Ocularis

Ocularis to C•CURE 9000 Video Add-On

Installation & Configuration Guide

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US patent # 8390684 B2 for Ocularis Client

Patents Applied For in the U.S. and Abroad

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Introduction

This manual provides detailed instructions for installing and configuring the **Ocularis to C•CURE Video Add-On** to receive Ocularis into C•CURE 9000. This assumes you have working knowledge of C•CURE 9000 and Ocularis.

This is document is specifically for:

- Ocularis 5.6 (5.6.0.339)
- C•CURE 9000 v2.60 (2.60.4972.0414)

  OnSSI C-CURE 9000 Video Driver Installer 5.6.26.1
- C•CURE 9000 v2.70 (2.70.539.289)

  OnSSI C-CURE 9000 Video Driver Installer 5.6.27.1

It is assumed that the Software House C•CURE 9000 and OnSSI Ocularis are installed, licensed and configured. This document provides detailed instructions for installing and configuring the component to send Ocularis video and events into C•CURE 9000.

Getting Started

Review C•CURE 9000 Manuals

Please note Hardware and Software requirements.

Check the ***C•CURE 9000 Security + Event Management*** web page for all documentation.

- *Review the **C•CURE 9000** documentation*
  - ***Installation and Upgrade Guide***.
  - ***Video Guide***
  - ***Server Configuration Application Guide***
  - ***Software Configuration Guide***
  - ***Monitoring Station Guide***
  - ***Video Admin Guide***

Review Ocularis Manuals

Please note Hardware and Software requirements.

Check the ***OnSSI Product Documentation*** web page for all documentation.

- Review the ***Ocularis*** documentation
  - ***Installation and Licensing Guide***
  - ***Ocularis Administration User Manual***
  - ***Ocularis Client User Manual***
  - ***Ocularis Event Proxy Configuration Guide***

Features

The Ocularis interface supports all of the standard Software House features except patterns. The following features are supported:

- Live Video
- Pre-recorded Video Play Back
- Record Start (On Demand)
- Record Stop (On Demand)
- PTZ (Domes only)
- Video Alarms
- Video Tour
- Video View Up to 16 Cameras
- Presets
- PTZ Presets Based on Event, Alarm Input or Video Tour
- Toggle Video Window Size
- Display Up to four Live Video Windows Based on Event
- Original Recorded Video Cannot Be Altered
- A single Window may be used to display Live and Recorded video

Performance and Scalability

The Ocularis system is easily scalable. There is no set software limit to maximum number of cameras. To expand the system, keep adding new recorders to Ocularis Base.

Limitations

Limitations with C•CURE Systems

The OnSSI C•CURE integration is designed, tested and supported on a standalone version C•CURE server. Other configurations such as C•CURE Enterprise (MAS/SAS) and Redundancy are not supported.

Limitations with Remote Desktop

Access to video features through remote desktop is not supported (video may not appear).

Limitations on Alarm Contacts

When configuring alarm contacts in the Oculairs recorder, there are separate alarms for a contact closing and a contact opening. In order for the alarm integration to trigger and clear alarms in C•CURE 9000, a special naming convention is used to tie the closing and opening conditions. Use the following naming convention, consisting of contact name followed by _ON or _OFF. For example:

- DoorContact_ON
- DoorContact_OFF

Limitations on Preset Names

Camera presets on Ocularis are based purely on names, while presets in C•CURE 9000 are based on numbers. When integrating C•CURE 9000 and Ocularis it is important that presets on the Ocularis system be named in the following convention: Preset # followed by optional text. For example:

- 1 – Home
- 2 – Switch Panel
- 3 - Door
- 4 – Clock

C•CURE - Ocularis

Message Queuing (MSMQ)

Ensure Microsoft Message Queuing is installed. Ocularis to C•Cure 9000 communication uses MSMQ.

Use Server Manager to add the Message Queuing feature.

Install the OnSSI CCure Video Driver Service

This video driver must be installed on any system that will utilize Ocularis features. This can consist of both Server and Client components.

Install the **C•Cure-Ocularis Video Driver** by executing the installer package

(i.e. OnSSI C-CURE 9000 Video Driver Installer).

Figure 1 – Install - Welcome

Welcome dialog for the **OnSSI C•Cure 9000 Video Driver Setup Wizard** to have **Ocularis** video and events delivered to **C•Cure 9000**. Click **Next** to continue or **Cancel** to exit.

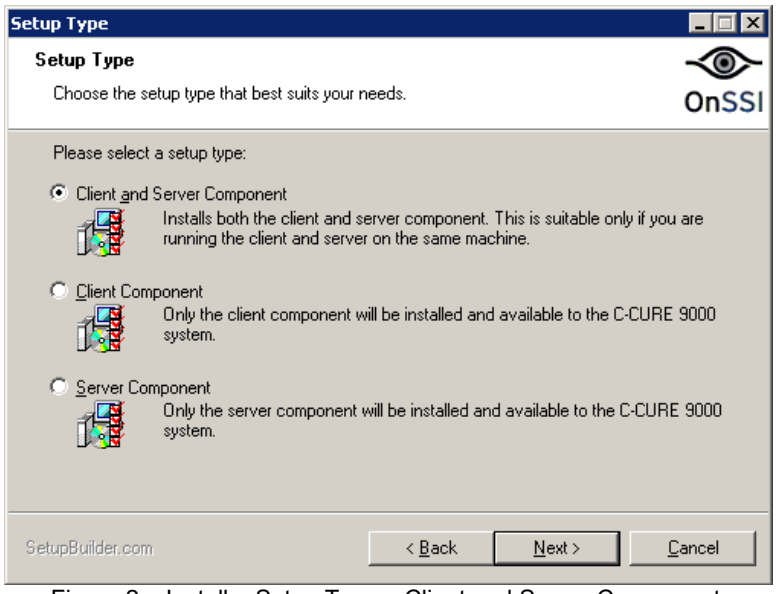

Figure 2 – Install – Setup Type – Client and Server Component

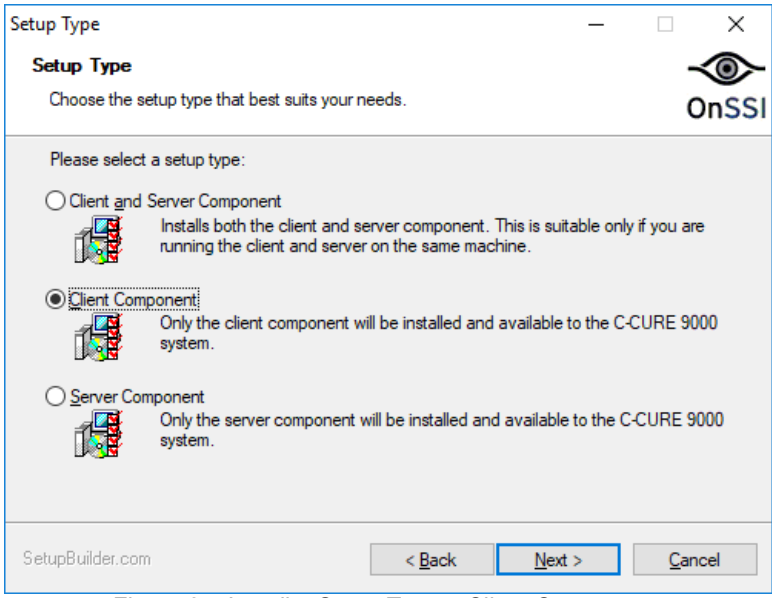

Figure 3 – Install – Setup Type – Client Component

Setup Type dialog to select what suites your needs.

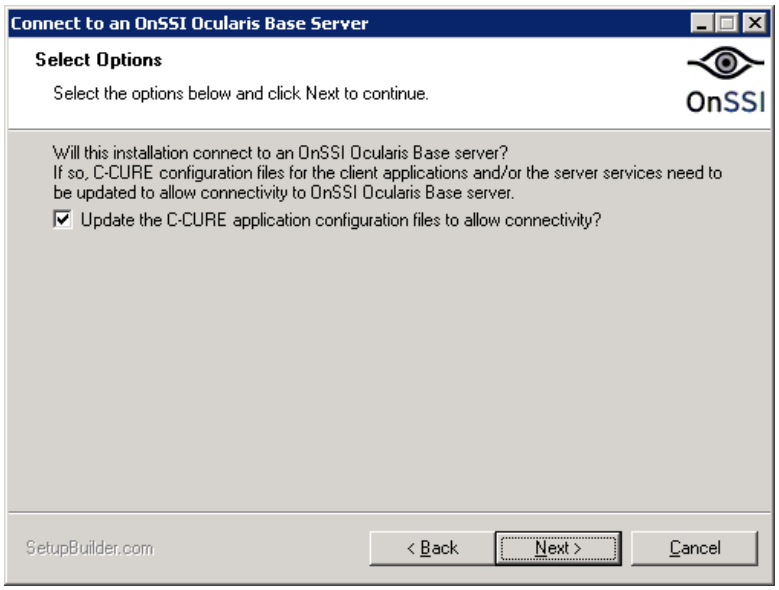

Figure 4 – Install – Connect to an OnSSI Ocularis Base Server

This computer will access the **Ocularis Base**.

The checkbox for **Update the C-Cure application configuration files to allow connectivity?** Is checked.

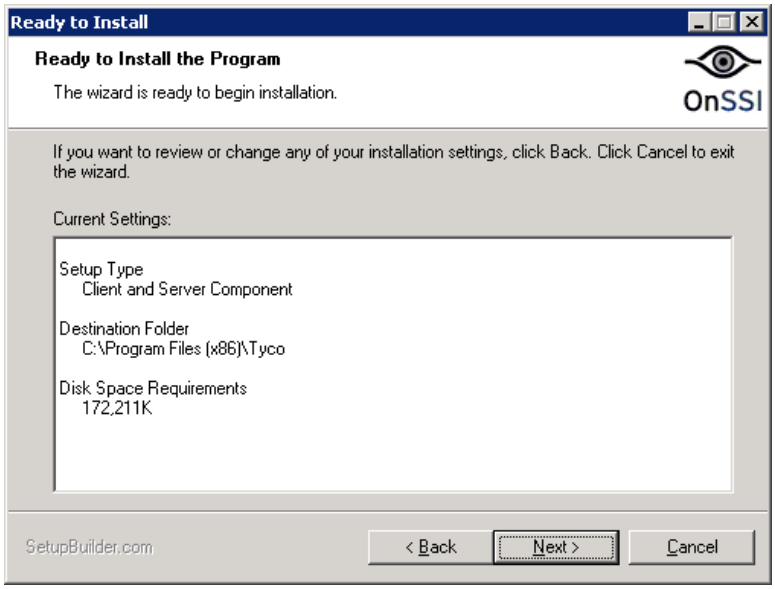

Figure 5 – Install – Ready to Install - Client and Server Component

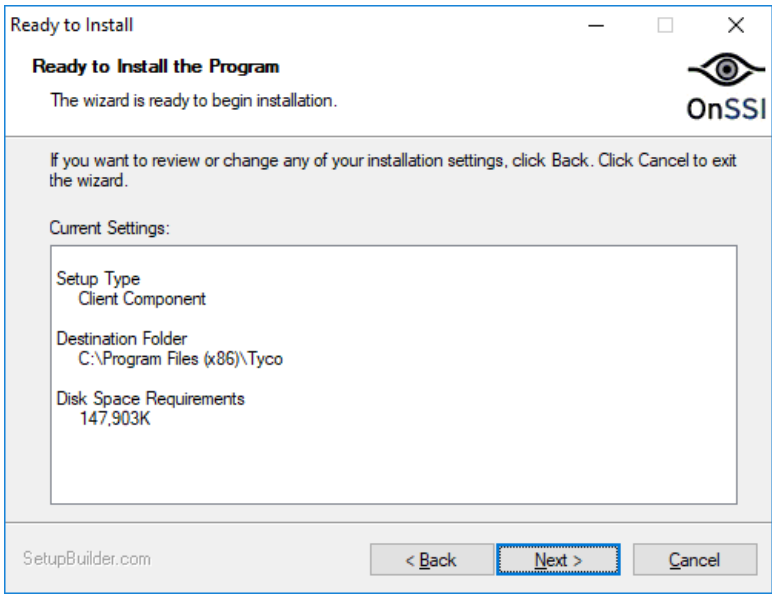

Figure 6 – Install – Ready to Install - Client Component

Review the settings. If modification is needed click **Back** and make the necessary changes. If the settings are satisfactory the click **Next** to proceed.

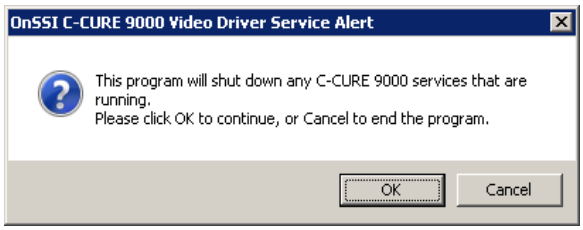

Figure 7 – Install – OnSSI C-CURE 9000 Video Driver Service Alert

The C•Cure 9000 services that are running will be shutdown so the installation can occur.

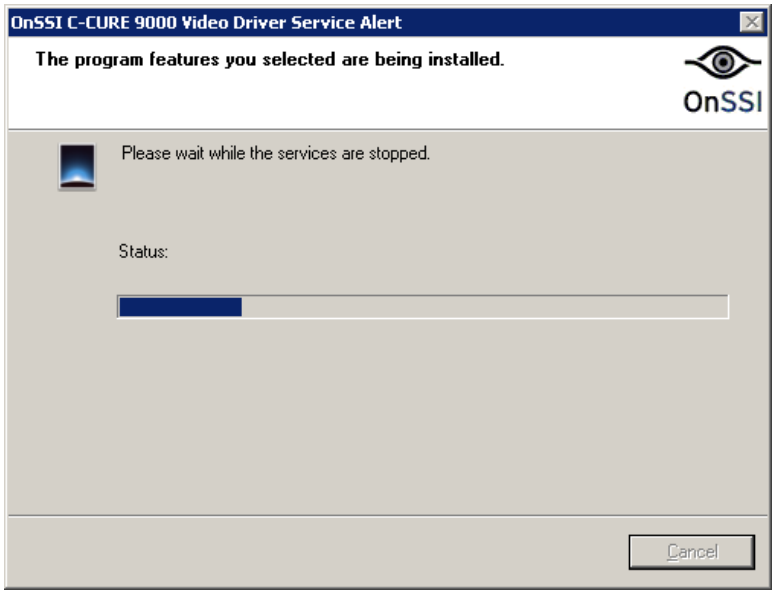

Figure 8 – Install – OnSSI C-CURE 9000 Video Driver Service Alert

The plug-in will install.

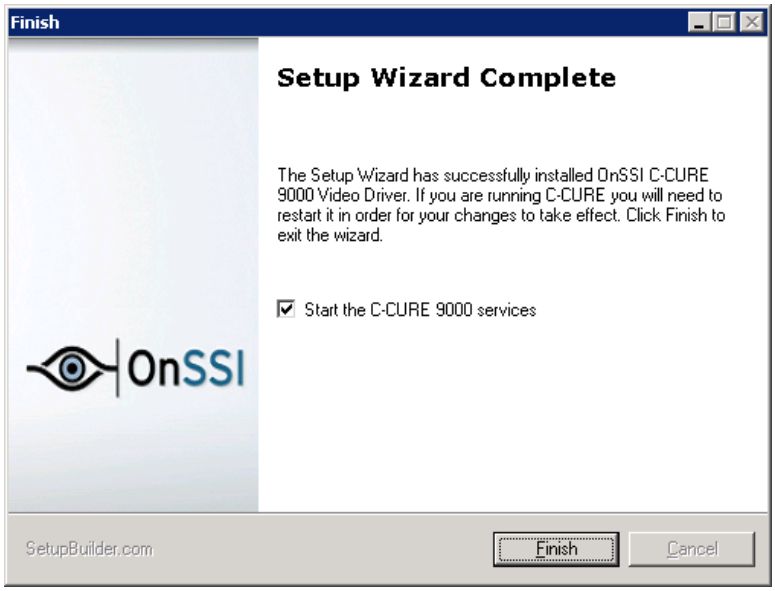

Figure 9 – Install - Finish

The **C•Cure-Ocularis** setup has completed.

The checkbox for **Start the C-CURE 9000 services** Is checked.

Click **Finish** to exit the Setup Wizard and start the **C-CURE 9000 services**.

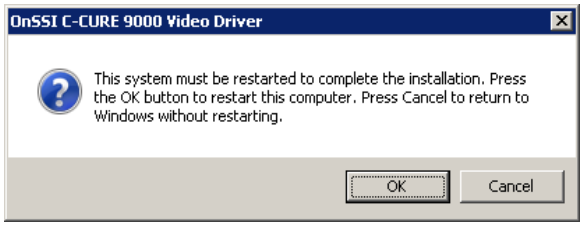

Figure 10 – Install - Reboot

To complete the installation a restart may be necessary. It is recommended to restart the computer at this time if prompted.

Enable the *OnSSI CCure Video Driver Service*

Launch the **Server Configuration** Application.

For C•Cure 9000 v2.60

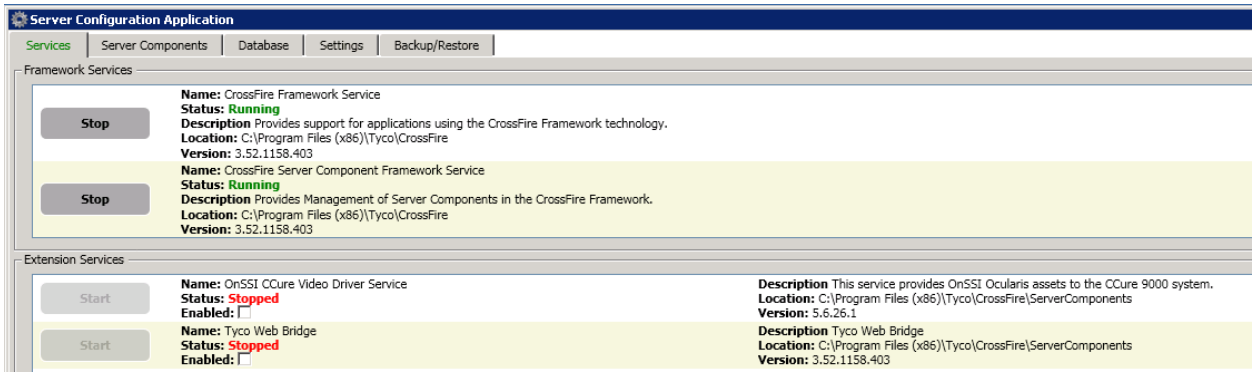

Figure 11 – Server Configuration Application – OnSSI Ccure Video Driver Service - Stopped

For the **OnSSI CCure Video Driver Service** check **Enabled** and click **Start** to set the service **Running**.

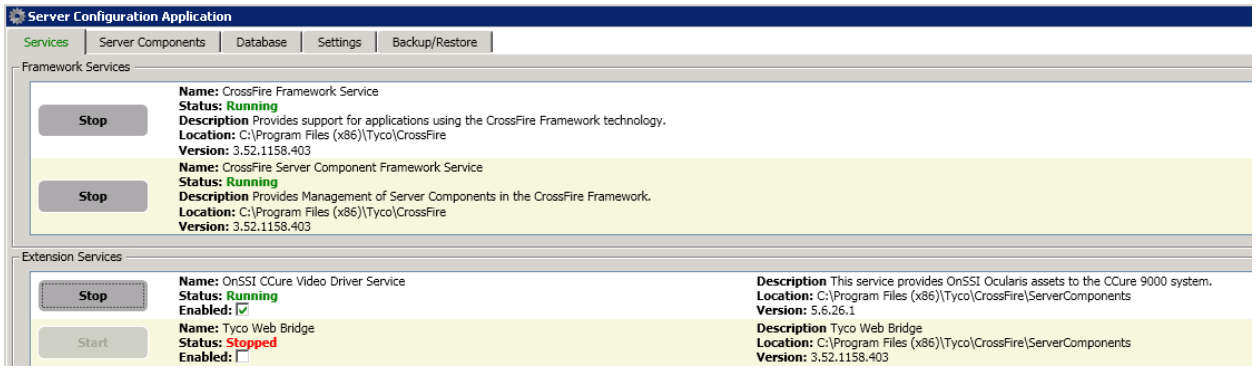

Figure 12 – Server Configuration Application – OnSSI Ccure Video Driver Service – Enabled & Running

For C•Cure 9000 v2.70

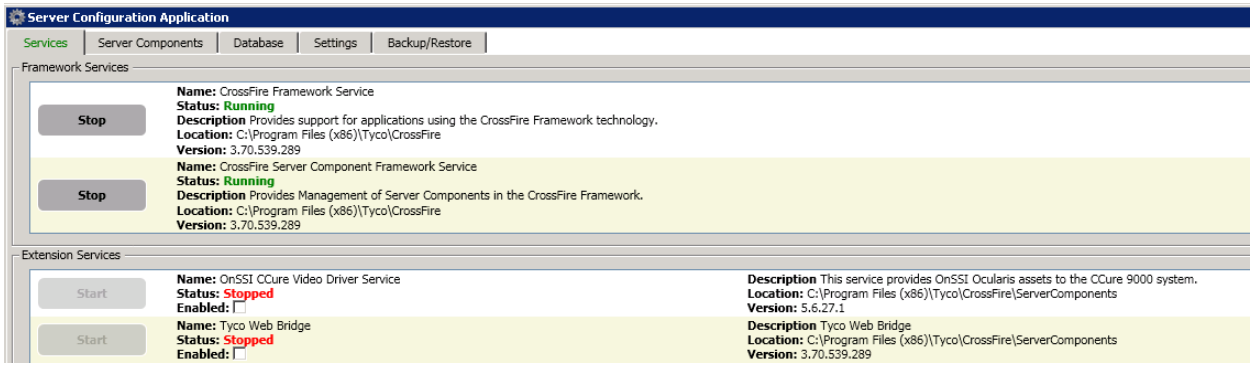

Figure 13 – Server Configuration Application – OnSSI Ccure Video Driver Service - Stopped

For the **OnSSI CCure Video Driver Service** check **Enabled** and click **Start** to set the service **Running**.

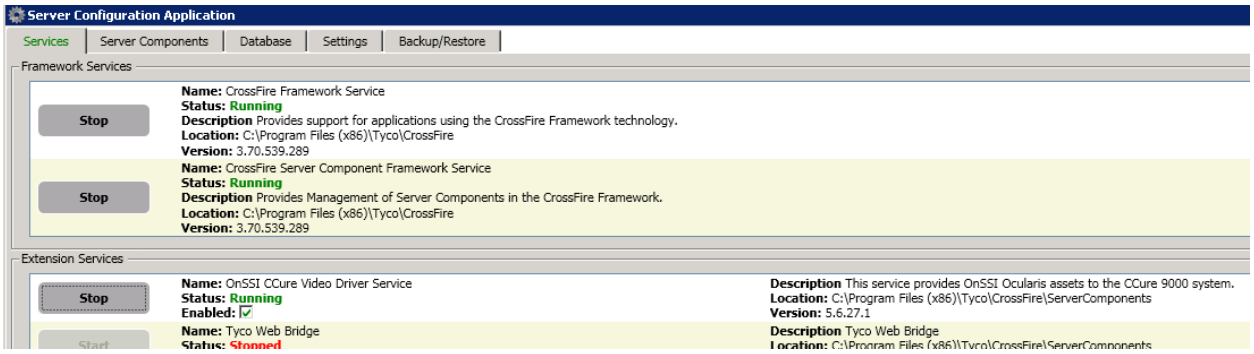

Figure 14 – Server Configuration Application – OnSSI Ccure Video Driver Service – Enabled & Running

Configure the OnSSI Video Server

Review **Chapter 2 – Video Folders** and **Chapter 3 – Video Server** in the ***C•CURE 9000 Video Guide*** documentation.

Once the **OnSSI Ccure Video Driver Service** is installed and running it is time to confiure **OnSSI Video Server** in **C•Cure 9000** so video can be used. Refer to the ***C•CURE 9000 Video Admin Guide*** documentation for additional detail.

Launch the **C•Cure 9000 – Administration Workstation.**

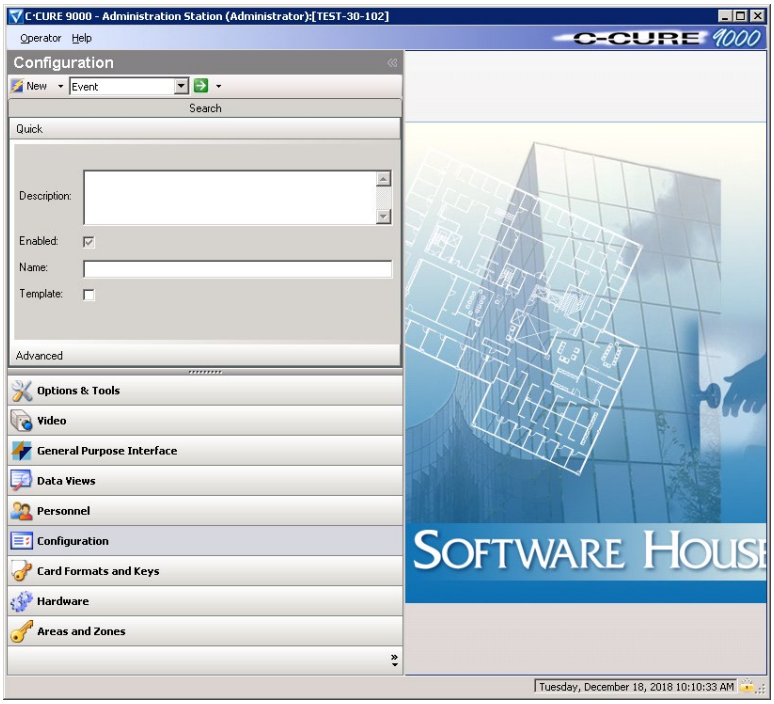

Figure 15 – Administration Station

Click **Video**

Figure 16 – Configuration – Video tab

Rename the video folder as desired. For this example the *italisized* text is for sample purpose, your actual information must be used.

- Name: *OnSSI*.
- Description: *OnSSI in Pearl River, NY*

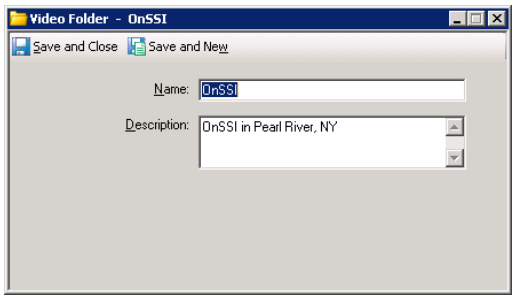

Figure 17 – Video Folder

Click **Save and Close.**

Right click on the folder to expose the video options available. Select **OnSSI Video Server**.

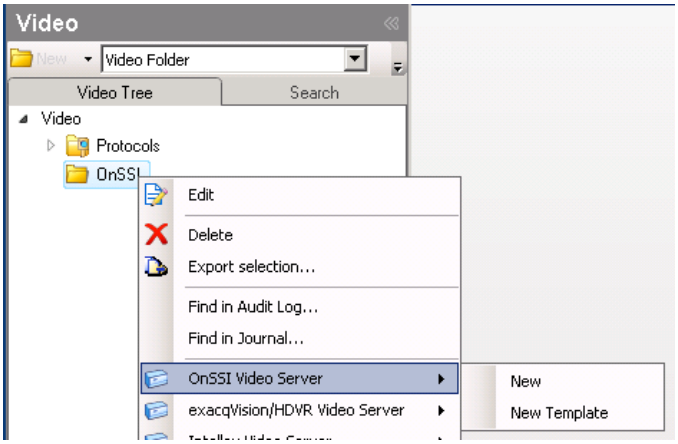

Figure 18 – OnSSI Video Server - New

Click **New** to create a new server. The **OnSSI Video Server –** dialog opens.

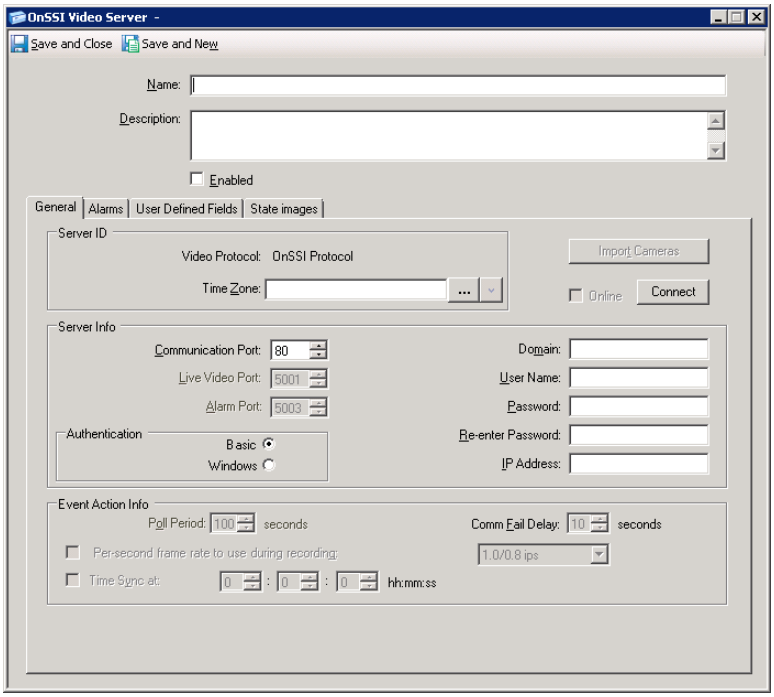

Figure 19 – OnSSI Video Server - Empty

Under the **OnSSI Video Server** dialog the **General** tab is selected by default.

Enter the necessary information to add the OnSSI Ocularis Base to the C•Cure 9000 system. For this example the *italisized* text is for sample purpose, your actual information must be used.

- Name - *OnSSI Ocularis Base (30.61)*
- General – Server ID
  - Time Zone – *Eastern Time*
- Server Info
  - Communication Port – 80 (b default)
  - Domain – if applicable
  - User Name - *admin*
  - Password - *12345*
  - Re-enter Password - *12345*
  - IP Address – *10.1.30.61*
  - Authentication – Basic (by default)

Check **Enabled**

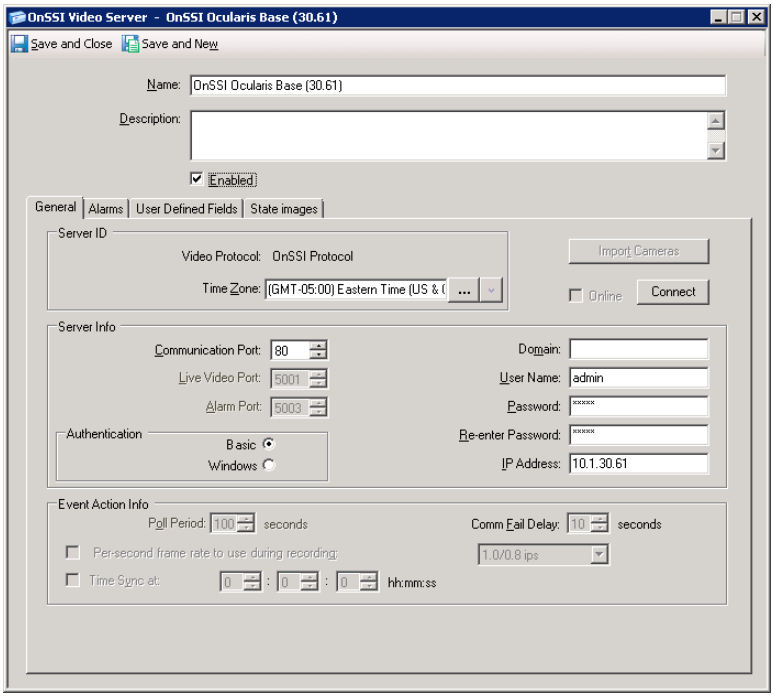

Figure 20 – OnSSI Video Server - Populated

Click **Connect**, after a short time the **Online** checkbox will be checked automatically.

Then the **Import Cameras** button will be enabled.

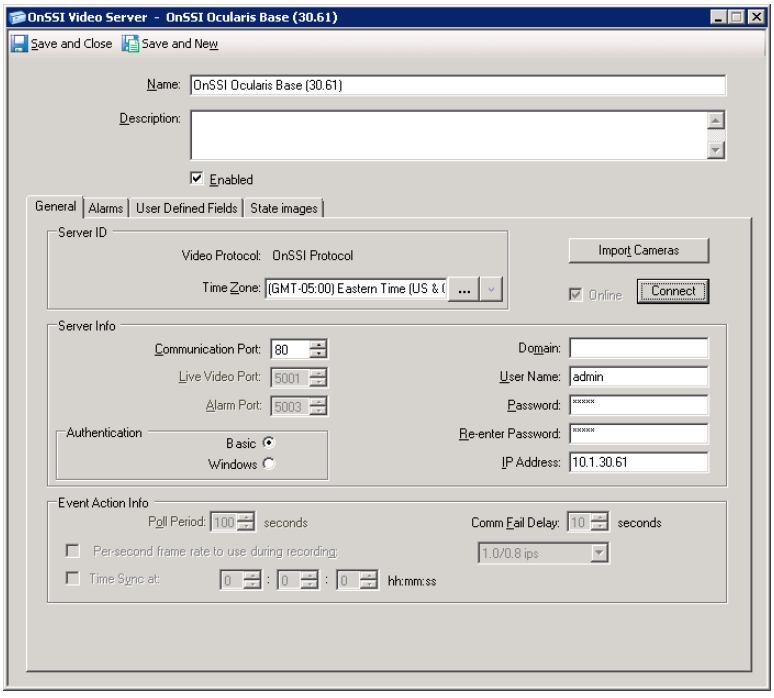

Figure 21 – OnSSI Video Server – Online

Click **Import Cameras**

Imports all camera information from Ocularis Base.

Note: You should use this button to set up your cameras, rather than creating the cameras manually. Cameras are referenced by name only, so the names must match exactly.

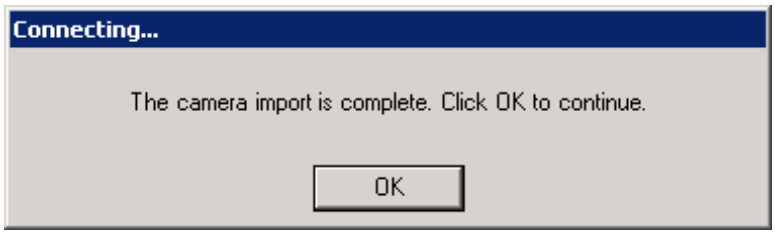

Figure 22 – OnSSI Video Server - Connecting

Click **OK.**

Click **Save and Close** to exit the **OnSSI Video Server** setup.

The **Video Tree** tab in the **Adminstration Station** will show the OnSSI Video devices that were added. Expand the tree as needed.

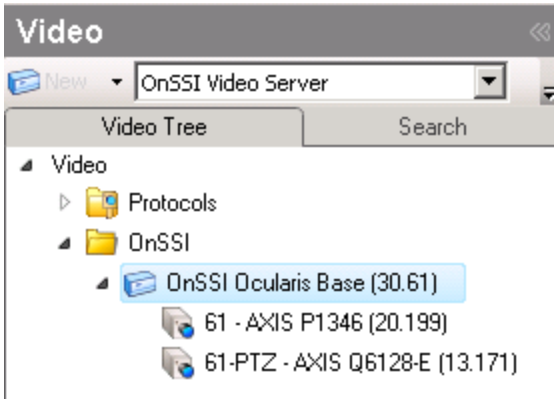

Figure 23 – OnSSI Video Server with Ocularis Base and Cameras

Verify Ocularis Camera Video

From the **Video Tree** tab in the **Adminstration Station** expand the tree to expose the cameras.

Right-click on the desired camera to expose the menu.

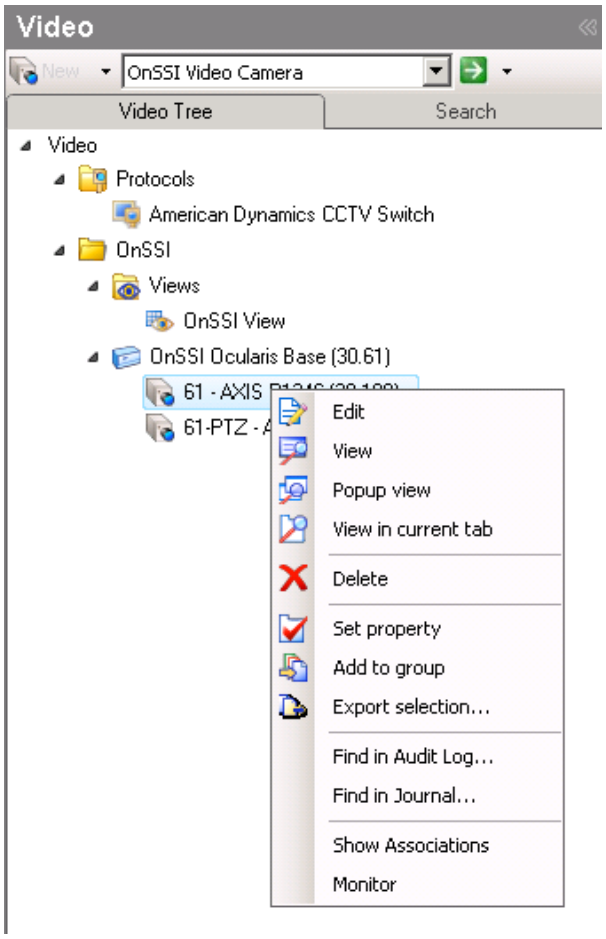

Figure 24 – Video View

To Use View in the Video Tree

Select **View** to display the camera in the pane.

To Use Popup in the Video Tree

Select **Popup view** to display the camera as a popup.

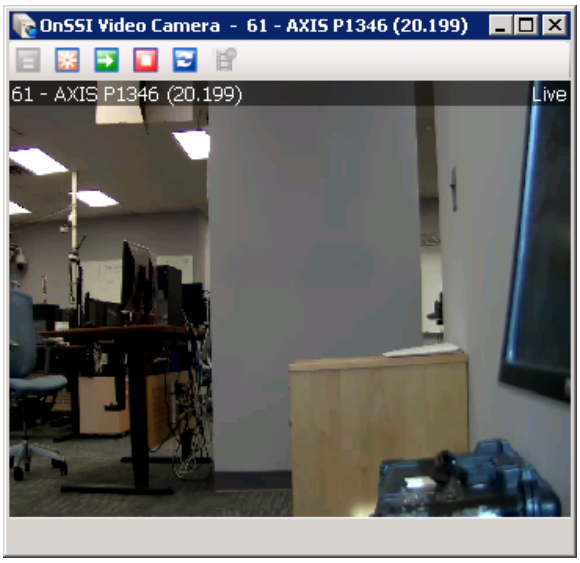

Figure 25 – Popup Video View

To View in Current Tab Video Server in Video Tree

Select **View in current tab** to display the camera in the current tab.

Create a Video View

Review **Chapter 6 – Video View** in the ***C•CURE 9000 Video Guide*** documentation.

In the **Adminstration Station** expose the **Video Tree** tab under **Video**. Right click on the folder to expose the video options available.

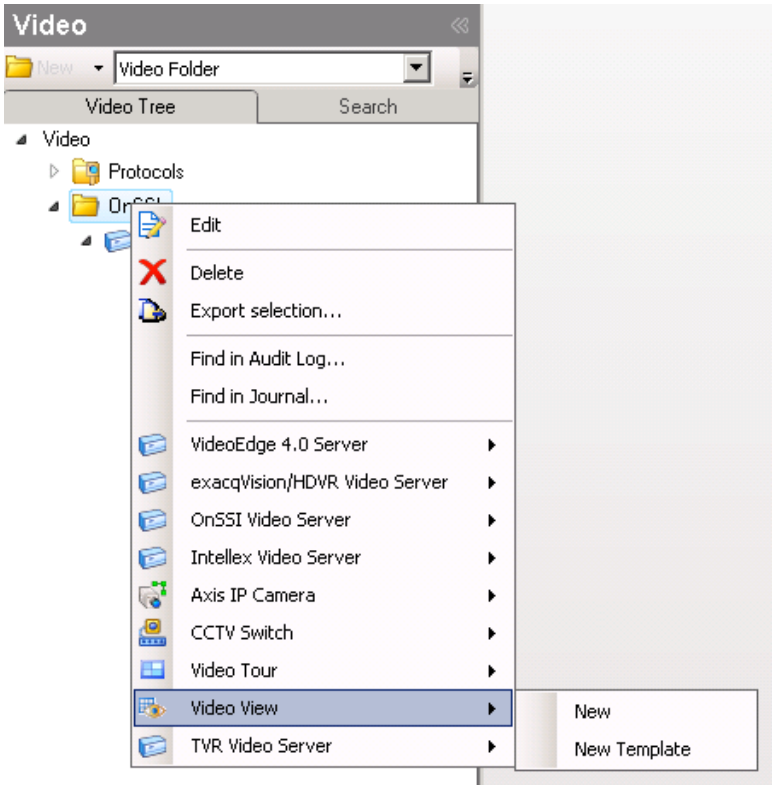

Figure 26 – Video View

Select **Video View** then **New**.

Video View dialog opens.

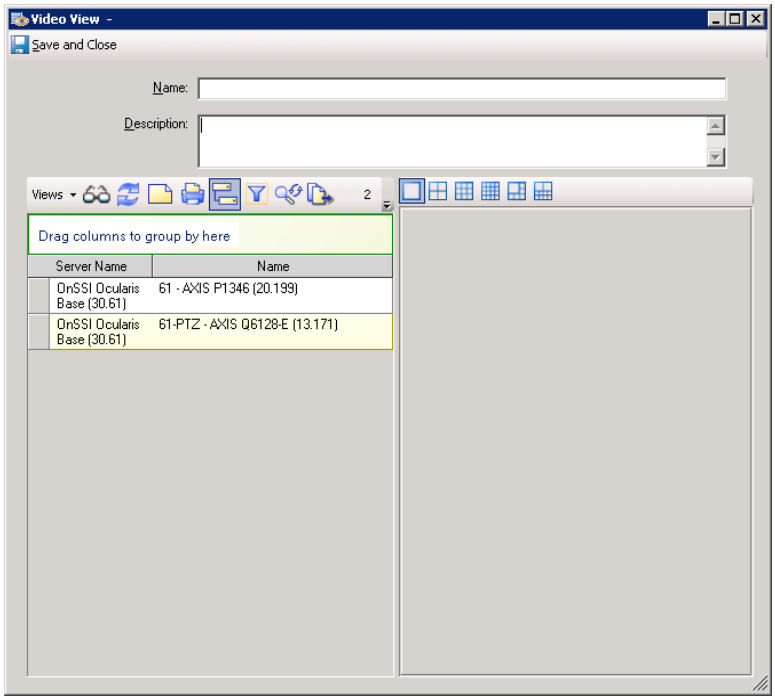

Figure 27 – Video View - Style

Enter a Name and Description. Select a View type, in this case a 1 x 1. Drag the desired cameras into the View.

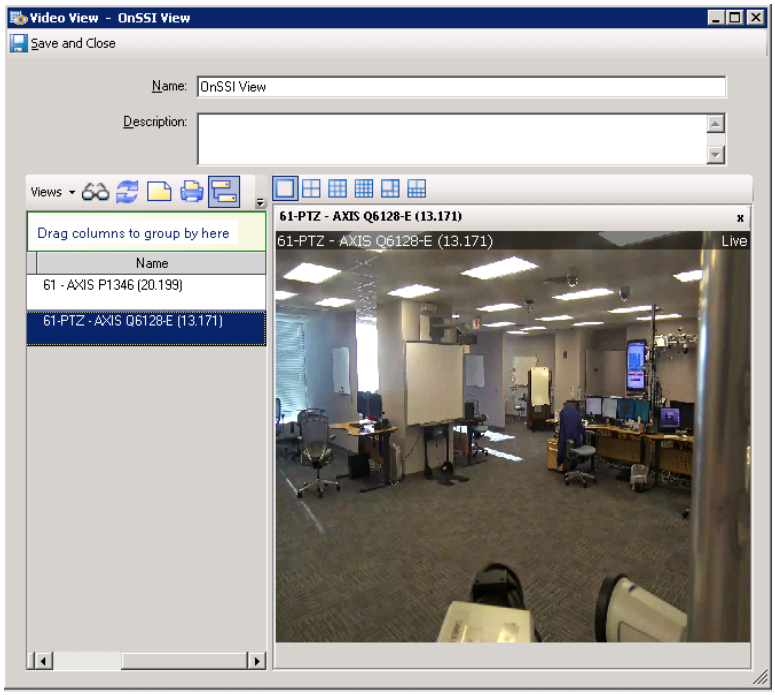

Figure 28 – Video View - Populate

Click **Save and Close** to close the **Video View** setup.

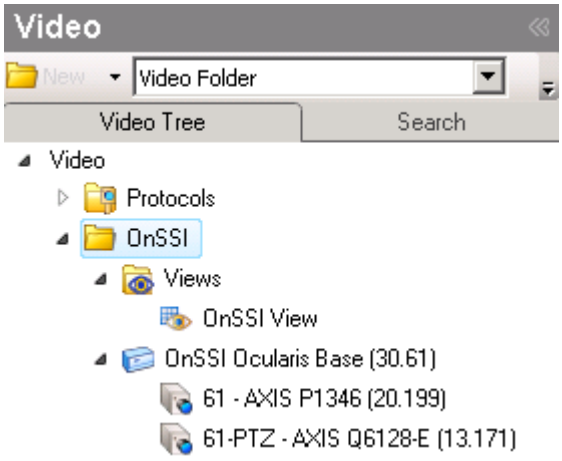

Figure 29 – Video View – Added to the Tree

The **Video Tree** tab now shows the **Views** with the newly created View.

Create any supported View as needed.

Create a Video Tour

Review **Chapter 7 – Video Tour** in the ***C•CURE 9000 Video Guide*** documentation.

A video tour is a list of views in sequence for a user defined dwell time in a Live Video Window. Dwell Time is a user specified time from 1 second to 5 minutes for viewing the views. You can pause the tour and restart the tour in either direction.

This features enables you to view live video from a collection of views that are configured to display different cameras and camera groups in a timed sequence.

How does Ocularis and C•Cure 9000 Interact?

Review the ***C•CURE 9000 Video Guide*** documentation.

The purpose of adding Ocularis to the C•Cure 9000 is to use the alarms and video from Ocularis in the C•Cure 9000 system. It is necessary to create C•Cure 9000 **Events** called **Video Action** and Ocularis Video Camera **Alarms**. These are combined to create feedback in C•Cure 9000. The following section describe creating **Events** and linking those to **Alarms**.

Create a Video Action

Review **Chapter 5 – Video Action** in the ***C•CURE 9000 Video Guide*** documentation.

Each event can be manually tested by using the events **Activate...** and **Deactivate...** selections when right clicking on the event. Notice the messages that are part of the Action.

Example 1: Create an event that will Display Viewer and Display Message

In the **Navigation** Pane of the **Administration Workstation**, click **Configuration**.

Select **Event** from the **Configuration** pane drop-down list.

Click **New** to create a new Event. The **Event Editor** opens.

- **General** tab is selected by default.
  - Type a name for the Event in the **Name** field.
  - Enter a Description is desired.
  - Check **Enabled.**
  - In **Default state** check **Armed**.

- **Acknowledgement** tab.
  - Check **Send state changes to Monitoring Station**.

- **Action** tab – **Display Viewer**
  - Click the **Add** button.
  - From the **Action** drop-down list pick **Display Viewer**.
  - For **Type** pick **OnSSI Video Camera**.
  - For **Object** select the desired Ocularis camera.

- **Action** tab – **Display Message**
  - Click the **Add** button.
  - From the **Action** drop-down list pick **Display Message**.
  - Enter the desired **message** to be displayed.

Click **Save and Close**. The Event dialog closes.

Example 2: Create an event that will Display Viewer, Move to Preset and Display Message

In the **Navigation** Pane of the **Administration Workstation**, click **Configuration**.

Select **Event** from the **Configuration** pane drop-down list.

Click **New** to create a new Event. The **Event Editor** opens.

- **General** tab is selected by default.
  - Type a name for the Event in the **Name** field.
  - Enter a Description is desired.
  - Check **Enabled.**
  - In **Default state** check **Armed**.

- **Acknowledgement** tab.
  - Check **Send state changes to Monitoring Station**.

- **Action** tab – **Display Viewer**
  - Click the **Add** button.
  - From the **Action** drop-down list pick **Display Viewer**.
  - For **Type** pick **OnSSI Video Camera**.
  - For **Object** select the desired Ocularis PTZ camera with presets defined.

- **Action** tab – **Video Camera Action**
  - Click the **Add** button.
  - From the **Action** drop-down list pick **Video Camera Action**.
  - Select the **Camera** tab
    - Pick the desired Server
    - Pick the desired PTZ camera with presets defined
  - Select the **Action Type** tab
    - Pick the desired **Action Type** of **Camera Preset Command**
    - Pick the desired **Preset**. *Note that this is a number of the Preset and not the name.*

- **Action** tab – **Display Message**
  - Click the **Add** button.
  - From the **Action** drop-down list pick **Display Message**.
  - Enter the desired **message** to be displayed for moving this PTZ camera to the desired Preset.

Click **Save and Close**. The Event dialog closes.

Configuring a Video Alarm

Review **Chapter 4 – Video Camera** in the ***C•CURE 9000 Video Guide*** documentation.

Example 3: Create a Camera Motion Alarm that will Display Viewer and Display Message

In the **Navigation** Pane of the **Administration Workstation**, click **Video**.

From the **Video Tree** tab expand the tree to expose the Ocularis cameras. right-click on the desired camera.

Select **Edit**. The **OnSSI Video Camera dialog o**pens.

- **General** tab is selected by default.
  - Live video is displayed

- **Alarms** tab.
  - Click **Add**.
  - Expand the **Property** to select the **Video Camera Alarm**.
  - Expand the **Action** dropdown and select **Activate Event**.
  - Select the **Event** recently added in section **Create Video Action** for **Example 1**.
  - Expand the **Value** dropdown and select **Motion**.

Click **Save and Close**.

To review ... When a **Motion** event is detected by Ocularis on this camera the action will cause the **Event** to be activated. The **Monitoring Station** will display the **OnSSI Video Camera** pop up showing the desired camera.

Ocularis

Ocularis System

Review the ***Ocularis Administration User Manual*** documentation.

Ocularis consists of a Recorder, Recorder Proxy, Base and Administrator.

The events are detected from the cameras by the Recorder. The Motion detection and other events are configured on the Recorder. These events are passed to the Recorder Proxy. The Events arrive at Ocularis Base from the Recorder Proxy.

These events must be mapped so they will be passed to the **C•Cure-Ocularis Video Driver** using the **Microsoft Message Queue (MSMQ)**.

Ensure that the desired camera – *157 – Axis M1013 (12.117) – Engineering Area* - has the **Server Side Motion Detection (Full Frame)** mapped so the **Motion** event is passed to the C•Cure 9000.

Ocularis Administrator Configuration

Under the **Servers / Events** tab map the camera to the event.

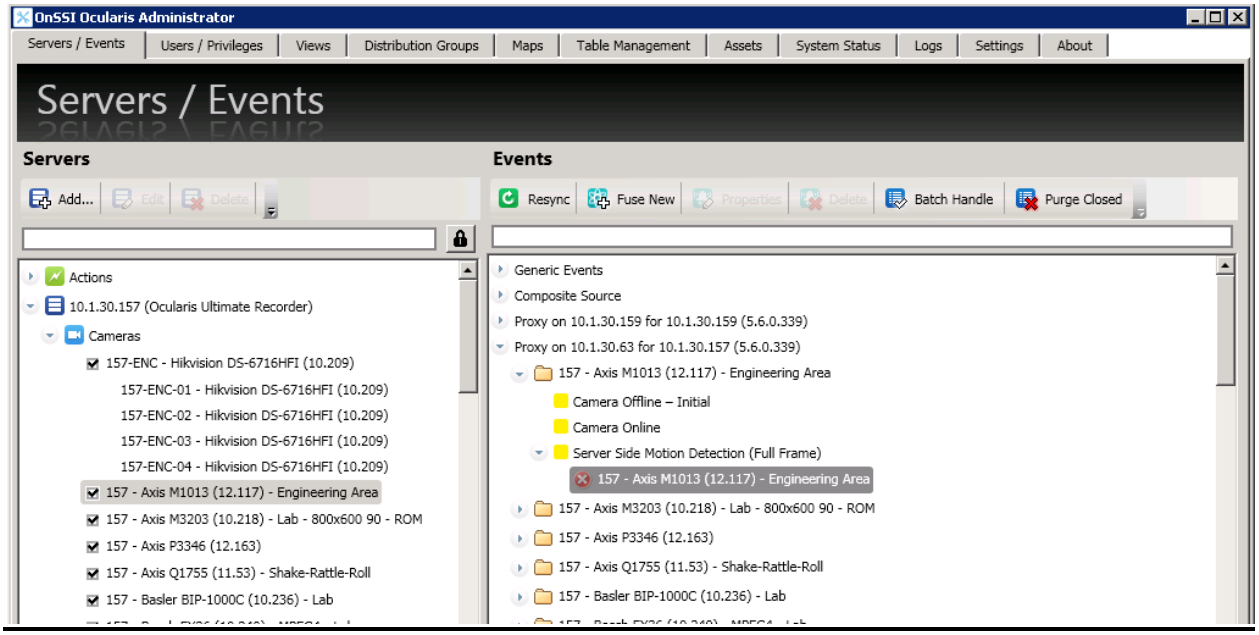

Figure 30 – Ocularis Administrator

Under the **Distribution Groups** tab ensure that under the Events tree the event is enabled under the **Enabled Events in this Distribution Group** section. In this example the *157 – Axis Q1614 (12.101) – Veterans Highway* camera has the **Server Side Motion Detection (Full Frame)** enabled.

Ensure that the User is enabled under the **Users in Distribution Group**.

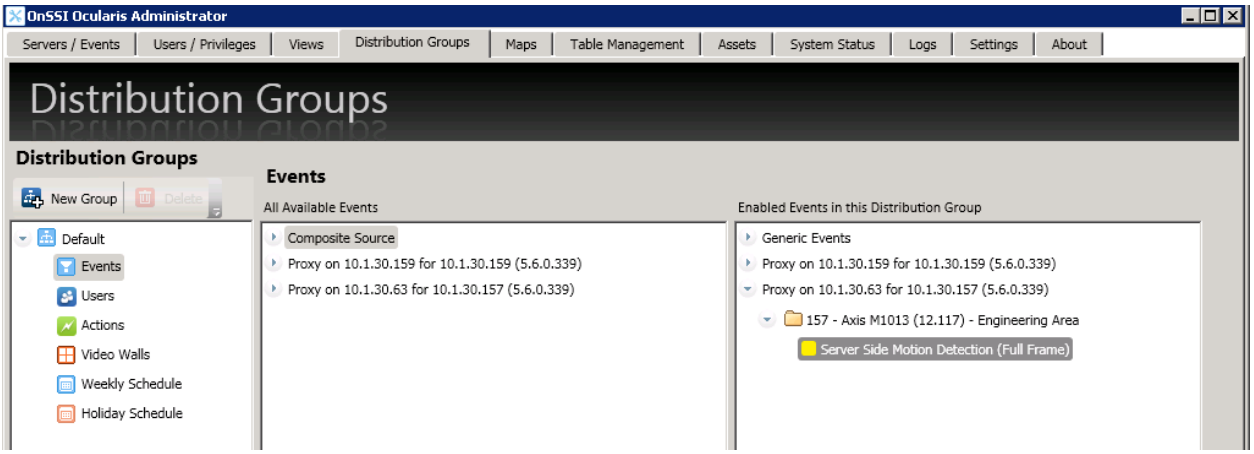

Figure 31 – Ocularis Administrator

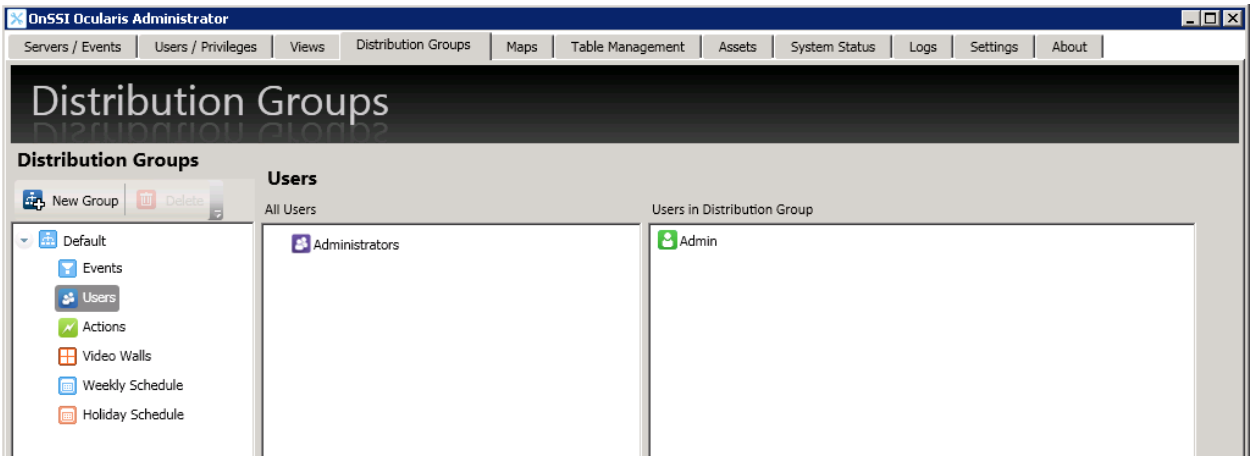

Figure 32 – Ocularis Administrator

Ocularis Client

Configure a view with a Blank Screen to see the event in Ocularis. No other action is needed in the Client.

Ocularis Video and Events in C•CURE 9000

Launch the **C•CURE 9000 - Monitoring Station**. With all the previous steps followed the Motion event will appear.

Motion Event

Upon receiving a Motion event from Ocularis the camera will be displayed. Display Viewer and Display Message will be displayed. The Monitoring Station will log the activity.

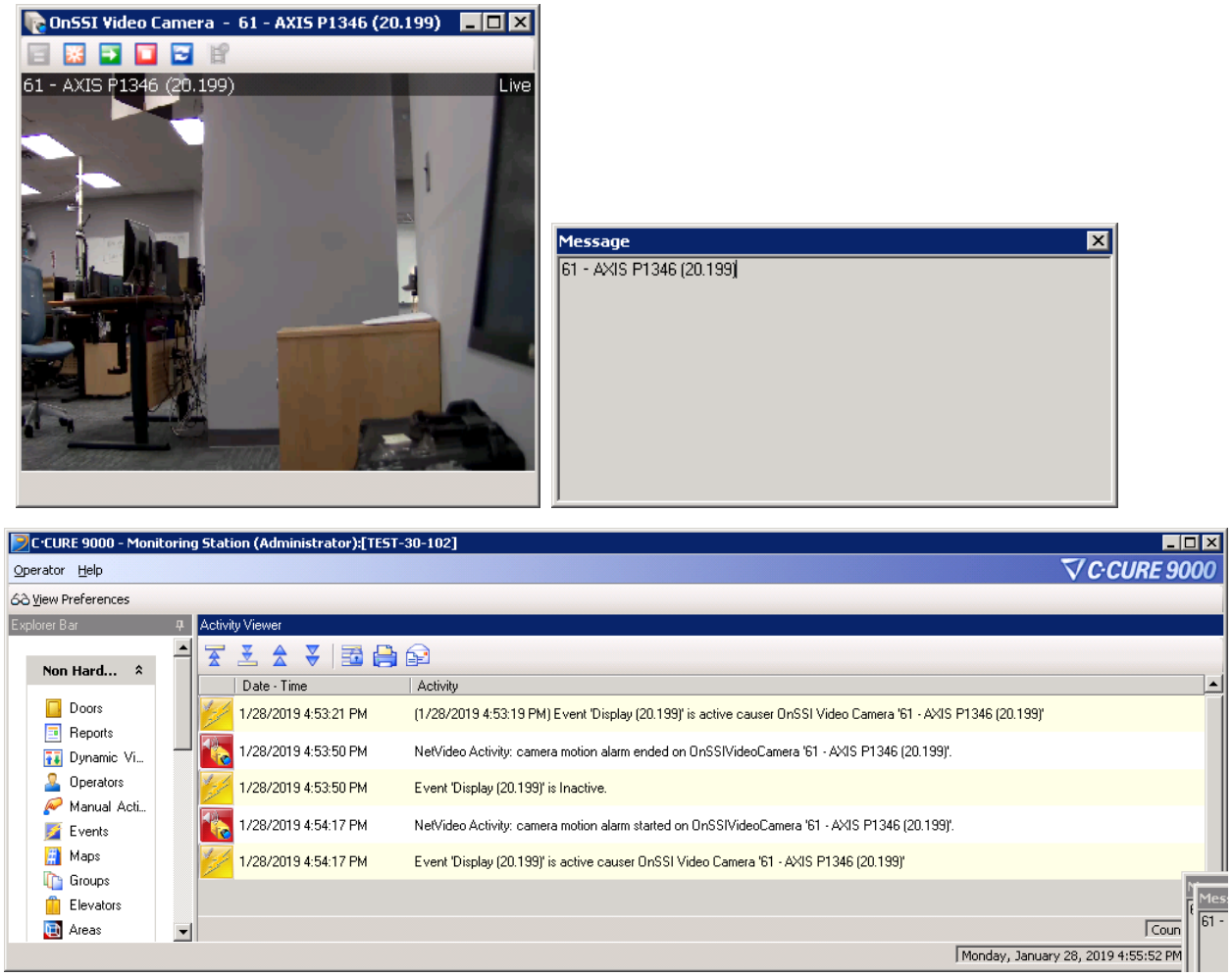

Figure 33 – Motion event received

Video viewer tasks are available in the Video Viedo Popup View.

- Take a Snapshot
- Retrieve Recorded Video
- Record Video
- Reconnect Camera

Move a Camera to a Preset Event

Upon receiving the event to Activate the Move to Preset action the camera will move to the desired Preset and be displayed.

Figure 34 – Move to Preset – Initial Preset Location **4-Stand Up**

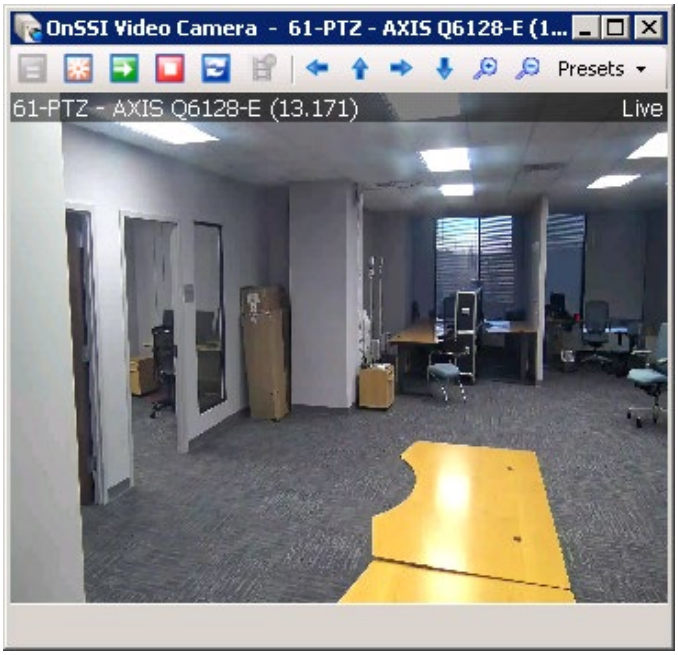

Figure 35 – Move to Preset – After Alarm Preset Location Moved to **3-Corner Office**

Figure 36 – Ocularis Camera Presets

Please note the preset number naming scheme as mentioned under **Limitations**.

Miscellany

In the rare occurrence that a problem is encountered logging can be configured by creating a directory off the C: drive root named **_OnSSI_CCURE**. There are two (2) log files that will be helpful. These are:

- OnSSI.CCureVideoServer
- OnSSI.CCureVideoClient

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