept the terms in the License Agreement, and click Next.
- Select the installation location.
- 5. Select whether to install the Remote Support Tool.
- Click Next.
- 7. Click Install.
- 8. Click Close.

Enable watermark verification

You can enable watermark verification for the Symphony Player to prevent the Player from playing tampered video.

- 1. Open the acc.ini file at %appdata%\Senstar7.
- 2. Add the following values:

```
[VideoRecvCTRL]
UseWatermarking=True
```

3. Save and close the acc.ini file.

Related concepts

Watermarking on page 30



Symphony uses watermarking to detect tampered video and audio. Watermarking works in the Symphony Client, Symphony Player, and Symphony Web Client.

Related tasks

Enable watermarking on page 31

When you enable watermarking, the Symphony Server adds watermarks to recorded video and the Symphony Client verifies watermarks when playing video.

Play a video file

You can play video from a file or a URL.

You can export a video file from camera view panels or search results in the Client.

You can generate a video URL by exporting search results by exporting search results as an email link. To play video from a URL, the computer hosting the Player must be on the same network as the Server.

- 1. In the Player, perform one of the following tasks:
 - To play video from a file, click **File** > **Play From File**, navigate to the file, and click **Open**.
 - To play video from a URL, click File > Play From URL, type the URL, and click OK.
- 2. To show decorations, click **Decorations** and select or clear decorations.
- 3. To zoom, click **Zoom** and either **Zoom In** or **Zoom Out**.
- 4. To set the playback speed, move the **Speed** slider to the desired speed.
- 5. To navigate through the video, use the following controls:

Option	
Play/Pause	Play or pause the video.
< snippet	Move backwards to the last activity in the video.
< frame	Move backwards one frame.
frame >	Move forwards one frame.
snippet >	Move forwards to the next activity in the video.
Slider	Move the slider to navigate to the corresponding position in the video.



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