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Introduction

The CompleteView Video Proxy provides a single point for CompleteView Web Client users to access live video and recordings from cameras that may be recorded to any of multiple CompleteView recording servers.

Without using a Video Proxy the Web Client user will need to know the specific CompleteView server their camera are recording to, and access that server directly. In addition, without the Video Proxy if the user wants to access cameras recording to different CompleteView servers they will need to open multiple Web Client sessions to do so.

The Video Proxy pulls the desired video from any of multiple CompleteView recording servers and presents it in a single interface.
Minimum System Requirements

- Operating Systems: Windows 7 or later, Windows Server 2008
- Web Server: Microsoft IIS or Apache
- Core 2 Duo 2.0 Ghz or higher
- 2 GB RAM or higher
- 10/100/1000 Ethernet Controller. Dual NIC cards are recommended.
Installation

**Please note:** It is recommended the Video proxy be installed on a dedicated server.

Prior to installing the Video Proxy, a compatible Web Server must be installed and functioning. Please install Microsoft IIS or Apache and verify its functionality before proceeding with installation.

1. After installing a compatible Web Server and verifying it is running and functional, you may proceed with installing the Video Proxy. Run the Video Proxy installer and click ‘Next’ to proceed.

2. Select the installation folder for the Video proxy service and configuration tool to be installed. Click ‘Next’ to proceed.
3. Select the folder to install the Video Proxy client pages. It is important these files be installed in the root of the web server. For example, if using Microsoft IIS web Server the root folder is C:\inetpub\wwwroot. Click the ‘Change…’ button to choose the correct folder.

4. Choose the folder which is the root of your web server. This may be C:\inetpub\wwwroot for IIS or [Program Files]\Apache Software Foundation\Apache2.2\htdocs for Apache. Once you have selected the folder, click ‘OK’ to return to the ‘Installation Folder’ screen.
5. Once you have selected the folder which is the root of your web server, click ‘Next’ to proceed.

6. Before moving to the next installation step, the Video Proxy installer will show the folder where custom logos can be placed. Please make note of this folder location because if per-user customization options will be used you will need to copy the customized logos to this folder. Click ‘OK’ to proceed.
7. The Video Proxy files will now be installed.

8. Installation is complete. Click ‘Finish’ and restart the computer so the Video Proxy service will begin running.

Please note: The default page a user will need to access for the Video Proxy’s web interface is ‘index.html’ which will be located in the folder specified in step 4 of installation. Salient recommends configuring this page as the default page the web server loads when accessed. By default, most web servers will load ‘index.html’ located in the root of the web server.
Configuring the Video Proxy

Video Proxy configuration is accessed using the CompleteView Video Proxy configuration tool. To access the tool click Start->All Programs->CompleteView Video Proxy v4.0->CompleteView Video Proxy.

The configuration tool requires administrative level access to use. Administrator users can be configured in the Video Proxy configuration tool. The default administrator account is ‘admin’ with no password.

Once authentication is complete the configuration options will be available.
Add an Administrator Account

Video Proxy configuration tool was accessed using the default administrator account of ‘admin’ with no password. If desired, other administrator users can be added or existing users can be modified through the configuration tool.

Administrator users have no configuration options, and are setup for the purpose of accessing the Video proxy configuration only.

To add a new administrator account, perform the following steps.

1. Right click on ‘Administrators’ and choose ‘Add Administrator’.

2. Enter the username for the new administrator.

3. Enter the account’s password

4. Reenter the account password to confirm.

The new account has been created.
Add a CompleteView Recording Server

Before Video Proxy users can be added it is necessary to first add CompleteView Recording Servers where the user accounts and cameras exist.

An important element of Video Proxy configuration is choosing what servers the user’s cameras are recording to. The user account added to the Video Proxy must exist on the corresponding server (this is further described in ‘Add a Video Proxy User’) so prior to configuring users, the servers which the user can access must be added.

To add a CompleteView Recording Server, perform the following steps.

1. Right click on ‘Servers’ and choose ‘New Server’.

2. On the ‘Add Server’ dialog enter the following information:
   1. The recording server’s IP address or hostname
   2. The port number for the CompleteView Web Server must be set between 4502-4534 to accommodate Microsoft Silverlight.
   3. The administrator-level username and password.
3. Connectivity to the server will be verified and some information will be downloaded. This process may take about 1 minute.

4. The server is now added to the Video Proxy configuration.

Please note: The Web Server must be enabled on the target CompleteView Recording Server prior to adding the server. Also the administrative level username and password is required only to add the server. The user’s credentials and permissions will be used for determining camera access on the server.
Add a Video Proxy User or Group

Video Proxy user accounts are pass-through users representing user accounts that should also exist on the target CompleteView recording servers behind the video proxy. When a user account is setup on the video proxy it must also exist on the CompleteView recording server (or servers) that are recording the cameras the user should have access to.

Prior to setting up a user on the Video Proxy please ensure an account with the same username exists on the target CompleteView recording server(s).

**Please note:** Adding Users or Groups from CompleteView to the Video Proxy is the same process. In both cases a user or group with the same name must exist on the target CompleteView server(s). If adding a group, all users within the group will be able to log in to the Video Proxy and will share the same customization settings. **Note** if a group is set to pull cameras from multiple CompleteView servers ensure the group membership is the same on both servers. If it is not then a user that is a member of the group on one server, but not the other server may see an error when logging in to the Video Proxy.

1. Right click on ‘Users’ and choose ‘Add User’ or ‘Add Group’.

2. Enter the name for the user or group account. **Please note** this user account must exist on the target CompleteView recording server(s). Please refer to the CompleteView Administrator Manual for instructions on setting up server user accounts. Also note, you will not be asked to enter a password for the user account. This is because the password for the account on the CompleteView recording server will be used for authenticating the user.
3. You will be presented with the user or group configuration options.
Import Users or Groups from Active Directory

Follow these steps to import a user or group from Active Directory. **Please note** the guidelines and limitations described in the ‘Add a Video Proxy User or Group’ section still apply.

1. Right click on ‘Users’ and choose ‘Add User’ or ‘Add Group’.

2. Choose ‘Import’.

3. Select the CompleteView server to import Active Directory users or groups from. Click ‘Import’.
4. Video Proxy will pull the AD user or group list from the specified CompleteView server as each CompleteView server may be connected to a different Active Directory. Select the Active Directory users and/or groups you wish to add from the list. **Please note** the AD user or group accounts must exist on the target CompleteView recording server(s). Please refer to the CompleteView Administrator Manual for instructions on importing Active Directory user or group accounts.

5. You will be presented with the user or group configuration options.
User or Group Configuration Options

Configuration options for the user account allow the Video Proxy Web Client interface to be customized on a user-by-user basis. Match the numbers shown on the CompleteView Video proxy Configuration Tool screen shot to the corresponding numbers in the screen shot of the Web Interface below it to see where the settings have effect.
## Configuration Settings

<table>
<thead>
<tr>
<th>Configuration Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proxy Server Display Name:</td>
<td>Changes the display name the user sees of the top level server object in the Tree View of the Web Client interface.</td>
</tr>
<tr>
<td>Custom Logo:</td>
<td>Changes the default ‘CV’ logo displayed at the top left of the Web Interface, to any custom graphic. Please note the graphic chosen must be located in the ‘/images/logos’ folder under the root of the installed web server.</td>
</tr>
<tr>
<td>Custom Header Text:</td>
<td>Changes the default text displayed to the left of the logo from ‘Salient Systems’ to any custom text.</td>
</tr>
<tr>
<td>Custom Page Title:</td>
<td>Changes the title of the Web Client from ‘Salient Systems’ to any custom text.</td>
</tr>
<tr>
<td>Custom Auth Error Message:</td>
<td>When the Web Client cannot connect to CompleteView Recording Servers configured for the user the custom error text can be displayed. As an example, the custom text could show a phone number for the user to call for support.</td>
</tr>
<tr>
<td>Custom Inactivity Length (mins):</td>
<td>The length of time before a user is automatically logged out of the Web Client due to inactivity.</td>
</tr>
<tr>
<td>Enabled Servers</td>
<td>Choose the servers the user account exist on and video will be pulled from and made available in the Web Client interface. Please note, the user account must exist on the target servers as a server user account. If the account exists on multiple servers, each server needs to have the account and the multiple accounts need to have the same password.</td>
</tr>
<tr>
<td><strong>Display Server Details:</strong></td>
<td>If checked, and multiple servers are used for the user account, each server will be shown in the Tree View of the Web Client interface. The cameras which the user is permissioned to see will be show as sub objects under the servers in the tree.</td>
</tr>
<tr>
<td>----------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Choose a server to edit display name:</strong></td>
<td>If ‘Display Server Details’ is checked you will have the option to customize the display name of the server to any custom text. The default display name will be the server’s configured ‘friendly name’.</td>
</tr>
<tr>
<td><strong>Display Name</strong></td>
<td>Specify the custom name of the server to be displayed for the user.</td>
</tr>
</tbody>
</table>
Port Configuration

There are three ports that are used by the Video Proxy.

- **Port 4502-4534**: The Web Server needs to use one port in this range on CompleteView Server. The Video Proxy will connect to this port on the CompleteView server to obtain video and for general communication. This port can be changed by connecting to the CompleteView Server using Server Config.

- **Port 80**: This is the default port of the 3rd party Web Server used by the Video Proxy. Please refer to Web Server documentation for instructions on changing the port.

- **Port 4260**: This is the default ‘Listen Port’ of the Video Proxy. It can be changed in the Video Proxy Configuration Tool.
Additional Resources

Visit the Salient website, www.salientsys.com, for additional support and CompleteView training:

- **Manuals & Documentation** (www.salientsys.com/support/manuals-documentation/) – Includes Administrator’s Manual, Client User Manuals (including Video, Alarm and Web clients), How To Guides and Tips.

- **Online Tech Support** (www.salientsys.com/elearning) – Get quick access to online tech support modules that cover the most frequently asked product questions, such as “Adding and Moving IP Camera Licenses.”

- **Salient University eLearning** (http://salientsys.latitudelearning.com) – A convenient way to get trained on CompleteView. Register online for access to interactive, user training modules covering the Video, Alarm, Mapping and Web clients.

- **Classroom Training** (www.salientsys.com/training) – Traditional, classroom training is available throughout the United States. Please visit the Salient website for training calendar, agenda and registration.