

Milestone and Siemens Siveillance VMS Integration

Introduction

The information published on these pages is intended to supplement the document published elsewhere on this site, focusing on how to setup and configure the Milestone integration modules in Witness and the changes that need to be made to Milestone, or Siemens Siveillance, to support this.

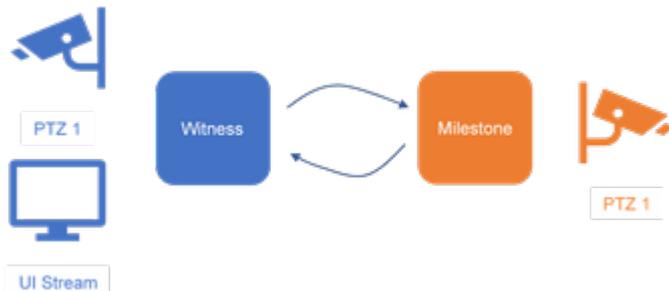
i Unless specifically noted, references to the Milestone application or Milestone also apply to the Siemens Siveillance solution.

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Background

Both the Witness and Milestone applications need to be, separately, setup and configured with the cameras they expect to be controlling / using. In many cases these will be the same PTZ cameras. Additionally, a UI Stream will need to be setup in Witness which is then added to Milestone as a "camera".



Integration Setup Steps

The following outlines the steps to setup the integration.

1. Add the PTZ camera to Witness.
2. Add the Witness user to Milestone (if not using an existing user).
3. Checking the PTZ camera setup in Milestone.
4. Setup the UI Stream in Witness.
5. Add the UI Stream from Witness as a camera in Milestone.
6. Map the Milestone camera to the Witness camera.

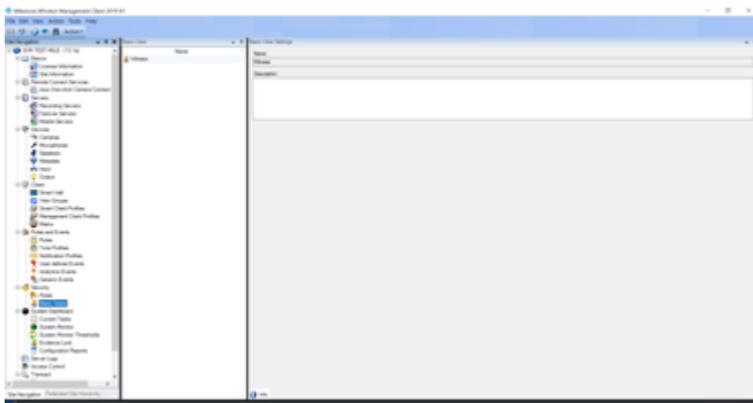
Add the PTZ camera to Witness

Refer to the Witness [Adding Cameras](#) documentation for adding and setting up the PTZ camera.

Add the Witness user to Milestone (if not using an existing user).

i Users that are local to the Milestone application are referred to as Basic Users.

In this example, a Basic User called Witness has been setup:



Add Witness user to Administrators Role.

The Witness user needs to have permissions to read the name of the cameras setup in Milestone and create bookmarks for those cameras. This can be achieved by adding the Witness user to the Administrators role or creating a role specifically for the Witness user and granting that role the required permissions.



If an existing user is being used, then that user should also be added to the Administrators role or the Witness specific role.

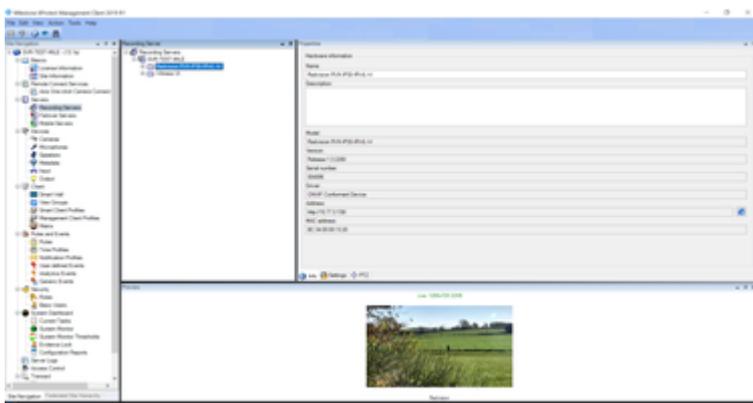
Checking the PTZ camera setup in Milestone

For the PTZ camera(s) configured in Milestone to be visible to Witness, the Witness user in Milestone needs permissions to read the read the names of those cameras and create bookmarks for those cameras. If the Witness user is in the Administrator role, no further action is needed.

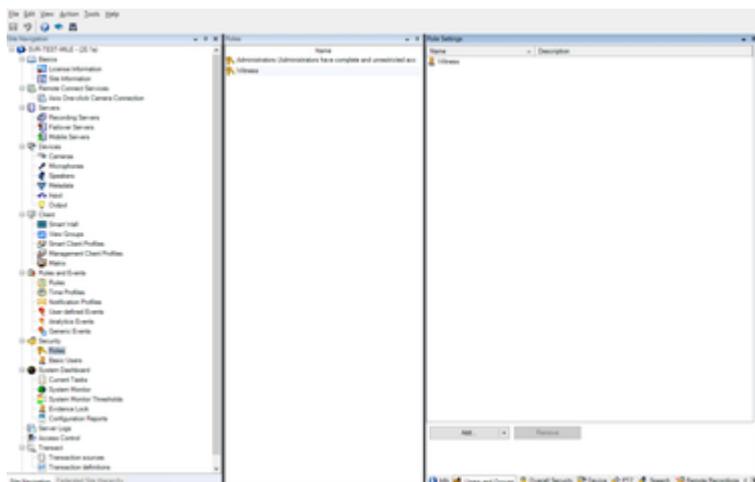
Granting the required permissions to the Witness user

In this configuration we see one PTZ camera (Redvision) and the Witness UI “camera” (which we will come to later):

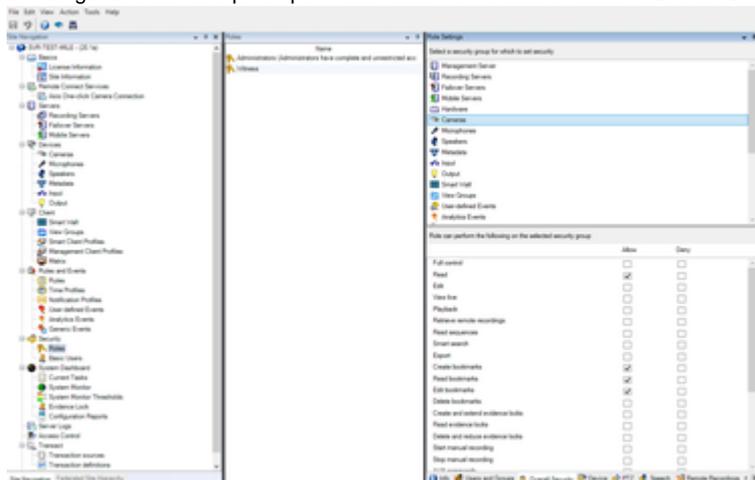
i Within Milestone, cameras are referred to as “recording servers”.



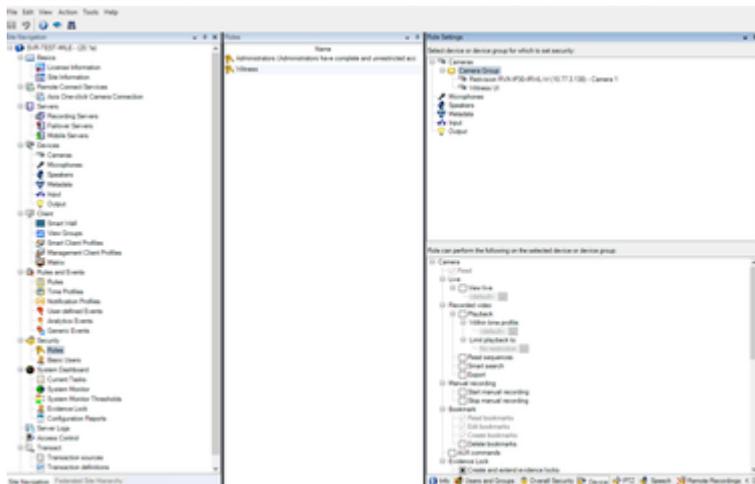
We have also setup a Witness role, which our Witness user is a member of:



Granting the role the required permissions can either be done at the Overall Security level:



Or on an individual camera basis:



i The required permissions (Read, Read bookmarks, Edit bookmarks, and Create bookmarks) are shown in grey as the permissions have been granted via Overall Security. If granted directly at the Device level, they would not be greyed out.

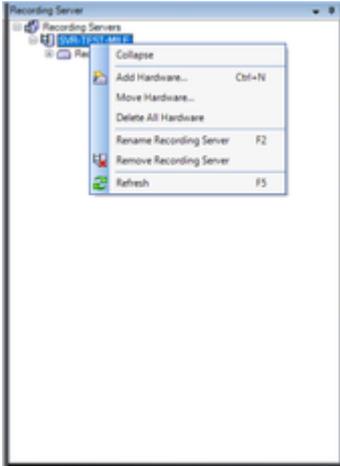
Setup the UI Stream in Witness.

Refer to the Witness documentation for setting up and enabling the UI Stream in Witness.

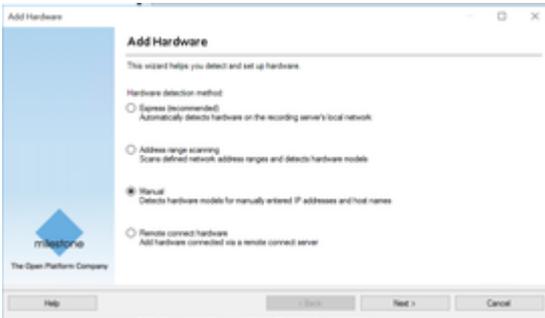
Add the UI Stream from Witness as a camera in Milestone.

The UI Stream from Witness now needs to be added to Milestone as a Universal 1-channel camera. The following will take you through the steps to do that in the Milestone Management Client.

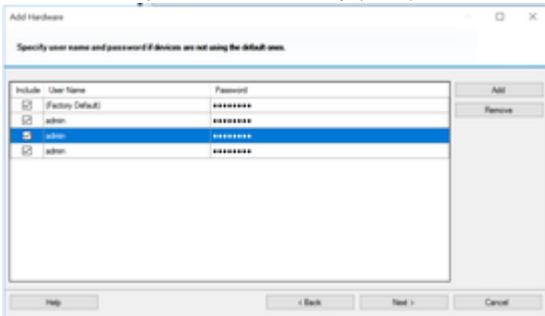
1. **Right Click, Add Hardware:**



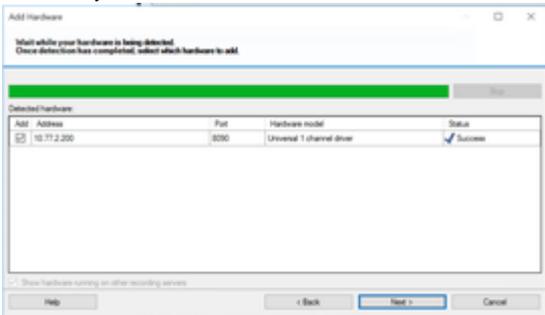
2. **Add Hardware, select Manual. Click Next:**



3. **Username and password. Select any (or all) of the defined users. Click Next.**



4. **Select only the Universal 1 channel driver.**

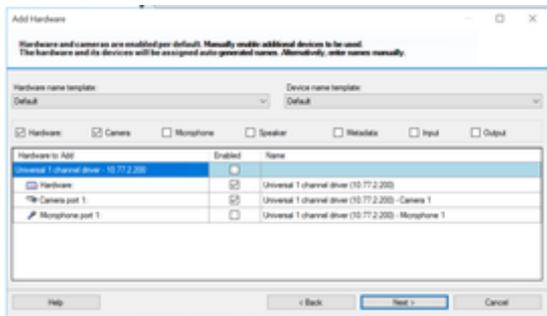


5. **Enter the IP address, or domain name, of the Witness server and the port being used for the UI stream (by default, 8090). Click Next.**

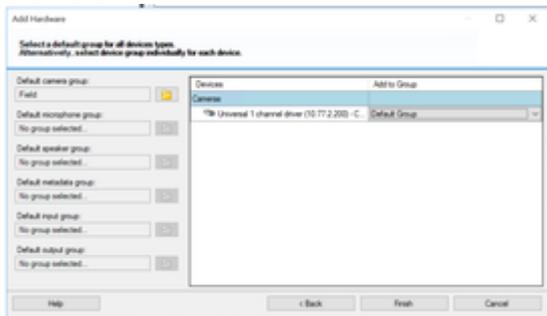




6. Click **Next**.



7. Click **Next**.



8. Click **Next**.

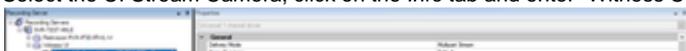


9. Add the camera to the appropriate group. Click **Next**.

10. The UI Stream Camera has been added. The configuration of the camera needs to be changed before it will work correctly.

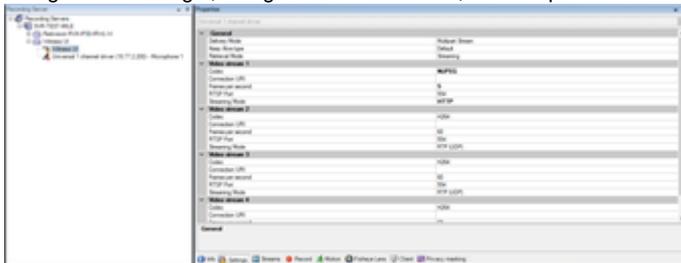


11. Select the UI Stream Camera, click on the **Info** tab and enter "Witness UI" in the Name dialogue box. Save the changes (File Save).





- Click on the **+** symbol to the left of "Witness UI" to expand the configuration. Click on the *Settings* tab. Within Video stream 1 configuration settings ,change Codec to MJPEG, Frames per second to 5, and streaming mode to HTTP.



The completed configuration.

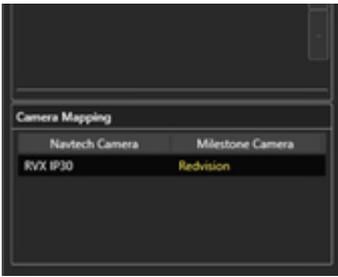
Map the Milestone Witness UI camera back to Witness.

Refer to the Witness documentation for an explanation of the different options within the Milestone Plugin configuration.



With the initial Milestone Plugin setup, no cameras have been mapped. Authentication issues will cause the Milestone Plugin to stop, with details logged in the Navtech Management Server_Error.txt file.





Once the UI Stream from Witness has been setup within Milestone as a camera, that camera needs to be mapped back to the UI Camera within the Milestone Plugin along with the other PTZ cameras.

The Witness UI camera is mapped to the UI Camera; and the individual PTZ camera(s) in Witness and Milestone are individually mapped.
