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Introduction

The CompleteView Video Proxy provides a single point for CompleteView Web Client and TouchView 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.

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.

![Image of Video Proxy Setup installation 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. The Video Proxy files will now be installed.
7. 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 ->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 Video Proxy server. Also, an 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).

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.
## Configuration Settings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friendly Name</td>
<td>The DNS resolved name of the server</td>
</tr>
<tr>
<td>Listen Port</td>
<td>Port used by the Video Proxy server to communicate with proxy clients. Must be in the 4502-4534 range</td>
</tr>
<tr>
<td>Secure Listen Port</td>
<td>SSL port used by the Video Proxy server to communicate with proxy clients. Must be in the 4502-4534 range. Setting to 0 to disable the SSL server</td>
</tr>
<tr>
<td>Remote Server Timeout (s)</td>
<td>Time in seconds the Video Proxy server attempts to communicate with a CompleteView video server before giving up, and passing an error to the proxy client</td>
</tr>
<tr>
<td>User Inactivity Timeout (m)</td>
<td>The length of time before a user is automatically logged out of the Web Client due to inactivity.</td>
</tr>
<tr>
<td>Group Re-authentication Frequency</td>
<td>Time envelope wherein multiple users in the same group may access the Video Proxy without having the Video Proxy re-authenticate their group membership with the CompleteView server</td>
</tr>
<tr>
<td>Header Text</td>
<td>The custom product name as displayed in the Web Client</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>Company Name</td>
<td>Name of the organization</td>
</tr>
<tr>
<td>Slogan</td>
<td>Organizational slogan</td>
</tr>
<tr>
<td>Support Website</td>
<td>Address of organization’s website</td>
</tr>
<tr>
<td>Support Email</td>
<td>Email address for tech support</td>
</tr>
<tr>
<td>Support Phone Number</td>
<td>Phone number of tech support</td>
</tr>
<tr>
<td>Support Hours</td>
<td>Hours of tech support</td>
</tr>
<tr>
<td>Login Image</td>
<td>Splash image for system login. Must reside in …\VideoProxy\HTML or one of its sub-folders</td>
</tr>
<tr>
<td>Title Image</td>
<td>Title image for client. Must reside in …\VideoProxy\HTML or one of its sub-folders</td>
</tr>
<tr>
<td>About Image</td>
<td>Help&gt;About image for client. Must reside in …\VideoProxy\HTML or one of its sub-folders</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proxy Server Display Name</th>
<th>Changes the display name the user sees of the top level server object in the Tree View of the Web Client interface.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Name</td>
<td>Creates a user-definable alias for a given CompleteView server to be displayed via the Web Client or TouchView. Operates on a per-user basis.</td>
</tr>
</tbody>
</table>
Port Configuration

The Video Proxy uses the same port range as the CompleteView Web server, 4502-4534.

- Port 4502-4534: The Web Server needs to use one port in this range on the 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. CompleteView Video Proxy supports Microsoft IIS or Apache web servers. Port 80 is the port of the web server which will be used to publish the login page to the Internet or intranet. Please refer to Web Server documentation for instructions on changing the port.

- Port 4502-4534: Pick an unused port in this range for the ‘Listen Port’ of the Video Proxy. In addition, there is a ‘Secure Listen Port,’ which is the secure listen port of the video proxy. Select an unused port in the same range. Both settings can be changed in the Video Proxy Configuration Tool.

- In the Active Directory Authentication section, there is the Group Re-authentication Frequency setting. This is the frequency with which the proxy will poll the AD server to verify membership of the users to the group. Within this interval, the members of the groups will have their statuses cached by the proxy as valid members of the group, and will not require re-authentication.
Additional Resources

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


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

- **Training** ([http://www.salientsys.com/support/training/](http://www.salientsys.com/support/training/)) – we offer both online and classroom training.
  - CompleteView™ Online Certification - Register online for access to interactive training modules covering the Video, Alarm, Mapping and Web clients
  - CompleteView™ Classroom Certification - Our traditional classroom training is available throughout the United States. Please visit the Salient website for link to online training, training calendar, agenda and registration

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