

# Administrator manual

## MOBOTIX HUB Video Wall 2024 R2

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## Copyright

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## Overview

### MOBOTIX HUB Video Wall

MOBOTIX HUB Video Wall is an advanced extension that enables organizations to create video walls that meet their specific security demands. MOBOTIX HUB Video Wall provides an overview of all the video data in the MOBOTIX HUB VMS<sup>1</sup> system and supports any amount or combination of monitors.



MOBOTIX HUB Video Wall allows operators to view static video walls as defined by their system administrator with a fixed set of cameras and monitor layout. However, the video wall is also operator-driven in the sense that operators can control what is being displayed. This includes:

- Pushing cameras and other types of content to the video wall, for example images, text, alarms, and smart map
- Sending entire views to the monitors
- In the course of certain events, applying alternate [presets](#)<sup>2</sup>

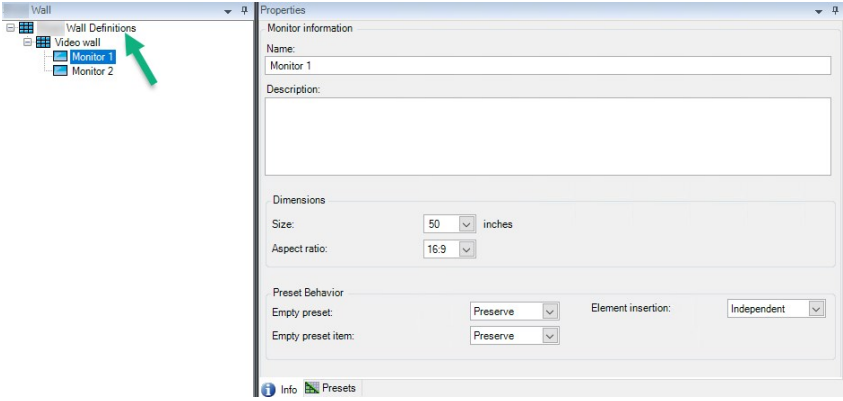
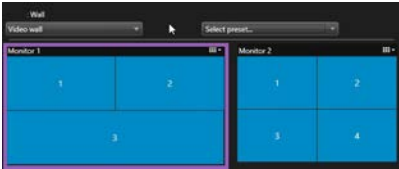
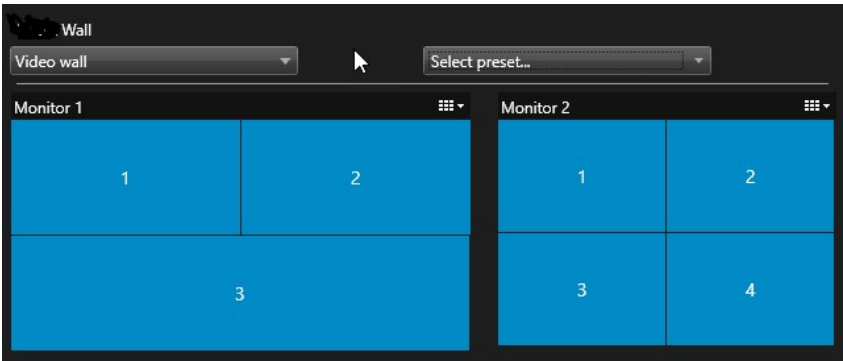
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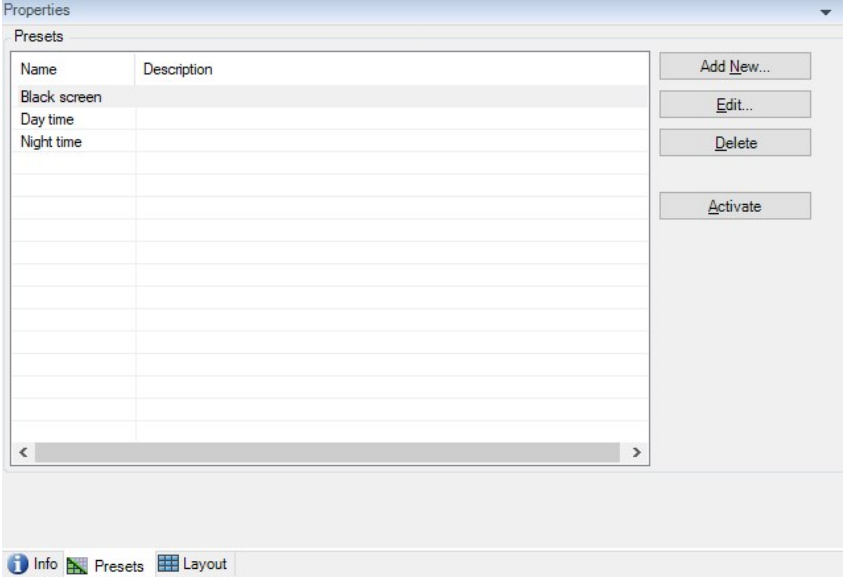
<sup>1</sup>Short for "Video Management Software".

<sup>2</sup>A predefined layout for one or more Video Wall monitors in MOBOTIX HUB Desk Client. Presets determine which cameras are displayed, and how content is structured on each monitor on the video wall.

Finally, display changes can be controlled by rules that automatically change the presets based on specific events or time schedules.

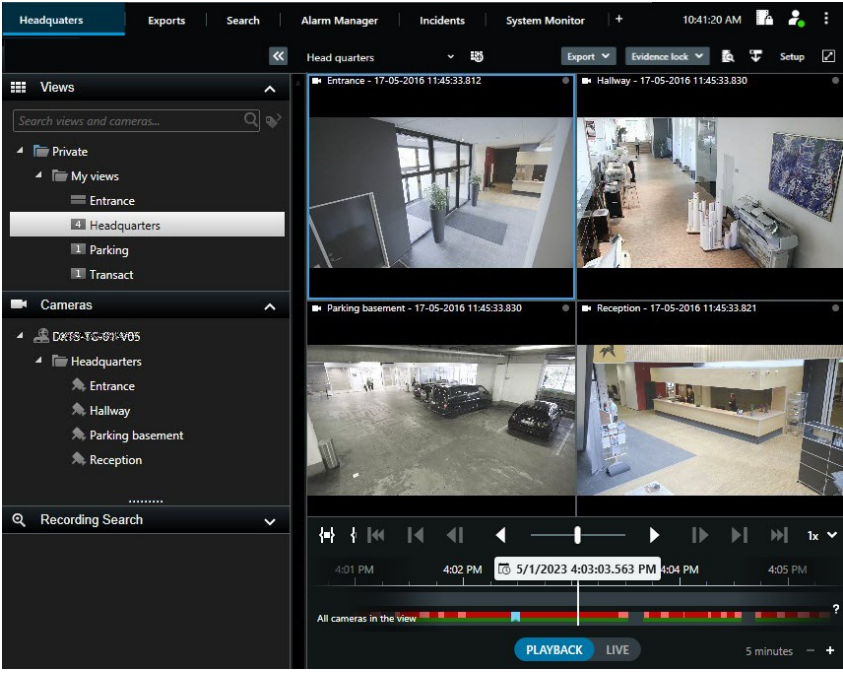
## Terminology related to Video Wall

Term	Meaning
<p>Video Wall definition</p>	<p>The configuration of a video wall in MOBOTIX HUB Management Client, including the setup of Video Wall monitors and presets.</p> 
<p>Video Wall monitor</p>	<p>The virtual representation of a physical monitor. In most cases, we need to distinguish between physical monitors and Video Wall monitors.</p>  <p>The image shows the Video Wall control in MOBOTIX HUB Desk Client.</p>
<p>Video Wall control</p>	<p>The virtual representation of a video wall that allows operators to push content onto the video wall.</p> 

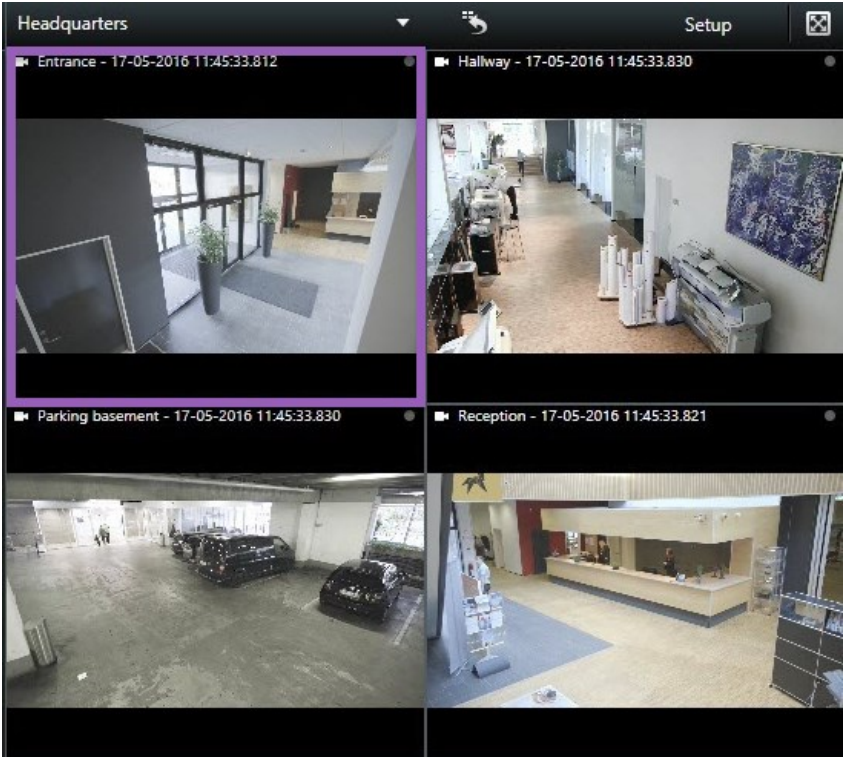
Term	Meaning
Preset	<p>A predefined layout for one or more Video Wall monitors. Presets determine which cameras are displayed, and how content is laid out on each monitor on the video wall.</p>  <p>If you come across the term "preset" in the context of PTZ cameras, then it has a different meaning and refers to the concept <a href="#">preset position</a><sup>1</sup>.</p>
View	<p>A grouping of cameras or other elements, for example webpages, that allows operators to view video from related cameras and other types of content.</p>

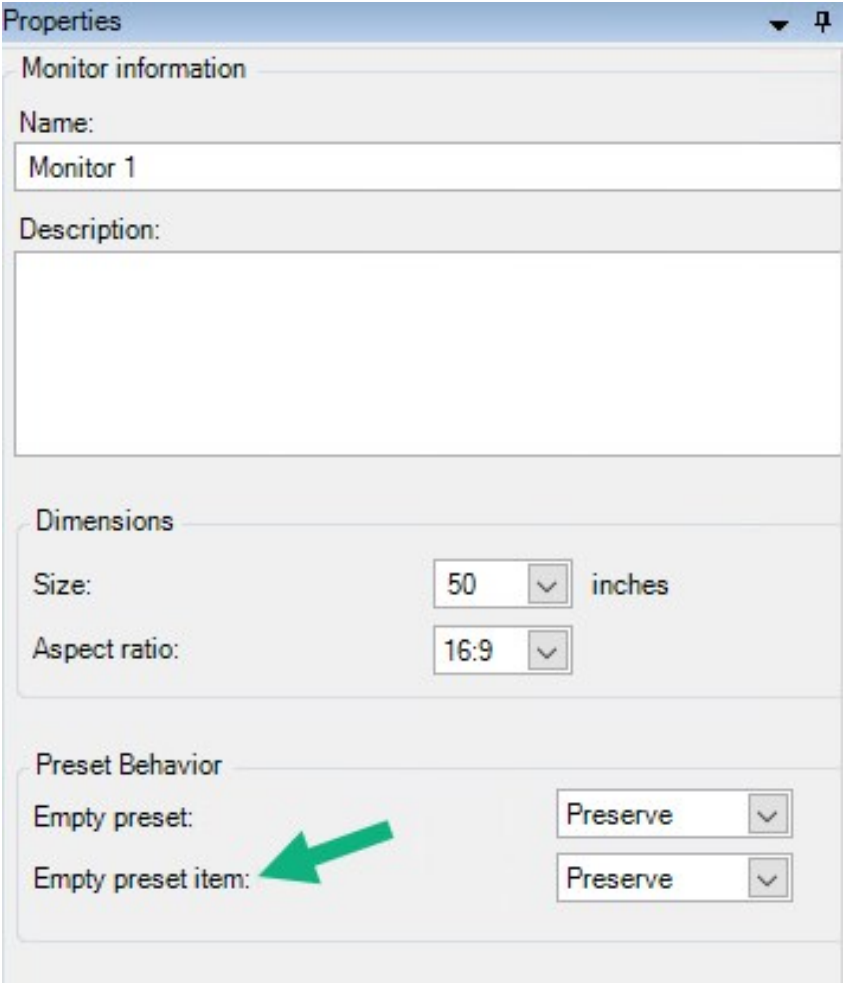
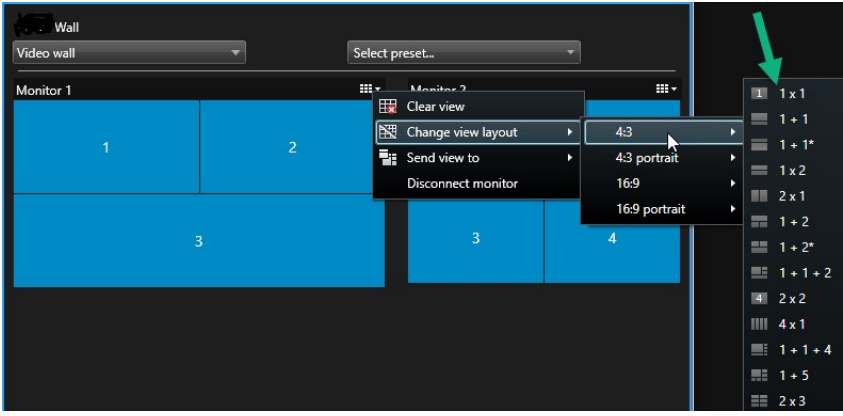
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<sup>1</sup>Can be used for making the PTZ camera automatically move in different defined directions when particular events occur, and for specifying PTZ patrolling profiles.

Term	Meaning
	
View item	A position within a view that typically holds a camera.



Term	Meaning
	 A screenshot of a video surveillance interface. The interface has a dark header with the text 'Headquarters' on the left and 'Setup' on the right. Below the header, there are four camera feeds arranged in a 2x2 grid. The top-left feed is titled 'Entrance - 17-05-2016 11:45:33.812' and shows a modern office lobby with large windows and a reception desk. The top-right feed is titled 'Hallway - 17-05-2016 11:45:33.830' and shows a long, brightly lit hallway with a wooden floor and a wall-mounted map. The bottom-left feed is titled 'Parking basement - 17-05-2016 11:45:33.830' and shows an underground parking garage with several cars parked. The bottom-right feed is titled 'Reception - 17-05-2016 11:45:33.821' and shows a reception desk with a counter and a staff member. The 'Entrance' feed is highlighted with a purple border.
Preset item	A view item where its default content depends on the configuration of the underlying preset.

Term	Meaning
	 <p>The screenshot shows a 'Properties' dialog box with the following sections:</p> <ul style="list-style-type: none"> <li><b>Monitor information:</b> Name: Monitor 1, Description: (empty text area)</li> <li><b>Dimensions:</b> Size: 50 inches, Aspect ratio: 16:9</li> <li><b>Preset Behavior:</b> Empty preset: Preserve, Empty preset item: Preserve (indicated by a green arrow)</li> </ul>
View layout	<p>The layout of a Video Wall monitor that defines how to arrange the view items, for example 2x3 or 1+2.</p>  <p>The screenshot shows a video wall interface with a 2x2 grid of monitors labeled 1, 2, 3, and 4. A context menu is open over the grid, showing options like 'Change view layout' and 'Send view to'. A green arrow points to the '1 x 1' option in the menu.</p>

### Get started

Before you can start using MOBOTIX HUB Video Wall, you need to:

1. Get and activate a base license for MOBOTIX HUB Video Wall. See also [MOBOTIX HUB Video Wall licensing on page 12](#).
2. Configure MOBOTIX HUB Video Wall and set the user permissions in MOBOTIX HUB Management Client. See also [Configuring MOBOTIX HUB Video Wall on page 16](#) and [Specify user permissions for MOBOTIX HUB Video Wall on page 25](#).
3. Optionally, you can make the [Video Wall control](#)<sup>1</sup> available to operators in MOBOTIX HUB Desk Client.

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<sup>1</sup>A graphical representation of a video wall that allows you to control what is displayed on the different monitors.

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# Licensing

## MOBOTIX HUB Video Wall licensing

MOBOTIX HUB Video Wall requires the following video wall-related licenses:

- A **base license** for MOBOTIX HUB Video Wall that covers an unrestricted number of monitors displaying video on a video wall

Use of MOBOTIX HUB Video Wall is only supported in these products:

- MOBOTIX HUB L5 - a base license for MOBOTIX HUB Video Wall is included in the base license
- MOBOTIX HUB L4 - purchase a base license for MOBOTIX HUB Video Wall separately

## Requirements and considerations

### MOBOTIX HUB Video Wall and MOBOTIX Federated Architecture

If the central site uses MOBOTIX HUB Video Wall, you can also use the MOBOTIX HUB Video Wall features in the federated site hierarchy.

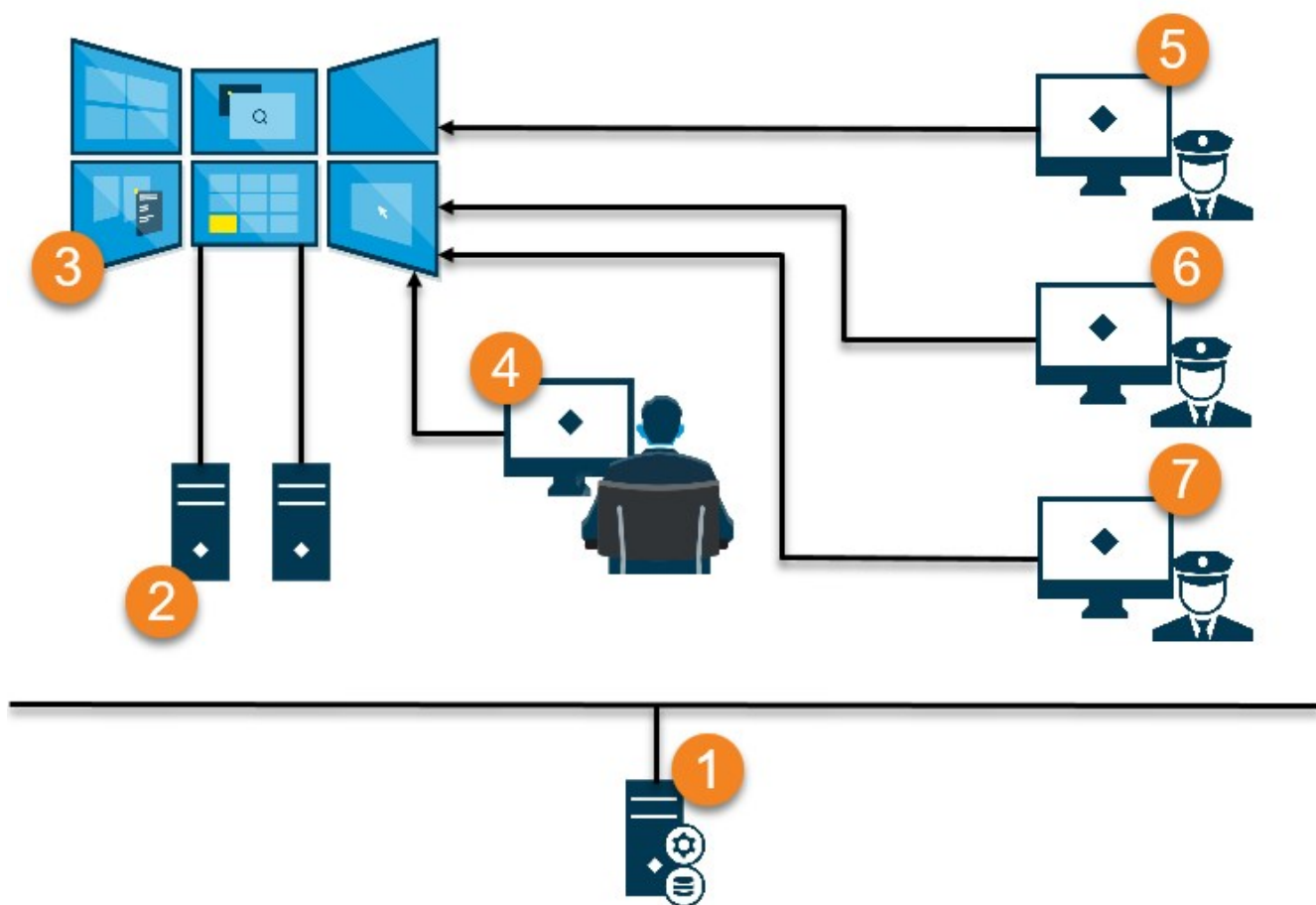
### Scenarios of how to configure your video wall

There is no right or wrong way of setting up your video wall. It depends on your surveillance needs and the setup of your MOBOTIX HUB VMS system.

Here are two examples of how you could set up your video wall:

1. Example 1: A single-site MOBOTIX HUB VMS system with a video wall consisting of six physical monitors.
2. Example 2: A two-site MOBOTIX HUB VMS system with a relatively large video wall consisting of sixteen physical monitors.

#### Example 1 - video wall with six physical monitors in a single-site setup



## Requirements and considerations

Explanation of the illustration:

1. The MOBOTIX HUB VMS server (the Management Server) that operators and system administrators connect to when they log in to MOBOTIX HUB Desk Client or MOBOTIX HUB Management Client.
2. Two unattended computers with MOBOTIX HUB Desk Client installed which are dedicated to driving the video wall. Six physical monitors are connected to these computers.
3. The video wall and its physical monitors.
4. In this example, the control room operator has the overall control of the video wall and decides what to display. They use their own computer to control what happens on the video wall by:
  - Opening the Video Wall monitors on their own displays or monitors. Whatever action the operator takes, it is mirrored on the video wall, for example, playing back recorded video
  - Using the Video Wall control

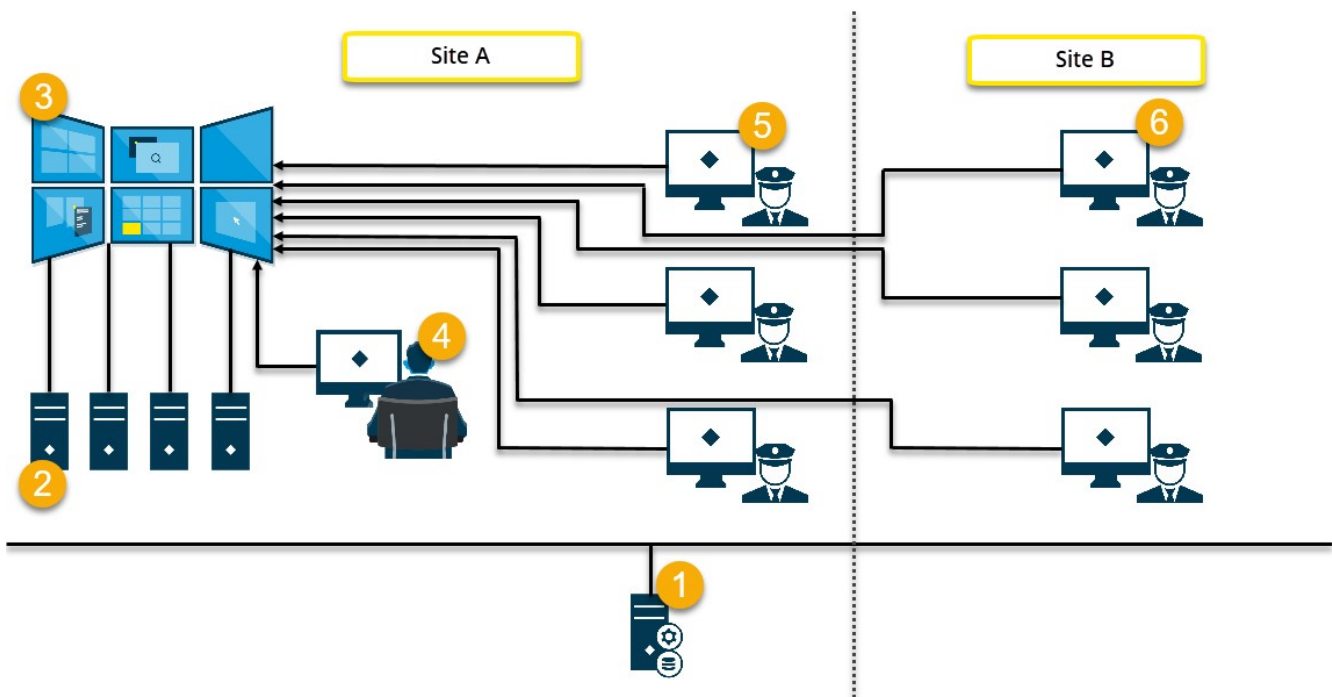


The control room operator is typically physically present in front of the video wall, but can also be located elsewhere.

5. (5, 6, 7) Operators typically have their own computers with MOBOTIX HUB Desk Client installed and use the Video Wall control to push content onto a video wall. When an incident occurs, the operators can respond by sharing content with other people who are watching the video wall. Such content can be, for example, a bookmarked video sequence or an image of a suspect.

Operators may sit in front of the video wall, but can also be situated elsewhere on the same site.

### Example 2 - video wall with sixteen physical monitors in a multi-site setup



## Requirements and considerations

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Explanation of the illustration:

1. The MOBOTIX HUB VMS server (the Management Server) that operators and system administrators connect to when they log in to MOBOTIX HUB Desk Client or MOBOTIX HUB Management Client.
2. Four unattended computers with MOBOTIX HUB Desk Client installed which are dedicated to driving the video wall. When the number of physical monitors increase, MOBOTIX recommends that you distribute the load across multiple computers. In this example, there are four computers with four physical monitors distributed on each.
3. The video wall and its physical monitors.
4. In this example, the control room operator has the overall control of the video wall and decides what to display. They use their own computer to control what happens on the video wall by:
  - Opening the Video Wall monitors on their own displays or monitors. Whatever action the operator takes, it is mirrored on the video wall, for example, playing back recorded video
  - Using the Video Wall control



The control room operator is typically physically present in front of the video wall, but can also be located elsewhere.

5. Operators typically have their own computers with MOBOTIX HUB Desk Client installed and use the Video Wall control to push content onto a video wall. When an incident occurs, the operators can respond by sharing content with other people who are watching the video wall. Such content can be, for example, a bookmarked video sequence or an image of a suspect.

Operators on site A may be placed in front of the video wall, but can also be placed elsewhere, for example in other rooms or buildings.

6. Operators on site B do not have visual contact with the video wall, but they can view the Video Wall monitors on their own displays or monitors. When an incident requires attention, they can use the Video Wall control to push content onto the video wall.

# Configuration

## Configuring MOBOTIX HUB Video Wall

You can configure any number of Video Wall definitions. Configuring a Video Wall definition is a two-step process. First, you configure your Video Wall definition in MOBOTIX HUB Management Client, including setting user permissions and defining rules. Second, to enable operators to manually push content onto the video wall, MOBOTIX recommends that you add a [Video Wall control](#)<sup>1</sup> to dedicated views in MOBOTIX HUB Desk Client.

In MOBOTIX HUB Management Client:

1. Create the Video Wall definition and set the general properties, including the name and properties of the view items. See also [Create Video Wall definitions on page 16](#).
2. Add the Video Wall monitors, then set their size and position so they are consistent with the physical monitors of your video wall. See also [Add Video Wall monitors on page 17](#) and [Position Video Wall monitors on page 19](#). The Video Wall control in MOBOTIX HUB Desk Client uses these settings and shows how the monitors have been organized, for example next to or below each other.
3. (optional) Create the empty Video Wall [presets](#)<sup>2</sup> that are required to define the monitor view layout and add the default cameras at a later stage. See also [Create presets for your Video Wall definition on page 21](#).
4. (optional) For each monitor, select a preset, define its view layout, and add the default cameras. See also [Define view layout and add cameras on page 22](#).



When to use presets? If you want operators to push cameras and views onto the Video Wall manually, you do not need to create presets. However, if you plan to use rules to automatically change what to display on the video wall, you must define presets.

In MOBOTIX HUB Desk Client:

1. To allow operators to push content onto the video wall, create the views you need and add the Video Wall control. With the Video Wall control you can drag-and-drop or send cameras, entire views, and other types of content to individual monitors.
2. Change the view layout of individual Video Wall monitors that have been defined in MOBOTIX HUB Management Client.
3. Reset or change the presets already applied to the Video Wall definition.

## Create Video Wall definitions

To configure a Video Wall definition, you must first create it in MOBOTIX HUB Management Client. Repeat the following steps for each Video Wall definition that you want to create:

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<sup>1</sup>A graphical representation of a video wall that allows you to control what is displayed on the different monitors.

<sup>2</sup>A predefined layout for one or more Video Wall monitors in MOBOTIX HUB Desk Client. Presets determine which cameras are displayed, and how content is structured on each monitor on the video wall.



1. In MOBOTIX HUB Management Client, expand **Client** and select **Video Wall**.
2. In the **Video Wall** pane, right-click **Video Wall Definitions** and select **Add Video Wall**. A window appears.

The screenshot shows a dialog box titled "Add [redacted] Wall" with a close button (X) in the top right corner. The dialog is divided into two main sections. The first section, "Wall information", contains a "Name:" label followed by a text input field containing "My video wall". Below this is a "Description:" label followed by a large, empty text area. The second section, "General View Item Properties", contains three radio button options: "Status text" (checked), "No title bar", and "Title bar" (selected). At the bottom of the dialog are two buttons: "OK" and "Cancel".

3. Specify the settings for the Video Wall.
4. In the **General View Item Properties** settings, specify if you want system status information and title bars to appear above the cameras in the views.
5. Click **OK**. The Video Wall definition is added to the Video Wall pane.
6. Next, add the Video Wall monitors. See also [Add Video Wall monitors on page 17](#).

### Add Video Wall monitors

When you have created your Video Wall definition, you must add the Video Wall monitors that your video wall consists of and specify the monitor settings.

#### Requirements

You have created at least one Video Wall definition. See also [Create Video Wall definitions on page 16](#).

Steps:

1. In the **Video Wall** pane, right-click your **Video Wall** definition and select **Add Monitor**. A window appears.

**Add Monitor** [Close]

**Monitor information**

Name:

Description:

**Dimensions**

Size:  inches

Aspect ratio:

**Preset Behavior**

Empty preset:     Element insertion:

Empty preset item:

2. Configure the size and aspect ratio of the monitor, so that it matches one of the physical monitors on the video wall.

### 3. Specify the preset behavior.

- **Empty preset** - control what happens in MOBOTIX HUB Desk Client when an operator applies an empty preset:
  - **Preserve** - keep what is currently being displayed
  - **Clear** - replace the current content with the empty preset
- **Empty preset item** - control what happens in MOBOTIX HUB Desk Client to individual preset items when an operator applies a preset with empty preset items:
  - **Preserve** - keep what the preset item is currently displaying
  - **Clear** - replace the preset item with the empty preset item
- **Element insertion** - control what happens in MOBOTIX HUB Desk Client when an [operator](#)<sup>1</sup> drags a camera onto an item in the preset:
  - **Independent** - replace the camera already in the preset item with the new camera
  - **Linked** - push the content from left to right from the view item where you inserted the new camera

4. Click **OK** to save your changes.

5. Keep adding Video Wall monitors until the number of Video Wall monitors matches the number of physical monitors.

6. Next, position the monitors. See also [Position Video Wall monitors on page 19](#).

## Position Video Wall monitors

When you have added the monitors to your Video Wall definition, you must position the different monitors to match the setup of the physical monitors on the video wall.

### Example

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<sup>1</sup>A professional user of an MOBOTIX HUB client application.



The image in the example shows the Video Wall control in MOBOTIX HUB Desk Client. The four monitors are laid out in sequence and in two rows - starting with **Monitor 1** and ending with **Monitor 4**.

### Requirements

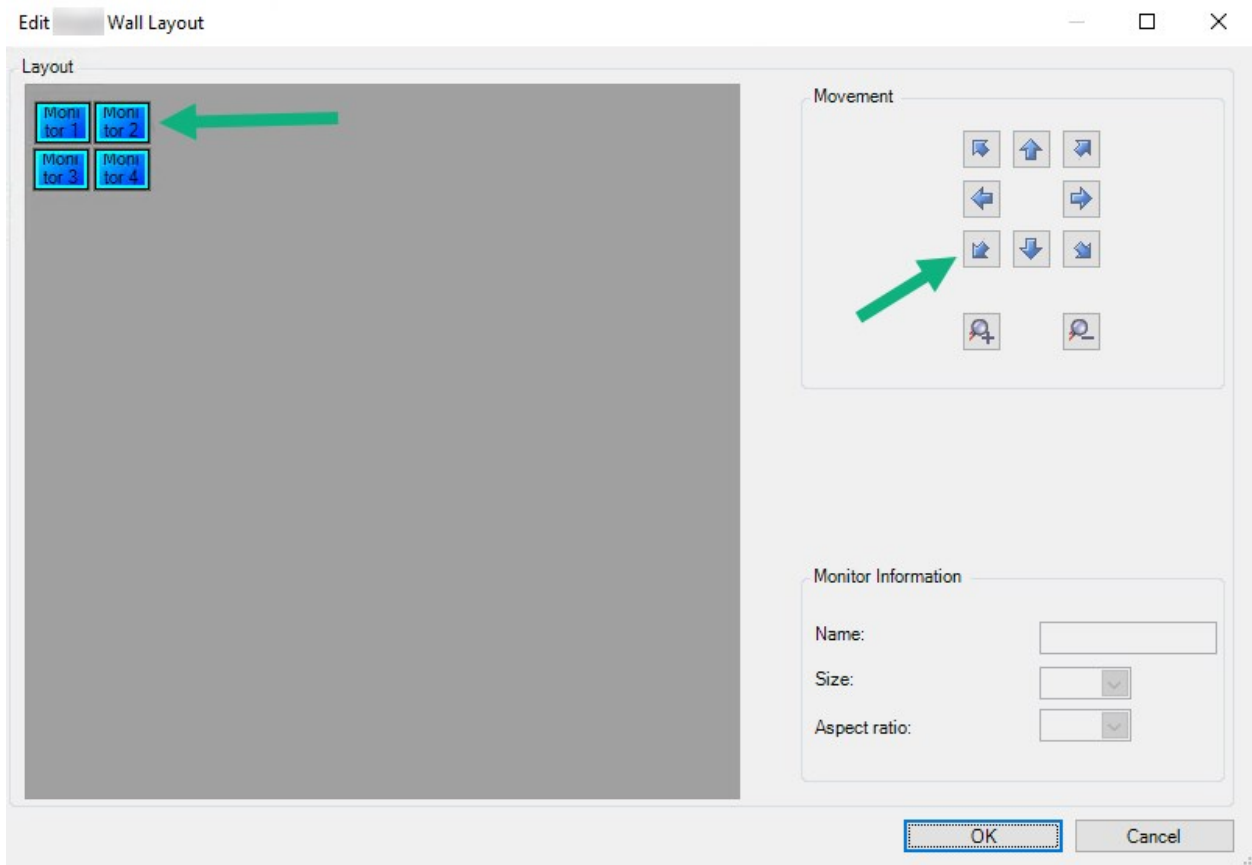
You have added the monitors to your Video Wall definition. See also [Add Video Wall monitors on page 17](#).



Steps:

1. In the **Video Wall** pane, select your Video Wall.
2. In the **Properties** pane, click the **Layout** tab.



3. Click the **Edit** button. A window appears.



4. Drag and drop the monitors to position them, or use the arrows.
5. Click  or  to zoom in or out.
6. If you have not already specified the size and aspect ratio of the monitors, you can do that now.
7. Click **OK** to save your changes. The positioning and sizing of monitors are visualized in the Video Wall control in MOBOTIX HUB Desk Client.
8. Next, add [presets](#)<sup>1</sup>. Adding presets is a requirement for specifying the layout of Video Wall monitors and adding cameras to your monitors. See also [Create presets for your Video Wall definition on page 21](#).

### Create presets for your Video Wall definition

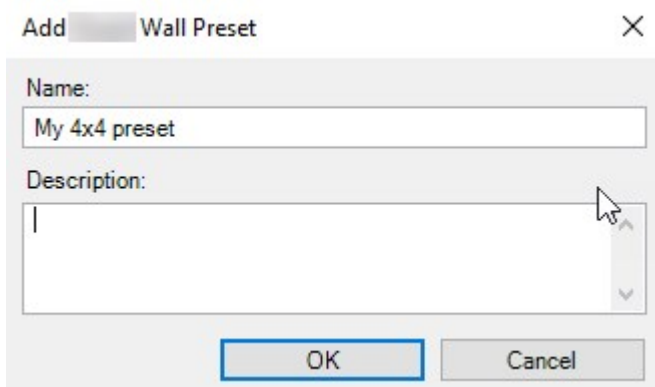
With presets, you can configure what your video wall or specific monitors show. Create as many presets as you need.

Steps:

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<sup>1</sup>A predefined layout for one or more Video Wall monitors in MOBOTIX HUB Desk Client. Presets determine which cameras are displayed, and how content is structured on each monitor on the video wall.

1. In the **Video Wall** pane, select your Video Wall.
2. In the **Properties** pane, click the **Presets** tab.
3. Click **Add New**. A window appears.



4. Enter a type and add a description if you want to.
5. Click **OK** to save your changes.
6. Repeat the steps above for each preset that you want to add.
7. Next, add view layout and cameras to the monitors. See also [Define view layout and add cameras on page 22](#).

### Define view layout and add cameras

To control what to display on a monitor, you must select a preset, define a view layout, for example **2x2**, and then possibly add cameras.



- One preset typically covers all the monitors of the video wall. For each of those monitors, select the same preset and configure it according to what the monitor shall display.
- Presets can also be empty, which may be helpful if you are using blank screen monitoring. See also [Blank screen monitoring \(explained\) on page 31](#).

### Requirements

At least one preset has been created. See also [Create presets for your Video Wall definition on page 21](#).


Steps:

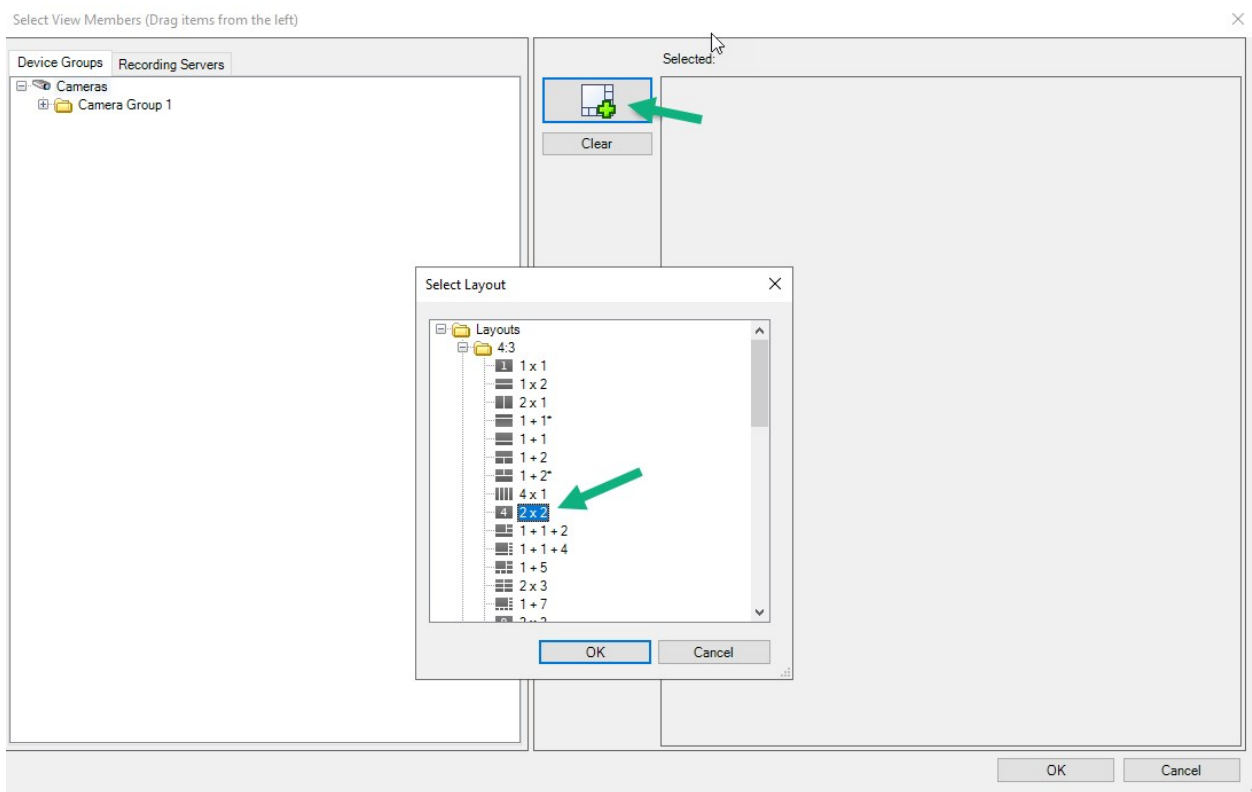
1. In the **Video Wall** pane, select the monitor that you want to add cameras to.
2. In the **Properties** pane, click the **Presets** tab.
3. Select the preset.

## Configuration

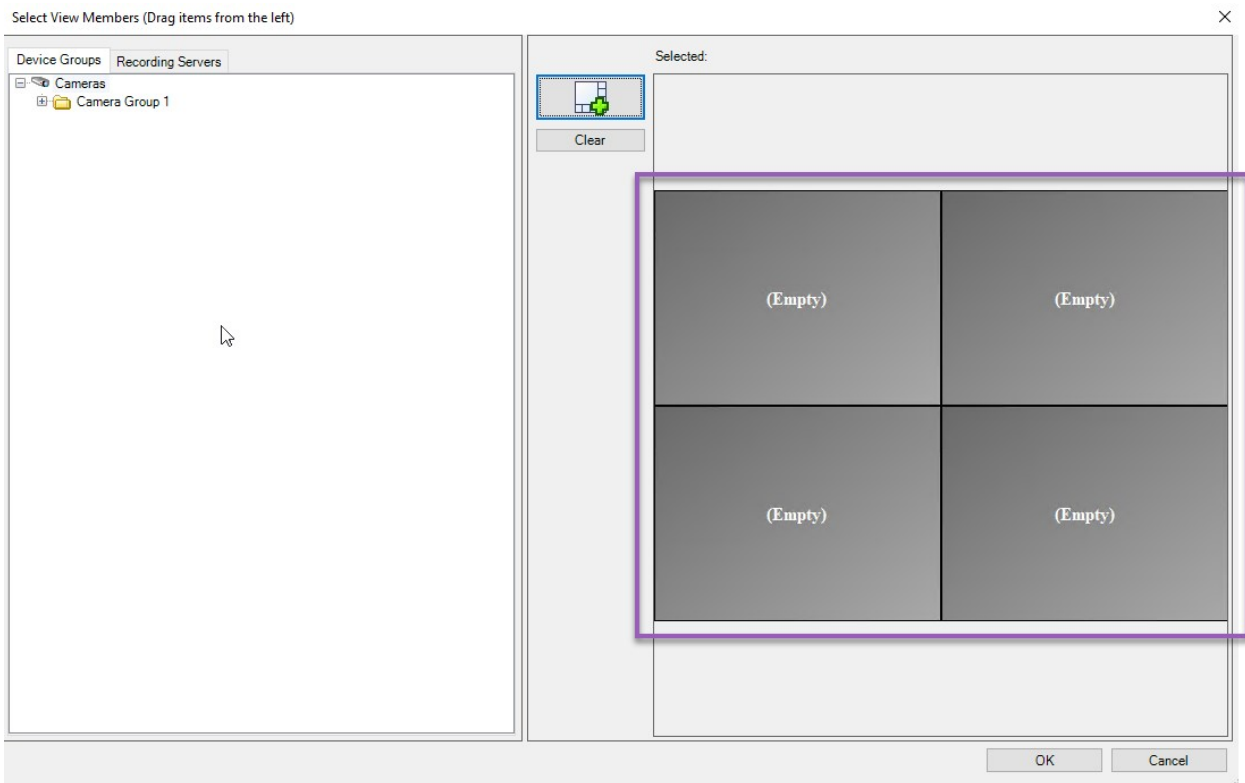
4. Click **Edit**. A window appears.



5. Click . An additional window appears.



6. Select a layout and click **OK**. The layout is shown on the right-hand side of the first window.



7. From the **Device Groups** or **Recording Servers** tab, drag the cameras onto the preset items - one by one. You can also leave preset items empty.
8. Click **OK** to save your changes.
9. Repeat the steps above for each monitor.
10. Now, you can start using your **Video Wall** in MOBOTIX HUB Desk Client.



You must also configure the operators' user permissions for using MOBOTIX HUB Video Wall. See also [Specify user permissions for MOBOTIX HUB Video Wall on page 25](#).

### Activate presets for your Video Wall definition

To view Video Wall content in MOBOTIX HUB Desk Client, first you must activate the presets created for your Video Wall definitions. You can also activate the presets in MOBOTIX HUB Desk Client.

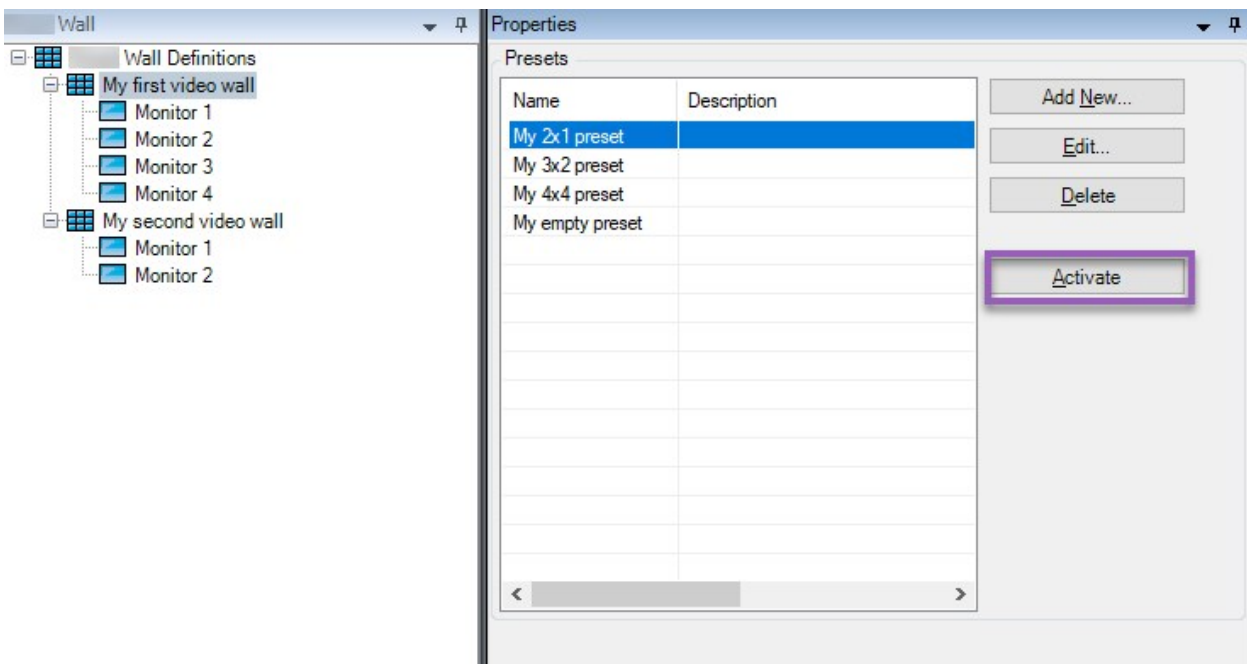
Steps:



## Configuration

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1. In the **Video Wall** pane, select the Video Wall definition.



2. For each required preset, click **Activate**. You can also activate the presets manually in MOBOTIX HUB Desk Client.

## Specify user permissions for MOBOTIX HUB Video Wall

Specify the user permissions for MOBOTIX HUB Video Wall to control the video wall-related tasks that users are allowed to perform in MOBOTIX HUB Desk Client or MOBOTIX HUB Management Client. See also [User permissions for Video Wall \(explained\)](#) on page 27.

### Requirements

You have configured at least one role.

Steps:

## Configuration

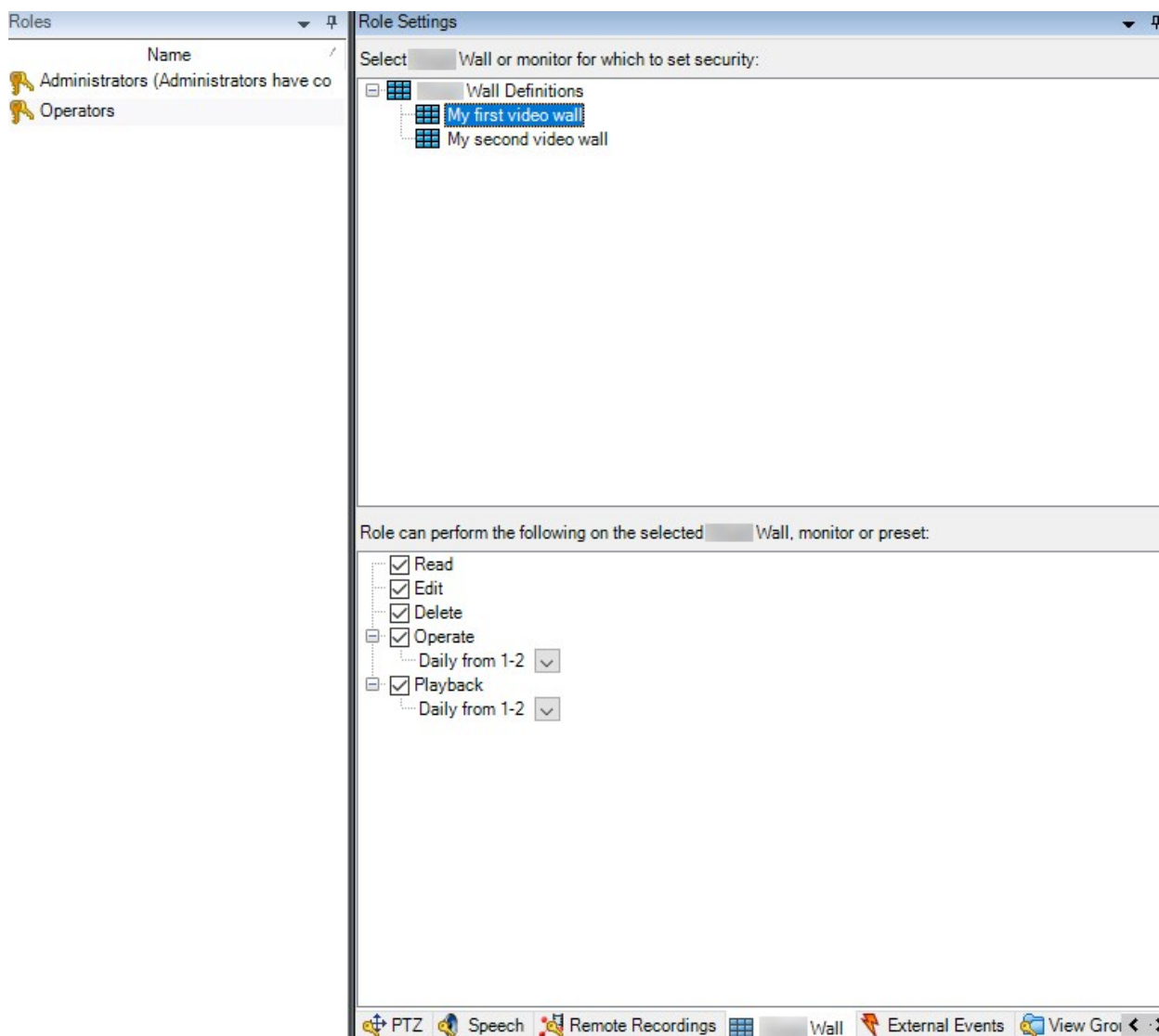
1. In the **Site Navigation** pane, expand **Security** and select **Roles**.
2. In the **Roles** pane, select an existing role, or create a new role by right-clicking and selecting **Add Role**.
3. To set user permissions for all Video Wall definitions, click the **Overall Security** tab.

The screenshot displays the 'Role Settings' window. On the left, a 'Roles' pane shows a list of roles: 'Administrators (Administrators have co...)' and 'Operators'. The main area is titled 'Role Settings' and contains a dropdown menu to 'Select a security group for which to set security'. Below this is a list of security groups: Microphones, Speakers, Metadata, Input, Output, Wall, View Groups, User-defined Events, Analytics Events, Generic Events, Matrix, and Rules. The 'Wall' group is selected. Below the list, a table shows permissions for the selected group. The table has columns for 'Allow' and 'Deny'. The 'Full control' row is highlighted, and all permissions listed below it are checked in the 'Allow' column.

	Allow	Deny
Full control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Read	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Edit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Delete	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Operate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Create Wall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manage security	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Playback	<input checked="" type="checkbox"/>	<input type="checkbox"/>

At the bottom of the window, a navigation bar includes tabs for 'Info', 'Users and Groups', 'Overall Security', 'Device', 'PTZ', 'Speech', 'Remote Recordings', 'Wall', and 'External Ever'.

- To set user permissions for specific Video Wall definitions, click the **Video Wall** tab.



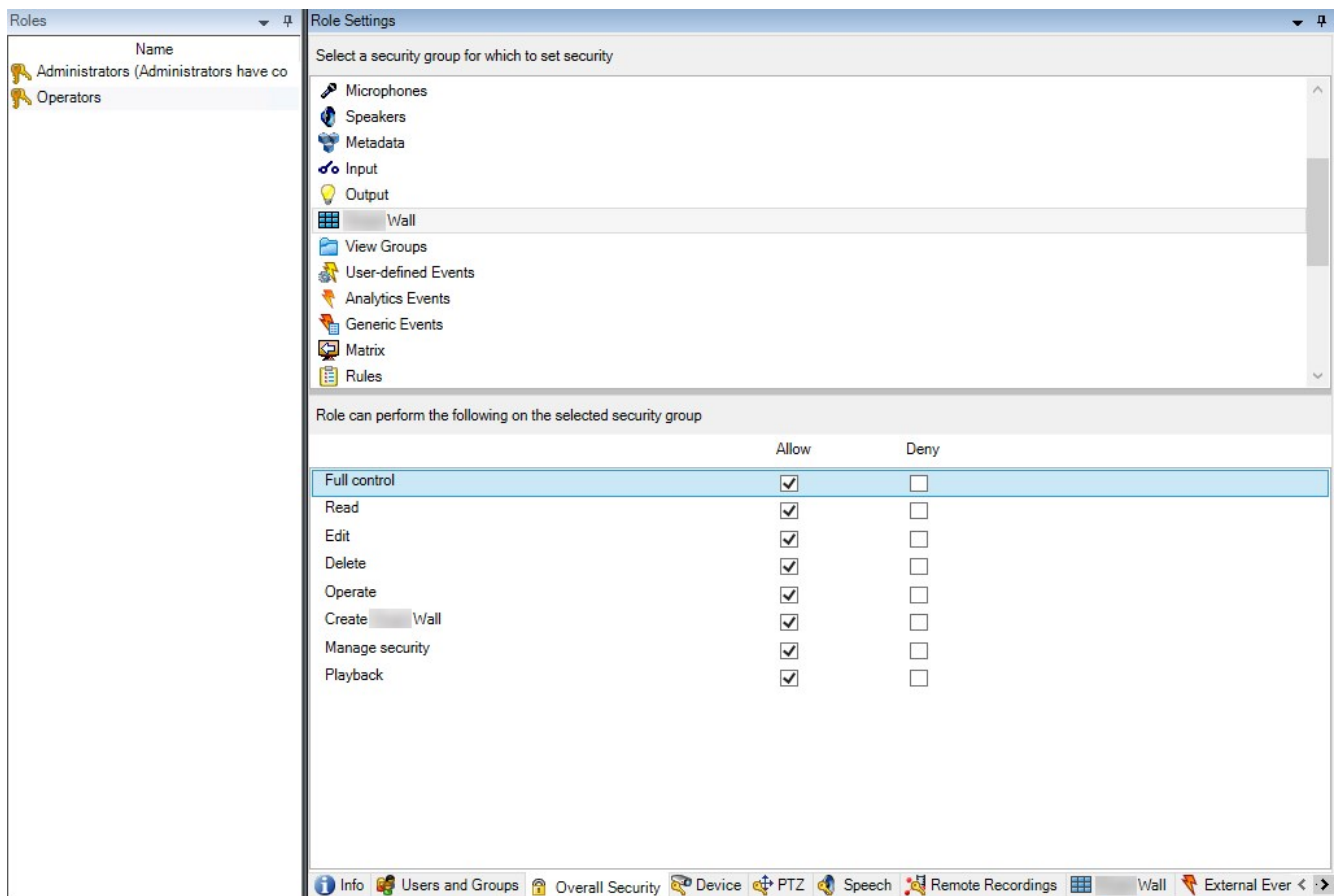
- Select the user permissions that are relevant for the selected role.
- (optional) To grant users **Operate** or **Playback** permissions for a specific period of time, select the required check box, and then select a time profile.

### User permissions for Video Wall (explained)



The settings described in this topic pertain to **Roles** in MOBOTIX HUB Management Client. To set the user permissions for all Video Wall definitions, go to the **Overall Security** tab. To set the user permissions for specific Video Wall definitions, go to the **Video Wall** tab.

#### User permissions that apply to all Video Wall definitions

**Roles** > **Overall Security** tab > Video Wall

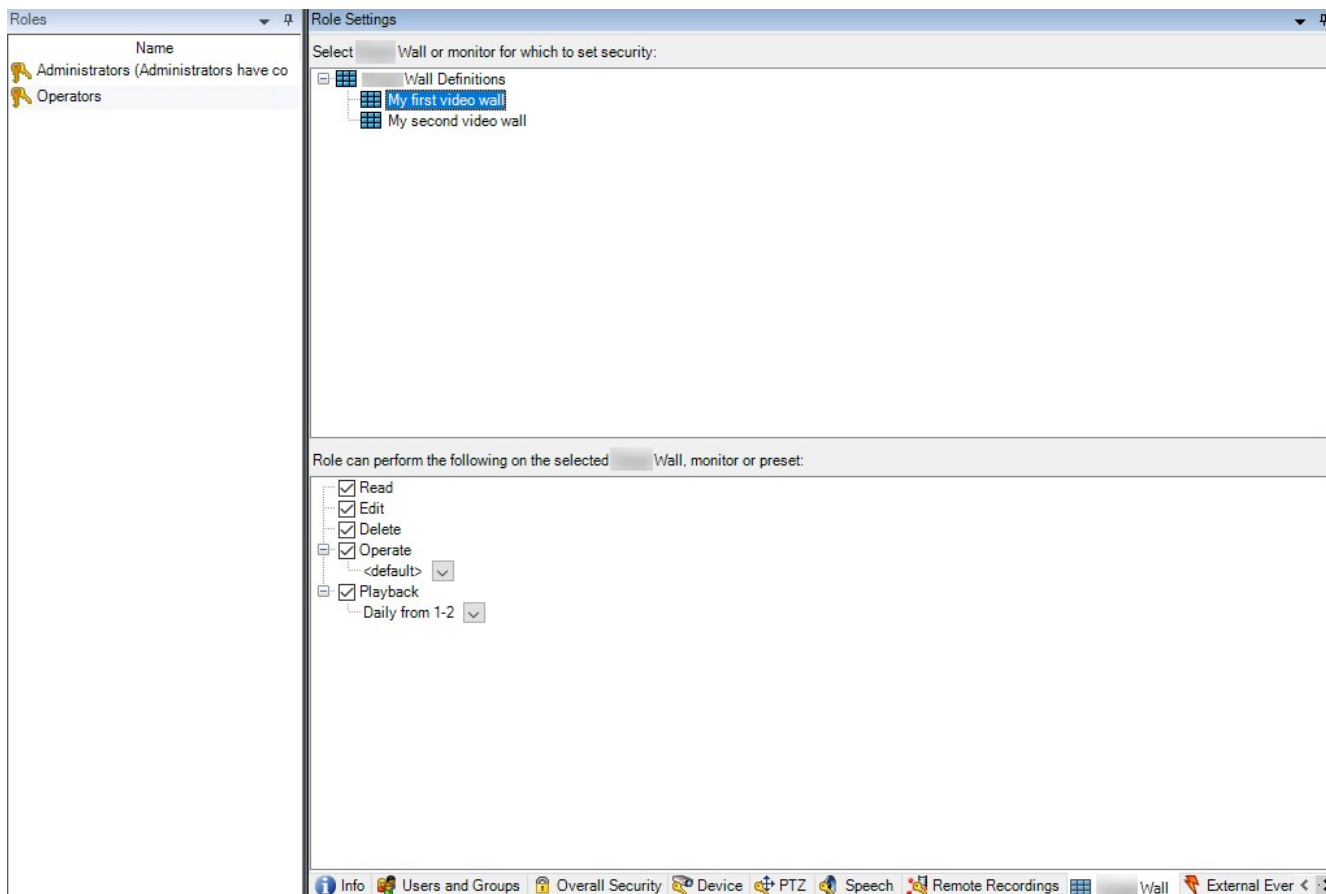


Security permission	Description
<b>Full control</b>	Enables the permission to manage all security permissions in MOBOTIX HUB Management Client.
<b>Read</b>	Enables the permission to view a video wall in MOBOTIX HUB Desk Client.
<b>Edit</b>	Enables the permission to edit properties for the Video Wall definition in MOBOTIX HUB Management Client.
<b>Delete</b>	Enables the permission to delete existing Video Wall definitions in MOBOTIX HUB Management Client.
<b>Operate</b>	Enables the permission to activate and modify Video Wall definitions, for example to change and activate presets or apply cameras on views in MOBOTIX HUB Desk Client and in MOBOTIX HUB Management Client.

Security permission	Description
	 You can associate <b>Operate</b> with time profiles that define when the user permission applies.
<b>Create Video Wall</b>	Enables the permission to create new Video Wall definitions in MOBOTIX HUB Management Client.
<b>Manage security</b>	Enables the permission to manage security permissions in MOBOTIX HUB Management Client for the Video Wall definition.
<b>Playback</b>	Enables the permission to play back recorded data from a video wall in MOBOTIX HUB Desk Client.  You can associate <b>Playback</b> with time profiles that define when the user permission applies.

### User permissions that apply to specific Video Wall definitions

Roles > **Video Wall** tab



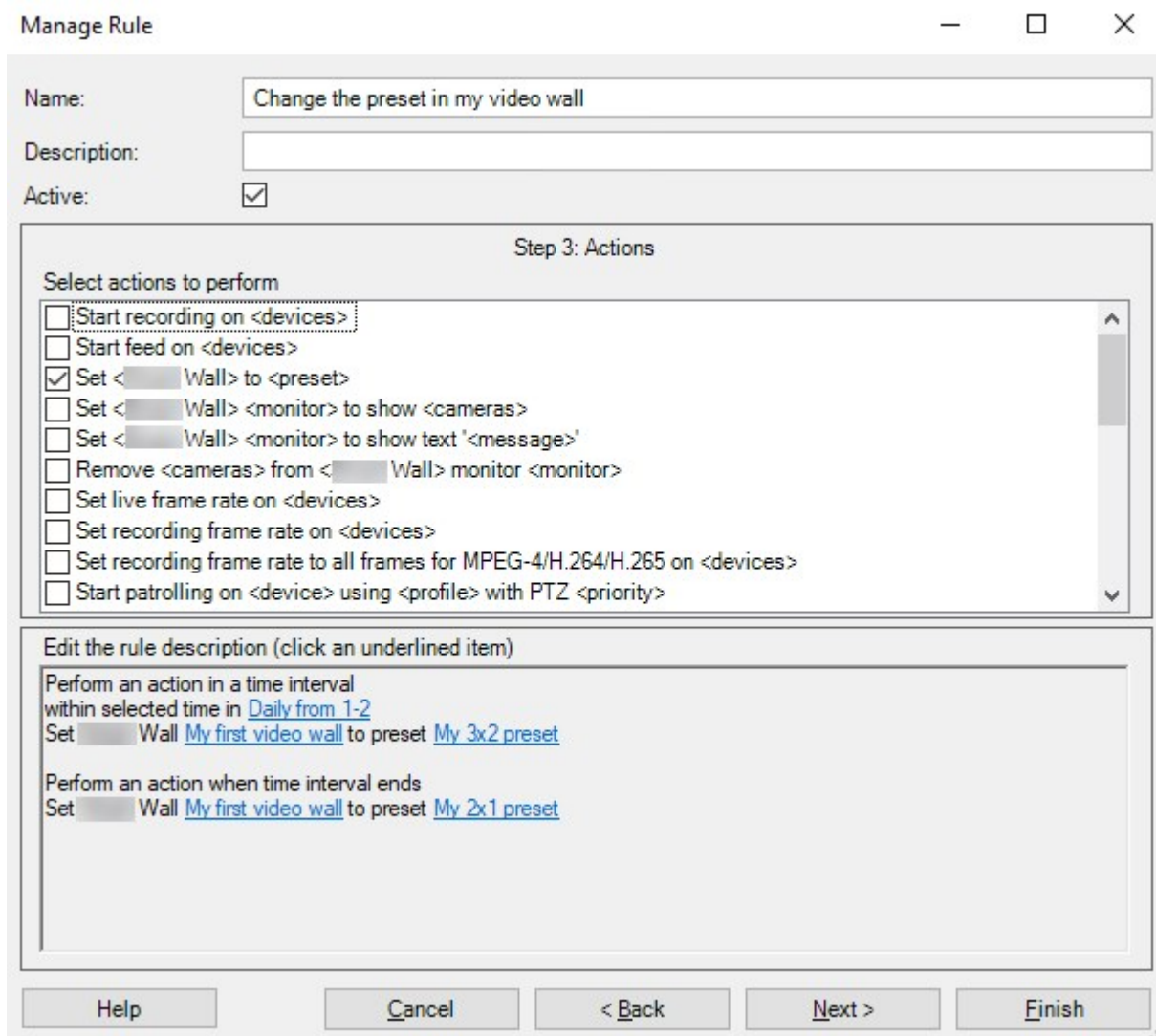
Through roles, you can grant your client users Video Wall-related user permissions:

Name	Description
<b>Read</b>	Allows users to view the selected Video Wall in MOBOTIX HUB Desk Client.
<b>Edit</b>	Allows users to edit the selected Video Wall in the Management Client.
<b>Delete</b>	Allows users to delete the selected Video Wall in the Management Client.
<b>Operate</b>	Allows users to apply layouts on the selected Video Wall in MOBOTIX HUB Desk Client and to activate presets.
<b>Playback</b>	Allows users to play back recorded data from the selected Video Wall in MOBOTIX HUB Desk Client.

## Create rules with Video Wall presets

By combining rules and Video Wall presets, you can control and automate what is displayed on your video wall. For example, a rule can trigger your video wall to display a certain Video Wall preset during a certain day. You can even use rules to control what individual monitors display.

Example of a rule triggering a Video Wall preset:



## Blank screen monitoring (explained)

Blank screen monitoring is an operation mode where operators only see video when a situation requires their attention. The video wall does not display any cameras during normal operation. Only when an event occurs does the video wall display video from the related cameras. When the incident has been resolved, the monitors showing the video are cleared.

## Configuration

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To enable blank screen monitoring, you must create and apply a [preset](#)<sup>1</sup> that only has a view layout, but no cameras. Use rules to display the cameras associated with certain events on your video wall, then clear the monitors again. See also [Create rules with Video Wall presets on page 31](#).

## Test your Video Wall configuration

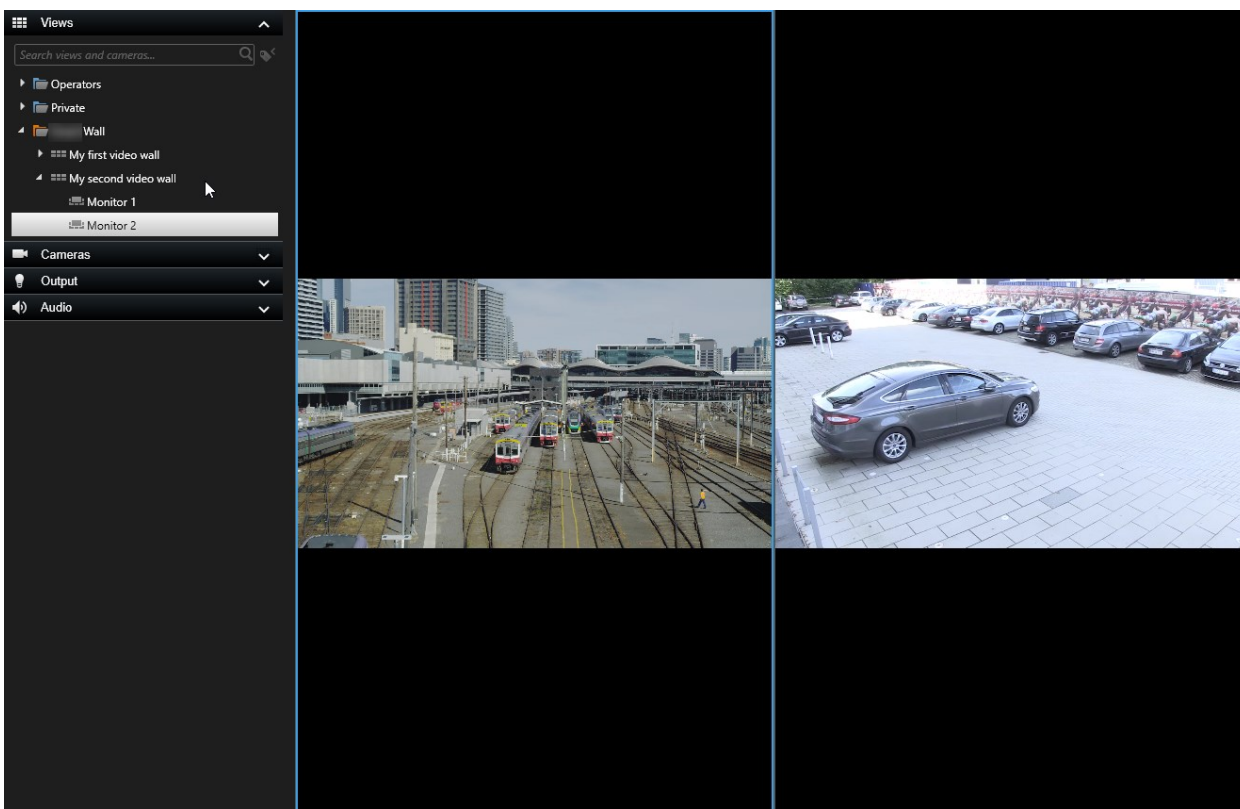
After configuring MOBOTIX HUB Video Wall in MOBOTIX HUB Management Client, you may want to test the configuration before you start adding the Video Wall control to your views in MOBOTIX HUB Desk Client.

### Requirements

You have created at least one preset, assigned it to a monitor, defined its layout, and added at least one camera. See also [Create presets for your Video Wall definition on page 21](#) or [Define view layout and add cameras on page 22](#).

Steps:

1. Log in to MOBOTIX HUB Desk Client.
2. In the **Views** pane, expand the **Video Wall** node.
3. Select a Video Wall definition and then one of its monitors. If correctly configured, the main view shows the cameras that the [preset](#)<sup>2</sup> is configured to show.



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<sup>1</sup>A predefined layout for one or more Video Wall monitors in MOBOTIX HUB Desk Client. Presets determine which cameras are displayed, and how content is structured on each monitor on the video wall.

<sup>2</sup>A predefined layout for one or more Video Wall monitors in MOBOTIX HUB Desk Client. Presets determine which cameras are displayed, and how content is structured on each monitor on the video wall.



The example shows a monitor with two cameras.

## User interface details

### Video Wall (Client node)

#### Video Wall properties

##### Info tab

On the **Info** tab for a Video Wall definition, you can add and edit Video Wall properties.

Name	Description
Name	The name of the Video Wall definition. Displayed in MOBOTIX HUB Desk Client as the Video Wall view group name.
Description	A description of the Video Wall definition. The description is only used internally in MOBOTIX HUB Management Client.
Status text	Display camera and system status information in camera view items.
No title bar	Hide the title bar on all view items on the video wall.
Title bar	Show the title bar on all view items on the video wall.

##### Presets tab

On the **Presets** tab for a Video Wall definition, you can add and edit Video Wall [presets](#)<sup>1</sup>.

Name	Description
Add New	Add a preset to your Video Wall definition. Enter a name and description for the preset.

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<sup>1</sup>A predefined layout for one or more Video Wall monitors in MOBOTIX HUB Desk Client. Presets determine which cameras are displayed, and how content is structured on each monitor on the video wall.

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## Configuration

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Name	Description
<b>Edit</b>	Edit the name or description of a preset.
<b>Delete</b>	Delete a preset.
<b>Activate</b>	Apply the preset on the Video Wall monitors that are configured to use the preset. To apply a preset automatically, you must create a rule that uses the preset.

### Layout tab


On the **Layout** tab for a Video Wall definition, you position the monitors, so their positions resemble the mounting of the physical monitors on the video wall. The layout is also used in MOBOTIX HUB Desk Client.

Name	Description
<b>Edit</b>	Adjust the positioning of the monitors.
<b>Movement</b>	To move a monitor to a new position, select the monitor and drag it to the desired position, or click one of the arrow buttons to move the monitor in the selected direction.
<b>Zoom buttons</b>	Zoom in or out of the Video Wall layout preview to ensure you position the monitors correctly.
<b>Name</b>	The name of the monitor. The name is displayed in MOBOTIX HUB Desk Client.
<b>Size</b>	The size of the physical monitor on the video wall.
<b>Aspect ratio</b>	The height/width relationship of the physical monitor on the video wall.

### Monitor properties


#### Info tab

On the **Info** tab for a monitor in a Video Wall preset, you can add monitors and edit the monitor settings.

Name	Description
<b>Name</b>	The name of the monitor. The name is displayed in MOBOTIX HUB Desk Client.
<b>Description</b>	A description of the monitor. The description is only used internally in the MOBOTIX HUB Management Client.
<b>Size</b>	The size of the physical monitor on the video wall.
<b>Aspect ratio</b>	The height/width relationship of the physical monitor on the video wall.
<b>Empty preset</b>	<p>Defines what should be displayed on a monitor with an empty preset layout when a new Video Wall preset is triggered or selected in MOBOTIX HUB Desk Client:</p> <ul style="list-style-type: none"> <li>• Select <b>Preserve</b> to keep the current content on the monitor.</li> <li>• Select <b>Clear</b> to clear all content so nothing is displayed on the monitor.</li> </ul>
<b>Empty preset item</b>	<p>Defines what should be displayed in an empty preset item when a new Video Wall preset is triggered or selected in MOBOTIX HUB Desk Client:</p> <ul style="list-style-type: none"> <li>• Select <b>Preserve</b> to keep the current content in the layout item.</li> <li>• Select <b>Clear</b> to clear the content so nothing is displayed in the layout item.</li> </ul>
<b>Element insertion</b>	<p>Defines how cameras are inserted in the monitor layout when viewed in the MOBOTIX HUB Desk Client:</p> <ul style="list-style-type: none"> <li>• <b>Independent</b> - only the content of the affected layout item changes, the rest of the content in the layout remain the same.</li> <li>• <b>Linked</b> - the contents of the layout items are pushed from left to right. If, for example, a camera is inserted in position 1, the previous camera of position 1 is pushed to position 2, the previous camera of position 2 is pushed to position 3, and so on. Illustrated in this example:</li> </ul> 

### Presets tab

On the **Presets** tab for a monitor in a Video Wall preset, you can edit the view layout and content of the monitor in the selected Video Wall preset.

Name	Description
<b>Preset</b>	A list of Video Wall presets for the selected Video Wall definition.
<b>Edit</b>	<p>Click <b>Edit</b> to edit the layout and the content of the selected monitor.</p> <p>Double-click a camera to remove it.</p> <p>Click <b>Clear</b> to define a new layout or to exclude the monitor in the Video Wall preset so the monitor is available for other content not controlled by the Video Wall preset.</p> <p>Click  to select the layout you want to use with your monitor, and click <b>OK</b>.</p>

### Video Wall check box (Client node > Management Client Profiles)

How to find the Video Wall check box:

1. From Site Navigation, select **Client > Management Client Profiles**.
2. Then select a profile.
3. On the **Profile** tab, select **Navigation > Client**.

Element	Description
<b>Client</b>	Allows the administrator user associated with the Management Client profile to see <b>Video Wall</b> related features and settings.

### Actions and stop actions (Manage Rule wizard)

How to find the Video Wall related actions and stop actions:

1. From the **Site Navigation**, select **Rules and Events > Rules**.
2. In the **Rules** pane, right click a rule and select to add or edit a rule to open the **Manage Rule** wizard,



A set of actions and stop actions related to MOBOTIX HUB Video Wall are available for rule creation in the **Manage Rule** wizard.

Action	Description
Set <Video Wall> to <preset>	<p>Sets the MOBOTIX HUB Video Wall to a selected preset. Specify the preset on the <b>Video Wall Presets</b> tab.</p> <p><b>No mandatory stop action:</b> This type of action does not require a stop action. You can specify optional stop actions to be performed on either an event or after a period of time.</p>
Set <Video Wall> <monitor> to show <cameras>	<p>Sets a specific MOBOTIX HUB Video Wall monitor to display live video from the selected cameras on this site or any child site configured in MOBOTIX Federated Architecture.</p> <p><b>No mandatory stop action:</b> This type of action does not require a stop action. You can specify optional stop actions to be performed on either an event or after a period of time.</p>
Set <Video Wall> <monitor> to show text <messages>	<p>Sets a specific MOBOTIX HUB Video Wall monitor to display a user-defined text message of up to 200 characters.</p> <p><b>No mandatory stop action:</b> This type of action does not require a stop action. You can specify optional stop actions to be performed on either an event or after a period of time.</p>
Remove <cameras> from <Video Wall> monitor <monitor>	<p>Stop displaying video from a specific camera.</p> <p><b>No mandatory stop action:</b> This type of action does not require a stop action. You can specify optional stop actions to be performed on either an event or after a period of time.</p>

### Overall Security tab (Security node > Roles)

Security permission	Description
Full control	Enables the permission to manage all security permissions in MOBOTIX HUB Management Client.
Read	Enables the permission to view a video wall in MOBOTIX HUB Desk Client.
Edit	Enables the permission to edit properties for the Video Wall definition in MOBOTIX HUB

## Configuration

Security permission	Description
	Management Client.
<b>Delete</b>	Enables the permission to delete existing Video Wall definitions in MOBOTIX HUB Management Client.
<b>Operate</b>	<p>Enables the permission to activate and modify Video Wall definitions, for example to change and activate presets or apply cameras on views in MOBOTIX HUB Desk Client and in MOBOTIX HUB Management Client.</p> <div> You can associate <b>Operate</b> with time profiles that define when the user permission applies.</div>
<b>Create Video Wall</b>	Enables the permission to create new Video Wall definitions in MOBOTIX HUB Management Client.
<b>Manage security</b>	Enables the permission to manage security permissions in MOBOTIX HUB Management Client for the Video Wall definition.
<b>Playback</b>	<p>Enables the permission to play back recorded data from a video wall in MOBOTIX HUB Desk Client.</p> <div> You can associate <b>Playback</b> with time profiles that define when the user permission applies.</div>

### Video Wall tab (Security node > Roles)

Through roles, you can grant your client users Video Wall-related user permissions:

Name	Description
<b>Read</b>	Allows users to view the selected Video Wall in MOBOTIX HUB Desk Client.
<b>Edit</b>	Allows users to edit the selected Video Wall in the Management Client.

## Configuration

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Name	Description
<b>Delete</b>	Allows users to delete the selected Video Wall in the Management Client.
<b>Operate</b>	Allows users to apply layouts on the selected Video Wall in MOBOTIX HUB Desk Client and to activate presets.
<b>Playback</b>	Allows users to play back recorded data from the selected Video Wall in MOBOTIX HUB Desk Client.

# Troubleshooting

## Troubleshooting: MOBOTIX HUB Video Wall

### **My monitors do not display the layout that I specified for my Video Wall**

Typically, this occurs because your system administrator did not activate the [preset](#)<sup>1</sup> for the monitor. Ask your system administrator to verify that the preset is active in Management Client.

### **My camera is not part of a preset. Why isn't it removed when I activate the preset?**

This can be because the **Empty preset item** setting is not selected for the preset. Ask your system administrator to verify the setting for the preset in Management Client.

### **I cannot drag an item, for example a camera, to a view. When I click the item, nothing happens**

This is a known issue in Microsoft Windows that can also occur in MOBOTIX HUB Video Wall. The workaround is press ESC one time, and the drag functionality should work again.

### **When I drag an image from a view to my Video Wall, it isn't displayed.**

You probably did not embed the image in the view, and the computer that is running the Video Wall cannot access the image file. To ensure that everyone can see an image, it's a good idea to embed it in the view.

### **My Video Wall monitors are displayed on top of each other**

When your system administrator added monitors to your Video Wall, he or she did not define the layout of the monitors. When your administrator adds monitors, the system automatically stacks them in the layout in the order in which they were added. Your administrator must then arrange them according to your needs.

### **I cannot drag an image from Windows Explorer to my Video Wall monitor. The cursor does not change to the Allow Drop icon**

This occurs when your Desk Client is not running under the same user profile as Windows Explorer. For example, you are running Desk Client under the Local administrator user profile, but you are running Windows Explorer as a Standard user. To resolve this issue, ensure that both programs are running under the same user profile.

### **I have added the Alarm List to a view item, but I cannot use the scroll bar to view details**

This is a known issue in MOBOTIX HUB Video Wall. To use the scroll bar, position the pointer outside the view item, and then press and hold the CTRL key. This prevents the view item's toolbar from covering the scroll bar. You can now move the pointer into the view item and use the scroll bar.

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<sup>1</sup>A predefined layout for one or more Video Wall monitors in MOBOTIX HUB Desk Client. Presets determine which cameras are displayed, and how content is structured on each monitor on the video wall.



# MOBOTIX

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