

SecureGuard®

User Manual

SecureGuard® User Guide

Information v. 2.9

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1 Overview

Speco Technologies SecureGuard® VMS is a PC Windows application that provides access to DVRs, NVRs, IP cameras, and Access Controllers to assist surveillance personnel. This document provides helpful tips for using the system.

Topics covered include:

Configuration – Setting up SecureGuard® so active surveillance work can be performed. This activity is typically done by an administrator or installer.

Operation - the functions available during general operation of the product.

SecureGuard® uses a modular design for connecting to different types of IP cameras, DVRs, and NVRs. Each connection plug-in provides access to a different type or family of devices. The operations available on each DVR, NVR, or IP camera may vary depending on what level of support the connection plug-in can provide. These devices can then be assigned to Access Control doors for pop-up events and recording upon granted or denied access.

2 Configuration

SecureGuard® provides controlled access through use of user names and passwords. There is one special user who will be referred to as the Administrator. The administrator is typically the one who performs the initial configuration on the installed product. This includes:

1. System Configuration - Adding new DVR, NVR, IP cameras, Access Control sites to the system.
2. User Configuration - Adding new users to the system and providing access so that they may monitor the surveillance equipment.

2.1 Concepts

2.1.1 Users

A user in SecureGuard® consists of a name, password, and a *role*. A *role* is a set of permissions for different operations which determine what the user can and cannot do. When the application is started, the user is asked for a user login name and password. If these match what the administrator has configured, then the product initializes and the user can perform permitted operations.

There is a special user named *admin* who is the administrator for the system. This user is always present in the list of users and cannot be deleted or modified. All other users are added by the administrator. The *Administrator* has full permission to exercise all functions within the system. The *administrator* may also delegate operations to other users.

The default password for the admin user is **admin**. You are STRONGLY encouraged to change this password during initial installation of the system. Please be sure to save this password to avoid being locked out of the system.

2.1.2 System Folder

The *System Folder* is the location in the file system where all the settings and configuration information is stored. This location should be on a local hard drive (C:/).

2.1.3 SecureGuard® Configuration Tool

SecureGuard® encapsulates administrator responsibilities within the Configuration Tool, which will be launched directly after the installation steps above. The interface to this function is a tabular display intended to guide administrators through the steps of creating and maintaining interactions with cameras and users.

The Configuration Tool manages both the underlying database and the SecureGuard® server. After configuration changes are made, click *Apply* to store the updates and then exit the Configuration Tool.

Use of the Configuration Tool requires a Windows-level administrator account. If prompted, enter the Windows' admin credentials to proceed.

2.1.4 SecureGuard® Client

General users of SecureGuard® will use the Client interface to:

- Create display groups of cameras
- Monitor video, audio, and access control activity
- Listen to or send audio to sites, if supported
- Manually record video
- Playback and export footage from server or edge device
- Create Layouts for quick and easy access to sites
- Operate motorized or PTZ cameras
- Create and run PTZ tours

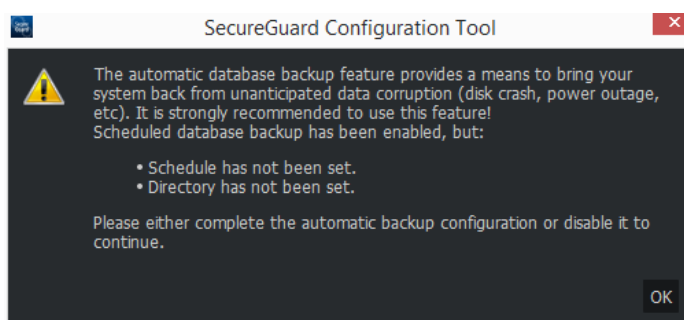
2.2 SecureGuard® Configuration Tool

The SecureGuard® system requires configuration information that needs to be initially specified by the Administrator. This includes:

1. Location of the System Folder and recording data, and the maintenance parameters for this data.
2. Location of the Archive Location and, if applicable, archive schedule.
3. Initialization of the database to manage recordings and backups.
4. Configuration of network settings for communication with sites and users.
5. Individual configuration of DVR, NVR, IP camera, and Access Control sites
6. Recording and notification schedule management
7. Importing audio files for paging
8. Management of automated user notifications
9. Management of E-Maps
10. User logins and roles
11. License Management
12. Analyze Healthcare Statistics
13. Activity logs
14. Configuration of Audio Streaming

2.2.1 Initial Configuration Tool Login

With the first installation, the SecureGuard® system will need to be initialized. As the Configuration Tool is launched, the administrator will be brought to the Database tab (See [Database Configuration](#)). By default, the backup feature of SecureGuard® is enabled. To use this feature, administrators are required to enter the backup schedule and location where recovery information will be stored on the Database tab. If another tab is clicked, the following message will be produced:



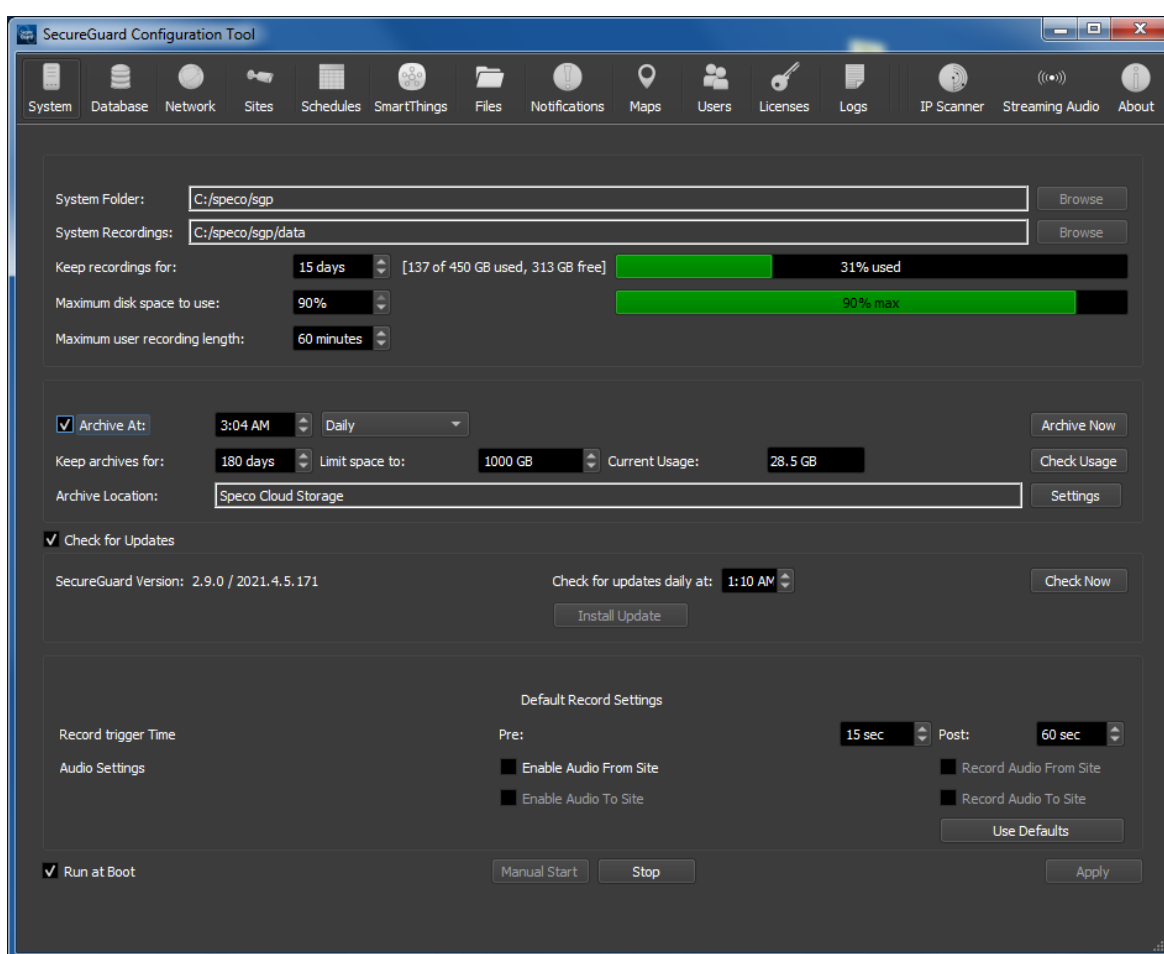
Backup Warning Message

If no database backup is desired, uncheck the box next to 'Scheduled Backup' and click 'Apply. **IT IS STRONGLY RECOMMENDED THAT A SCHEDULED BACKUP IS PUT IN PLACE TO PREVENT A FULL RE-INSTALLATION IN THE EVENT OF A DATABASE CORRUPTION.**

2.2.2 System Configuration

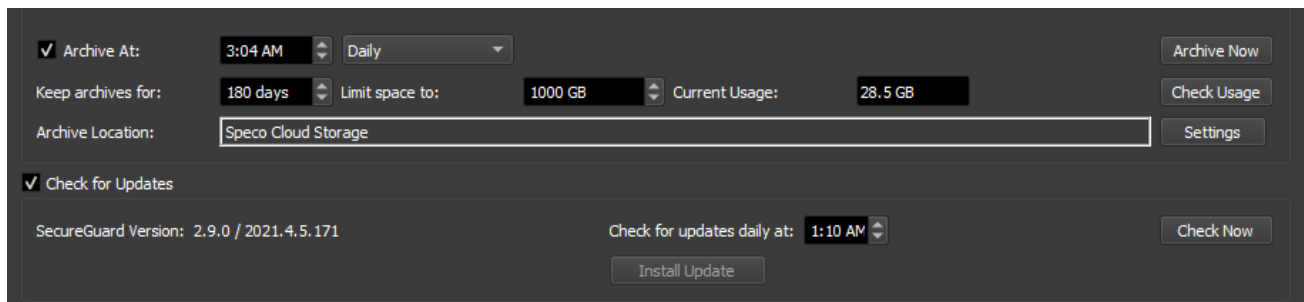
The first tab in the Configuration Tool is the System dialog. In this tab, the administrator selects data locations and maintenance parameters for the system.

The default settings will provide adequate performance for most installations. Storage of recordings requires ample disk space however, so for optimal performance it is recommended that system recordings not be located on the same drive as the operating system. Recorded data will be deleted as needed to keep usage below the maximum limit selected.



System Configuration

Archiving Setup



Archiving of recorded data can be performed on a scheduled or manual basis by selecting an archive location. Daily or weekly archiving schedules can be set to occur at a specific time.

Select the number of days to keep archives. All archive data older than the specified number of days will be deleted and unrecoverable.

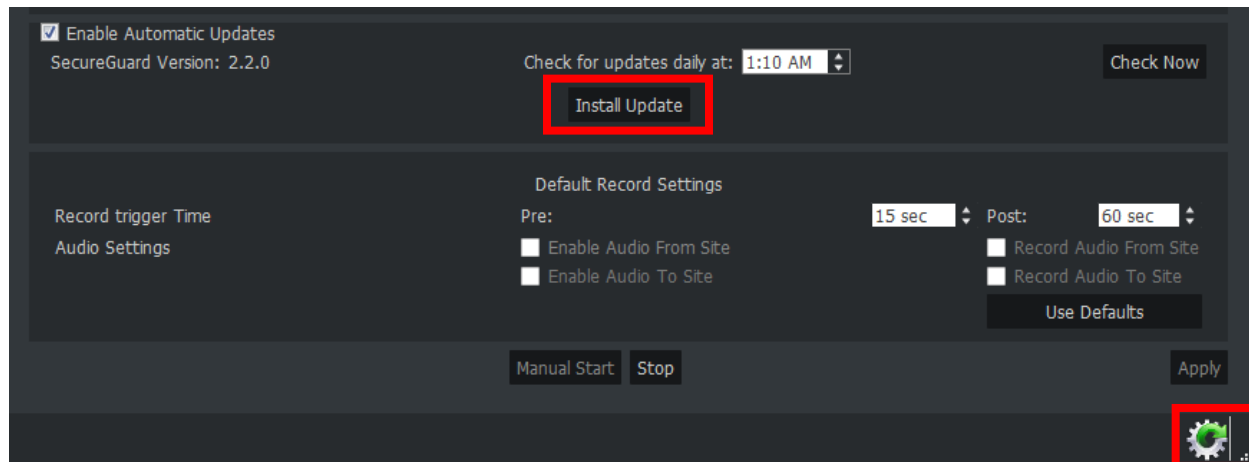
WARNING: The duration of an archive will vary by:

- Archive location (Cloud and NAS will rely on internet bandwidth. DAS will rely on data transfer rates such as SATA and USB)
- Number of sites being archived
- Recording type (Example: Motion and Sensor recordings will archive faster than continuous)
- Frequency of archiving (Daily vs Weekly vs Manual)

Limit the space to how many gigabytes (GB) of the selected archive location should be used for archive data. This data shall not exceed the amount of GB allowed.

Checking for and Installing Updates

When enabled, the Server will check for new software updates on a daily basis at the administrator's specified time. A "Check Now" button is also available to allow the administrator to check for software updates when pressed.

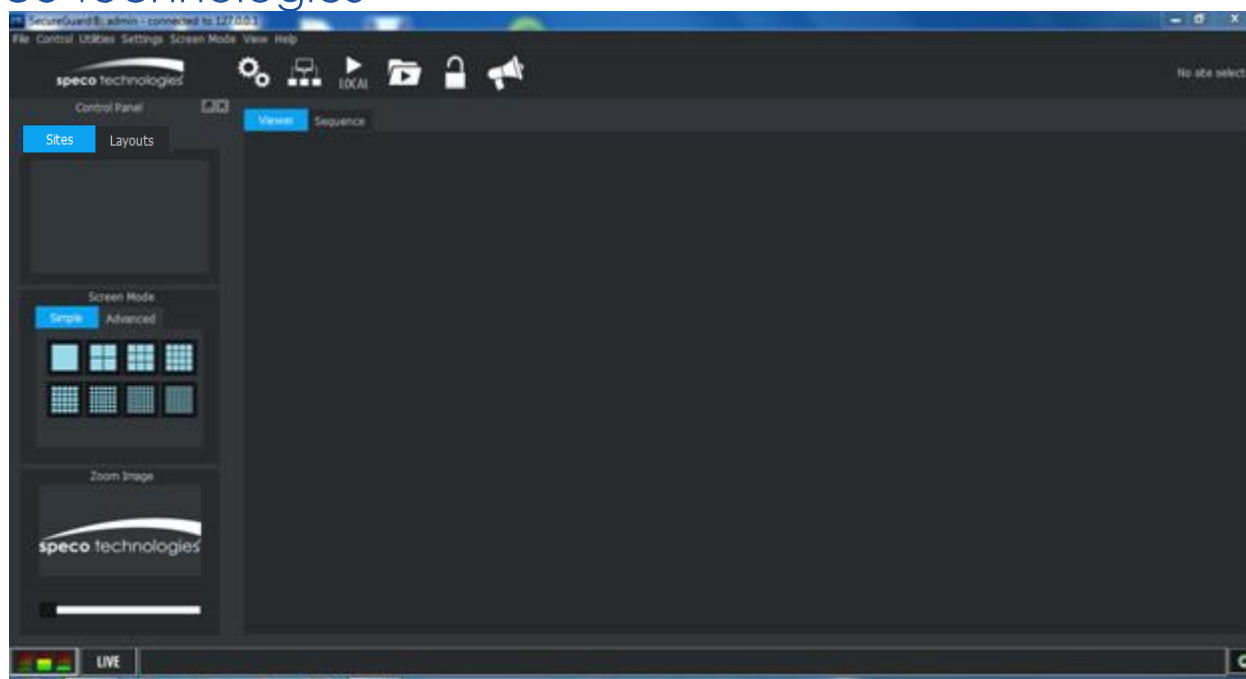


Install Update option with Gear Icon in Configuration Tool

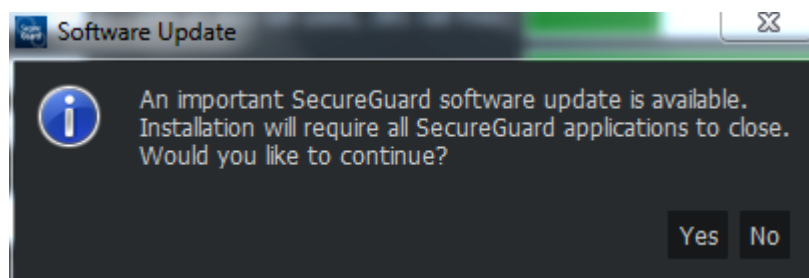
If an update is available, the latest Windows and Mac SG installer files will be downloaded automatically. After the download is completed, a gear icon will be displayed in the lower right side of the Configuration Tool and an administrator's Client notifying them that an update is ready to be installed. The option to install the update will be found in the Configuration Tool.

If the administrator presses the "Install Update" option, a message will display confirming the software update and that the administrator would like to continue with the installation. If the administrator chooses to proceed, the update will be installed.

If the administrator chooses not to proceed with the install, the gear icons and "Install Update" option will be displayed until then.

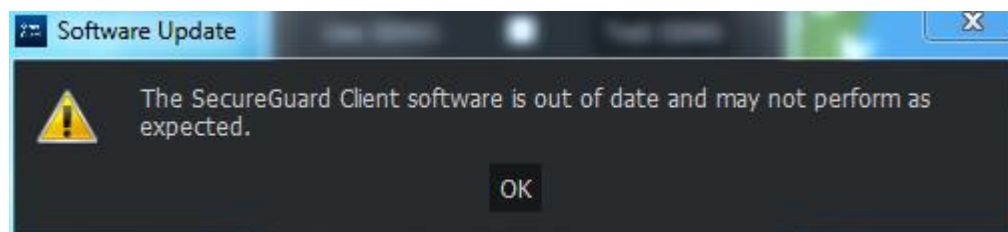


Gear Icon in Administrator's Client



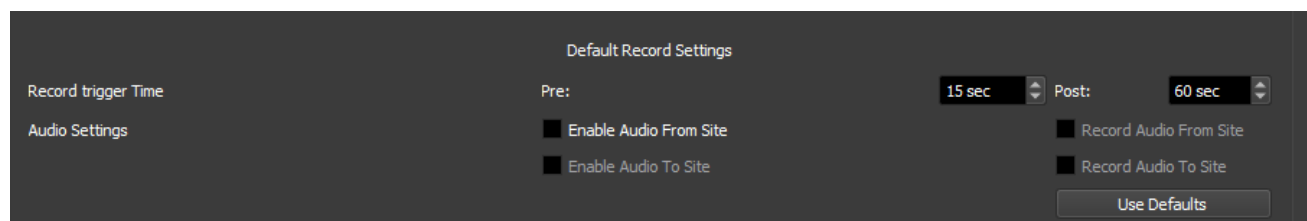
Software Update Message

Users who log into a server that has been updated will be prompted to install an update for the Client. It is recommended that the user updates the Client to the same version as the Server it is connecting to. If the user declines to update, the software may not perform properly.



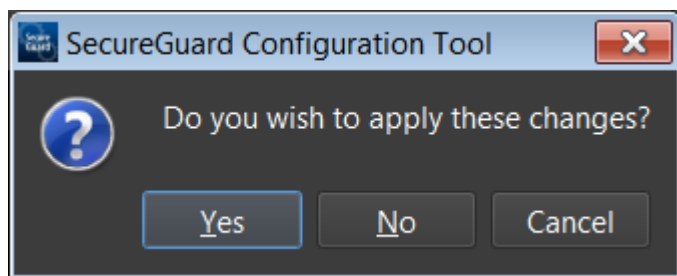
Software Update Decline Warning Message

Recording trigger 'pre' and 'post' values may be specified. When these fields are non-zero, event recordings will include the selected number of seconds before and after the recording. General site audio in/out parameters may also be set. Be aware that extra audio streams may create extra system load.



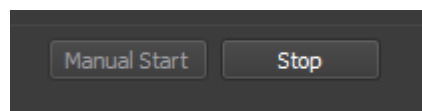
Default Record Settings

On each tab of the Configuration Tool, there is an *Apply* button. The *Apply* button is enabled when changes have been made that need to be stored to the database. Trying to move to a different tab without pressing the *Apply* button will cause a dialog to appear asking if you want to save the changed settings. An example of this dialog is shown below.



Apply dialog

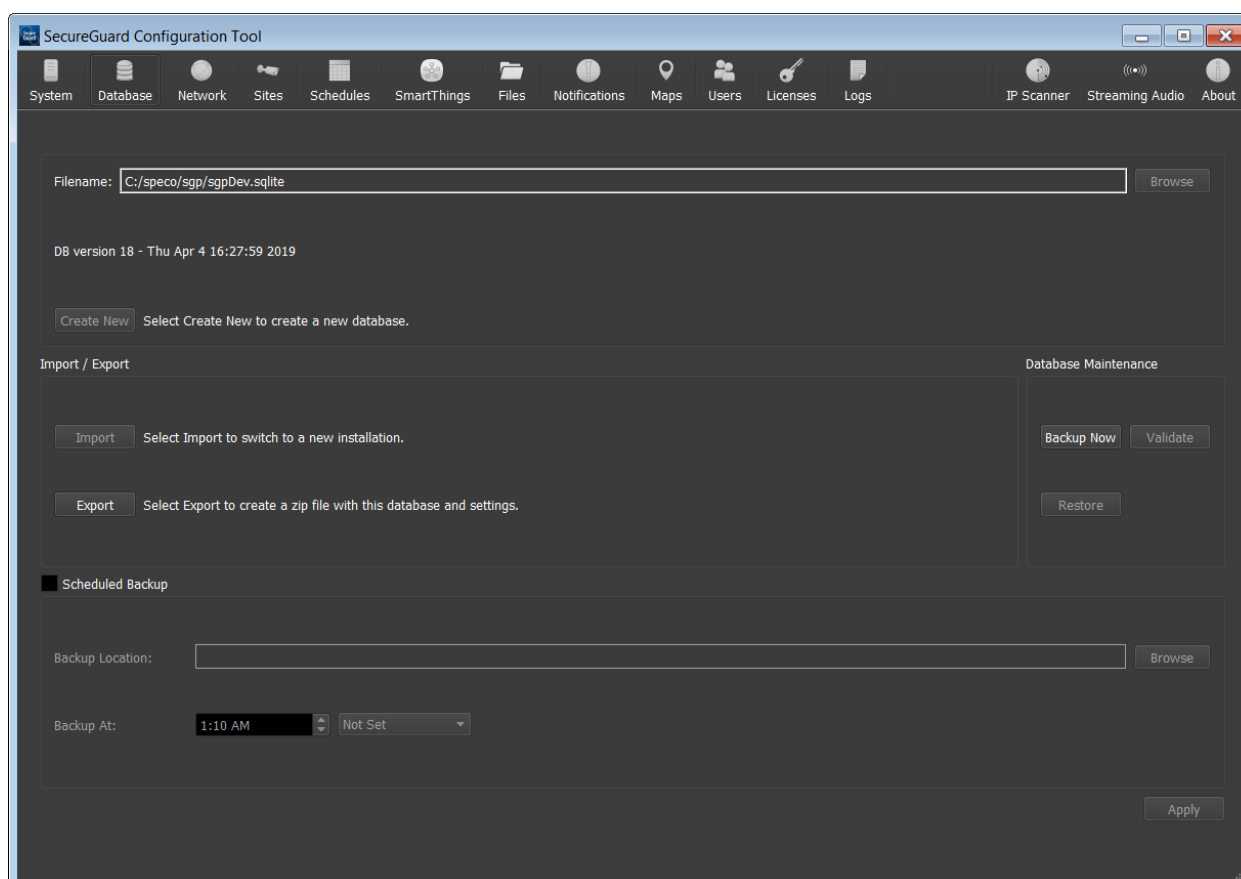
Once all updated information has been written to the database, the underlying server needs to be stopped and restarted so that the database is refreshed. These actions will happen automatically when exiting the Configuration Tool. This may also be accomplished by using the *Stop* and *Manual Start* buttons located on the bottom of the System tab.



SecureGuard Service Manual Start and Stop

2.2.3 Database Configuration

The SecureGuard® system uses a database to organize users and recordings. Any interaction with the database requires that the SecureGuard® server be in a stopped state. Go to the System tab to stop the service before making changes.



Database Configuration

If you're doing a manual installation of SecureGuard®, click the *Create New* button to initialize a database with default settings.

PLEASE NOTE: It is highly recommended calling Speco's Tech Support before performing this action. Proceeding without assistance could compromise your current installation.

Administrators may periodically verify the database's integrity by clicking the *Validate* button. This operation will perform several checks on the underlying structures. If a problem is found, repair of the database may be initiated. Some data may be lost when attempting to rebuild the database in this manner. If validation of the rebuilt database fails and errors persist, we recommend contacting Speco's Tech Support for further troubleshooting.

SecureGuard® provides the ability to store and retrieve configuration information from the system.

- *Export* – Configuration settings for the current installation (site information, users, groups, etc.) are bundled into a single .sgz file that may be used on other PCs to initialize a system. Recording information will not be collected.
- *Import* – A .sgz file will be used to populate data in the system locations provided. If existing system data is present in these locations, the user will be notified. Recording information will not be imported.
- *Backup Now* – Configuration settings for the current installation **and** recording information will be bundled into a single .sgz file to be used for a restore in the event a database becomes corrupt.
- *Restore* – A .sgz file will be used to restore all configurations and recording information to the installation.

Regular Backups can be configured for the SecureGuard® system. This feature is enabled by default. Regular use of the backup utility provides a recovery point in the event of database corruption due to power outage or other unanticipated events.

Set the *Backup Location* field by using the *Browse* button to choose a location for storage. It is strongly recommended that backup files be located on a different disk from the operating system. Schedule daily or weekly backup time using the fields provided.

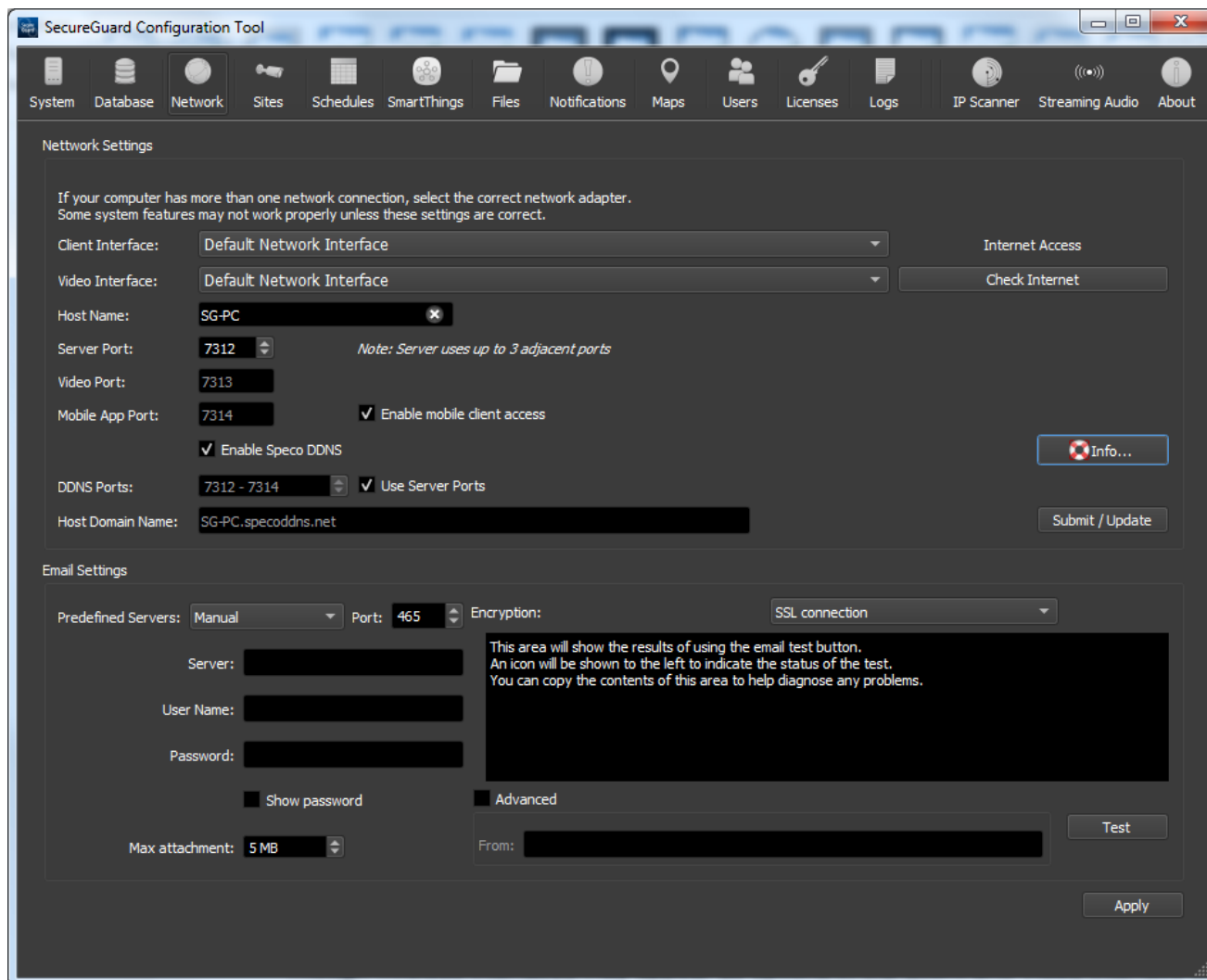
****It is important to note that the Backup utility stores the system configuration and recording information, not the recordings.**

To revert to a previously backed up version, click the *Restore* button. Only a database of the same version or older may be restored. During restoration, recordings that have occurred in the interim are imported into the system. The restored database will be validated and upgraded to the most recent version.

Deselect the **Backup** checkbox to disable this feature.

Network Configuration

Network settings for your environment will prefill within the Network dialog.



The image shows the 'SecureGuard Configuration Tool' window with the 'Network' tab selected. The 'Network Settings' section contains the following fields and controls:

- Client Interface:** Default Network Interface (dropdown)
- Video Interface:** Default Network Interface (dropdown)
- Host Name:** SG-PC (text field with a clear button)
- Server Port:** 7312 (spin box) with a note: "Note: Server uses up to 3 adjacent ports"
- Video Port:** 7313 (spin box)
- Mobile App Port:** 7314 (spin box) with a checked checkbox "Enable mobile client access"
- DDNS Ports:** 7312 - 7314 (spin box) with a checked checkbox "Use Server Ports"
- Host Domain Name:** SG-PC.specoddns.net (text field)
- Buttons:** "Internet Access", "Check Internet", "Info...", "Submit / Update"

The 'Email Settings' section contains the following fields and controls:

- Predefined Servers:** Manual (dropdown)
- Port:** 465 (spin box)
- Encryption:** SSL connection (dropdown)
- Server:** (text field)
- User Name:** (text field)
- Password:** (text field) with a "Show password" checkbox
- Advanced:** (checkbox)
- Max attachment:** 5 MB (spin box)
- From:** (text field)
- Buttons:** "Test", "Apply"

A text box on the right side of the 'Email Settings' section contains the following text: "This area will show the results of using the email test button. An icon will be shown to the left to indicate the status of the test. You can copy the contents of this area to help diagnose any problems."

Network Configuration

Though wireless interfaces may appear as options in the Client and Video Interface selection boxes, it is strongly advised to select a Local Area Network interface instead.

To check whether your installation has internet access, press *Check Internet*.

2.2.3.1 Ports

The following ports are required to connect to the installation locally and/or remotely.

Server Port – Covers the basic communication between the server and client

Video Port – Provides the video streams to the clients

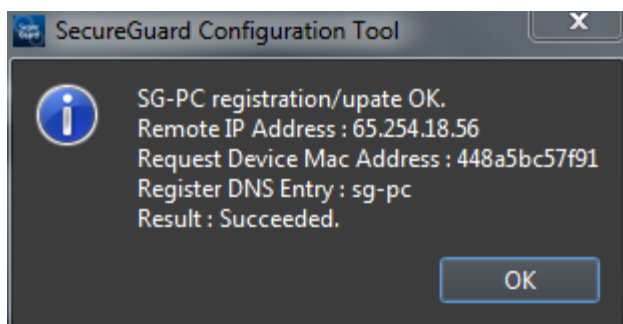
Mobile Port – Allows connections to the server from the following applications:

- SecureGuard CMS
- SecureGuard Client for iOS and Android
- SecureGuard Client for Apple TV and Amazon Fire TV

2.2.3.2 Speco DDNS

The Speco DDNS service is used to keep a domain name pointing to the same computer or server even though the IP address for it may change. To register your SecureGuard® server with the Speco DDNS service, click the *Enable Speco DDNS* checkbox on the network tab. Enter the desired hostname and (if necessary) the DDNS port to use. If the box next to *Use Server Ports* is checked, the values in the *Server*, *Video*, and *Mobile App* ports will be used. These values will only need to be updated if you are behind an internet gateway. Check with your network administrator if you are unsure.

Pressing the submit/update button will attempt to register your server using the name specified and the MAC address of the client interface selected above. Once enabled, the server will periodically update its information with the Speco DDNS server.



DDNS Registration

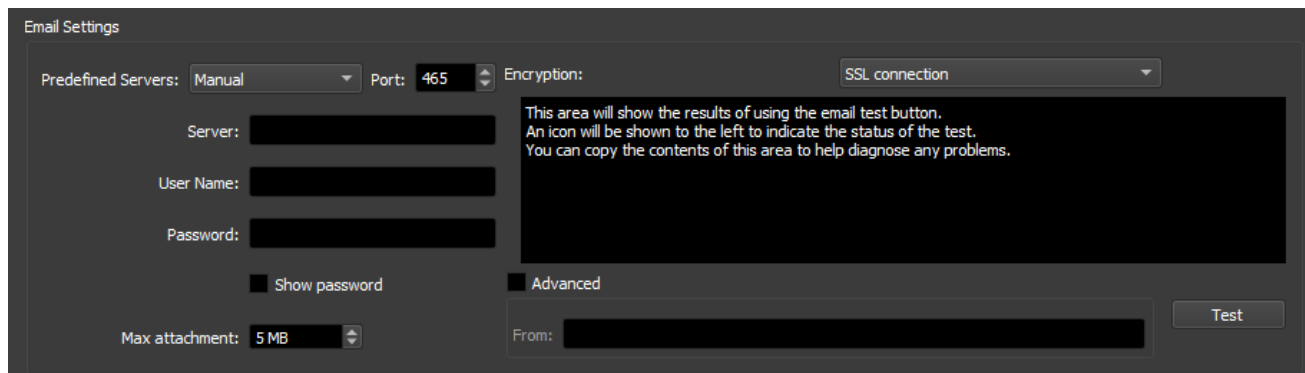
2.2.3.3 Email Settings

Configuration of email settings is also handled on the Network tab. Email must be configured to use the User Notifications feature of SecureGuard®. Select a predefined server, or choose Manual mode. The user name and password fields correspond to login information for the email server selected, and the mail account must additionally have SMTP enabled.

NOTE: Some e-mail services will require you to use a 3rd Party App Password. If you use the password used to log into your e-mail, it will be flagged as an invalid password. To obtain a 3rd Party App password, you will need to log into your E-mail via web browser and create one.

To provide a user name alias that will be seen in the "From" field by email recipients, use the *Advanced* checkbox. This alias must be registered with your email service provider for the server login id provided. Check with your email service provider for further details.

Use the *Test* button in the Email settings panel to verify email credentials and routing.



Email Settings

Predefined Servers: Manual Port: 465 Encryption: SSL connection

Server:

User Name:

Password:

☐ Show password

Max attachment: 5 MB

☐ Advanced

From:

Test

This area will show the results of using the email test button. An icon will be shown to the left to indicate the status of the test. You can copy the contents of this area to help diagnose any problems.

E-mail Server Settings

2.2.4 Site Configuration

A *site* refers to a DVR, NVR, IP camera, Access Control server, and Gunshot Detection server. Use the Sites dialog to configure connections to these devices.

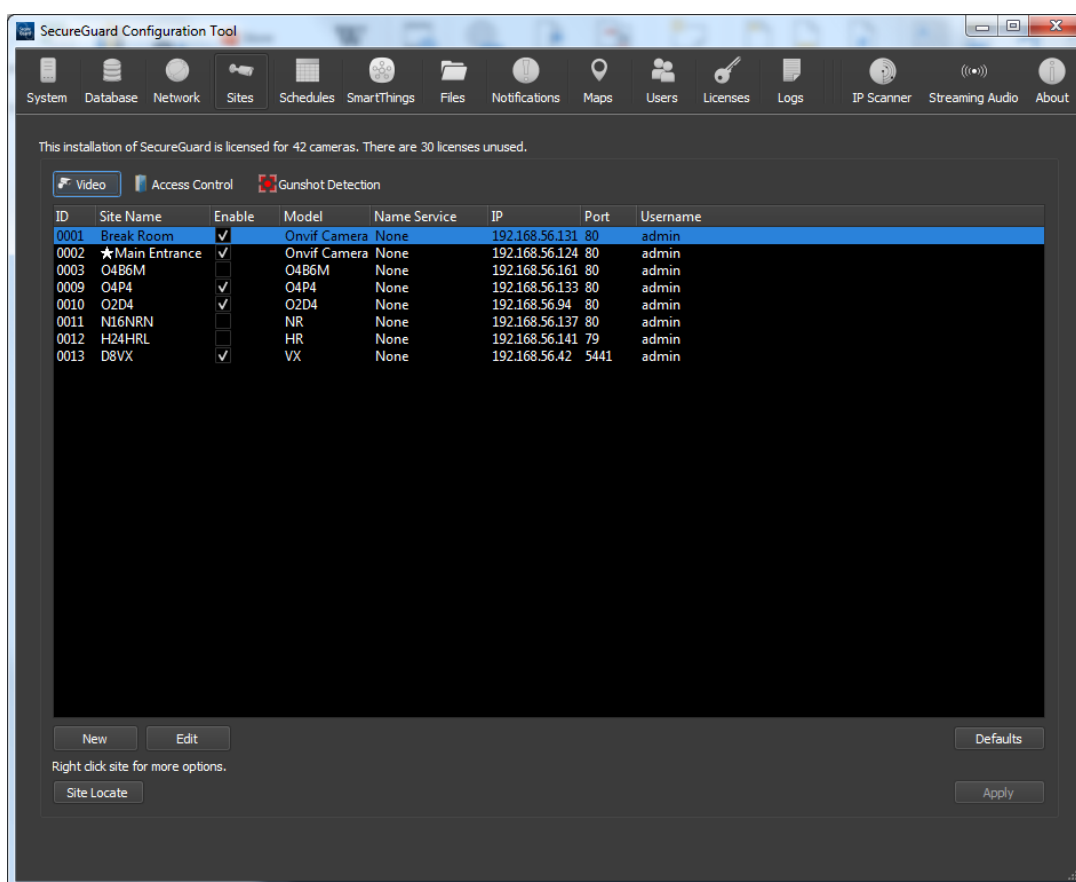
As of Version 2.8, any new installation of SecureGuard VMS comes with 32 channels. As you add and/or enable **video** sites, number of unused licenses decreases. Access Control and Gunshot Detections sites do not go towards this channel count.

All channels on a recorder will go towards the number of channels used.

For example: If you add a 16-Channel NRE to SecureGuard, you will use up 16 channels.

To free up channels, you can either delete a site or disable it by unchecking the boxes in the *Enable* column.

If more channels are required, please contact orders@specotech.com.

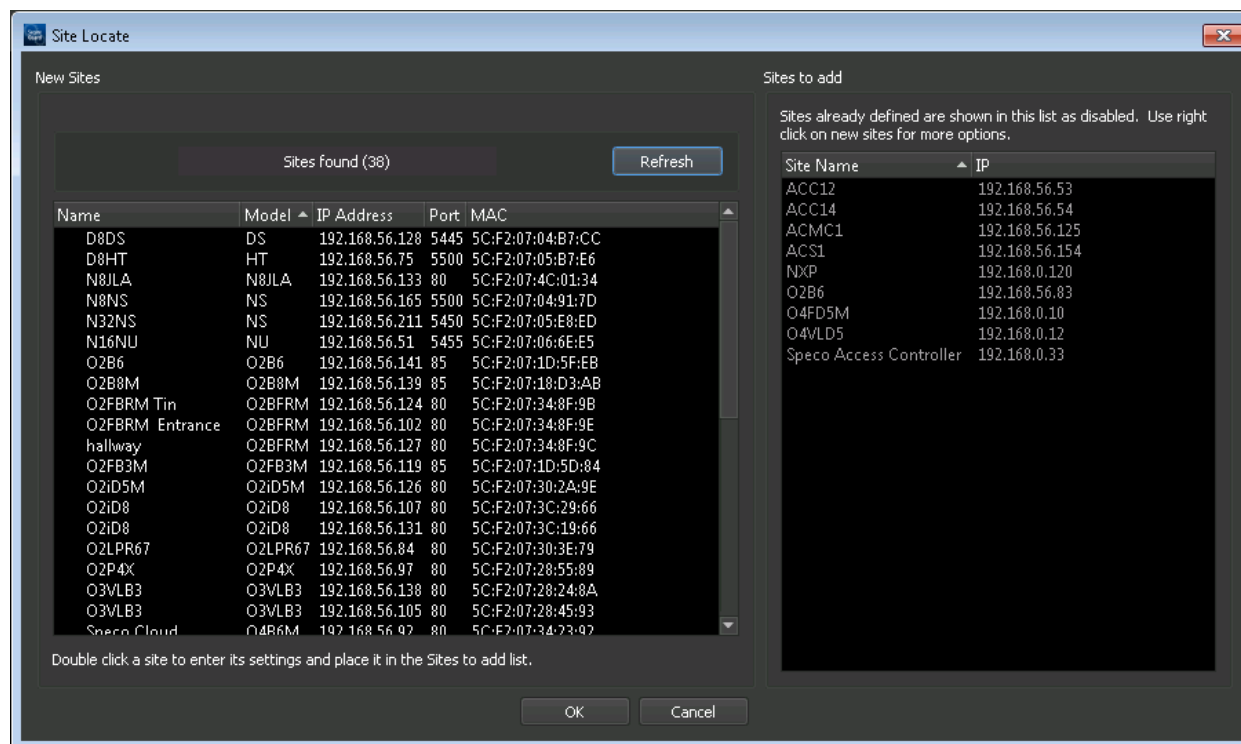


Sites Configuration

The following site operations are available:

2.2.4.1 Site Locate

An easy way to locate and add sites for devices on your local network is to use the *Site Locate* button. This function helps automate the creation of site objects for local devices. Pressing the button brings up a dialog as shown below.



Site Locate dialog

The function scans the local network for devices and displays information about these devices in table format. The information includes the name, IP address, port number, and the MAC address, which can be sorted.

The table at left shows existing sites found. To add any of these sites to the configuration, double click the entry. This opens the Site Settings dialog (below) with many of the required entries prefilled. Change the site name if desired, enter the user name and password and any other required information (see example below). Once the site is fully defined, click OK to add the device.

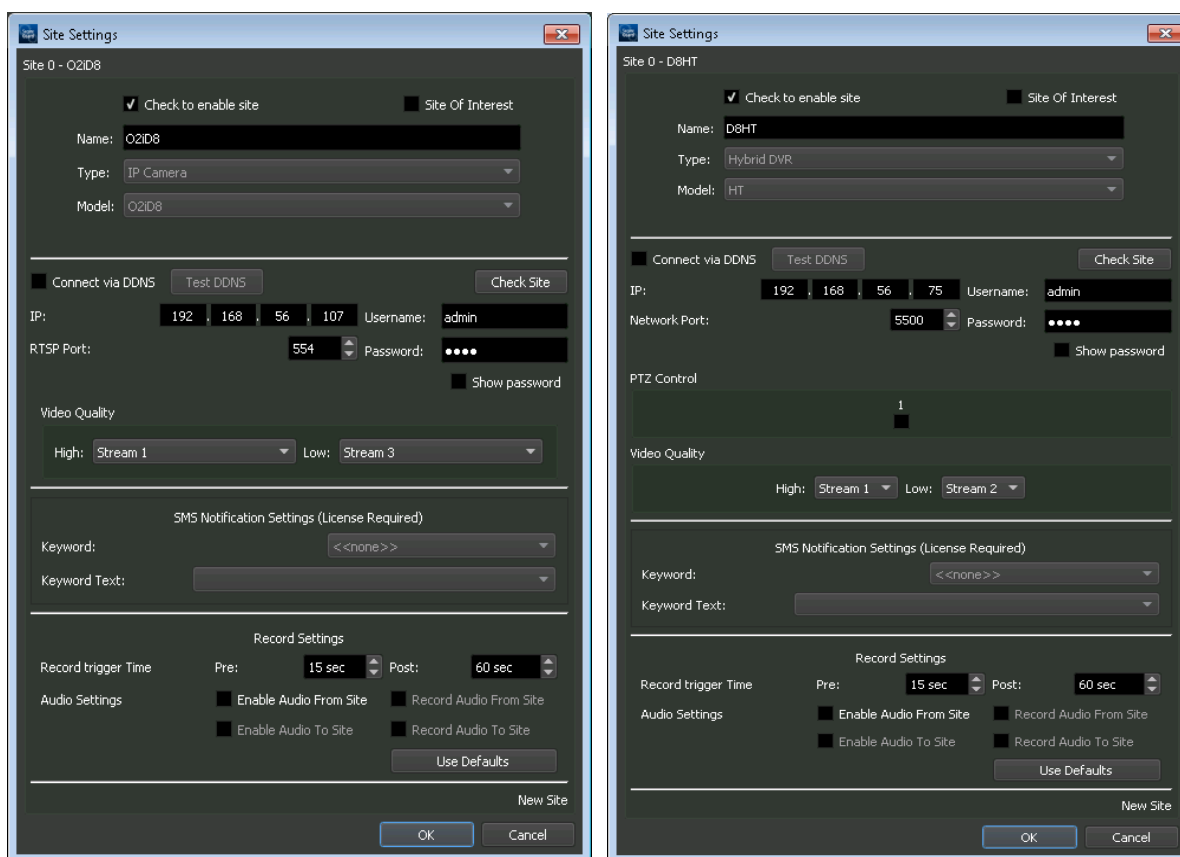
Note: if no devices are found, check that the Client and Video Interfaces selected on the Network tab are set to the local area network.

2.2.4.2 Site Settings

To add a new site or edit a site prefilled using Site Locate, do the following:

1. Click the New button (if needed) or double click the added site. This opens a Site Settings dialog. Examples of this are shown below.

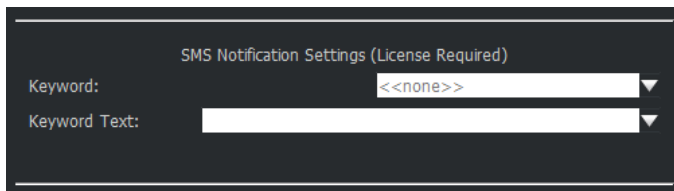
Note: Sites that are chosen to be edited cannot have their *Type* or *Model* changed.



Site Settings dialog

1. In the Site Settings dialog, enter a new name for the site if desired. All site names in the Sites list **must be unique**.
2. All sites are *enabled* by default, initiating communication with SecureGuard®. Deselect this checkbox to prevent SecureGuard® from using this site.
3. Sites may be designated as a *Site of Interest*. This action will prepend a special character to the site name everywhere it is used within the application, making special locations stand out among other sites being monitored.

4. Select the appropriate *Type* of device, if not prefilled.
5. Select the *Model* for the site, if not prefilled. If you do not see the correct model in the list shown, scroll up or down to see additional choices.
6. Enter the remaining site arguments. Note that the settings may vary for each *Model*.
7. When defining a site for a DVR, NVR, or Hybrid recorder, you **must manually specify** which cameras have PTZ capability. The Site Settings dialog has a number of checkboxes that can be checked to indicate which cameras are PTZ.
8. When defining a site with both high and low definition video, select the appropriate stream for each.
9. When a valid SMS Mass Notification license is installed, the following SMS Notification Settings section will show. SMS notification may be defined on a per site basis. Keyword and Keyword Text information will accompany license.



SMS Notification Settings

Record Trigger Time may be set to add a specified number of seconds to both the beginning and end of a system recording.

Audio Settings allow the configuration of audio input and output for a site. “Enabled” audio relates to hearing audio during live mode, while “Recorded” audio is associated with local recording. These are further specified as follows:

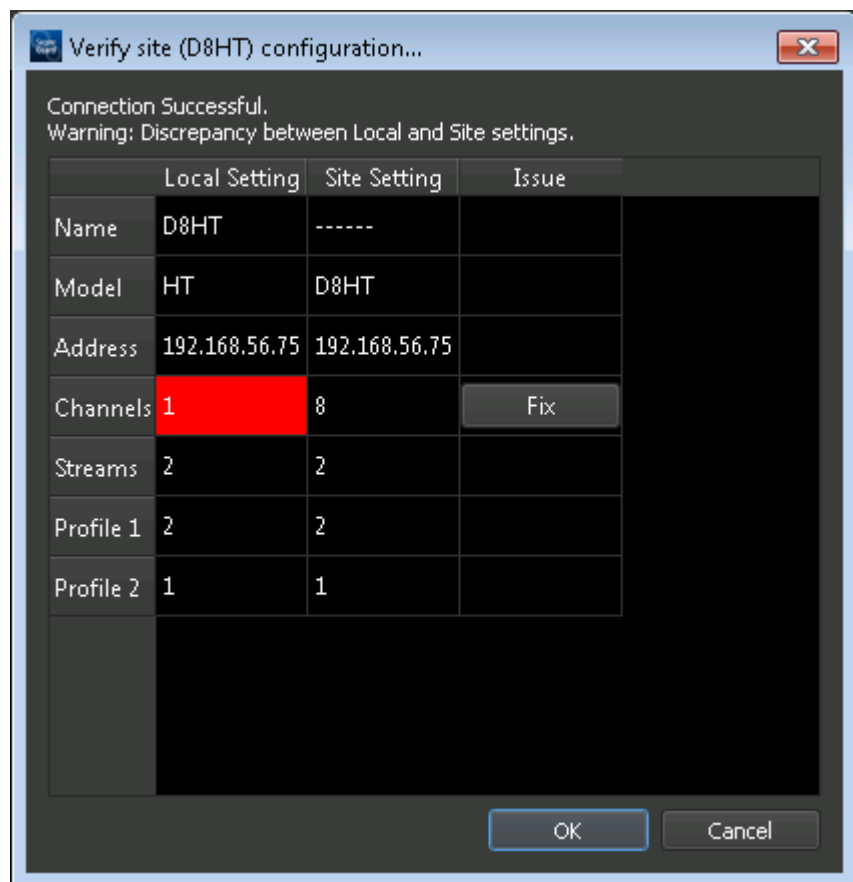
- **Audio from Site** (*audio input*): Cameras may process audio input concurrent with the video stream travelling into the camera. An example of audio input at a camera location might be input received from a microphone (mic). *Audio from Site* is also required for enabling *Audio To Site*. You may also record audio from the site, if desired.

WARNING: Please inquire with your state’s laws before enabling audio recording.

- **Audio To Site** (*audio output*): Audio may be broadcast from the SecureGuard® Client to a site, or streamed out to the site from the SecureGuard® Streaming Audio application. Both of these features are discussed later in the User Manual. (Note that streamed audio is never recorded.) Enable audio output and recording as appropriate for this device.

**** Note that use of audio input, audio output and recording of these feeds increases the bandwidth and processing requirements for the SecureGuard® system.**

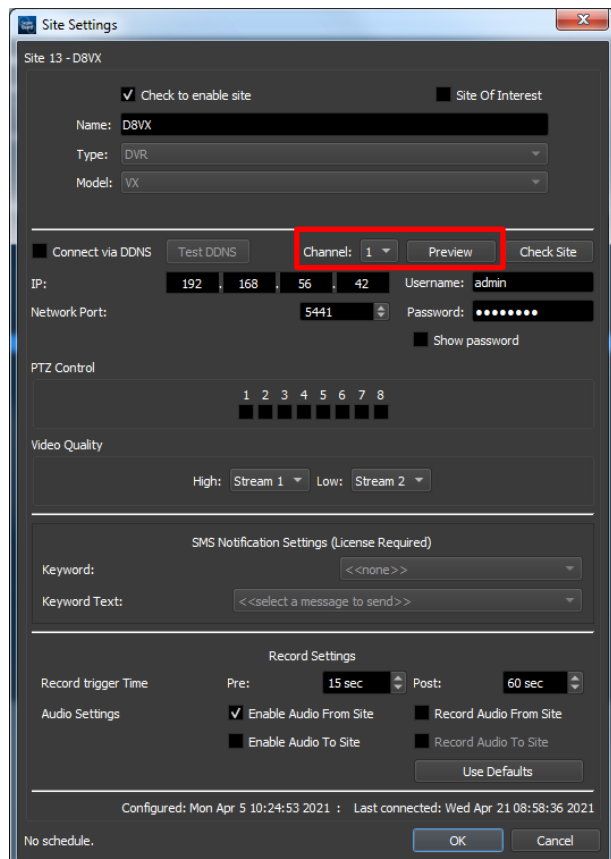
After creating or editing site data, **always** click the *Check Site* button to test the connection to the new site and view its settings. If differences are detected, use the **Fix** button to synchronize local settings with the actual device settings. It is especially important to have the correct number of channels configured for the device as the PTZ check boxes and site/channel access controls depend on this.



Check Site

Preview Video of Site Channel

You can preview video from a site once a successful Check Site has been performed. This includes a standalone IP camera and channels on a recorder site.



Site Settings Window With Video Preview Option

For recorders, click the dropdown next to 'Channel:' to select the channel you would like to preview. Click 'Preview' to view the channel's live video.



Channel Preview Window

In this window you are can confirm the following:

- Both High and Low stream video. This can assist you in giving a name to your site for accurate identification (Example: Front Door, Garage, Office Entrance, etc.).
- Resolution
- Date and Time of the incoming stream
- Frame Rate
- Channel Codec
- Audio

In this window, you can switch from channels using the channel dropdown. In order to do this, you will first need to press 'Stop'.

Adding a License Plate Camera for License Plate Recognition

To add an O2BLP1M to SecureGuard for License Plate recognition you will need to manually add it to your installation. Follow these steps:

1. Click 'New'
2. Give your site a name
3. Select the 'NVR' Type
4. Select the 'NR' Model
5. Confirm HTTP Port
6. Enter the correct login credentials for the IP camera.

The following additional functions are available by selecting a site in the Sites tab and clicking the right mouse button:

- *New* – Opens a Site Settings window for a new site.
- *Edit* - Update an existing site. Select a site from the sites list and press the Edit button, or double-click on the site to open the Site Settings dialog and make changes to the information.
Note: *Type* and *Model* cannot be changed when editing.
- *Delete* - A pop-up is displayed to confirm this action. Deleting a site should be a rare action.
- *Duplicate* – Within an environment, there may be multiple site entries for the same physical site with slight differences such as Username and password. This function creates a new site item with the same parameters as the original. *Edit* the site to modify any parameters.
- *Rename* – Enter a new name in the location provided. Sites may also be renamed using the *Edit* button.
- *Enable/Disable* – Determines whether the installation will connect or not connect to the site upon starting the service.
- *Configuration* – This action initiates an external connection to the remote site to update its configuration. The browser and subsequent controls vary depending on the site type selected. The Administrator will need to enter the appropriate login and password to connect to these site controls.

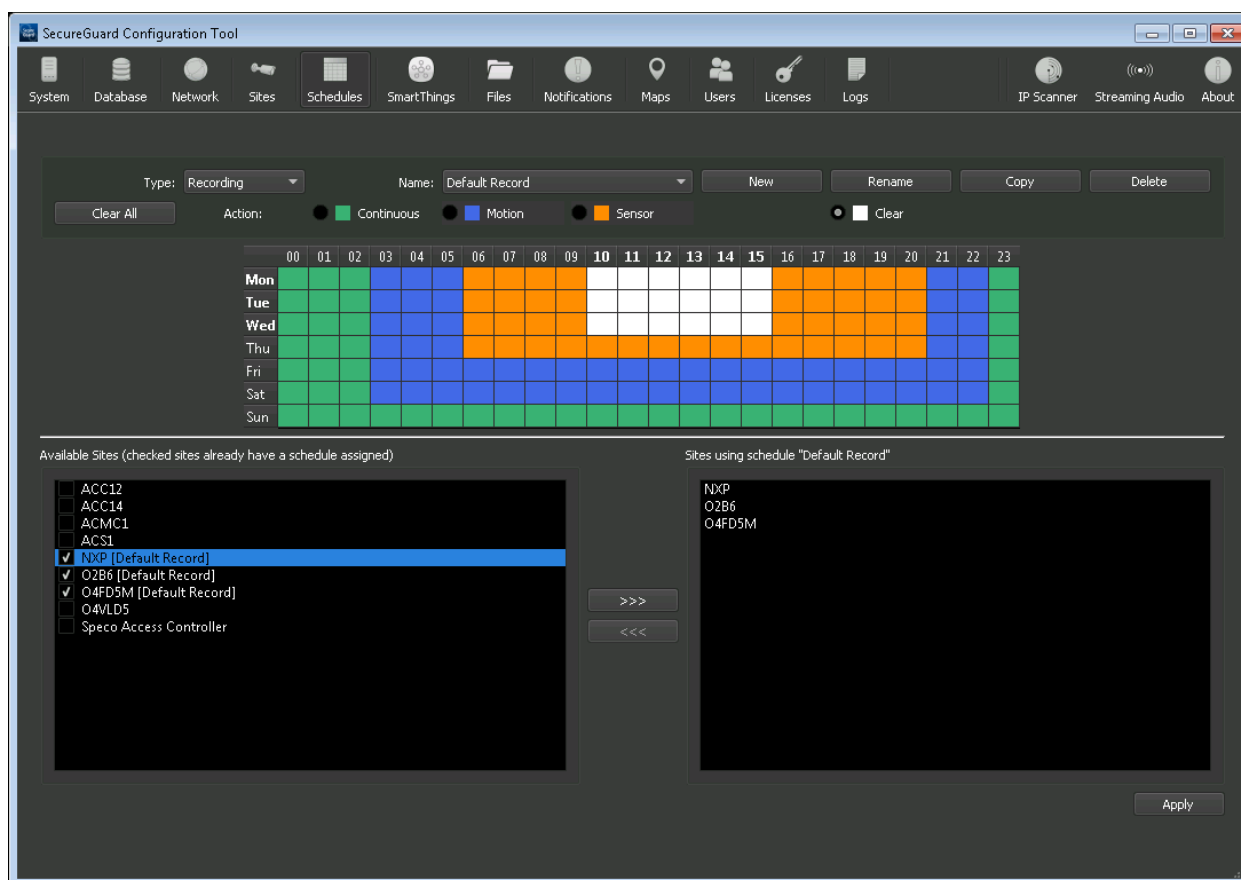
2.2.5.1 Recording Schedules

Sites can be set up for automatic recording using the Schedule tab. SecureGuard® provides the capability for Continuous local recording as well as Motion and Sensor recording if these capabilities are configured at the site. These actions are defined as follows:

- Continuous – uninterrupted recording on an hour by hour basis
- Motion – motion-triggered event detected and reported by the site
- Sensor – sensor-triggered event detected and reported by the site*

***You can add Access Control sites whose doors are linked to cameras to record Access Granted and Access Denied events.**

An example of a Recording Schedule is shown below.



Schedule Configuration

At the bottom-left of the window is a list of all sites configured in the system. The bottom-right shows the sites associated with the Recording Schedule selected. Sites may only be used in one Recording Schedule at a time. Those in use for the selected schedule are shown with a checked box and/or the name of the Schedule it is associated with in parenthesis.

Colors are used to represent 1-hour blocks of time when different recording types will take place. First select the recording *Action* type then use the mouse to paint the grid in the appropriate time block(s). Use *Clear* to remove recording Actions in individual time blocks, or the *Clear All* button to clear the entire time grid.

2.2.5.2 *Schedule Controls*

The following Schedule operations are available:

1. *Creation and Maintenance* –To select an *Available Site* for use in this schedule, click the ">>>" button. To remove a site from the schedule, use the "<<<" button.
2. *New* – To create a new schedule, select the *New* button and enter a new schedule name. A blank grid will be provided.
3. *Rename* – To rename a schedule, select the *Rename* button and enter a new name for the Schedule shown.
4. *Copy* –To copy the schedule shown, select the *Copy* button and update the name for the new Schedule.
5. *Delete* – To remove a Schedule and deallocate all Sites associates with it, use the *Delete* button.

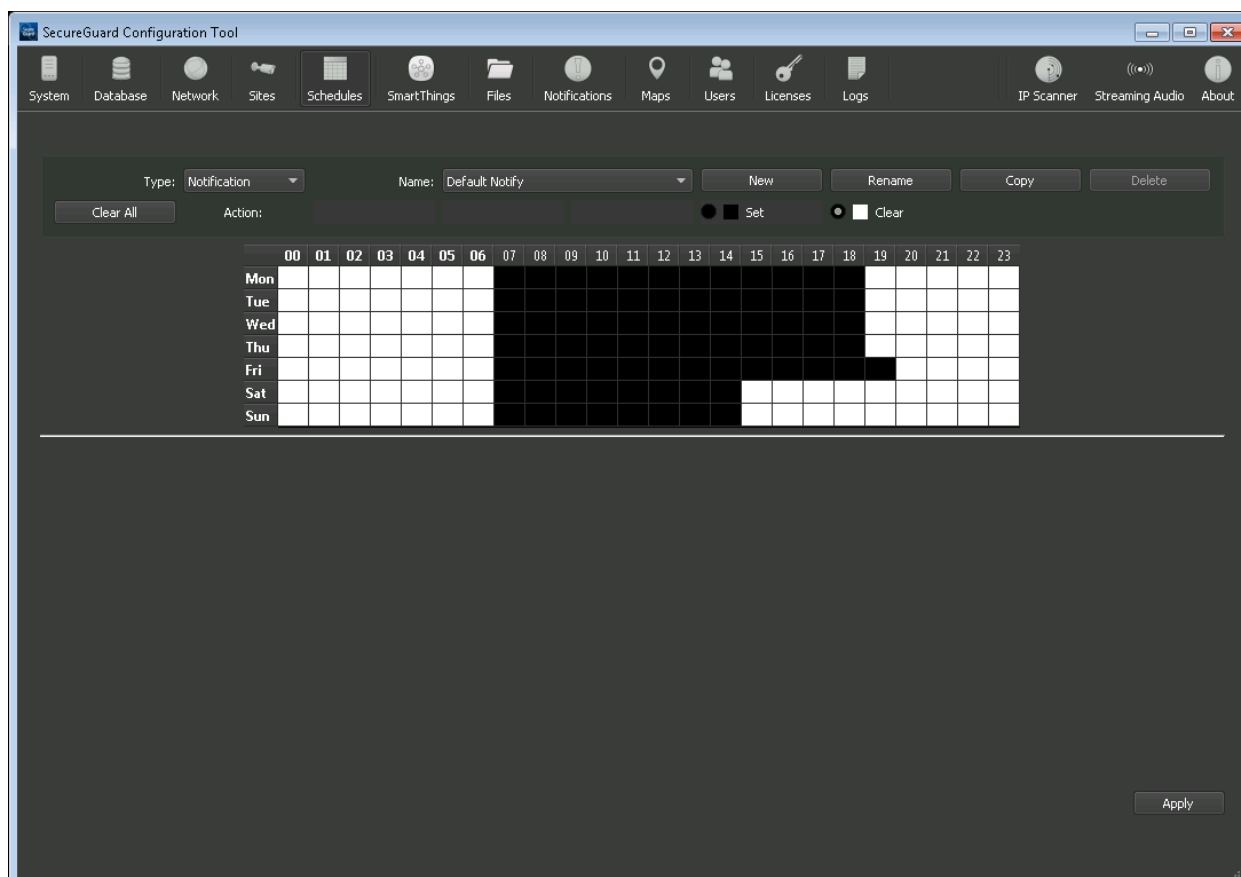
2.2.5.3 Notification Schedules

Recording events occurring within SecureGuard® can be configured to trigger an email to a list of users. Similar to Recording Schedules, these notifications are associated with hourly blocks.

Use the *Type* dropdown view your Notification Schedules.

Control features shown are similar to those used for Recording Schedules. The color black is used to represent 1-hour blocks of time when notifications will take place. Use the mouse to paint the grid in the appropriate time block(s). Use *Clear* to remove notifications for individual time blocks, or the *Clear All* button to clear the entire time grid.

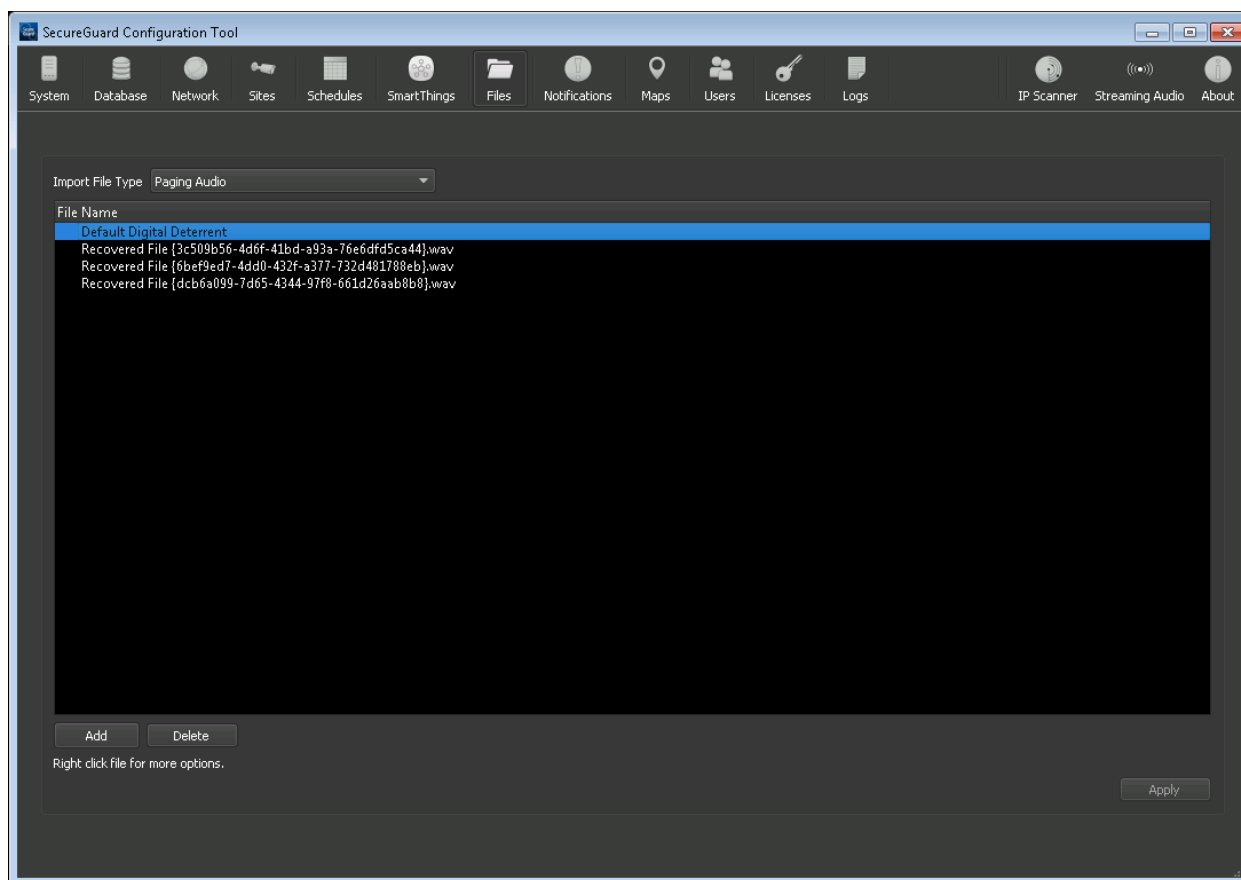
An example of a Notification schedule is shown below.



Notification Schedule

2.2.6 Files

Pre-recorded audio files can be imported into SecureGuard® to be sent to one or multiple sites configured to retrieve audio. A default audio file called "Default Digital Deterrent" is included in the installer to announce that the site is under surveillance.



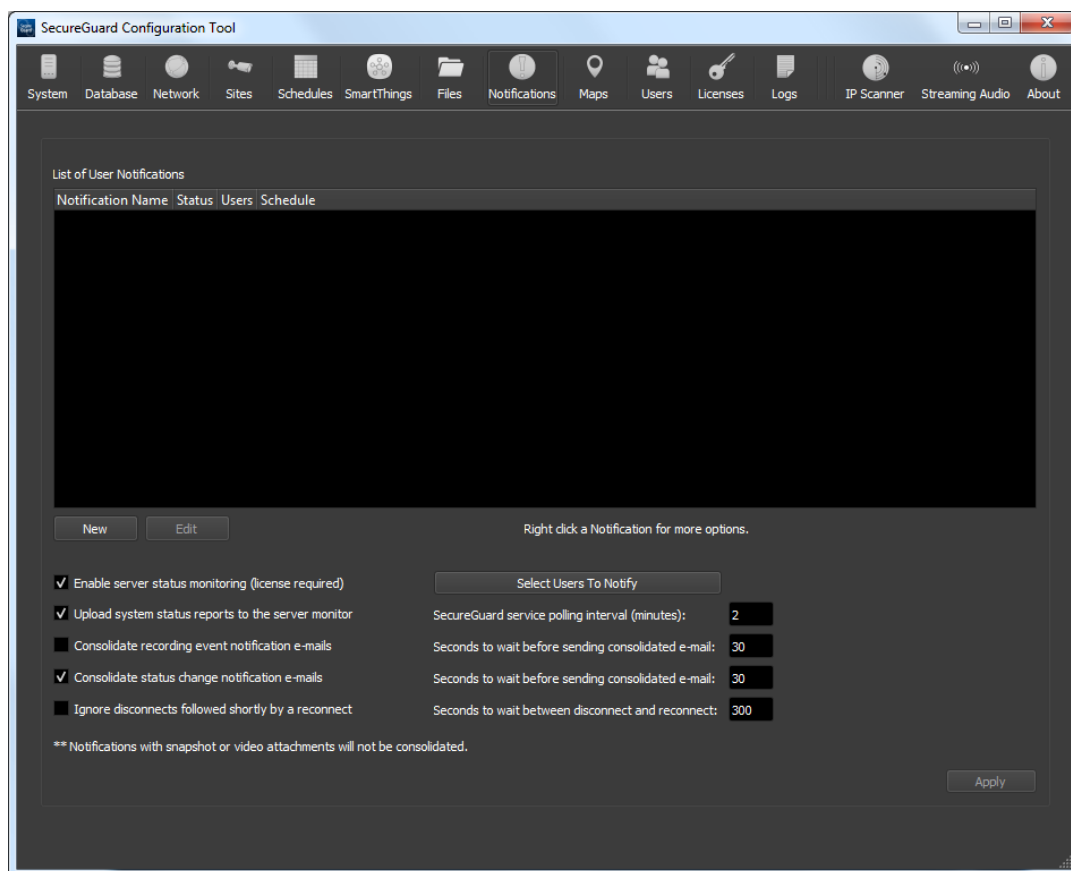
File Import

To add other pre-recorded audio files to the database, click the *Add* button and follow the prompts to add an audio file. Files must be of type ".wav" or ".mp3". To update the name of a file shown in the list, right-click the file name and left-click *Edit Name*. To delete a notification file, choose the file and either click *Delete* or right-click the file and click *Delete* in the context menu.

2.2.7 User Notifications

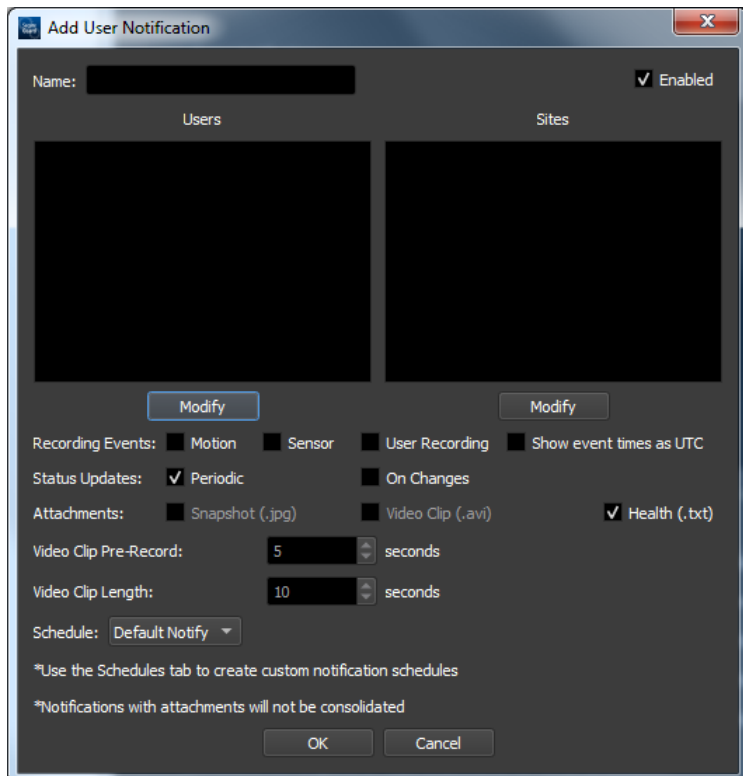
SecureGuard® can be configured to send notifications to a list of users for the following:

- Recording Events
- Status Updates
- Connection/Disconnection Events
- Server Monitoring (Licensed)



User Notifications

Click the New button to specify the recipients, affected sites and recording event(s).



Update User Notification

To add users or sites, click *Modify*. Only users configured with a valid email address may be added to a User Notification. See the *Users* tab of the Configuration Application (below) to update contact information if necessary.

Below are the available notification options:

- Recording events Motion, Sensor, and User Recording will send a notification when they're triggered.
- "Periodic" notifications are sent on an hourly basis and include site name, connection status, connection uptime, storage type, storage size, and storage available. **Available information may vary by model.**
- "On Changes" notifications are sent when a listed site connects or disconnects.

You may have multiple recording events selected for one notification setup. The "Periodic" and "On Change" notifications must have their own notification setups.

Select whether to include an attachment to the email notification.

- Snapshots and video clips can only be attached to Recording Event notifications.
- A Health Report .txt file can only be attached to "Periodic" or "On Change" notifications.

Select whether you want the event times to be presented in UTC by toggling the checkbox.

Select which Notification schedule is applicable when notifications are sent.

2.2.7.1 *Enable server status monitoring (license required)*

NOTE: An internet connection is required for this feature to work.

When enabled, the SecureGuard® installation will be monitored by dedicated Speco server. In the event the SecureGuard® service is stopped or the Speco server cannot reach the installation, an e-mail notification will be sent out to users selected by the administrator. Users **must** have e-mails in order to receive notifications.

When the server is started or the Speco server confirms the connection, an e-mail notification will be sent out as well.

Press *Select Users To Notify* to select the users to receive these notifications.

You can upload the installation's Health Report to the server by checking the box next to *Upload system status reports to the server monitor*. This report will be attached to notifications that are sent to the selected users.

Enter the minutes between each 'heartbeat' reported to the Speco server by entering the number.

2.2.7.2 *Consolidate recording event notification e-mails*

When checked to enable, all recording events that occur within the user-specified number of seconds will be merged and sent in one e-mail. The user-specified number of seconds is defined in the corresponding field: "Seconds to wait before sending consolidated e-mail".

2.2.7.3 *Consolidate status change notification e-mails*

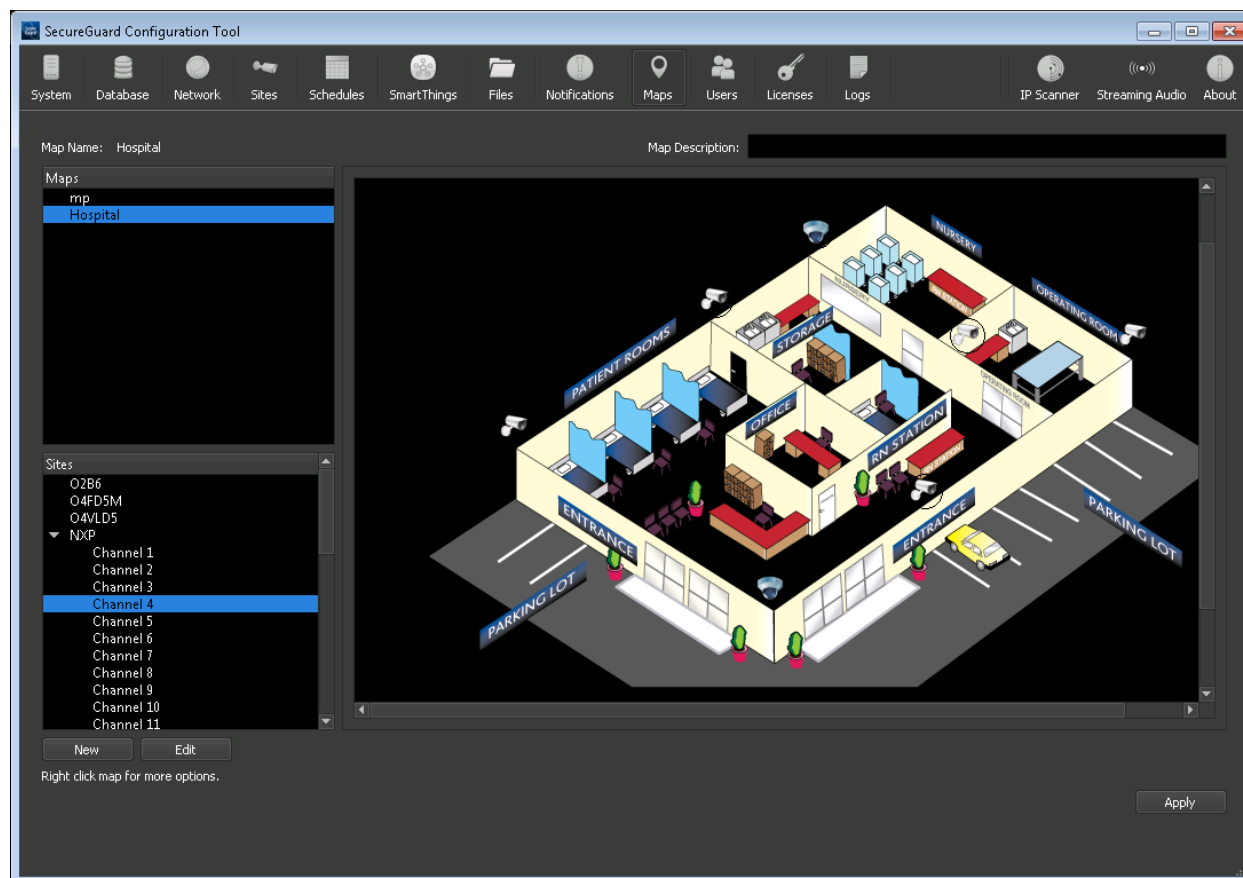
When checked to enable, all on-change events that occur within the user-specified number of seconds will be merged and sent in one e-mail. The user-specified number of seconds is defined in the corresponding field, "Seconds to wait before sending consolidated e-mail".

2.2.7.4 *Ignore disconnects followed shortly by a reconnect*

When checked to enable, this option reduces email notifications of momentary disconnects due to brief network outages. Use this option only if you know your site is prone to periodic network outages.

2.2.8 E-maps Configuration

E-maps allows a graphical visualization of camera installations of the customer site. Images of maps, floor plans and custom layouts can be added to SecureGuard and site icons may be accurately placed on top of the image at the approximate location of where the camera is installed. The images, camera icons, and access control doors can then be viewed from within the SecureGuard® Client software.



E-maps Configuration

Click the *New* button to import an image to be used as the background. The image must be of .jpeg or .png format. Optionally, provide additional details about the image in the Map Description field. Repeat to add additional images.

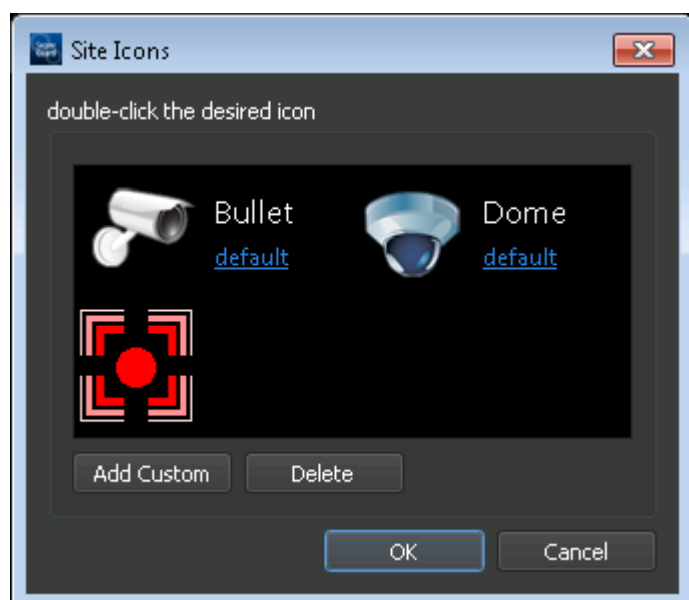
To place sites onto the image, select a site from the Sites list. Press and hold down the right mouse button to drag a site or door onto the appropriate area within the image. A camera

or door icon will appear on the image where the mouse button is depressed. Only one placement is allowed per site per image. It is ok to place a site onto multiple images.

Click the *Apply* button when done.

2.2.8.1 Custom Site Icons

On the map, move mouse over an icon and click the right mouse button. Select "Change Icon" from the pop-up menu to bring up the Site Icons dialog box.



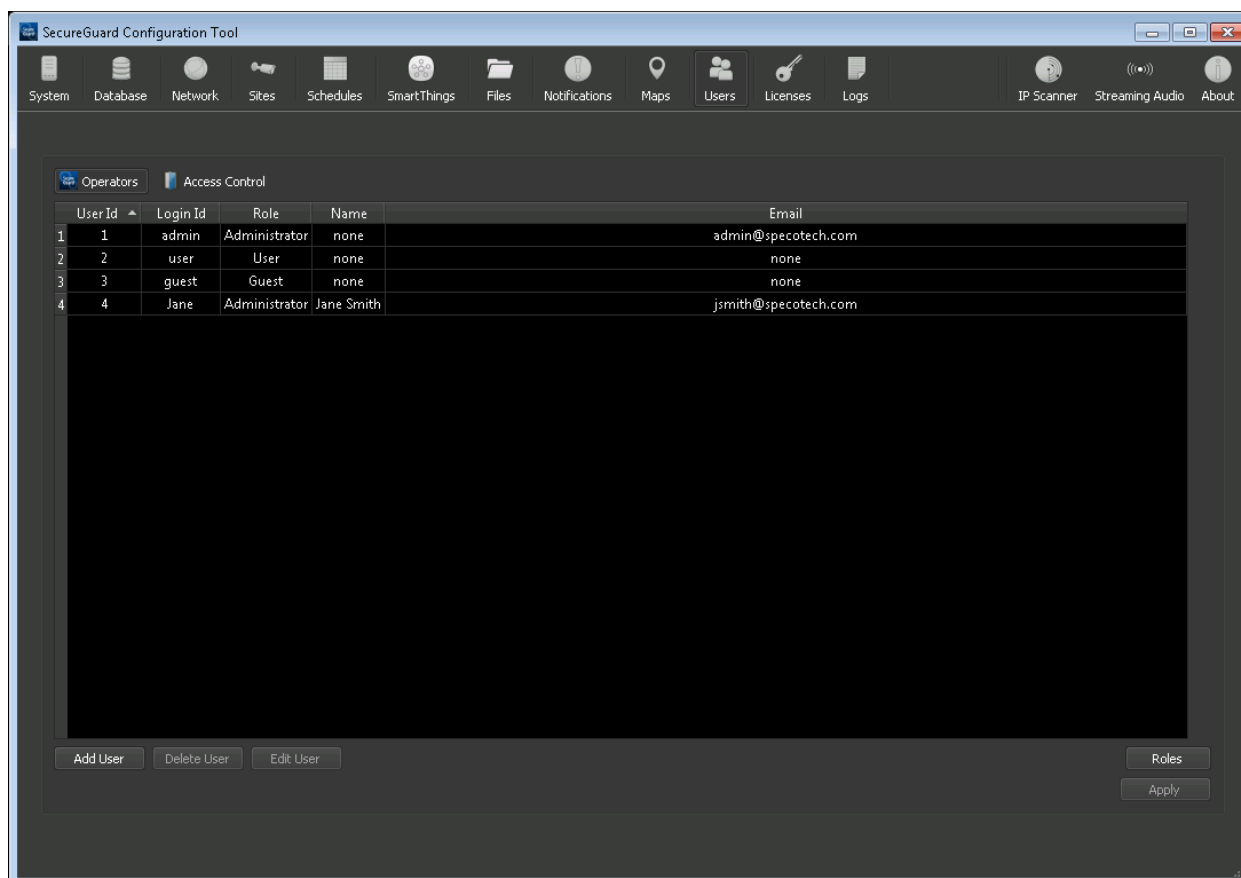
Site Icons

Double click on an icon to select it for use on the map.

- Add Custom: Add a new icon to the list of selectable icons. The newly added icon will appear in this dialog box and is available for future uses.
- Delete: Delete the selected icon.

2.2.9 User Configuration

The list of SecureGuard® users and their permissions in the system is maintained on the *Users* tab of the Configuration Application. Three Login Ids are predefined: admin, user and guest.

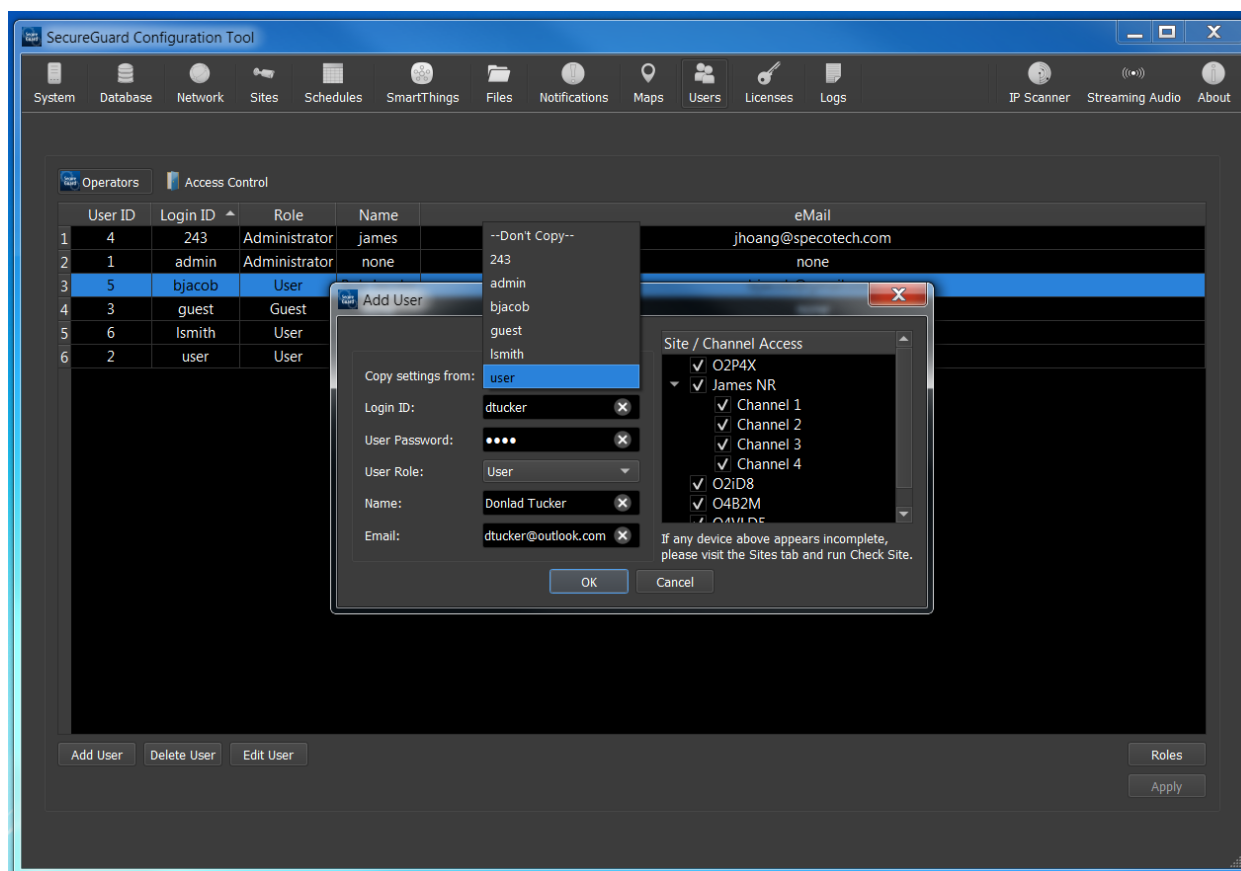


User Configuration

- User Id – This field is assigned by the system and is unique and unchangeable for each user.
- Login Id – This is the login ID used to access the system.
- Role – Provides a summary of permissions available
- Name – Gives a detailed name for the person. A name must be entered in this field.
- Email – E-mail information. This information must be entered if the user is going to be receiving e-mail notifications.

2.2.9.1 Adding a new user

To add a user to the SecureGuard® system, use the *Add User* button. This will open a dialog as shown below. Enter information in the fields provided then click *OK*.



Add User

When a "Copy settings from" user is selected, all of that user's settings will be duplicated for the new user including:

- Role (but you can then change it)
- Channel restrictions
- Groups
- Layouts
- Last viewed layout
- Tabs
- Sequences
- PTZ tours
- Preferences (image annotations, pop-up/full-screen on event, etc.)

Unique identifying information for the user is provided in the left pane of the dialog. Enter a

valid email address if this user will be included for User Notifications.

The main Administrator, admin, has full access to all sites in the SecureGuard® installation. User access may also be restricted according to system needs. By default, all sites and channels are also available to all users (shown above as checked). To remove the ability to view certain channels or sites, deselect (uncheck) a channel or a complete site in the *Site/Channel Access* tree; Restricted sites/channels will be hidden from the user's login id and will not be accessible anywhere in the Client application.

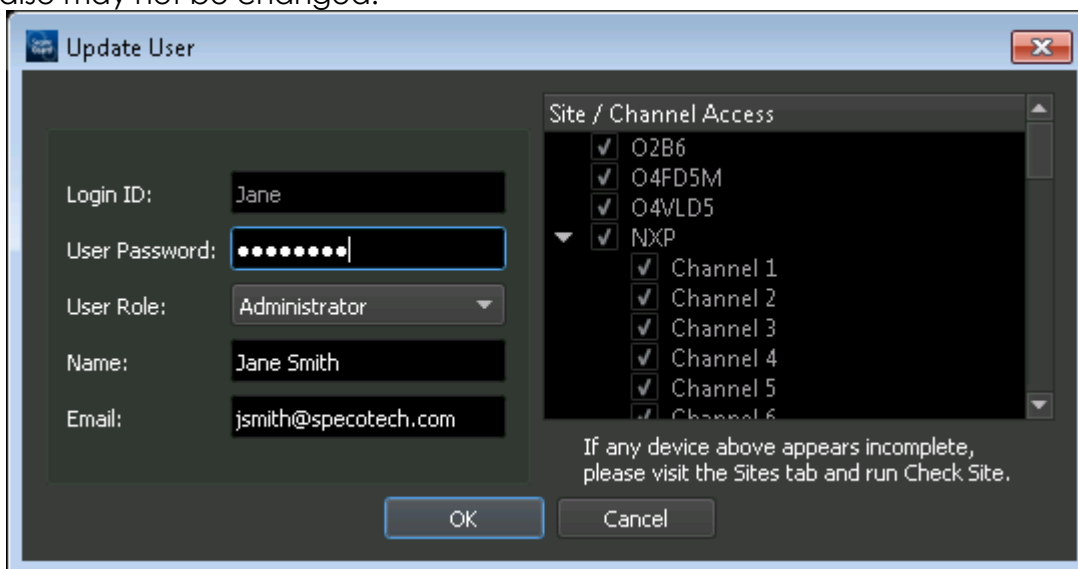
If a DVR/NVR did not have a *Check Site* performed, only 1 channel may be shown in the site tree when more are expected.

2.2.9.2 Deleting an existing user

To delete an existing user, click on the appropriate row of the table and select the *Delete* button. You will be asked to verify the action before it is completed. The **admin** user cannot be deleted.

2.2.9.3 Updating Information for an Existing User

To modify an existing user, double-click a row of the Users table shown. This will open the Update User dialog as shown below. This dialog can be used to change the password, role, name, or email for the user. The Login ID cannot be changed. The Role of the 'admin' login also may not be changed.



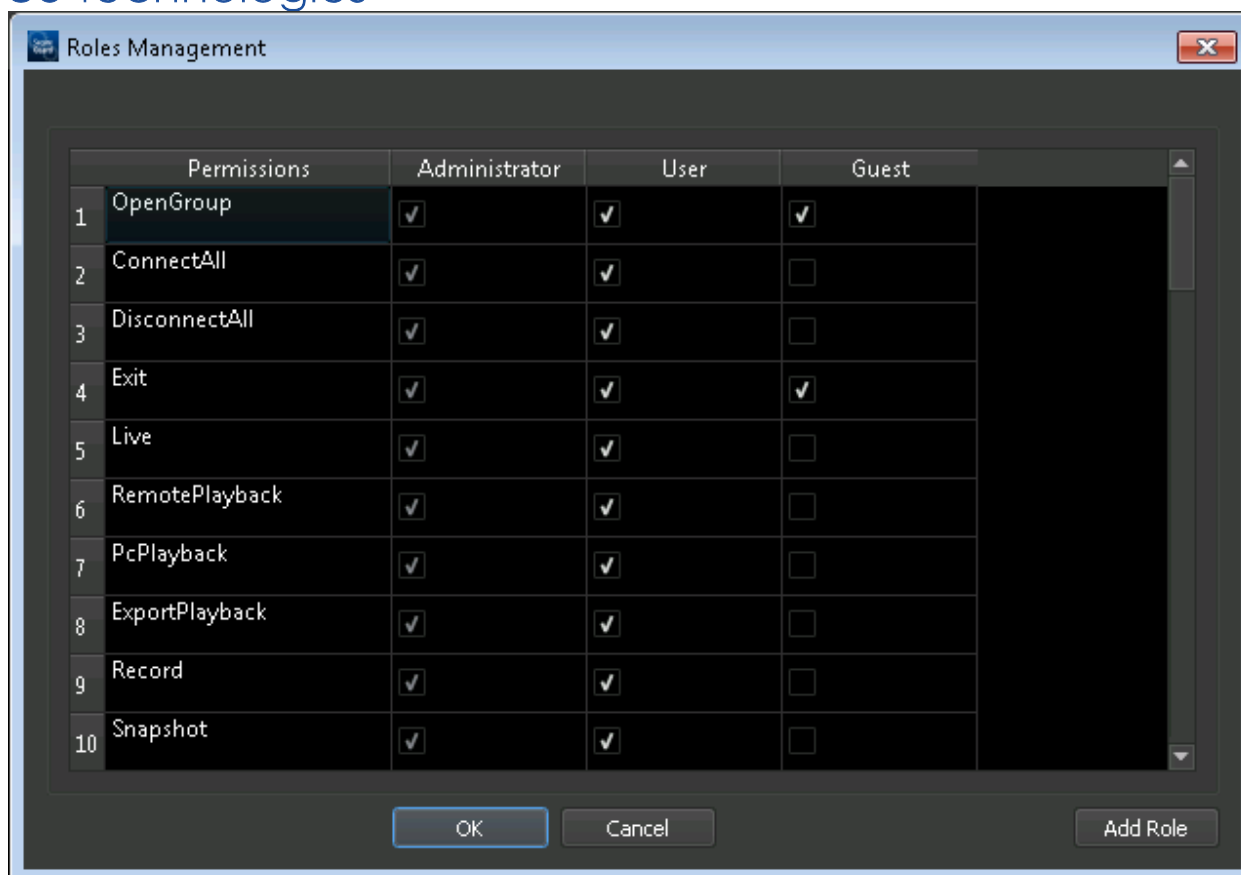
The **Update User** dialog box contains the following fields and controls:

- Login ID:** Jane
- User Password:** [masked with dots]
- User Role:** Administrator (dropdown menu)
- Name:** Jane Smith
- Email:** jsmith@specotech.com
- Site / Channel Access:** A tree view showing the following items with checked boxes:
 - O2B6
 - O4FD5M
 - O4VLD5
 - NXP
 - Channel 1
 - Channel 2
 - Channel 3
 - Channel 4
 - Channel 5
 - Channel 6
- Message:** If any device above appears incomplete, please visit the Sites tab and run Check Site.
- Buttons:** OK, Cancel

Update User

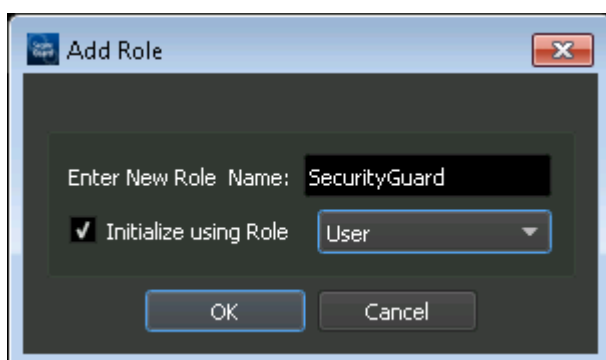
2.2.9.4 Roles Management

To manage the user permissions in the system, click the *Roles* button on the Users tab. This opens the Roles Management dialog as shown below. This presents a list of available permissions, and how each one is set per user role.



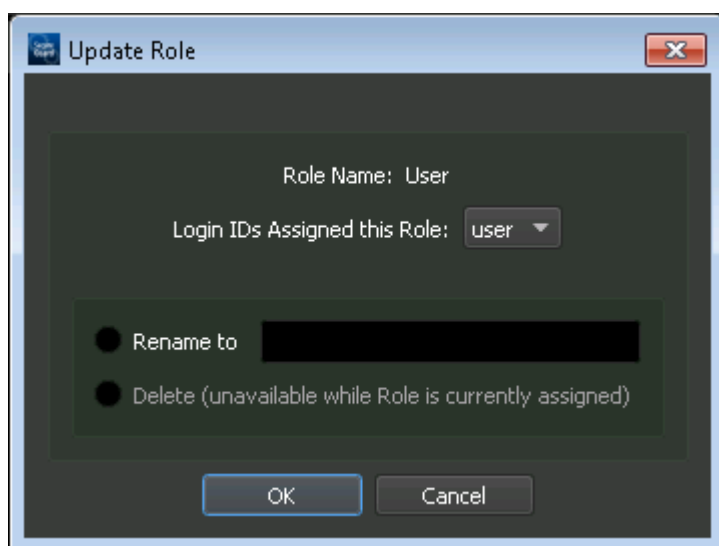
User Role Management

To define a new role, click the *Add Role* button. This opens the Add Role dialog shown below. Specify a Name for the new role. In addition, you can select an existing role to be used to initialize the new role information. This essentially allows you copy an existing role and modify only a few permissions rather than all of them.



Add Role

To update or delete an existing Role, double-click the title of a role column. This opens an Update Role dialog as shown below. Use the options provided to rename or delete the role. Only Roles that are not assigned to any user can be deleted. You will be asked to verify the action before it is completed.



Update Role

By default, only Administrators have permission to use the two-way audio and streaming features of SecureGuard®. Enable other users for these features as needed.

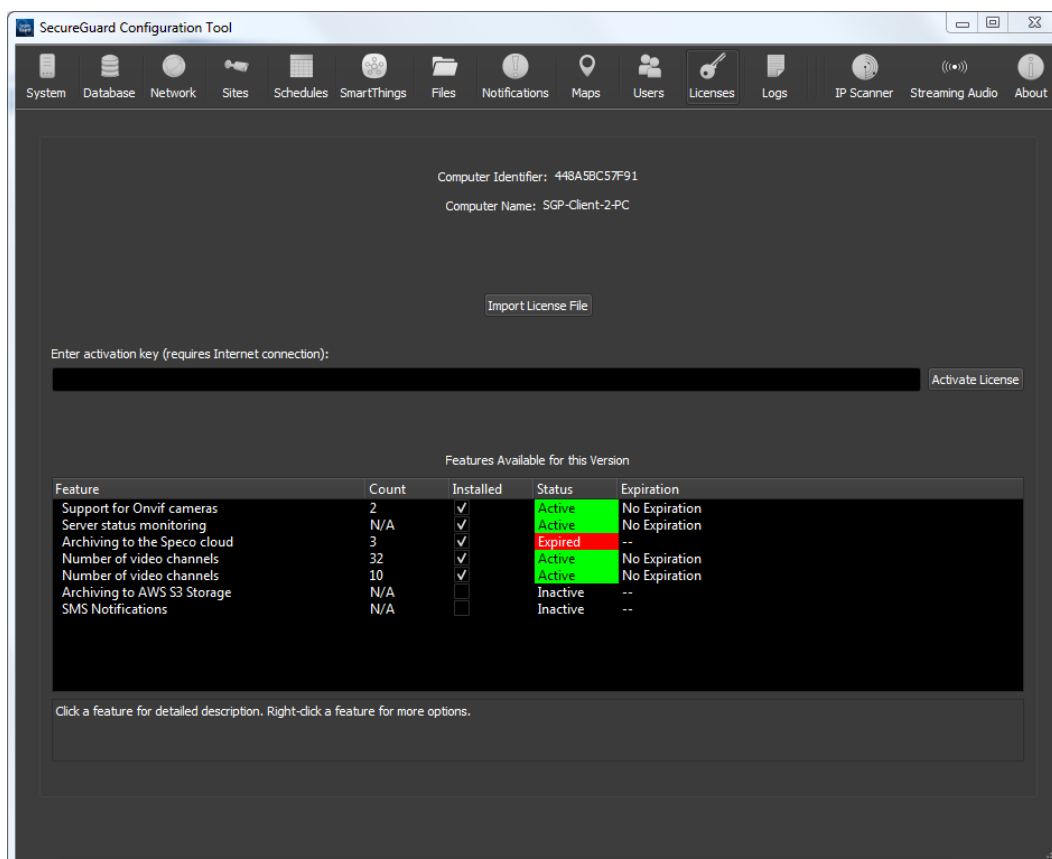
2.2.10 License

Licenses can be activated by either entering an Activation Key or Importing a license file. An internet connection is required for the Activation Key. Simply copy and paste the Activation Key in the box under *Enter activation key (requires Internet connection)*: and press *Activate License*.

Importing a License File will require the Computer Identifier and Computer Name to be sent to Speco so that the file will be dedicated to the installation.

Contact orders@specotech.com for more information on Licenses

If successful, the details of the license will be displayed in the list below showing the count (if applicable), whether the license has been installed, whether it is active or inactive and the date the license will expire and the feature can no longer be used.



Import License

Below are the licensed features that SecureGuard offers:

Support for Onvif cameras – Add non-Speco cameras that support ONVIF profile S or T. Every Onvif license covers 1 Onvif site and is a one-time activation.

Server status monitoring – A dedicated server at Speco HQ will monitor the status of your installation. In the event the SecureGuard installation is stopped, started, or the machine goes off line because of a power outage or disconnected network cable, an e-mail notification will be sent to select users. This is a monthly subscription and requires an internet connection.

Archiving to the Speco Cloud – Archive recordings of crucial channels to Speco's secure cloud server. This is a monthly subscription and requires an internet connection.

Number of video channels – Determines the number of channels designated for your installation. Speco's SecureGuard Servers will be licensed for the number of channels quoted. To qualify for more channels, Speco must inspect a Health Report from the installation. Each channel license comes in blocks of 32 and is a one-time activation.

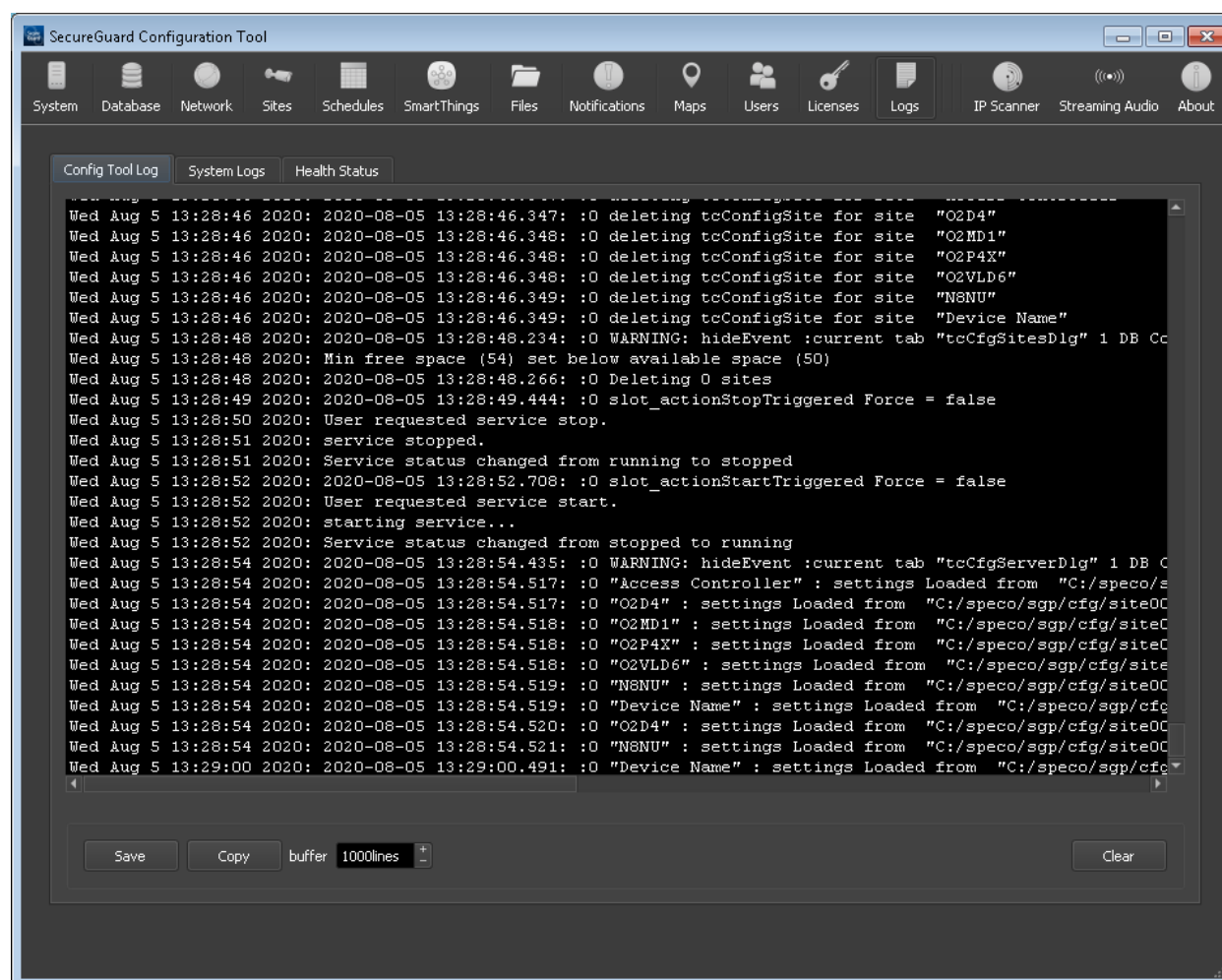
Archiving to AWS S3 Storage – Allows you to archive your recordings to your own AWS server. This is a one-time activation and requires an internet connection.

2.2.11 Logs

Log files provides the end-user and Speco tech support a way to review activities within SecureGuard®. It is useful for troubleshooting when issues arises.

2.2.11.1 Config Tool Log

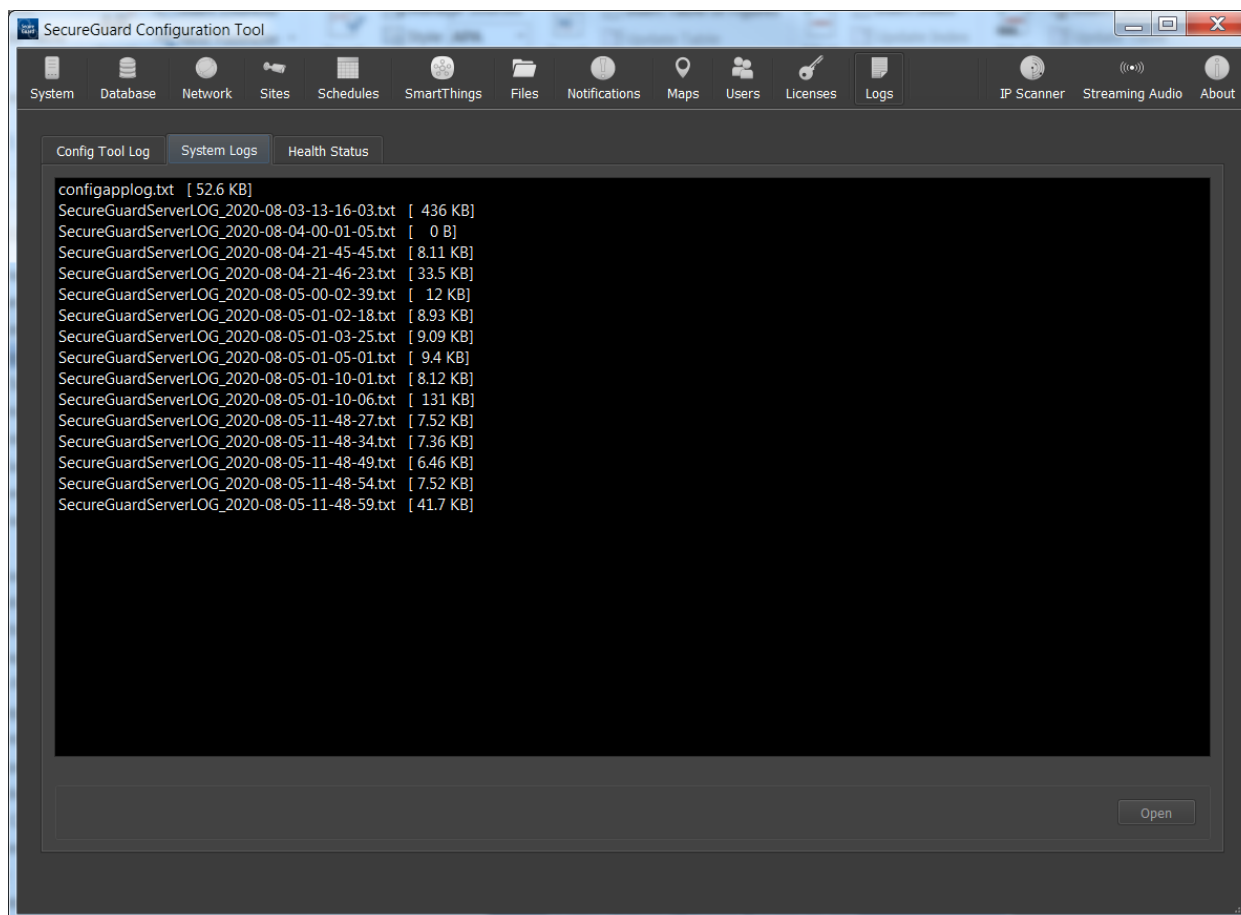
A Config Tool Log is kept to record high-level activities that affect the SecureGuard® configuration or the settings on a particular IP camera, DVR, or NVR. The log can be viewed to review recent activity.



Config Tool Log

2.2.11.2 System Logs

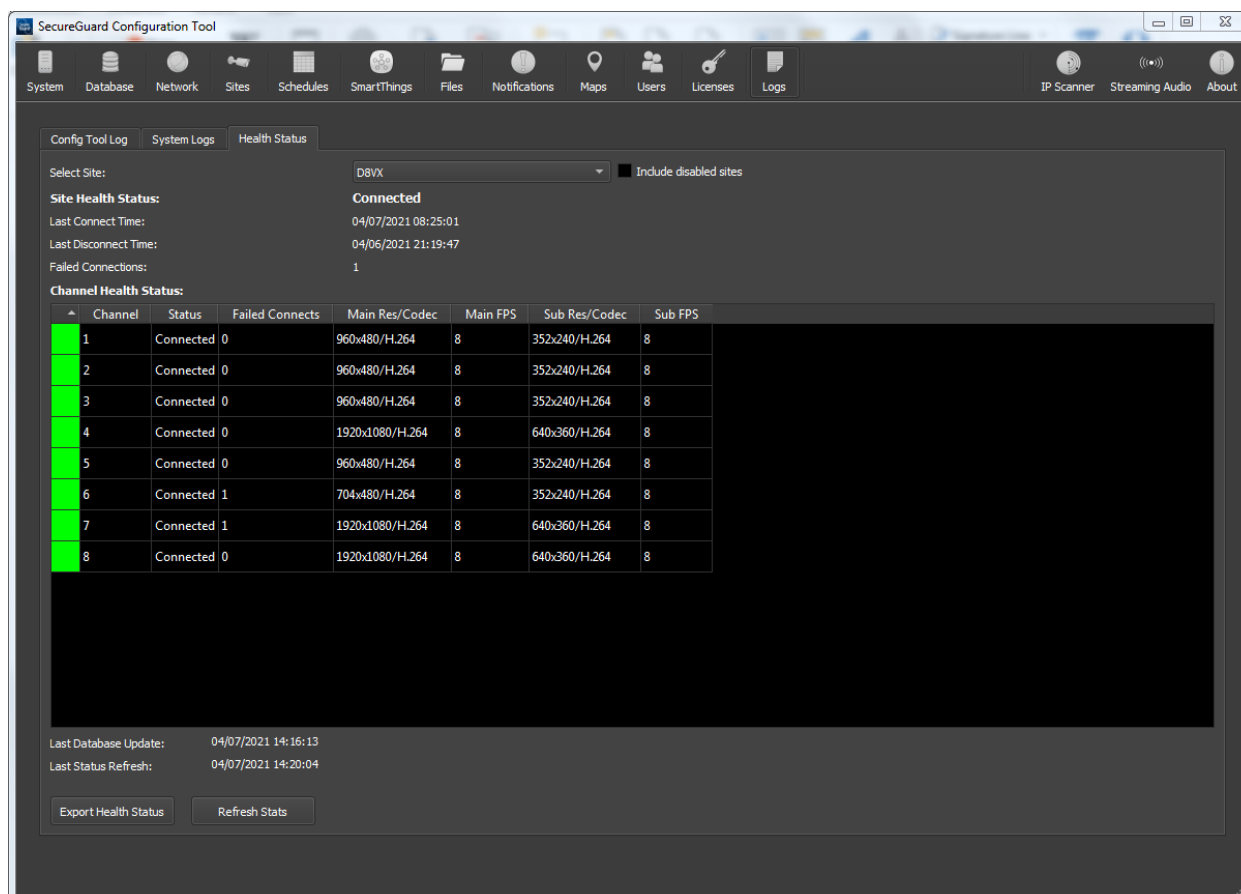
Logs provided under the "System Logs" tab are intended to assist Speco Tech support with diagnostics. They can be viewed by clicking one of the time-stamped files and the Open button.



System Activity Log

2.2.11.3 Health Status

Retrieve up-to-date status of every site in the system from cameras to recorders (DVR/NVR). When viewing recorders, statuses are expanded to every channel on the recorder aiding in the troubleshooting of individual channels.



Health Status

- Select Site Dropdown – List of site to select from for status information.
- Include Disabled Sites checkbox – Include sites that are disabled in the Select Site dropdown.
- Site Health Status – Overall status of the site: Connected, Disconnected, Disabled, Server Needs Restart, Server Not Running.
 - Note: Server Needs Restart will only appear on the first run of SecureGuard®.
 - Note: Server Not Running indicates that the SecureGuard® service has stopped.
- Last Connect Time – The last successful connection to the site.
- Last Disconnect Time – The last disconnection experienced with the site.
- Failed Connections – Total number of disconnections experienced with the site to date.

- Channel Health Status table – This table shows status of the site along with channel configurations for the main and sub streams.
 - Connection Color Code:
 - Green – Connected
 - Red – Disconnected
 - Black – No Channel yet
 - Channel – Channel number of site.
 - Status – Connected, Disconnected, Not Running, No Video Yet.
 - Note: Not Running indicates that the SecureGuard® service has stopped
 - Note: No Video Yet indicates the channel does not have a camera connected
 - Failed Connects – The number of times there was a failed connection with the channel.
 - Main Res/Codec – The resolution of the main stream and its codec
 - Main FPS – The frame rate of the main stream
 - Sub Res/Codec – The resolution of the sub stream and its codec
 - Sub FPS – The frame rate of the sub stream
- Last Database Update – The most recent recordings of health statuses to the database.
- Last Status Refresh – The most recent health status refresh.
- Export Health Status button – Create a comma delimited text file containing a detailed report of the SecureGuard® installation to include system information information and advanced SecureGuard® operating conditions and settings. You will be asked to save the health status file onto your machine where you can open it in Excel or a text editor of your choice for review. See Health Status Export for an example of the content included in the exported file.

Note: Changing the file into the .csv format will better organize the Health Report information when viewing it in Excel.

- Refresh Stats – Update statuses on demand.

About SecureGuard®

Version,2.9.0

Package,2021.4.5.171

Operating System,windows 7sp1

Build Time,Apr 5 2021 10:28:17

Installation Type,Server

System

System Folder,C:/speco/sgp

Recording Folder,C:/speco/sgp/data/recordings

Keep Recordings for (days),15

Maximum disk space to use (%),90

Maximum user recording length (minutes),60

System Drive Size (GB),450

System Drive Used (GB),140

Free Space (GB),310

Percent Used (%),32

System date,Wednesday Apr 7, 2021

System Time,2:29:06 PM

Timezone,Eastern Daylight Time

DST,Yes

PC Manufacturer,Lenovo

PC Model,10B60008US

Processor Vendor,GenuineIntel

Processor Type,Intel(R) Core(TM) i5-4570 CPU

Processor Speed (Mhz),3192

CPU Core 1 Temperature (Celsius),39

CPU Core 2 Temperature (Celsius),41

CPU Core 3 Temperature (Celsius),42

CPU Core 4 Temperature (Celsius),40

Average CPU Temperature (Celsius),42

CPU Usage (%),1

Installed Memory (RAM),16.00 GB (15.95 GB usable)

Memory Currently Used (GB),4.18

PC System Type,64-bit Operating System on an x64-based processor

Local Hard Drive(s) SMART Information

Drive,0

Model,WDC WD5000AAKX-08U6AA0

Serial,WD-WMC2E0J5E4V1

Cache(Buffer), 32768(0)

Raw Read Error Rate(Critical),0

Spin Up Time,3916

Start/Stop Count,638

Reallocated Sectors Count(Critical),0

Seek Error Rate,0

Power-On Hours,47838

Spin Retry Count,0

Recalibration Retries,0

Device Power Cycle Count,278

Load/Unload Cycle Count,11340

Temperature,34

Reallocation Event Count(Critical),0
Current Pending Sector Count(Critical),0
Uncorrectable Sector Count(Critical),0
UltraDMA CRC Error Count,0
Write Error Rate (Multi Zone Error Rate),0

RAID System Status

No software found to check on RAID status.

'C:/Program Files (x86)/MegaRAID Storage Manager/storCLI64.exe' not found.

Archive

Archive,Enabled
Archive At Time,03:04:00
Archive At Day,Daily
Keep Archives For (days),180
Limit Space To (GB),1000
Current Usage (Bytes),30573461445

Updates

Check For SecureGuard Updates,Enabled
Check For SecureGuard Updates at,01:10:00
Run SecureGuard Server At Boot,Enabled
SecureGuard Service Status,Running

Database

Filename,C:/speco/sgp/sgpDev.sqlite
Database Version,DB version 19 - Fri Mar 19 15:43:04 2021
Scheduled Backup,Disabled
Backup at Time,7:01 PM
Backup At Day,Not Set

Network

Client Interface,Realtek PCIe GBE Family Controller
Client Interface IP Address,192.168.56.125
Client Interface MAC Address,44-8A-5B-C5-7F-91
Video Network Interface,Realtek PCIe GBE Family Controller
Video Interface IP Address,192.168.56.125
Video Interface MAC Address,44-8A-5B-C5-7F-91
Host Name,JT-TEST_PC
Server Ports,7312
Mobile Client Access,True
Speco DDNS,Enabled
DDNS Ports,7312-7314
Use Server Ports,True

Email

Predefined Servers,Manual
E-mail Port,465
Encryption,SSL Connection
Server,smtp.gmail.com
User Name,specotesting@gmail.com
Max Attachment,5
From,

Sites

Site Name,Model,Status,Schedule,Channel,Main Resolution,Main Codec,Main Frame Rate,Sub Resolution,Sub Codec,Sub Frame Rate,DDNS Name,IP Address,Ports,Username

★Main Entrance,Onvif Camera,Connected at 04/07/2021 8:25:00,--none-

-,1,2592x1952,H.265,30,704x480,H.264,30,,192.168.56.124,80,admin

Break Room,Onvif Camera,Connected at 04/07/2021 8:25:00,--none-

-,1,2592x1952,H.265,30,704x480,H.265,30,,192.168.56.131,80,admin

D8VX,VX,Connected at 04/07/2021 8:25:01,--none-

-,1,960x480,H.264,8,352x240,H.264,8,,192.168.56.42,554,admin

,,,2,960x480,H.264,8,352x240,H.264,8,,192.168.56.42,554,admin

,,,3,960x480,H.264,8,352x240,H.264,8,,192.168.56.42,554,admin

,,,4,1920x1080,H.264,8,640x360,H.264,8,,192.168.56.42,554,admin

,,,5,960x480,H.264,8,352x240,H.264,8,,192.168.56.42,554,admin

,,,6,704x480,H.264,8,352x240,H.264,8,,192.168.56.42,554,admin

,,,7,1920x1080,H.264,8,640x360,H.264,8,,192.168.56.42,554,admin

,,,8,1920x1080,H.264,8,640x360,H.264,8,,192.168.56.42,554,admin

O2D4,O2D4,Connected at 04/07/2021 8:24:57,Default

Record,1,1920x1080,H.264,30,704x480,H.264,30,,192.168.56.94,554,admin

O4P4,O4P4,Connected at 04/07/2021 8:25:00,--none-

-,1,2592x1520,H.265,30,704x480,H.265,30,,192.168.56.133,80,admin

Schedules

Default Record

,00,01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23

Mon,M

Tue,M

Wed,M

Thu,M

Fri,M

Sat,M

Sun,M

Default Sensor

,00,01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23

Mon,S

Tue,S

Wed,S

Thu,S

Fri,S

Sat,S

Sun,S

Motion

,00,01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23

Mon,M

Tue,M

Wed,M

Thu,M

Fri,M

Sat,M

Sun,M

.00.01.02.03.04.05.06.07.08.09.10.11.12.13.14.15.16.17.18.19.20.21.22.23

Tue,N,N,N,N,N,-,-,-,-,-,-,-,-,-,-,-N

Thu,N,N,N,N,N,-,-----,N

Fri,N,N,N,N,N,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-N

Sat,N,N,N,N,N,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-N

Sun, N, N, N, N, N, - - - - - N

User ID,LoginID,Role

9, user, User

10,admin2,Administrator

**Name,OpenGroup,ConnectAll,DisconnectAll,Exit,Live,RemotePlayback,PcPlayback,ExportPlay
back,Record,Snapshot,Lock,CameraInfo,RemoteConfiguration,AudioOn,SettingsFilePaths,Settin
gsGroupMgmt,SettingsImageAnnotations,SettingsEvents,SettingsSequence,ScreenSimple,Scee
nAdvanced,Sequence,Toolbar,ControlPanel,StatusBar,DomeControl,LogDebug,LogActivity,FullS
creen,CheckForUpdates,Manual,ScreenFavorites,ScreenSaveFavorites,PTTBroadcast,PagingBro
adcast,PTTSite,PagingSite,StreamingApp,Emap,PublicAPI,Export,OpenBrowser,AccessControl,Pa
nicButton,TrackObjects**

[illegible][illegible]

Guest, X, X, X, X, XXX, X, X,

Feature,Count,Installed,Status,Expiration

onvif-camera~1-2.2.Y.Active.No Expiration

server-monitor,2,Y,Active,No Expiration

speco-cloud~1-3,3,Y,Expired,Expired

video-channels~1-32,32,Y,Active,No Expiration

video-channels~33-42,10,Y,Active,No Expiration


Health Status Export

2.2.12 IP Scanner Tool

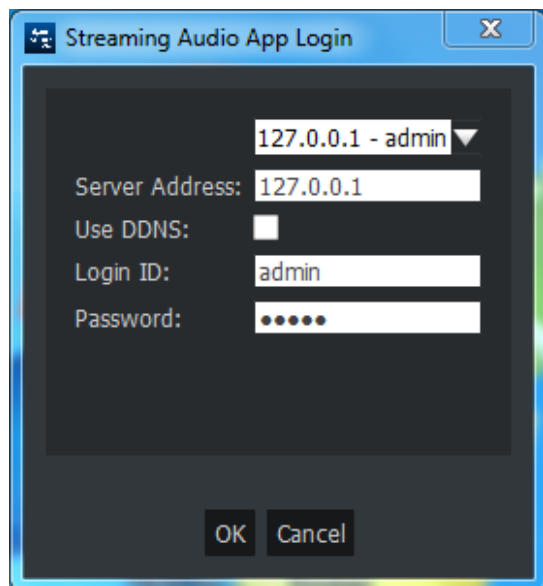
Select IP Scanner  from the toolbar to launch an application which allows you to conveniently configure IP cameras.

Note: when running this tool, if no cameras are found, verify there is only one active network adapter for the PC to aid operation (see Network tab).

3 Audio Streaming

When the SecureGuard® server is running, selection of the Audio Stream icon  from the right side of the Configuration Application will launch the Streaming application. When initiated in this way, login credentials from the Configuration Application will be passed to the Streaming application giving seamless access. If the Streaming application is launched from the program menu, a login dialog will be displayed and user access will be validated.

The Audio Streaming feature enables a single PC to provide a background audio feed of music or advertisements to several configured sites in the SecureGuard® network. This application works using the same database of users and site information as SecureGuard®. Users other than the administrator must be granted access for Audio Streaming in the *Users* tab. It is important to note that permissions for user access per channel/site do not apply if a user is also authorized for Streaming Audio. If a user has Streaming Audio permission, the user will also have full access to the configured collection of sites for streaming.



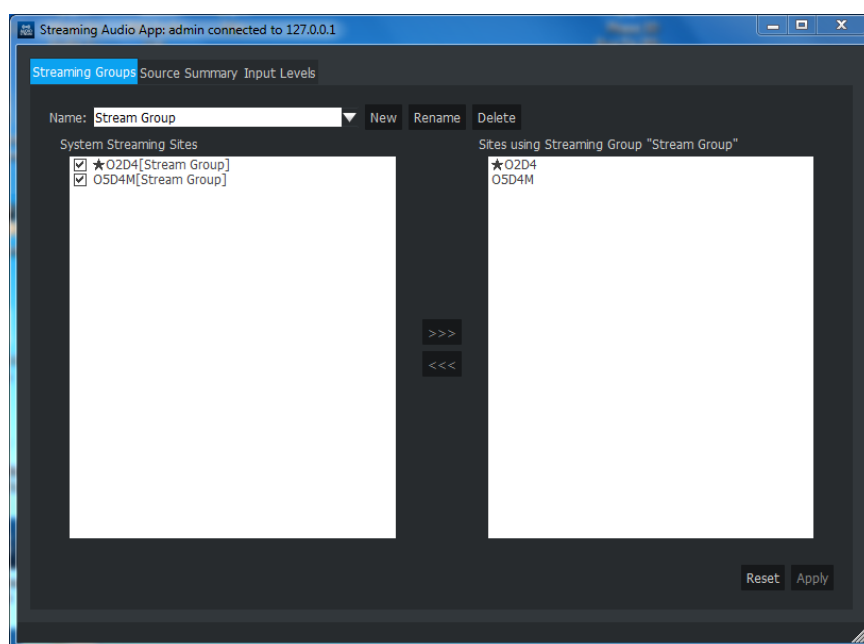
Streaming Audio Login

Provide the IP address of the SecureGuard® server and user login credentials to begin.

3.1 Configuration of Streaming Groups

Streaming groups are named groups of sites that can be configured to receive an audio stream to output through connected speakers. Only those sites configured in SecureGuard® with Audio Out enabled are eligible as potential streaming sites. These will be listed on the *System Streaming Sites* tab.

Streaming groups are shared by all users of the Streaming Application. Modifications to a group made by User A will be reflected on User B's interface.



Streaming Audio

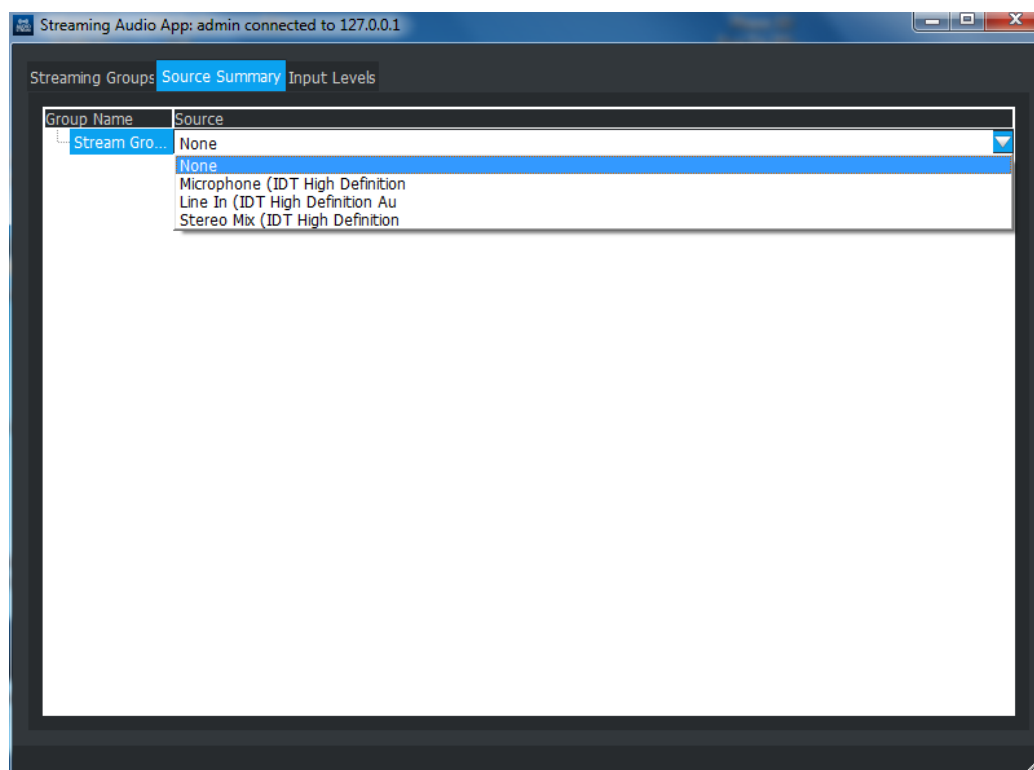
Use the *New* button to create a new group. Streaming Audio groups are distinct from both display groups and broadcast groups within SecureGuard®. Each of the streaming groups contains a mutually exclusive list of sites, meaning a site may only be in one streaming group at a time. If a site is currently associated with a streaming group, the name of that group is shown in parenthesis next to the site name.

Use the arrow keys to add/remove sites from the selected streaming group. Click the *Apply* button to save selections to the database. As audio groups are modified, any other instances of the Audio Streaming application connected to the same SecureGuard® server will receive these changes and update accordingly.

Use the *Rename* and *Delete* buttons as needed to manage the streaming groups that have been created.

Click *Reset* to undo changes made before you click *Apply*.

3.2 Source Summary



Source Assignment

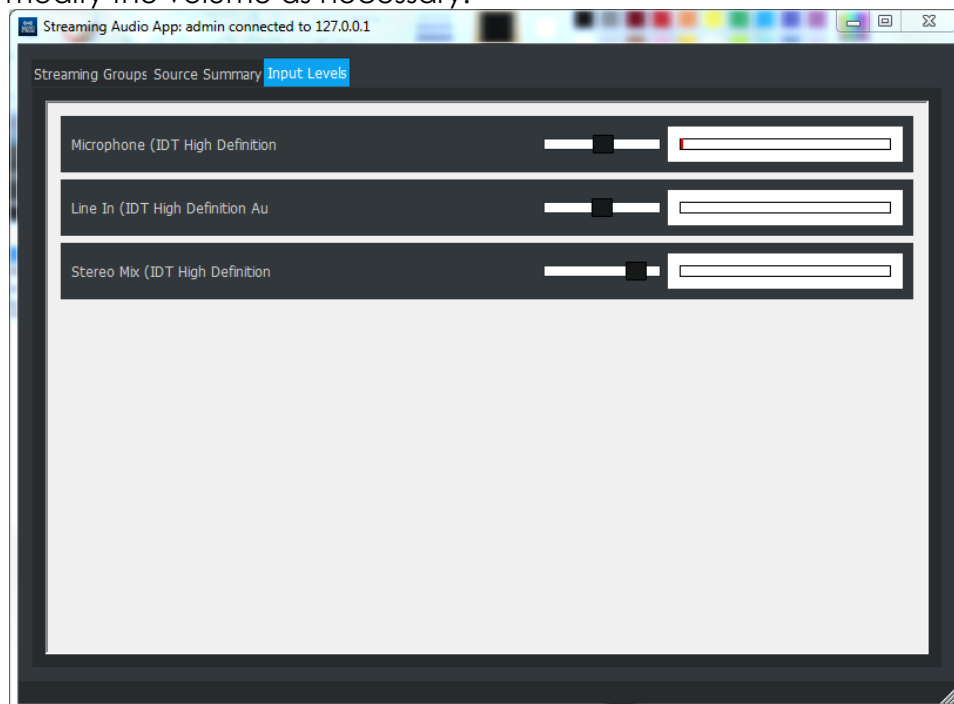
Audio source assignments for each locally controlled streaming group are made on the *Source Summary* tab. Only one input source may be assigned per streaming group, but a single source may be used for multiple groups.

Changing an audio source to something other than “None” will cause audio streaming to begin. Returning the source to “None” will cause it to stop. All streaming audio groups created are shared among all users of the Streaming Audio application. If a streaming group has no audio source assigned (shown as “None”), the streaming group is free to be assigned by another user of the Streaming application with SecureGuard®. Once assigned, the group will be shown as “Currently in Use” to other users in the system.

Streaming audio will be the lowest priority of any audio heard at a site. Any other audio received at the site will cause streaming audio not to be heard. Streaming audio will not be rebroadcast back into SecureGuard® for other clients to hear and will not be recorded.

3.3 Input Levels

Check the audio levels from the local sources using the *Input Levels* tab. Use the sliders to modify the volume as necessary.



Input Level Controls

A sample configuration might be running in “loop back”, where audio from the Audio Streaming PC is transmitted out to a streaming group by plugging a double-ended 1/8” jack into both the “microphone” jack and the “headphone” jack on the Audio Streaming PC. (Note that use of multiple headphone jacks may override the audio feed from the selected source.)

The Audio Streaming application must remain open on the PC for streaming to continue. Once the application is closed, streamed audio will cease and any actively streaming groups will be released for reassignment to other Audio Streaming users.

4 SecureGuard VMS Client

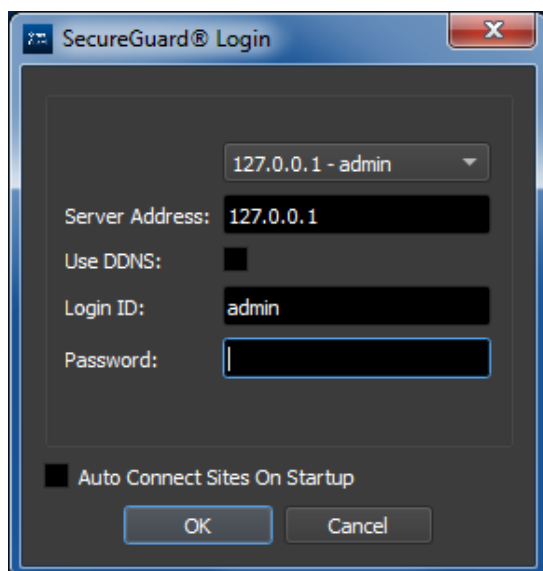
4.1 Logging Into Client

The SecureGuard VMS Client connects to a SecureGuard Server to view live video, playback footage, and export footage.

NOTE: The SecureGuard VMS Client is to be installed and used on a client machine. The client should ONLY be used on a server to confirm video streams.

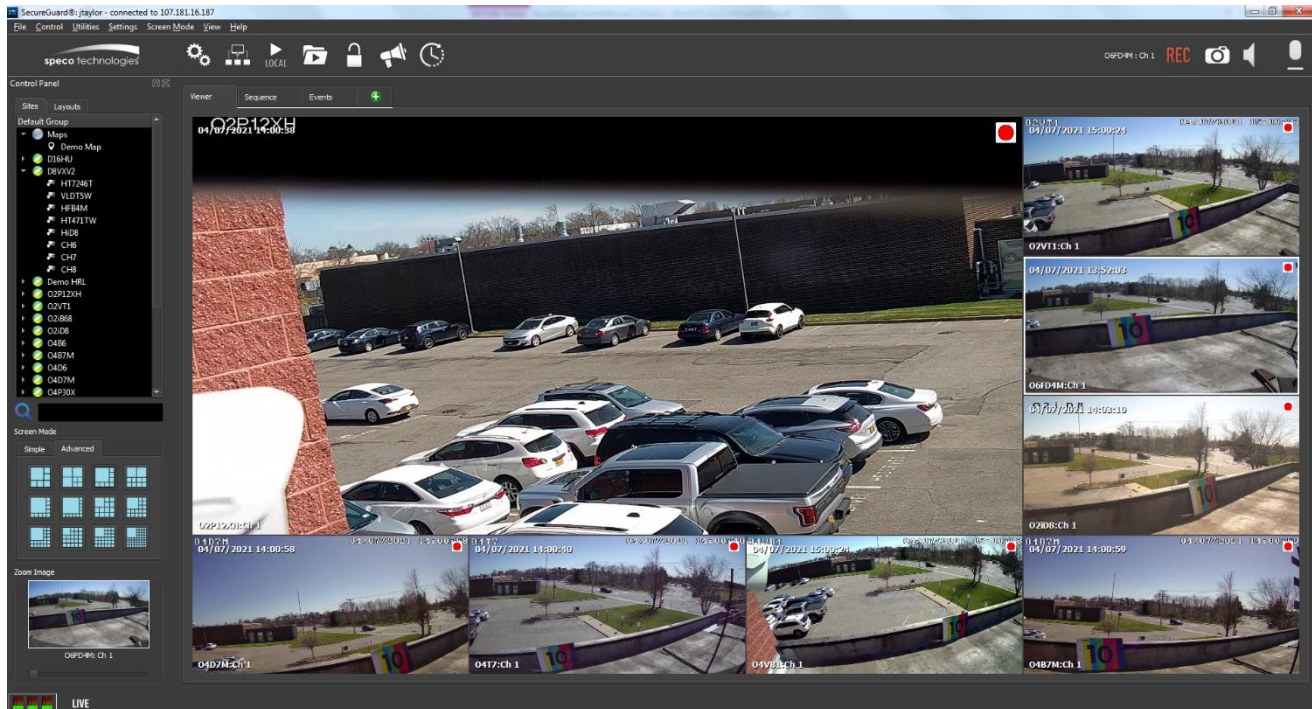
Enter the IP address of a SecureGuard server installation. If the installation is a remote and has a DDNS, check the box next to *Use DDNS* and enter the DDNS name in the *Server Address* box.

Enter valid login credentials in the *Login ID* and *Password* boxes. If the checkbox next to *Auto Connect* is checked, the previously configured start group of sites will load and automatically connect for live viewing.



Login Dialog

4.2 Client Interface



Client Interface (Administrator Login)

The main control areas of the Client include:

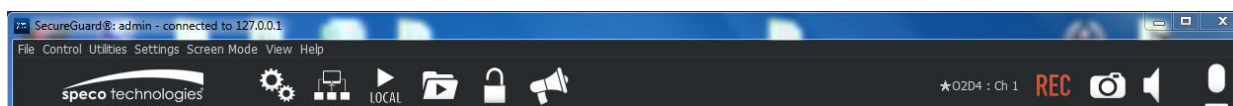
1. Main Menu Controls
2. Toolbar Controls
 - Configuration Tool Shortcut (Administrators will only see this)
 - User Settings (Group Management shortcut)
 - Local Playback (Recordings that reside on a SecureGuard Server)
 - Export Folder Shortcut
 - Lock Client Interface
 - Broadcast Audio
 - Real-Time Event List Shortcut
3. Control Panel
 - Sites Configuration Tree
 - Screen Mode Layout
 - Digital Zoom
4. Status Bar
 - System Utilization (CPU, RAM, Client Hard Drive)

4.3 Initialization

Options available on the tool bar relate to a user's permissions in the SecureGuard® system. For the administrator only, in addition to all application functions the Configuration Tool may

also be launched directly by clicking the  button on the tool bar or by navigating to "Settings->System Configuration" from the main menu. This convenient access point is not provided to any other user.

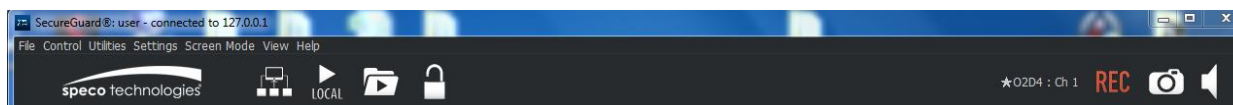
The tool bar for the admin is shown below:



Main Menu and Toolbar for Administrator

NOTE: The Configuration Tool shortcut will only be displayed if a Configuration Tool application is on the machine.

A sample tool bar for another user will reflect reduced accessibility. (Notice there is no tool bar shortcut for the Configuration Application for this user for example.)




Main Menu and Toolbar for User

The items in the top-level menu are:

1. File
2. Control
3. Utilities
4. Settings
5. Screen Mode
6. View
7. Help

4.4 User Settings

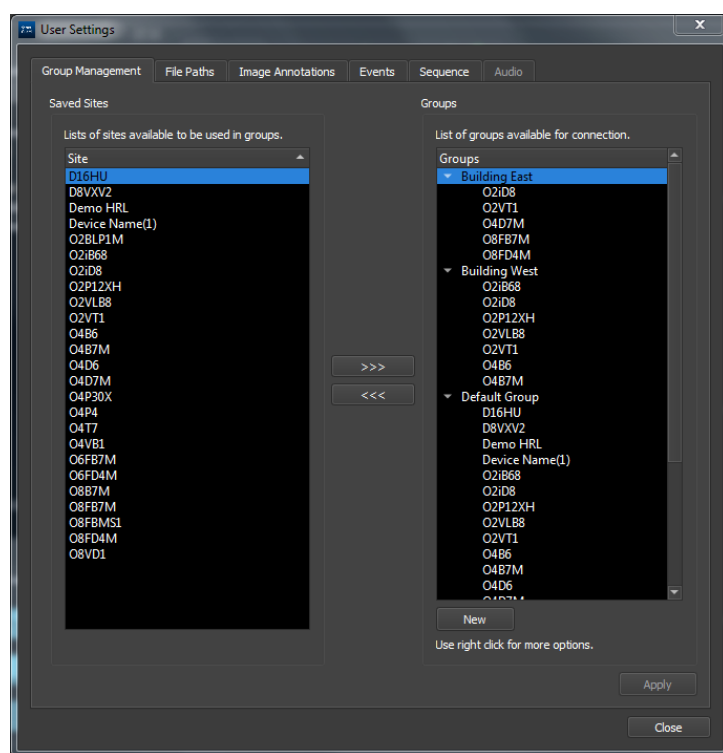


Click the  button to configure the user environment and settings. The information below may also be accessed through the "Settings" menu action. Click the *Apply* button on the bottom of each tab to save these user settings.

4.4.1 Group Management

Users will be able to create and manage an unlimited number of groups in their client application. Only one group can be viewed at a time.

A sample of the Group Management tab is shown below.



Group Management

For first time setup, a group named "Default Group" is present to hold all sites to allow initial viewing of cameras prior to creating custom groups and assigning sites to those groups.

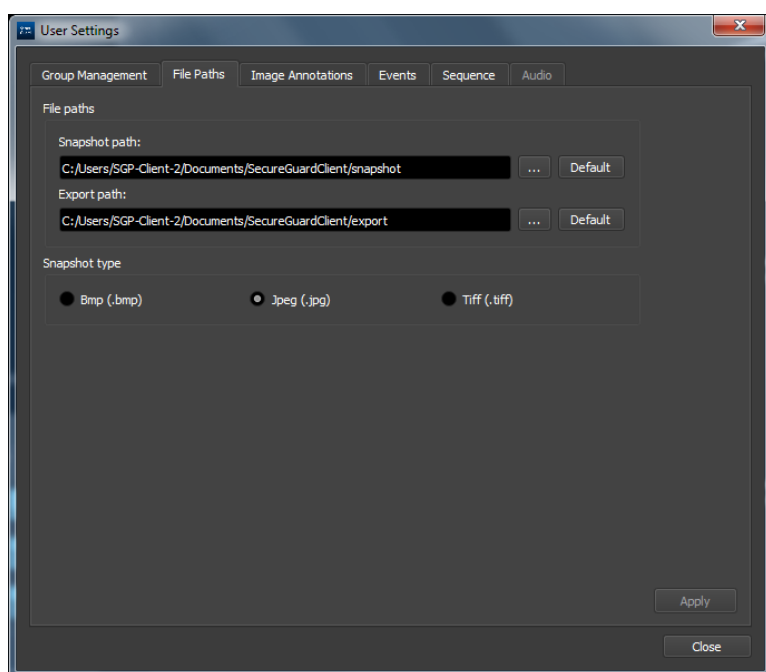
To create a new group, press *New* in the panel on the right side of the dialog. Group names must be unique. Use the '>>>' and '<<<' buttons to add and remove sites from your groups.

The following additional functions can be accessed by right-clicking on a Group name:

- New Group
- Rename Group
- Delete Group – You will be asked to verify this action before it is completed
- Connect to Group – Selects this group for display and returns to the Client

4.4.2 File Paths

The *File Path* tab is used to specify default storage information. Use the “...” button to modify the file paths provided.



File Paths

- *Snapshot Path* - identifies where snapshot files will be stored
- *Export path* - identifies the default folder to store recordings extracted from the database
- *Snapshot Type* – identifies the format that Snapshot images will be stored in. The types available are:
 1. BMP – uncompressed proprietary format invented by Microsoft
 2. JPG – compressed image format developed by Joint Photographic Experts Group optimized for photographs.
 3. TIFF – uncompressed image format which preserves all the original information. Useful if more processing will be done since it preserves all the original information.

When images are shown in the Viewer Panel, they can be annotated with additional information. The Image Annotations tab is used to select which annotations should appear. These selections will apply to all images displayed.

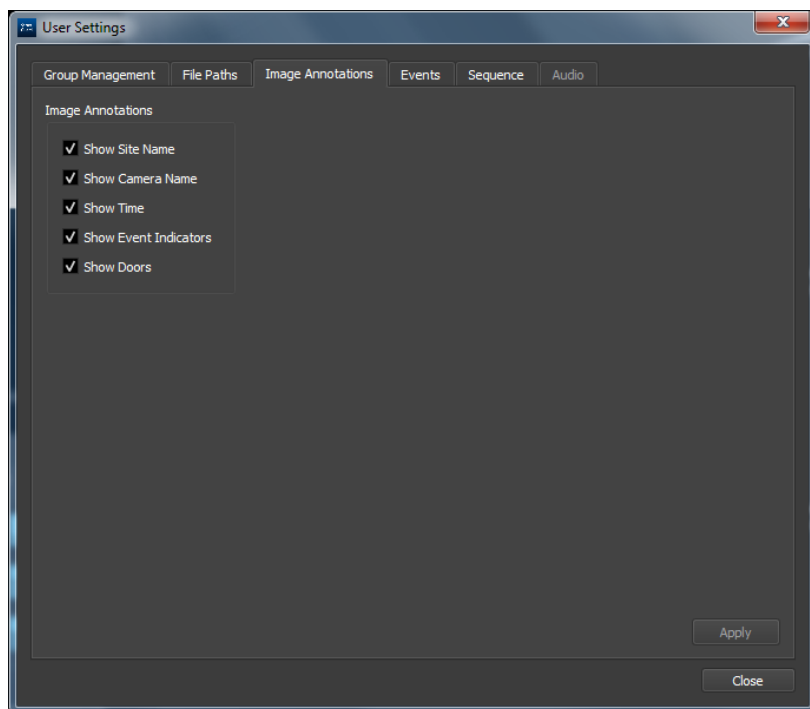


Image Annotations

An example screen showing all annotations appears below.

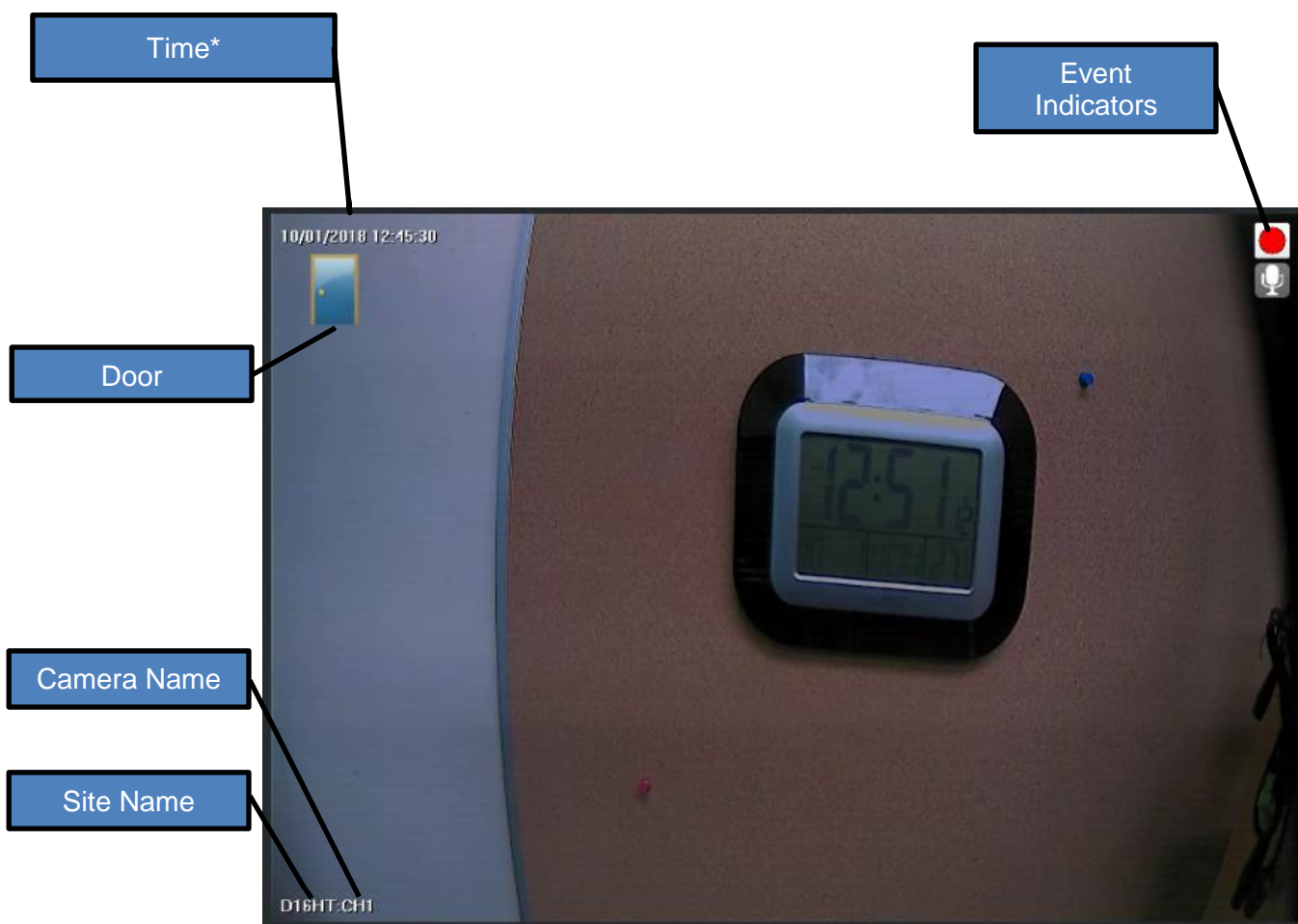


Image Annotations

***This is the device's time and not the server's time.**

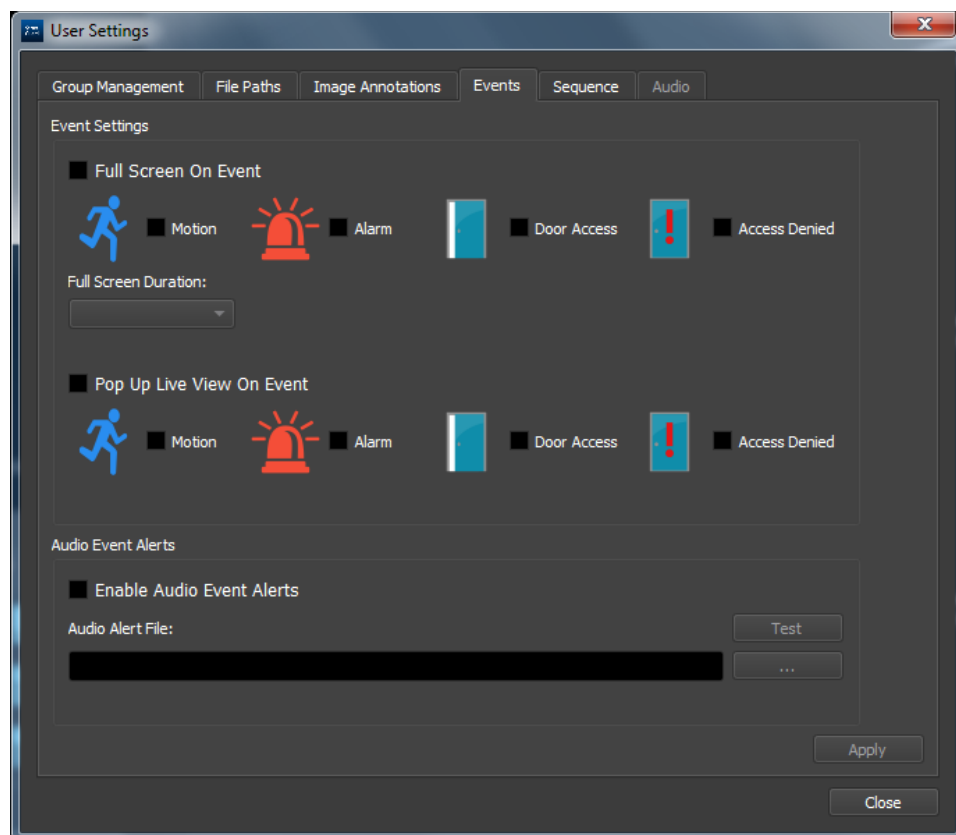
The Events tab settings is where the user can configure *Full Screen on Event*, *Pop Up Live View On Event*, and *Audio Event Alert* parameters.

Full Screen On Event – Will bring a channel into a 1x1 view upon a checked event type for a duration selected by the user and then go back to its original grid view.

Pop Up Live View On Event – Will pop up a window with a channel that was triggered by a checked event.

Enable Audio Event Alerts – When checked, an audio tone will be played when an event occurs. The user can add their own audio tones (.wav) and test the audio tone to confirm.

NOTE: A channel does not need to be added to a recording schedule for these actions to work.



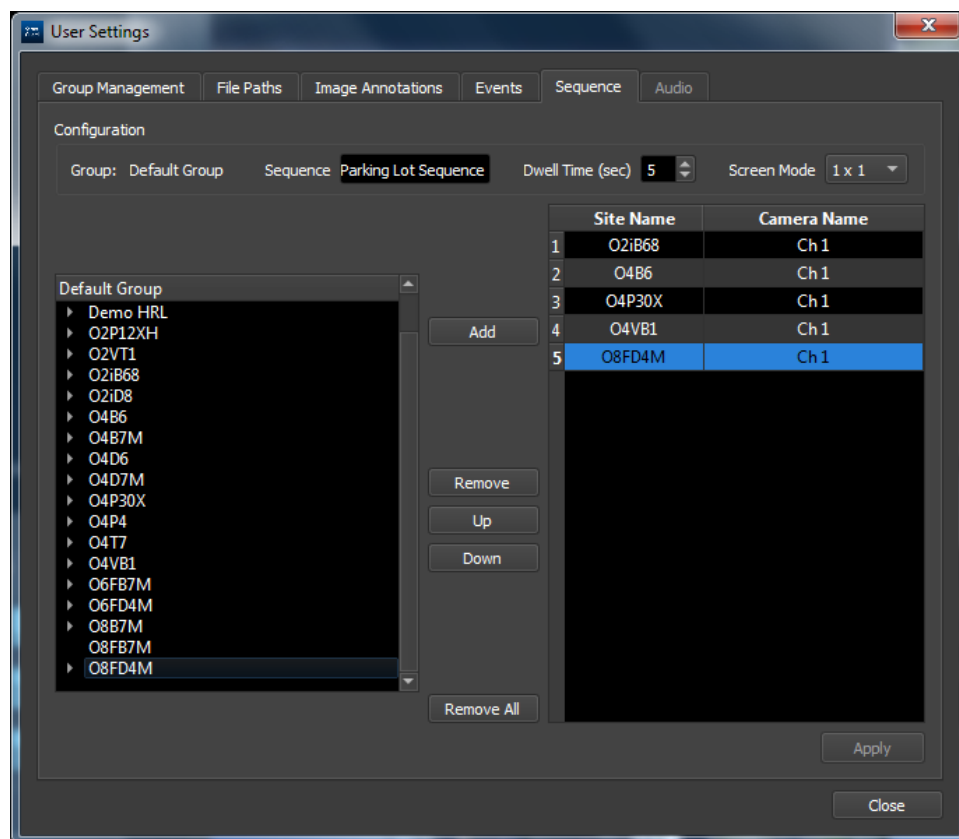
Events

Below are the event types that can trigger these actions.

- Motion
- Alarm
- Door Access
- Access Denied

4.4.5 Sequence

The Sequence tab is used to cycle through a specified list of images in the Viewer Panel.



Creating a Sequence

Available sites will appear in the left panel of the window. Use the buttons in the center to build a viewing Sequence in the right panel.

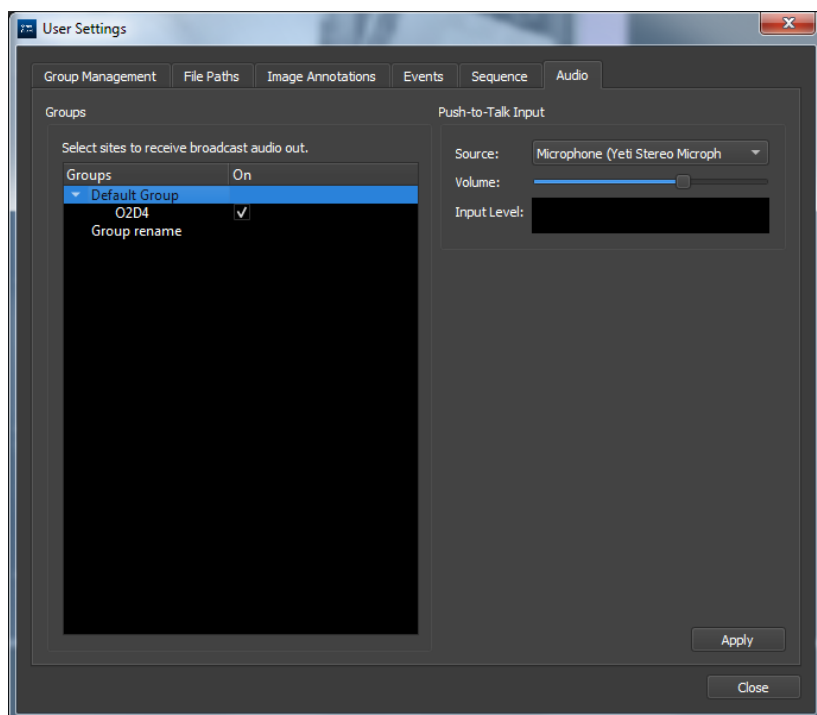
- Add – To include a camera in the Sequence, click the camera then the Add button.
- Clear – To clear all cameras from the Sequence, click Remove All.
- To modify and position cameras in the sequence list, click on a camera then use the Remove, Up and/or Down buttons

When a Sequence is activated in the Client, images from the sequence list are cycled through and displayed using the Screen Mode selected. Each set of images is shown for a specified period of time or Dwell Time. When the dwell time expires, the viewer panel is filled with the next set of images from the list. This continues until the list is finished at which time images from the start of the list are shown again.

Note: A single camera can be in the Sequence list multiple times.

4.4.6 Audio

The Audio tab is used to configure audio output settings for broadcasting pre-recorded audio files to a set of sites, or for transmitting live audio from the Client using the Push To Talk feature of SecureGuard®.



Audio Settings

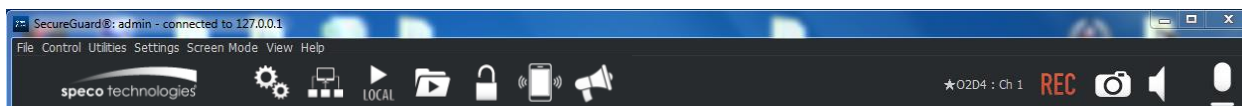
4.4.6.1 Broadcast Group Configuration

The left side of the window contains a list of sites configured with Audio Output enabled. Select all sites that may receive pre-recorded audio broadcast messages from this user. During Broadcast, only connected sites in the current display group will hear the audio broadcast. It is important to note that audio output is on a per-site basis, not per channel. Therefore a multi-channel site like a DVR will only have 1 audio output feed that will go to all channels of the DVR.

4.4.6.2 Local Audio Input Source Configuration

Select the input source from the choice list provided, including "Microphone" and "Line-In". This will be the input source transmitted when the Push-to-Talk feature is activated. Use the volume slider to adjust the input level.






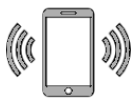

4.5 Toolbar Controls









Toolbar Buttons (Admin)

Once a display group has been created and connected, the SecureGuard® VMS Client will enter *Live* mode to display video data for the selected sites.

Starting from the left, each button on the tool bar is briefly described below:

1. Configuration Tool Shortcut: (admin ONLY)  launches the Configuration Tool **ONLY** if it is on the same machine.
2. User Settings:  configures the User environment
3. Local Playback:  Playback recordings stored on SecureGuard
4. EZ Copy:  Browse to the Export folder (defined in User Settings/File Paths) and manage video that has been previously exported from the system.
5. Lock:  Asks the user for his password and then locks the controls of the Client until it is unlocked. While locked, images continue to update.
6. SMS Mass Notification:  Select a site from a drop down menu to initiate emergency SMS notification to its list of subscribers. Sites will only appear in the drop down if SMS notification is defined and a valid SMS Mass Notification license is installed.
7. Broadcast:  Audio will be broadcasted to a group of sites either by Push-To-Talk or a paging file.

The buttons on the right-side of the toolbar relate to the currently selected camera. The site name and channel number of the selected camera are shown, along with the following buttons:

1. Record:  Use this button to start/stop local user recording of the currently selected site. When the site is in Record mode, the button will flash. This button only appears if the current site is in Live mode.
2. Site Playback:  Use this button to select playback parameters and start playback from a remote site (DVR, NVR, or IP Camera with SD Card storage). This button only appears if the currently selected site is in Live mode.
3. Live:  Used to resume displaying live images from the currently selected site. This button is only shown when the current camera selection is in Playback mode.
4. Snapshot:  This button will capture the current image for the selected channel and store it in the location specified in the Settings->File Paths tab.
5. Audio:  This button enables audio to be heard for the selected site when available.
6. Send Audio to a Single Site:  Used to initiate audio output to a single selected site using either Push-To-Talk or a paging file.

4.6 Main Menu Controls

In addition to shortcut buttons on the toolbar, the application provides control menus to access many common functions. These features are summarized below.

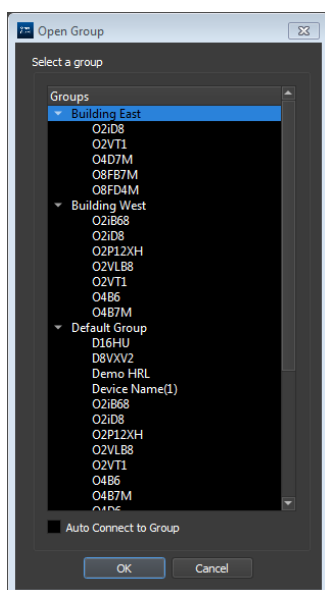
4.6.1 File

The *File* menu contains the following options:

- Open Group

This action lets the user select a display group for viewing. Click on a Group Name to open. When selected, the sites in the current group will be disconnected and the sites in the newly selected group will be connected. You will be asked to confirm before this action is initiated.

An example of the group selection dialog is shown below.



Open Group

- *Connect All Sites* - If a group of sites is not initially connected at login by clicking the *Auto Connect Sites* on Startup checkbox, choose this option to initiate new connections.
- *Disconnect All Sites* – To discontinue viewing a Group, select this option to disconnect. This action will happen automatically when the application is closed.
- *Exit* – This action will save all current settings and exit the application.
- *Auto Connect to Group* – Check this box to automatically connect all sites when transitioning to the new group.

4.6.2 Control

The Control sub-menu contains actions that are determined by the mode of a selected camera. Each of these features is discussed in detail later in Section 5. They include:

- *Remote Playback* – refers to playback of video recorded and stored on the device (DVR, NVR, or IP camera); Available for DVR and NVR sites, and IP cameras with SD card storage
- *Local Playback* – refers to recordings stored within the SecureGuard® system. Available when the selected site is in Live mode
- *Export Playback* – Opens a file browser to the Export folder defined in Settings/File Paths
- *Record* – Starts/stops manual recordings on the selected site
- *Audio On/Off* – Turns any available audio on/off for the selected site

Additional functions provided during Playback Mode only:

- Live
- Pause/Play
- Increase Speed

4.6.3 Utilities

The Utilities menu provides quick access to the following utilities according to user permissions. These are also described elsewhere in this document.

- *Snapshot* – captures the current image for a camera and stores it in a file
- *Lock* – locks and password protects the screen so users cannot make inadvertent changes
- *IP Scanner* – used by administrators for locating IP Cameras on the local area network
- *SG Player* – a built-in player for video exported from SecureGuard®
- *Streaming Audio Application* – audio streaming capabilities

4.6.4 Settings

The Settings menu gives easy access to the Settings dialog discussed above. Clicking the individual sub-menu items will cause the Settings dialog to be opened at the indicated tab. See Section 5.4 User Settings for more information.

4.6.5 Screen Mode

The Screen Mode menu provides alternative layouts for the viewer panel, and the ability to save and navigate between these layouts. The following options are available:

- Simple – Allows the user to choose 8 simple display grid patterns ranging from 1x1 up to 8x8.
- Advanced – Allows for more complex layouts
- Layouts – Switch between stored, named layout patterns and camera combinations
- Save Current Layout – Saves the channel grid and video streams applied to channel boxes
- Sequence – Provides a method for activating a predefined Sequence list of images.

4.6.6 View

The View menu offers several options to tailor what is seen on the SecureGuard® Client by hiding or moving different parts of the display. With these actions, the user can do the following:

- Hide or show the Toolbar. By default, this is near the top of the main window. It can be detached from the main window if desired.
- Hide or show the Control Panel. This is shown on the left hand side by default. It can be floated or moved to the right side.
- Hide or show the Status bar. This is shown at the bottom of the main window.
- Hide or show the Dome Control. This is shown on the right hand side by default. It can be floated or moved to the left side.
- Hide or show the Layouts Toolbar. By default, this appears as part of the main Toolbar, but it can be detached from the main window if desired.
- Hide or show Detected Objects. This is shown on the right hand side of the Client interface. Access Control Users will be listed upon a successful scan, Manual door open events by other Client users, Detected License Plates, and captured faces.
- Hide or show the Debug Log. This is not a modal dialog. After using this action to show the Debug Log, the text of the action changes to Hide Debug Log.
- Open the Activity Log. The Activity Log is modal and will need to be closed before other activities can be performed.
- Full Screen is a toggle to and from full-screen mode. The menu item is checked when in full-screen mode.

The Help menu gives information about SecureGuard® and the tools used to create it. See [Help About](#) for examples of the information shown.

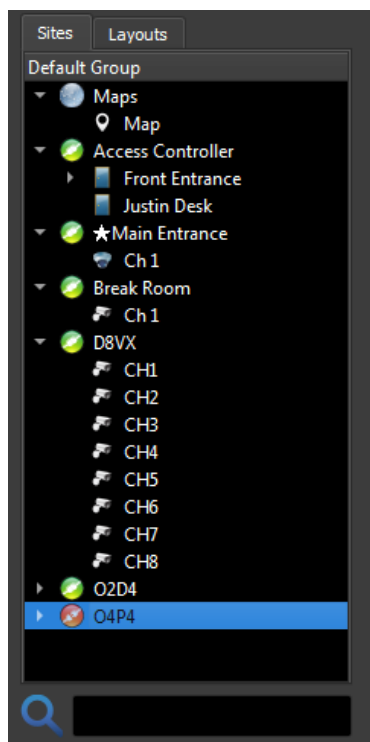
4.7 Control Panel

The Control Panel manages sites and layouts seen in the Viewer Panel. This consists of:

- Sites Configuration Tree - sites, channels, E-maps, Access Control Servers, Doors, and connection states for the open group
- Layouts Tree - manages any stored screen layout/site combinations.
- Screen Mode selection buttons - controls the size and arrangement of view ports in the main viewer panel.
- Zoom thumbnail – provides zoom functions and shows an overview of an image when the zoom functions are in use.

4.7.1 Sites Configuration Tree

The Group Configuration Tree is in the top portion of the Control Panel, showing the current group name and the sites it contains. An example is shown below.



Sites Configuration

The Group name is shown on the top, and each site is shown as an item on the tree. If a Site is connected, it's shown with a green icon. If the site is disconnected, it will be shown with red icon. The expansion of a site shows all cameras connected to the site. Use the filter tool to quickly search for a site.

There are two icons used to depict different kinds of cameras. The icons used are shown below:

Group Configuration Tree, Camera Icons



This icon is used to represent cameras that do not have pan-tilt-zoom control. (PTZ)



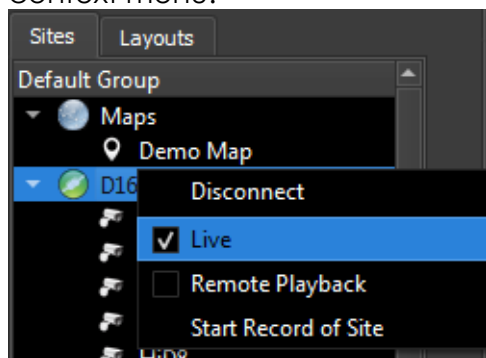
This icon is used to represent cameras that do have pan-tilt-zoom control. For these cameras, the dome control will become enabled.



This icon is used to represent the doors under an Access Control Site. This icon will also be displayed in channels that are linked to a door.

4.7.1.1 Site Context Menu

When a site is selected on the tree, click the right-mouse button to show a site-specific context menu.



Site Context Menu

The commands shown are the same commands described for the main menu and toolbar. A checkmark shows which state the site is currently in. If the site has several channels, this mode applies to all cameras in the site. Click to change states as needed.

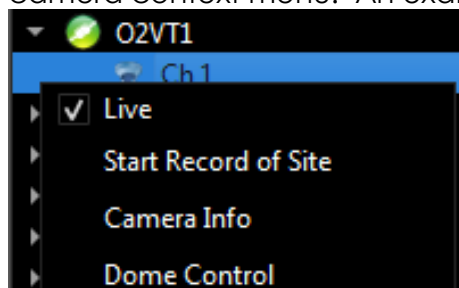
Live - the site is showing a live video feed.

Remote Playback – refers to playback of video recorded and stored on the device (DVR, NVR, or IP camera). If this option is selected, all cameras at the site are put into remote playback at the same time.

Record of Site - captures live images from a site and stores them in the SecureGuard® system. If a site has multiple cameras, they are recorded together so that they can be played back as a set. The site must be in *Live* mode before Recording can begin. If a site is in *Playback*, first return to *Live* mode and then begin recording.

4.7.1.2 Camera Context Menu

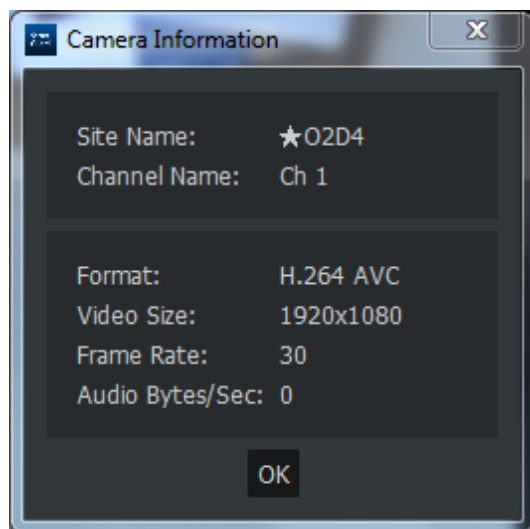
Select a camera in the configuration tree and press the right-mouse button to bring up a camera context menu. An example is shown below:



Camera Context Menu

The Live, Remote Playback, and Record items apply to the parent site and are the same as actions in the camera context menu.

The *Camera Info* action displays information about the camera. An example is shown below.



Camera Information

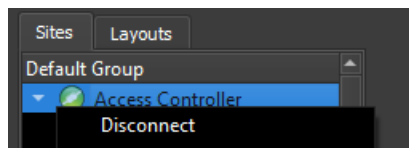
The information includes:

1. *Site Name* - the name of the site as specified in the group configuration tree.
2. *Channel Name* - the name of the camera as specified by the remote site.
3. *Format* - the format of the video information coming from the site.
4. *Video Size* - the image dimensions in pixels.
5. *Frame Rate* - the approximate rate at which new frames are being received from the site.
6. *Audio Bytes/Sec* - the approximate bytes per second of audio information being received from the camera, if applicable.

Dome Control is associated with Pan-Tilt-Zoom Capability and is discussed later in Section 5. Take a Snapshot allows the user to take a picture of the current view pane, storing it into the location configured within User Settings / File Path.

4.7.1.3 Access Control Context Menu

Right-click an Access Control site to display its context menu.

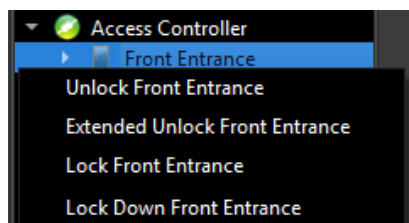


The commands shown are the following:

Connect/Disconnect – Connects or disconnects the user from the Access Control site and its doors.

4.7.1.4 Door Context Menu

Right-click an Access Control Site's door to display its context menu.



The commands shown are the following:

Unlock [Door Name] – Manually unlocks a door for the designated unlock time and then locks itself

Extended Unlock [Door Name] – Manually unlocks a door and keeps it in an unlocked state until the user locks the door themselves.

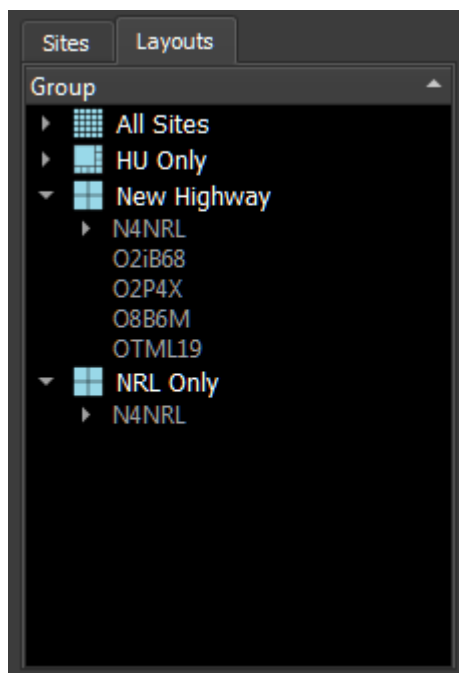
WARNING: To ensure area security, be sure to lock the door after performing an *Extended Unlock*.

Lock [Door Name] – Puts the selected door back into a normal locked state.

Lock Down [Door Name] – Puts the selected door into a locked state that will deny **all** users entry. Door will change to Red when in lock down.

4.7.2 Layouts Tree

The Layouts tree is also accessible from the Control Panel. *Layouts* are stored collections of screen layouts and site collections. An example is shown below.



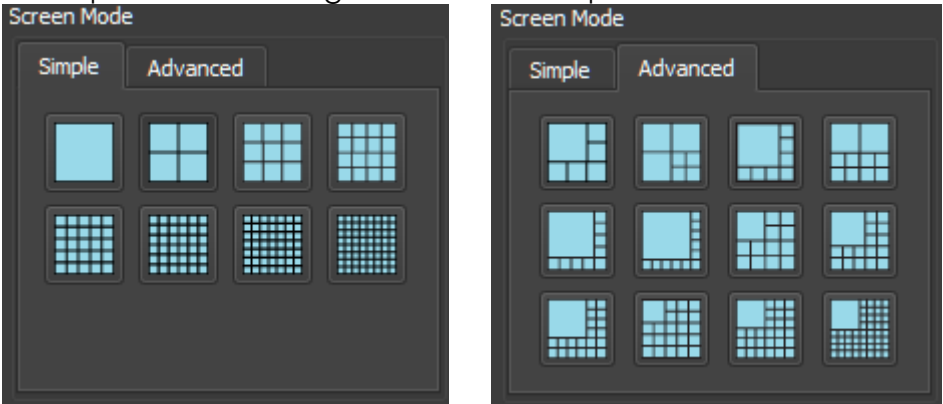
Layouts

The tree shows the layout/site combinations that have been saved by the user for the selected group. The Layout name is provided, along with its associated sites. Simply click the Layout name for viewing, or right-click for more options.

- *Show* - selects this Favorite for viewing
- *Save* - saves the current layout and site selections into this Favorite name
- *Rename* - updates the name of the chosen Favorite.
- *Delete* - removes the Favorite

4.7.3 Screen Mode Layout

The screen mode layout portion of the Control Panel offers convenient buttons to change the layout of the viewer panel. There are two sets of layouts. The *Simple* option provides grids with uniform viewing space, and an equal number of columns and rows. The *Advanced* option offers a mix of smaller and larger viewing areas. The icons provided show a sample of the viewing areas for each option.

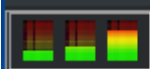





Screen Mode

4.8 Status Bar

The Status Bar is at the bottom of the main window. It provides summarized system information and site controls according the mode of the currently selected camera.

Table 1- Status Bar Icons

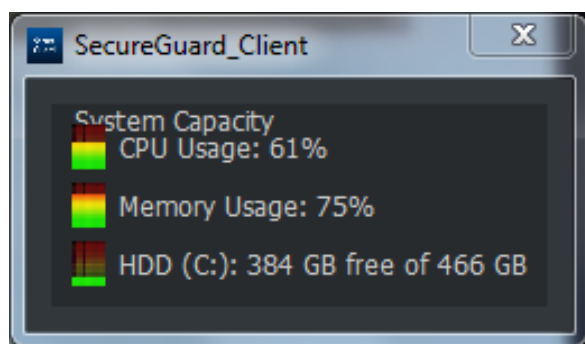
Mode	Status bar
Live	 LIVE
Manual Recording	 RECORD
Remote Playback	 PLAYBACK ⏮ ⏸ ⏭
Local Playback	 PLAYBACK 2016-05-23 07:56:48 x1 ⏮ ⏸ ⏭ ↺

4.8.1 System Capacity

On the left side of the Status Bar, three system capacity bars are shown representing the current load in the system. In order of left to right these represent:

- CPU processing load
- Total amount of memory in use
- Amount of hard drive space used on the drive that stores video recordings

When the mouse is hovered over this part of the status bar, information will be shown for name of the metric tracked and its numeric value. Double-click on the status bars and a window will appear showing current usage statistics. An example is shown below:








System Capacity

4.8.2 Playback Speed Controls

When a camera is in playback mode, control buttons will appear within the Status Bar according to the type of Playback the camera is in. These buttons control the speed and direction of the playback.

Brief descriptions of each button (from left to right) are as follows:

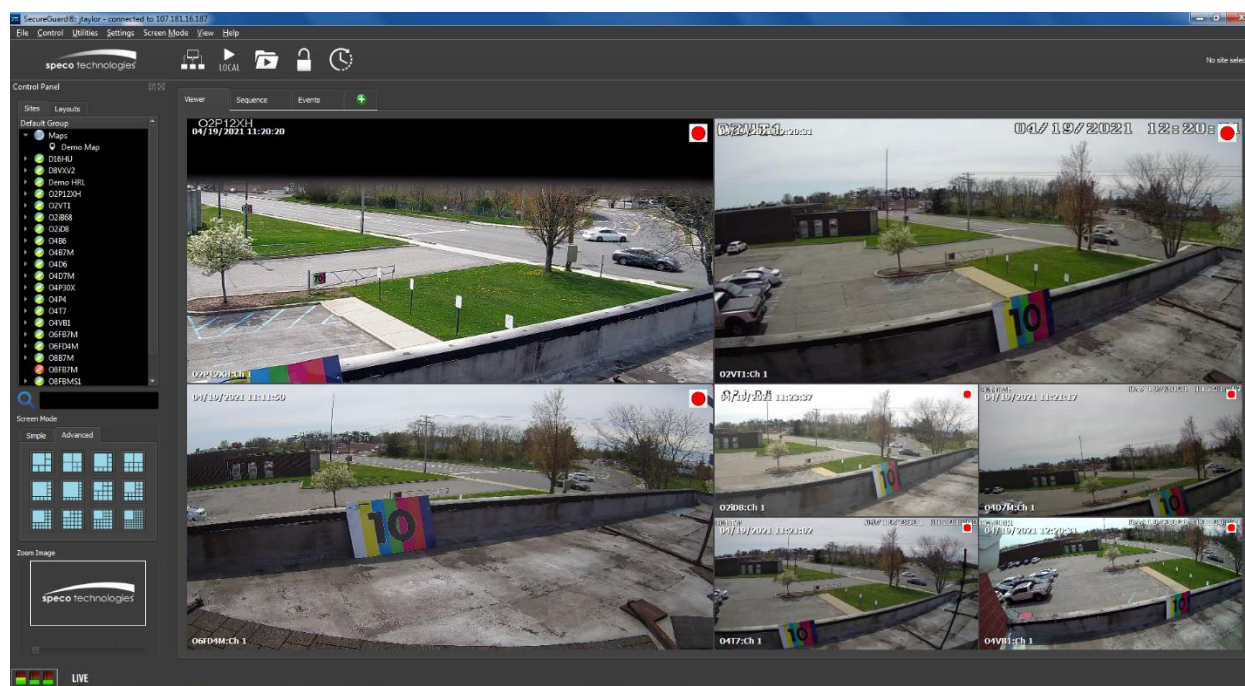
-  causes the currently playing video to *Jump Back* in 1-minute increments
-  Pause the video. When the site is paused, this button becomes the *Play* button
-  Play the video at normal speed.
-  Increase the playback speed of the video in x2 increments
-  Cause the currently playing video to *Jump Forward* in 1-minute increments

4.9 Viewing Images

The Viewer is the main activity area of SecureGuard®. This panel shows both live and recorded images from different sites in the current group.

A viewer pane shows 3 kinds of content:

1. Live or Recorded images
2. A gray screen indicating no video is being received from the connected camera
3. A logo image when the view pane is not associated with a camera



Active View

The Active Image is indicated in several locations of the display:

- In the Group Configuration tree of the Control Panel: the currently selected camera corresponding to the active viewing area is highlighted.
- In the Viewer panel: the currently selected viewing area is highlighted depending on display mode. The color white is used for live, red is for recording, and green is for playback.
- In the Tool Bar, the currently selected camera is named next to the site-specific buttons on the right of the tool-bar.

Change the active image by clicking on a camera in the Control Panel or by clicking the desired image.

*Note that it is possible to have the same camera in multiple viewing areas.

The Active Image determines the following:

- Which viewing area is affected by various viewing area actions
- Which camera is affected by camera level actions
- Which site is affected by site level actions

4.9.1 Dragging Images

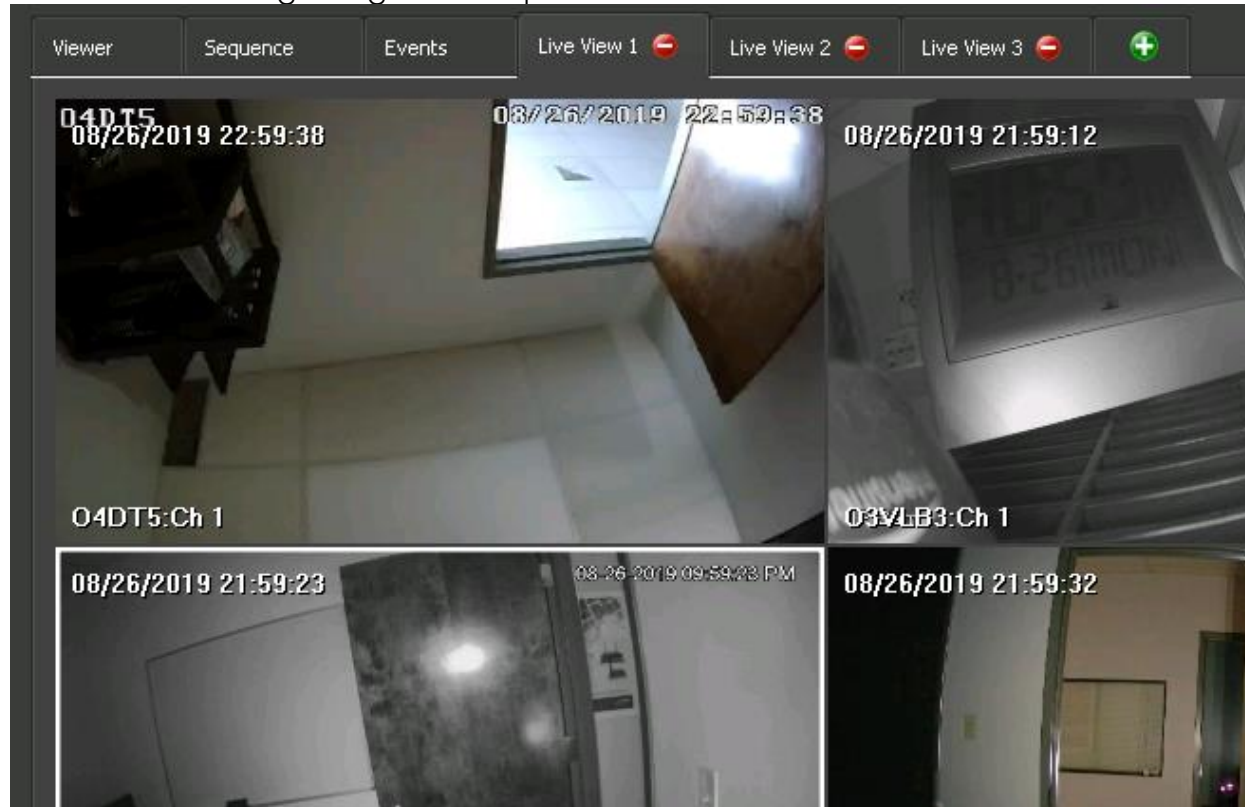
To populate the *Viewer*, click and hold on a site from the Group Configuration tree and drag it into the viewing area. Dragging a site and dropping it into a particular view pane brings all cameras for a site into the viewing area starting with the drop location.

Images can also be dragged from one view pane to another. Images cannot be moved when the images are zoomed. Once zooming starts, the mouse actions used for dragging drive a panning operation instead.

4.9.2 Viewer Tabs

Click on the “+” icon to the right of the Sequence tab to create up to 10 new viewer tabs for additional image viewers.

Click and drag a tab to undock it from the host client. Place undocked tabs on additional external monitors for monitor wall functionality under one SecureGuard client instance. In other words, view multiple sites that go over the 64 channel grid count within a single client rather than needing to log into multiple clients to create additional windows.



Viewer Tabs

The following are rules for creating tabs:

- The screen mode cannot be changed while a tab is undocked.
- Images within an undocked tab cannot be changed via the control panel. A tab must be docked in order to use the control panel to change images. The exception is the ability to drag images from one tab to another, docked or undocked.
- To dock an undocked tab, click anywhere within the undocked tab and drag it back over the docked viewer tab within the host client.

The following are the limitations of undocked tabs:

- If Full Screen on Event in the client is enabled, a channel on an undocked tab will not go into full screen on event. However, if it is a channel in a docked tab, full screen on event will work.
- Tabs cannot be renamed.

4.9.3 Camera Controls

Right-click on an image to access a control menu for the camera; The menu contains many of the options found in the Camera Context Menu described for the Group Configuration tree, but several view-related controls are added.

The Two-Way Audio features are discussed later in Section 5.

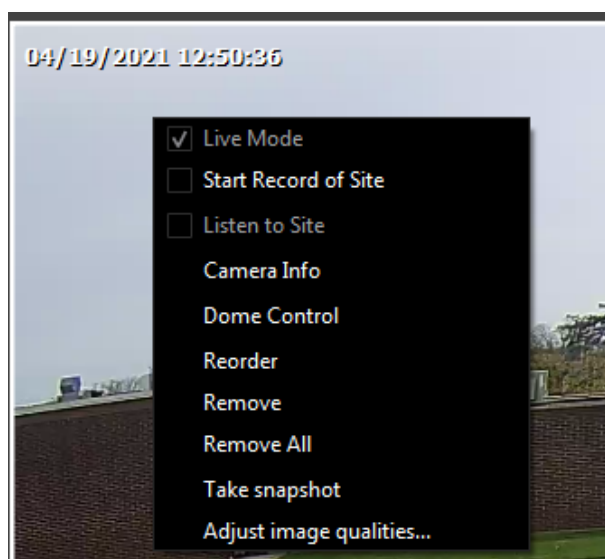


Image Context Menu

4.9.3.1 Image Order

- *Reorder* - To bring in all images for all sites in a group into the Viewer at once, click *Reorder*. This will load the first camera of the first site into the first viewing area and continue with all cameras in the group.
- *Remove* - To remove an association between a camera and a viewing area, click *Remove*.
- *Remove All* can be used to remove all images from the viewing areas.

4.9.3.2 Image Quality

To adjust the visual components of an image, click *Adjust image qualities*.

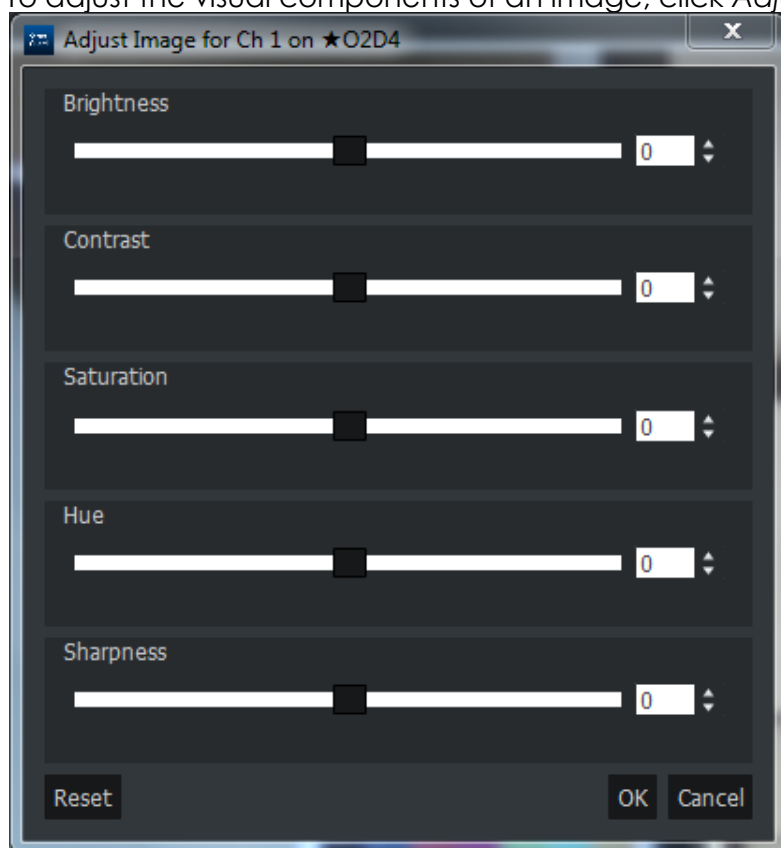


Image Adjustments

The image qualities available to be adjusted are:

- Brightness
- Contrast
- Saturation
- Hue
- Sharpness

Each quality is on a scale of -128 to +127 and by default, all images start with a value of 0. As values are modified, the viewing area will update to show the effects of the change. The controls available are:

- Slider - Move the slider to the left to make the value smaller, or right to make the value larger.
- Spin control - Use the up and down arrows to increment or decrement the values for each
- Reset - Reset all qualities back to the default of 0.
- OK – saves updates and dismisses the dialog.
- Cancel - to return to the image quality values which were in effect when the dialog was started.

Note that the image quality values are not saved upon exit of the application.

4.9.4 Quick Zoom Image

To do a quick zoom of a viewing area, double-click it with the mouse. This changes the screen layout to 1x1, showing a single view pane. Double-click again to return to the original screen layout.

4.9.5 Host-Zoom Controls

The zoom control feature provides a way to enlarge an area of an image within the Viewer. Below is a sample of this capability.



Zoom Control

The zoomed image is shown within the white highlighted box with a "Zoom x3.5" annotation in the lower right. The thumbnail image (to the left) shows the original image with the zoomed portion highlighted with a red rectangle. Beneath this thumbnail image the Site Name and Camera Name are shown, along with a zoom slider for increasing/decreasing magnification.

4.9.5.1 Wheel-based zoom

Another way to control the zoom factor is to click on an image and then move the mouse wheel. Moving the wheel forwards increases the zoom factor a half step for each wheel increment. Moving the wheel backwards decreases the zoom factor a half step. The zoom factor can range from 1 to 7. When the zoom factor is 1, zooming is off.

*Note that when an image is zoomed in (i.e. zoom factor is not 1), the viewing area cannot be dragged to another viewing area nor can a different camera be dropped into this viewing area.

When the mouse wheel is used to increase the zoom factor, the location of the mouse is important. As the zoom factor is increased, the point in the image where the mouse is centered will be stationary relative to the image viewing area. This gives the visual effect of zooming in on the position or object being pointed to.

4.9.5.2 *Image Panning*

When zooming is in effect, you can pan the image in order to show a different portion of the image in the image viewing area. One way to pan is to click in the image viewing area, press the left mouse button, and then drag the mouse. As this is done, the point in the image that is clicked on will follow the mouse and cause a different portion of the image to be shown. This will update the red rectangle in the thumbnail, moving it to show the part of the image in the viewer.

4.9.5.3 *Thumbnail image panning*

An alternative way to pan is to click the mouse in the zoom thumbnail image, press the left mouse button, and then drag the mouse. As this is done, the red rectangle will follow the mouse and cause a different portion of the image to be shown in the viewer.

4.9.5.4 *Thumbnail zoom slider control*

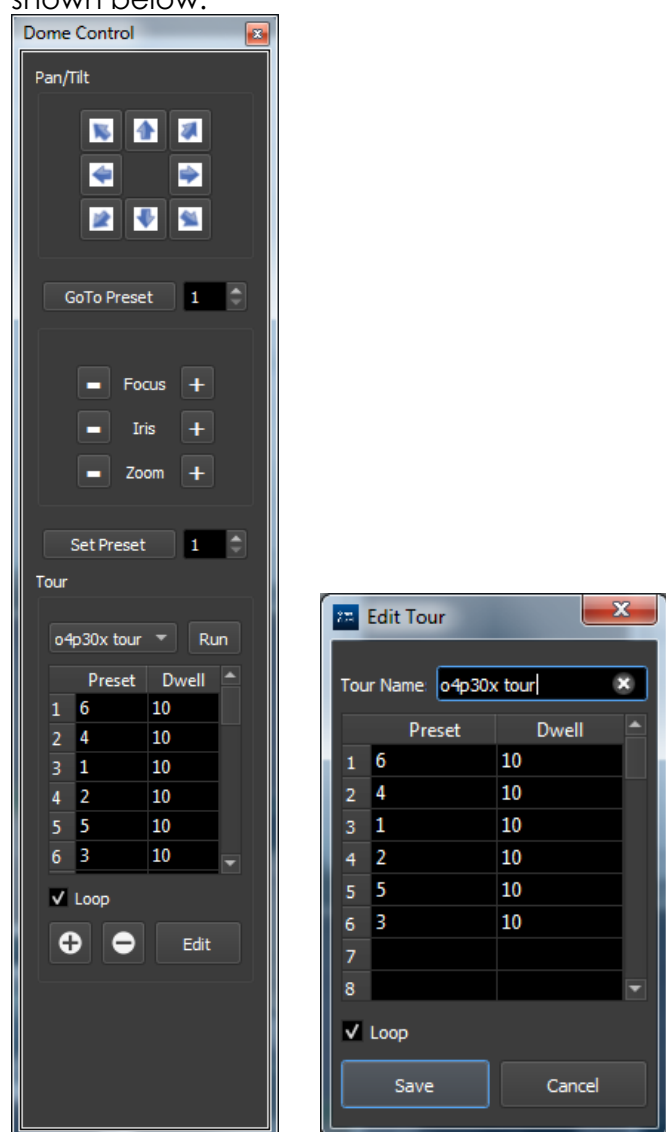
The slider control in the zoom thumbnail area of the control panel can be used to increase or decrease the zoom factor. When the slider is used, the "focus" or "stationary" point of the image may or may not be clearly defined. If the image viewer was made the active area through a mouse click on the viewing area, then the location of the mouse at the time of the click will be the image location centered on during zooming. If the active area was selected by clicking on a camera name in the control panel, then the center of that image will be used as the focus point.

4.9.6 Dome Control slider control

The Dome Control action is enabled if the associated camera has Pan-Tilt-Zoom (PTZ) capability. When this action is selected, the Dome Control Panel is opened and becomes visible.

4.9.6.1 Pan-Tilt-Zoom Controls

The content of the Pan Tilt Zoom (PTZ) panel depends on the capabilities of the actual camera and the site it is connected to. A sample of the dome control for a PTZ camera is shown below.



Dome Control

The following functions are available:

- Move the Camera: use the arrow buttons to move the camera in 8 different directions
- GoTo Preset: Command the camera to move to the previously defined preset number indicated.
- Focus: Update for Near (+) or Far (-) focus
- Iris: Open the Iris(+) or close the iris(-) for brightness
- Zoom: Magnify in (+) or out (-)
- Set Preset: Captures the current state of the camera position and saves the settings in the designated preset. The maximum number of preset is 32.
- Tour: Use the tour dropdown box to select a tour to edit or run. Tours can be defined on PTZ enabled sites with PTZ cameras to include DVRs, Hybrids, or NVRs sites with PTZ cameras connected. A tour allows the operator to command a camera to visit up to 99 presets and dwell at each preset for a custom defined number of seconds before continuing on to the next preset.
- Run: Run selected tour.
- +: Add a new tour.
- -: Delete the currently selected tour.
- Edit: Open Tour Edit dialog to edit selected tour.

4.9.6.2 *Tour Edit Dialog*

Use this dialog box to add a new tour or edit an existing tour. Select a preset and a dwell time defined in seconds for each preset. A preset must already be defined

- Preset: A predefined preset number (1-32).
- Dwell: The number of seconds to linger before continuing on to the next preset.
- Loop: When the last preset is reached, start over at the first preset.

4.9.6.3 *Pan Tilt Zoom Using the Mouse*

When the dome control is open and the current image is a PTZ-capable camera, the mouse may also be used to affect the camera position and settings.

When the mouse is in the viewing area, the mouse icon will reflect what area of the screen the mouse is in. For example, in the upper left corner, the mouse icon may point in the northwest direction. Pressing the mouse button will cause the camera to point northwest.

To zoom the camera, use the mouse wheel. This operates similar to the host-based zoom discussed earlier, but physically affects the camera - not just the image in the Viewer.

There is a "sweet" spot in the center of the image viewing area where double-click can be used for the quick zoom feature. Pressing the mouse in the sweet spot can also start a drag and drop of the camera image to move it to another viewing area.

When the dome control is open, use of the mouse wheel in the image viewer changes the zoom on the camera. When the dome control is not open, the mouse wheel controls the zoom factor as implemented in the Viewer.

4.9.7 Annotation Descriptions












Image annotations are selected in User Settings. The table below describes the use of color within SecureGuard® Client.

Image Annotation Color Chart

White	White text is used for images in live mode
Red	Red text is used for images in record mode
Green	Green text is used for images in playback mode
Zoom x	Zoom factor indication. The text is white, green, or red depending on the mode. The number after the x indicates the zoom factor. When the zoom factor is one, zoom is not on and no text is shown. The zoom factor can vary from 1 to 7 in half-step increments.

Visual indicators are also provided when viewing Live images to inform the user of event and recording states for individual cameras. Status icons will be shown in the upper right corner of the image pane as defined in the below.

Visual Indicator Chart

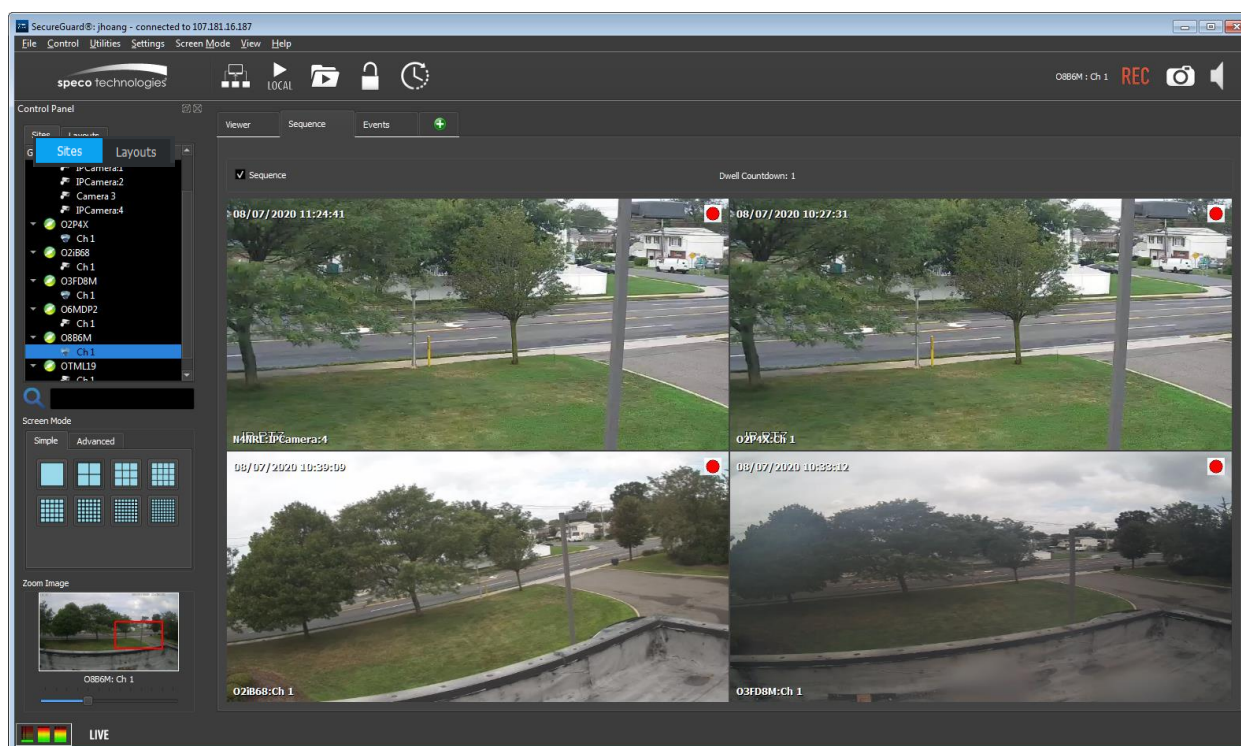
	Alarm event is being recorded
	Audio recording is ON
	Audio enabled
	Continuous recording is ON
	Motion event is being recorded
	User recording is ON
	Door Access recording is ON
	Door Access Denied recording is ON
	Door is in normal closed state
	Door has been opened by a valid Access Control User or manually by a SecureGuard Client User. Door will close on its own.
	Door is in <i>Extended Open</i> mode. Door will be left open until SecureGuard Client user locks door.



Door is in Lock down mode. Door cannot be opened by **any** Access Control user. SecureGuard user must change door back to normal mode.

4.9.8 Image Sequencing

Configuration of a sequence of images for viewing is accomplished in User Settings ->Sequence. The sequence can be run by selecting Screen Mode->Sequence, or by selecting the Sequence viewing tab on the Viewer and clicking the checkbox to begin. An example of an activated Sequence is shown below.



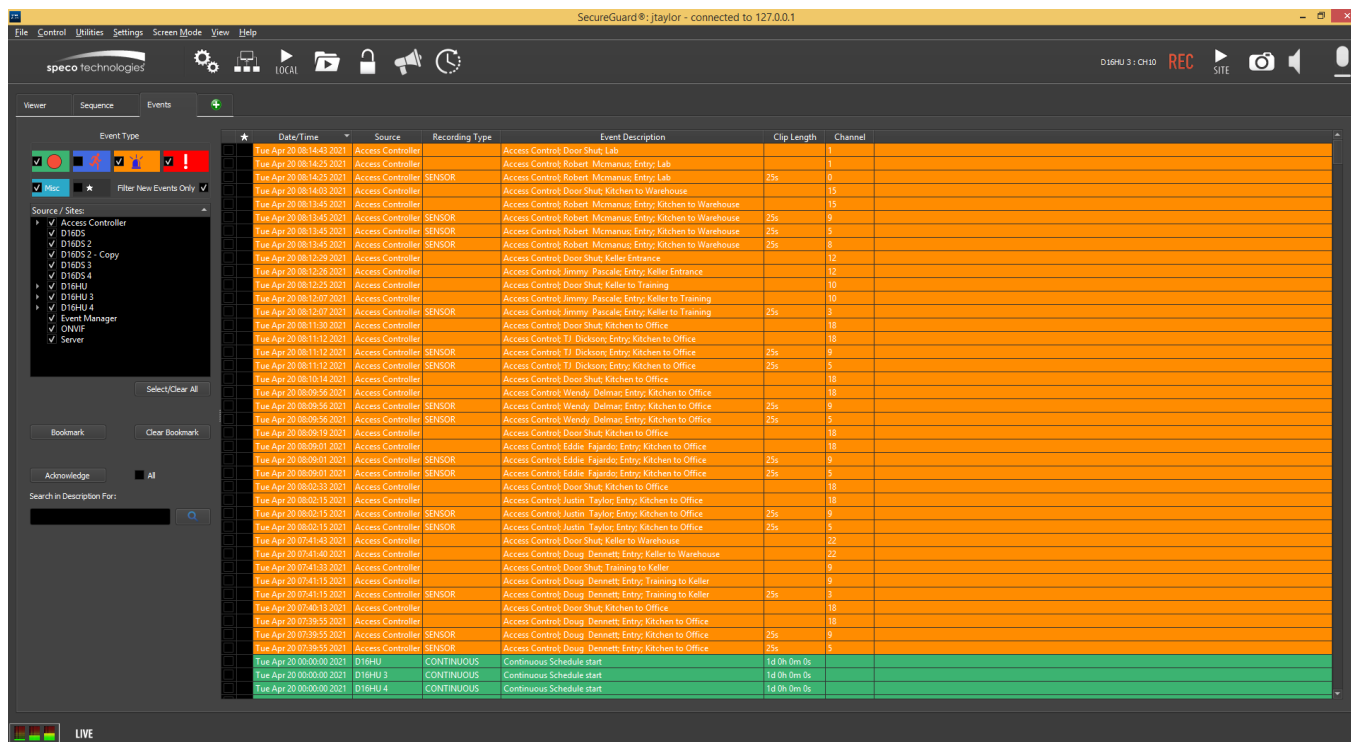
Active Sequence

The Sequence viewing tab provides a *Dwell Countdown* to show how many seconds are left to view the current page of images. The sequence can be stopped by unchecking the menu item Screen Mode->Sequence or the checkbox on the Sequence tab itself.

4.10 Real-time Event List

Access the Real-time Event List by selecting the Event viewing tab on the Viewer. This dynamic tool alerts operators to important alarms and events as they occur. Like the video viewing tabs, the Event tab can be dragged out of the main client window and onto a dedicated external monitor where alarms and events can always be in sight resulting in prompt action and response to incidents.

An example of the Real-time Event List is shown below.






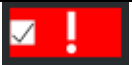
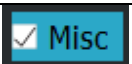

Date/Time	Source	Recording Type	Event Description	Clip Length	Channel
Tue Apr 20 08:14:43 2021	Access Controller		Access Control: Door Shut: Lab		1
Tue Apr 20 08:14:25 2021	Access Controller		Access Control: Robert McManus: Entry: Lab		1
Tue Apr 20 08:14:28 2021	Access Controller	SENSOR	Access Control: Robert McManus: Entry: Lab	25s	9
Tue Apr 20 08:14:03 2021	Access Controller		Access Control: Door Shut: Kitchen to Warehouse		15
Tue Apr 20 08:13:45 2021	Access Controller		Access Control: Robert McManus: Entry: Kitchen to Warehouse		15
Tue Apr 20 08:13:45 2021	Access Controller	SENSOR	Access Control: Robert McManus: Entry: Kitchen to Warehouse	25s	9
Tue Apr 20 08:13:45 2021	Access Controller	SENSOR	Access Control: Robert McManus: Entry: Kitchen to Warehouse	25s	5
Tue Apr 20 08:13:45 2021	Access Controller	SENSOR	Access Control: Robert McManus: Entry: Kitchen to Warehouse	25s	8
Tue Apr 20 08:12:29 2021	Access Controller		Access Control: Door Shut: Keller Entrance		12
Tue Apr 20 08:12:28 2021	Access Controller		Access Control: Jimmy Pascale: Entry: Keller Entrance		12
Tue Apr 20 08:12:25 2021	Access Controller		Access Control: Door Shut: Keller to Training		10
Tue Apr 20 08:12:07 2021	Access Controller		Access Control: Jimmy Pascale: Entry: Keller to Training		10
Tue Apr 20 08:12:07 2021	Access Controller	SENSOR	Access Control: Jimmy Pascale: Entry: Keller to Training	25s	9
Tue Apr 20 08:11:30 2021	Access Controller		Access Control: Door Shut: Kitchen to Office		18
Tue Apr 20 08:11:12 2021	Access Controller		Access Control: TJ Dickson: Entry: Kitchen to Office		18
Tue Apr 20 08:11:12 2021	Access Controller	SENSOR	Access Control: TJ Dickson: Entry: Kitchen to Office	25s	9
Tue Apr 20 08:10:51 2021	Access Controller	SENSOR	Access Control: TJ Dickson: Entry: Kitchen to Office	25s	5
Tue Apr 20 08:10:14 2021	Access Controller		Access Control: Door Shut: Kitchen to Office		18
Tue Apr 20 08:09:56 2021	Access Controller		Access Control: Wendy Delmar: Entry: Kitchen to Office		18
Tue Apr 20 08:09:56 2021	Access Controller	SENSOR	Access Control: Wendy Delmar: Entry: Kitchen to Office	25s	9
Tue Apr 20 08:09:56 2021	Access Controller	SENSOR	Access Control: Wendy Delmar: Entry: Kitchen to Office	25s	5
Tue Apr 20 08:09:19 2021	Access Controller		Access Control: Door Shut: Kitchen to Office		18
Tue Apr 20 08:09:01 2021	Access Controller		Access Control: Eddie Fajardo: Entry: Kitchen to Office		18
Tue Apr 20 08:09:01 2021	Access Controller	SENSOR	Access Control: Eddie Fajardo: Entry: Kitchen to Office	25s	9
Tue Apr 20 08:09:01 2021	Access Controller	SENSOR	Access Control: Eddie Fajardo: Entry: Kitchen to Office	25s	5
Tue Apr 20 08:02:33 2021	Access Controller		Access Control: Door Shut: Kitchen to Office		18
Tue Apr 20 08:02:15 2021	Access Controller		Access Control: Justin Taylor: Entry: Kitchen to Office		18
Tue Apr 20 08:02:15 2021	Access Controller	SENSOR	Access Control: Justin Taylor: Entry: Kitchen to Office	25s	9
Tue Apr 20 08:02:15 2021	Access Controller	SENSOR	Access Control: Justin Taylor: Entry: Kitchen to Office	25s	5
Tue Apr 20 07:41:40 2021	Access Controller		Access Control: Door Shut: Keller to Warehouse		22
Tue Apr 20 07:41:40 2021	Access Controller		Access Control: Doug Dennett: Entry: Keller to Warehouse		22
Tue Apr 20 07:41:33 2021	Access Controller		Access Control: Door Shut: Training to Keller		9
Tue Apr 20 07:41:15 2021	Access Controller		Access Control: Doug Dennett: Entry: Training to Keller		9
Tue Apr 20 07:40:19 2021	Access Controller	SENSOR	Access Control: Doug Dennett: Entry: Training to Keller	25s	9
Tue Apr 20 07:40:13 2021	Access Controller		Access Control: Door Shut: Kitchen to Office		18
Tue Apr 20 07:39:55 2021	Access Controller		Access Control: Doug Dennett: Entry: Kitchen to Office		18
Tue Apr 20 07:39:55 2021	Access Controller	SENSOR	Access Control: Doug Dennett: Entry: Kitchen to Office	25s	9
Tue Apr 20 07:39:55 2021	Access Controller	SENSOR	Access Control: Doug Dennett: Entry: Kitchen to Office	25s	5
Tue Apr 20 00:00:00 2021	D16HJ 3	CONTINUOUS	Continuous Schedule start	1d 0h 0m 0s	
Tue Apr 20 00:00:00 2021	D16HJ 3	CONTINUOUS	Continuous Schedule start	1d 0h 0m 0s	
Tue Apr 20 00:00:00 2021	D16HJ 4	CONTINUOUS	Continuous Schedule start	1d 0h 0m 0s	

Real-time Event List

4.10.1 Event Types

By default, new events appears at the top of the list as they come in. The different types of events are highlighted in the same color codes as they were set up in recording schedules (See Schedule Configuration under the SecureGuard Configuration Tool section of this manual). As the event list grows, there will be a need to filter on the types of events in order to find events of interests quicker. There are 5 types of event filters and one bookmark filter.

Event Filters

	Show/hide continuous events
	Show/hide motion events
	Show/hide sensor events originating from a device's dry contact, gunshot detection systems, access control doors, and License Plate captures
	Show/hide user triggered events such manual recordings and panic buttons.
	Show/hide system events
	Show/hide bookmarked events. This is an exclusive filter that disables all other filters so that all events that are bookmarked are shown.

4.10.2 Source/Site Tree

The Souce and Site Tree Panel within the Event viewing tab allows the operator to filter by devices. Note that Source/Site tree may not match the SecureGuard Client's site tree because only sites that have events in the Real-time Event List will appear here. Check or uncheck a sites on the tree to show/hide events belonging to those sites.

4.10.3 Bookmarking Events

Click on the Bookmark button to bookmark the selected event or all checked events. Bookmarked events are indicated with a star next to its checkbox. Bookmarked events are saved and the bookmark will not clear until the operator clears it by selecting it and clicking on the Clear Bookmark button. Bookmark events for faster retrieval of important events.

4.10.4 Acknowledging Events

The ability to acknowledge an event allows the operator to indicate the resolution of the incident that caused the event. Acknowledged events are shown without highlighted colors. Click the Acknowledge button to acknowledge one or more checked event. Check the Select All checkbox and then click the Acknowledge button to acknowledge all events in the list.

4.10.5 Search in Description For:

Filter the real time event list by entering a keyword from an event's description such as:

- Access Control Username
- Access Control Door name
- License Plate Number
- SecureGuard Client Username

4.10.6 Event Data

Each column in the table below is a data about the event:

Event Data

Date/Time	The date and time in which SecureGuard received notification of an event.
Source	The origin of the event. This field will indicate a user if the event was a user triggered event such as manual record or pressing the panic button.
Recording Type	Indicates the type of recording which are of type continuous, motion, sensor or user triggered. If a recording type is not specified then there were no recordings associated with the event due the SecureGuard has already started recording from a previous similar event of the same source. If the recording type is not blank, double click on the event to playback the recorded video.
Event Description	Additional details about the event (If any).
Duration	The event is associated with a recorded clip and the duration of the clip is shown in this field.
Channel	If the event originated from a DVR or NVR, the channel of that device is shown here.

4.11 Two-Way Audio

The Two-Way Audio feature of SecureGuard® provides the ability to send audio to a single site or multiple sites simultaneously. Users may transmit live audio or play pre-recorded audio files (known as paging files) residing on the server.

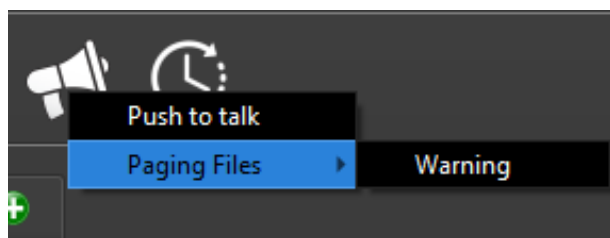
Audio is output on a per-site basis, not per channel. Therefore a multi-channel site like a DVR will have one audio output.

Two-way Audio sites must be pre-configured with *Audio to Site* (audio output) enabled in the Configuration Tool for access to this feature.

4.11.1 Broadcast to Multiple Sites

Users with Broadcast permission may create a broadcast group within each display group to send live audio or play pre-recorded messages. Configure a list of sites for broadcast using the User Settings / Audio tab. Pre-recorded messages are imported into SecureGuard® using the Files tab of the Configuration Tool.

Click the Broadcast button of the Toolbar to begin. To choose an audio message to play, select *Paging Files* and a file description.



Broadcasting a Pre-Recorded Message

Once initiated, the message must play to completion. Only connected sites in the broadcast group will hear the pre-recorded message. The button will change appearance while the message is playing and return to normal appearance when complete.

To send live audio to a group of sites, click *Push To Talk*. Configuration of the input device (often a microphone) is done in User Settings / Audio tab. A microphone button will appear on a pop-up window of the display. To transmit audio to the broadcast sites, **click and hold** the button down while talking into the input device. If the microphone button does not change appearance when clicked, make sure an audio input source has been assigned.

To hear a response from someone at the site, release the button. Make sure that "Listen to Audio" is turned on in the client application for this site. The site must also be configured with "Audio from Site" enabled. When finished, close the Microphone pop-up.

4.11.2 Single Site Audio

Pre-recorded files and live audio may also be sent to single sites selected on the Viewer Panel.

Click on the desired site then click the microphone button on the far right of the tool bar to begin.



Single Site Audio

Push to Talk and the sending of pre-recorded audio files work the same as described in the previous section. To transmit audio to the selected site, **click and hold** the button down while talking into the input device. Only the selected site will hear audio when invoked in this manner. When finished, close the Microphone pop-up.

Single Site Audio is also accessible via the Camera Context Menu if the camera's audio output is enabled in the Configuration Tool.

4.12 Snapshot

To take a snapshot of an image, select the desired view pane and then click the Snapshot button on the tool bar. This function is also available on the camera context-menu. When a snapshot is taken, the image will be stored in the location defined in User Settings / File paths.

4.13 Recording Images

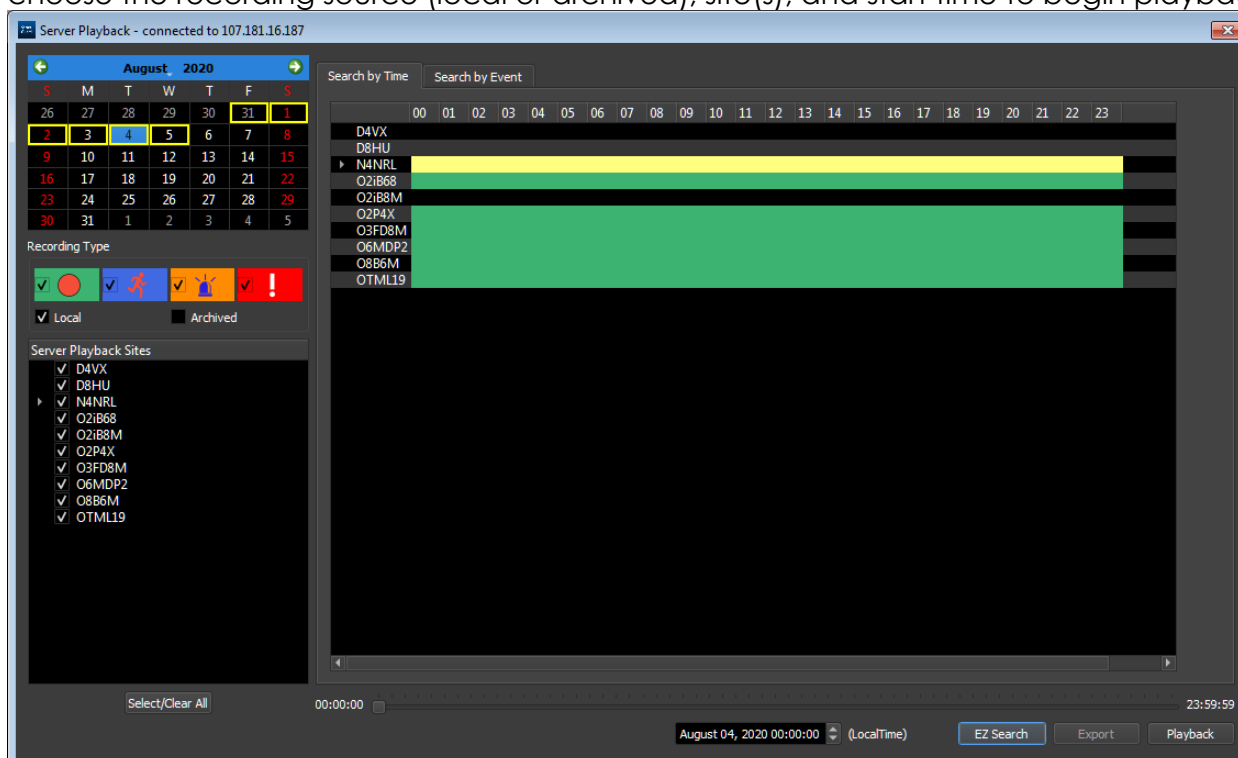
Images are recorded in two ways: through Scheduled recording set up in the Configuration Tool and through User Recording, initiated by use of the Record capability when a site is streaming Live images. User Recording will change the display text to red and add a manual recording annotation to the upper right corner of the viewing area. To discontinue User recording, press the flashing Record button again.



Manual Recording Mode

4.14 Playing Local or Archived Recordings

To play previously recorded or archived images, select the Control->PC Playback action or use the Local Playback button on the toolbar. The Playback dialog will be presented to choose the recording source (local or archived), site(s), and start time to begin playback.



Local Playback (Search by Time)

The calendar days highlighted in yellow indicate those that have available recordings. (The selected day is shown with a gray background.) Click to select another date if desired. The tabbed display on the right shows the recordings available for the day chosen. Use the slider bar at the bottom to pick a Start Time for the group or use the entry box to fine-tune the start time for precision that may be difficult to control with the slider. Users may also click within the time grid itself to select a time and site of interest.

4.14.2 Recording Type

Filter the list of recording results that are shown by checking any of the available types:

- Continuous
- Motion
- Sensor
- User

The first three options are recordings managed by the Schedule function of the Configuration Tool. *User* recordings are events recorded manually by any user through use of the Record function within the SecureGuard® Client. The color Yellow is used on the display when recordings for multiple channels are available, or the recording type is Unknown.

In addition, recordings can be played back from local or archived locations by checking the appropriate box.

4.14.3 Site Selection

The current group is shown in the tree on the left. Use the checkboxes here to filter the site and channel data that will be provided in the *Search by Time* and *Search by Event* tabbed displays at right. The *Select/Clear All* button can be used for group actions. The site(s) selected will be the ones shown during Playback.

When Playback is active, the site(s) show recorded images in a special layout. The text annotations will be in Green text to indicate playback mode. Additional playback control buttons will be shown in the Status bar.

4.14.4 Search Types

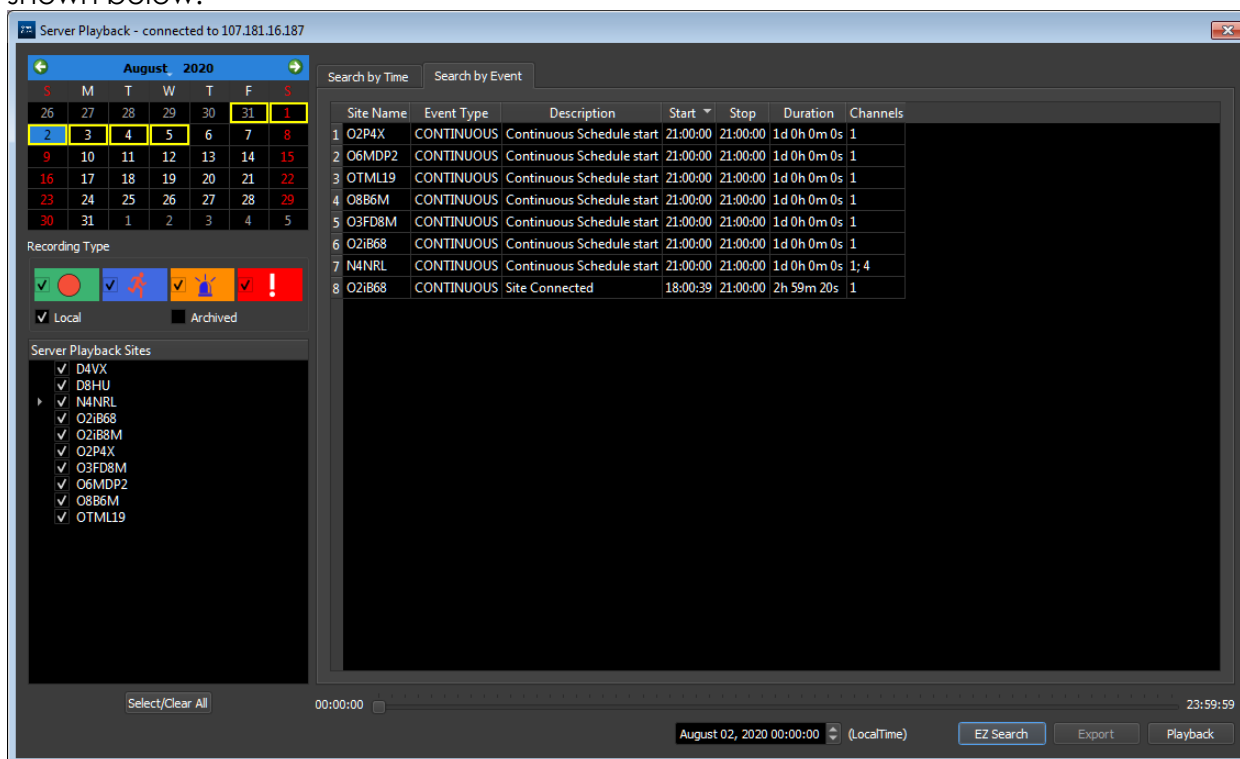
There are three ways to search for recordings and select a start time for Playback. These are described below. The tabbed views of the recording data can be filtered based on Recording Type and desired Sites, which are checked in the list along the left part of the display. All selected sites will be viewed when going into Playback.

4.14.4.1 Time Based Search

Upon initialization, a color-coded time grid will be shown to the right of the Playback Sites list, indicating which hour-blocks contain recordings (see above). Sites and channels are provided according to user selections in the tree on the left. Click on an Hour or a cell in the time grid to set playback start time to the nearest hour. Press *Playback* to begin viewing recordings. Video will begin playing with the first available recording(s) on or after the time selected.

4.14.4.2 Event Based Search

Specific recordings may also be located by clicking the *Search by Event* tab to see a list of recorded events for the selected sites on the given day. An example of this format is shown below.



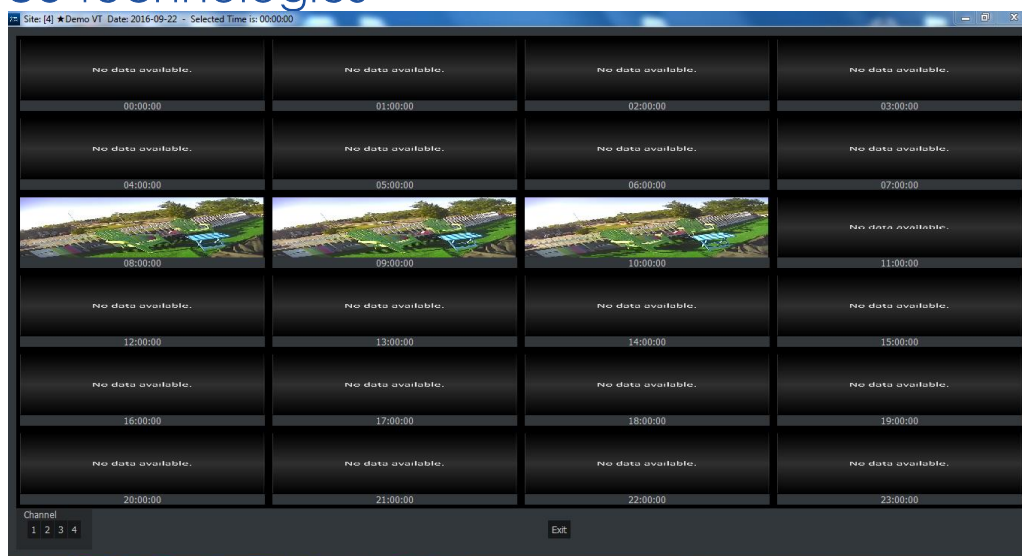
Playback Dialog (Search by Event)

Each column of data may be sorted by clicking the column header. Single-click on an Event to use the event's Start time as the playback start time for all Sites; Choose the sites/channels from the Playback Site list and press *Playback* to continue, or double-click on an Event to go directly into Playback mode.

4.14.4.3 EZ Search

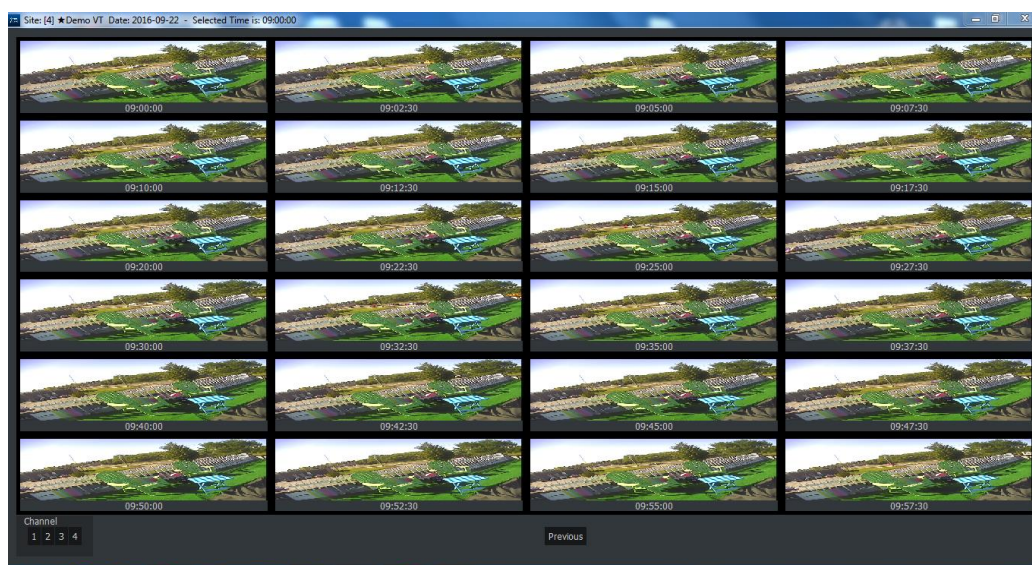
A powerful tool within SecureGuard® is the ability to search an array of snapshots occurring over a period of time to find an exact time to begin Playback. This function can be accessed from both the *Search by Time* and *Search by Event* tabs. Within the *Search by Time* tab, select the Site you wish to EZ Search in. When using the *Search by Events* tab, click on the Event listed and the Site will be selected for you.

The first dialog presented in EZ Search will show one snapshot from each hour of the 24 hour day. This is used to narrow in on the general time of interest. An example of the 24-hour time grid is shown below.



EZ Search 24-Hour Selection Grid

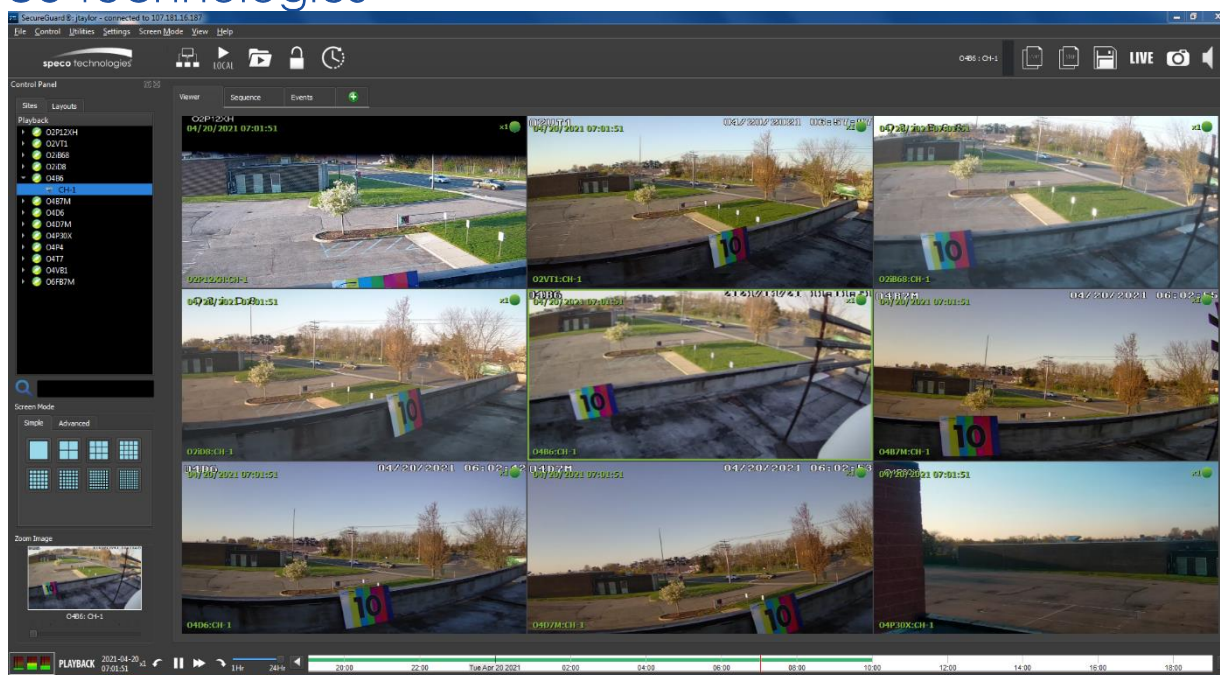
Double click an image to expand a single hour into 2 ½ minute snapshots, shown below.



EZ Search 2.5 Minute Selection Grid

Double click on the desired frame to set the Playback Start Time to this timestamp and begin Playback.

An example of the Client performing multi-site Playback is shown in the annotated figure below.



Playback Mode

Once a camera view has been selected, a multi-functional control panel will appear at the bottom of the display to provide finer grain controls for playback.

Features of the playback dialog are as follows:

- Jump Back/Jump Ahead – Jump all recordings back/ahead 1 minute
- Play/Pause – Play or Pause the recordings
- Fast Forward – Increase playback speed, up to 32x.
- Time Span – Use the slider bar to adjust the granularity of the time grid shown on the right
- Jump to Last/Next Recording file – changes the current playback time to jump to last/next recording file; This feature is helpful when playing back short recordings which typically occur with Motion and Sensor triggered activity

The user may also use the cursor to drag the time grid under the Current Playback Time, effectively selecting the playback time on the fly, graphically. Although the time grid provides recording detail for only the selected site, changing the current playback time affects **all** sites shown in the playback layout.

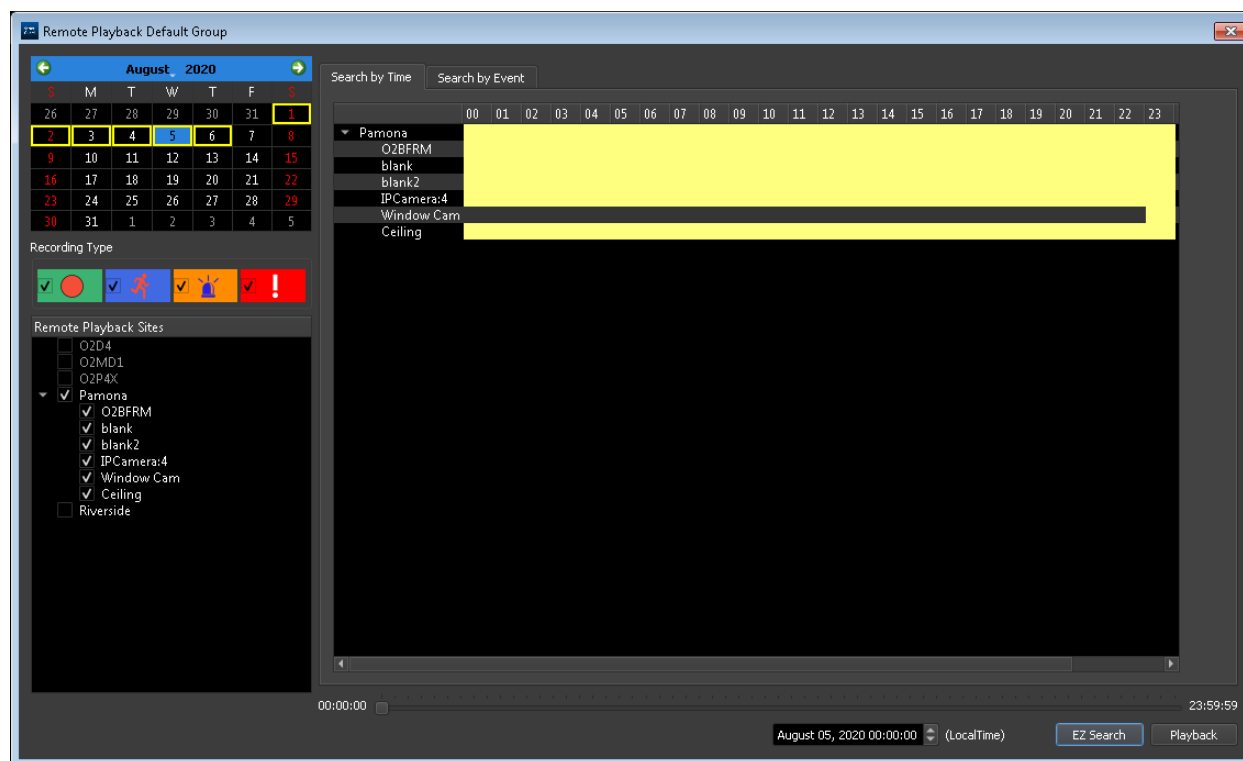
When Playback is complete, click the Live icon to return to live video. Alternatively, click the PC Playback icon to find another recording for Playback.

4.14.5 Event Export

On the Event search tab, an *Export* button is provided as a shortcut to this function. To select multiple events, hold down the "Ctrl" key of the keyboard while clicking to create a list of items. See the section titled *Exporting Recordings* later in Section 5 for more details.

4.15 Playing Video Recorded Remotely


DVR, NVR, and IP camera sites may have the capability to make local recordings separate from those of the Schedule manager. When the Control->Remote Playback or the Playback button on the toolbar is selected, the dialog below is shown. This dialog is used to select a time to start playing back video that has been recorded at the site.



Remote Playback (Search by Time)

The current group is shown in the tree on the left. Use this tree to filter the site and channel data that will be provided in the tabbed display at right. For Remote Playback, only one site may be selected at a time. Select the site to use as the source for remote playback by clicking the box next to it. The EZ Search button can be used to refine start time by exploring recordings on individual channels.

The Search by Event tab for Remote Playback contains any recording metadata that can be extracted from the site itself.



Remote Playback Default Group

August, 2020

Recording Type

Remote Playback Sites

- ☐ O2D4
- ☐ O2MD1
- ☐ O2P4X
- ☒ Pamona
 - ☒ O2BFRM
 - ☒ blank
 - ☒ blank2
 - ☒ IPCamera:4
 - ☒ Window Cam
 - ☒ Ceiling
 - ☐ Riverside

Search by Time Search by Event

	Site Name	Event Type	Description	Start	Stop	Duration	Channels
1	Pamona	CONTINUOUS		23:59:25	23:59:51	26s	5
2	Pamona	MOTION		23:59:25	23:59:51	26s	5
3	Pamona	MOTION		23:58:47	23:59:17	30s	5
4	Pamona	CONTINUOUS		23:58:43	23:59:17	34s	5
5	Pamona	CONTINUOUS		23:58:11	23:58:35	24s	5
6	Pamona	MOTION		23:58:11	23:58:12	1s	5
7	Pamona	MOTION		23:57:32	23:58:01	29s	5
8	Pamona	CONTINUOUS		23:57:24	23:58:01	37s	5
9	Pamona	CONTINUOUS		23:56:38	23:57:16	38s	5
10	Pamona	MOTION		23:56:38	23:56:54	16s	5
11	Pamona	CONTINUOUS		23:56:06	23:56:30	24s	5
12	Pamona	MOTION		23:56:06	23:56:30	24s	5
13	Pamona	CONTINUOUS		23:54:55	23:55:57	1m 2s	5
14	Pamona	MOTION		23:54:55	23:55:33	38s	5
15	Pamona	MOTION		23:54:20	23:54:47	27s	5
16	Pamona	CONTINUOUS		23:54:16	23:54:47	31s	5
17	Pamona	CONTINUOUS		23:53:42	23:54:08	26s	5
18	Pamona	MOTION		23:53:42	23:53:45	3s	5
19	Pamona	CONTINUOUS		23:53:09	23:53:35	26s	5
20	Pamona	MOTION		23:53:09	23:53:35	26s	5
21	Pamona	CONTINUOUS		23:52:36	23:53:01	25s	5
22	Pamona	MOTION		23:52:36	23:52:38	2s	5
23	Pamona	MOTION		23:52:00	23:52:28	28s	5
24	Pamona	CONTINUOUS		23:51:45	23:52:28	43s	5
25	Pamona	CONTINUOUS		23:50:57	23:51:36	39s	5

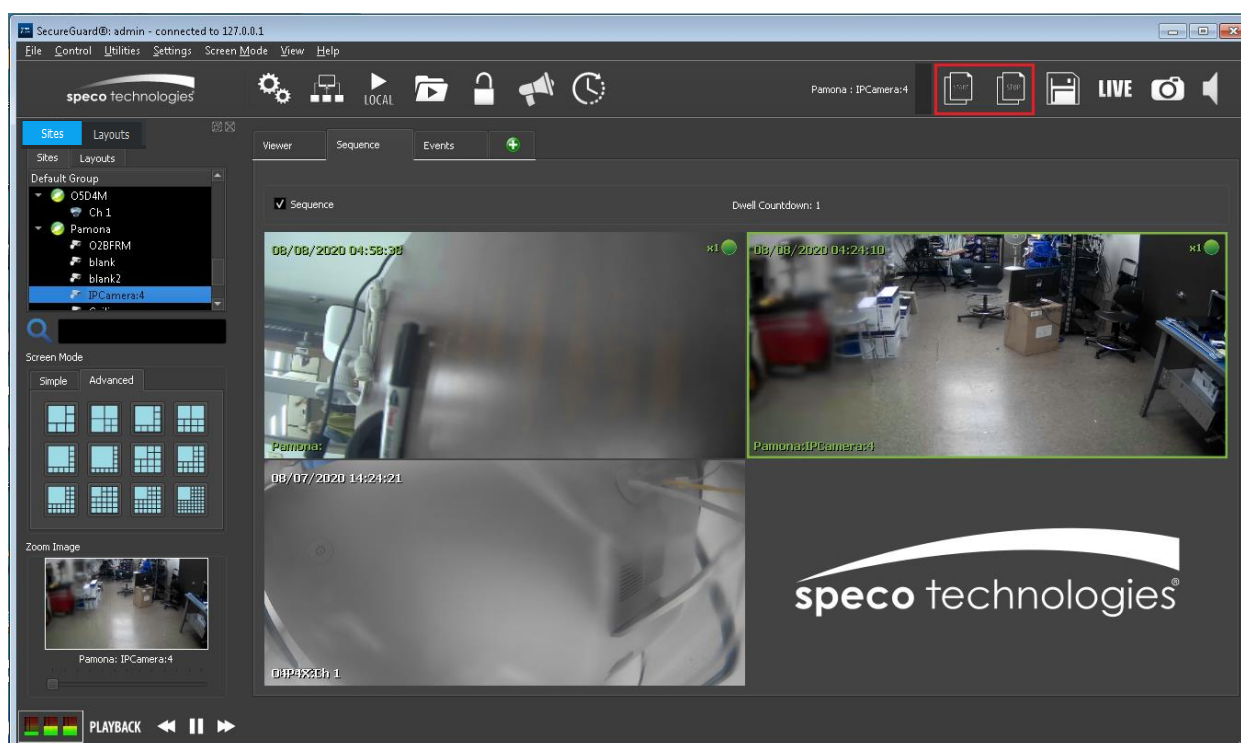
00:00:00 23:59:59

August 05, 2020 00:00:00 (LocalTime) EZ Search Playback

Remote Playback (Search by Event)




4.16 Exporting Recordings

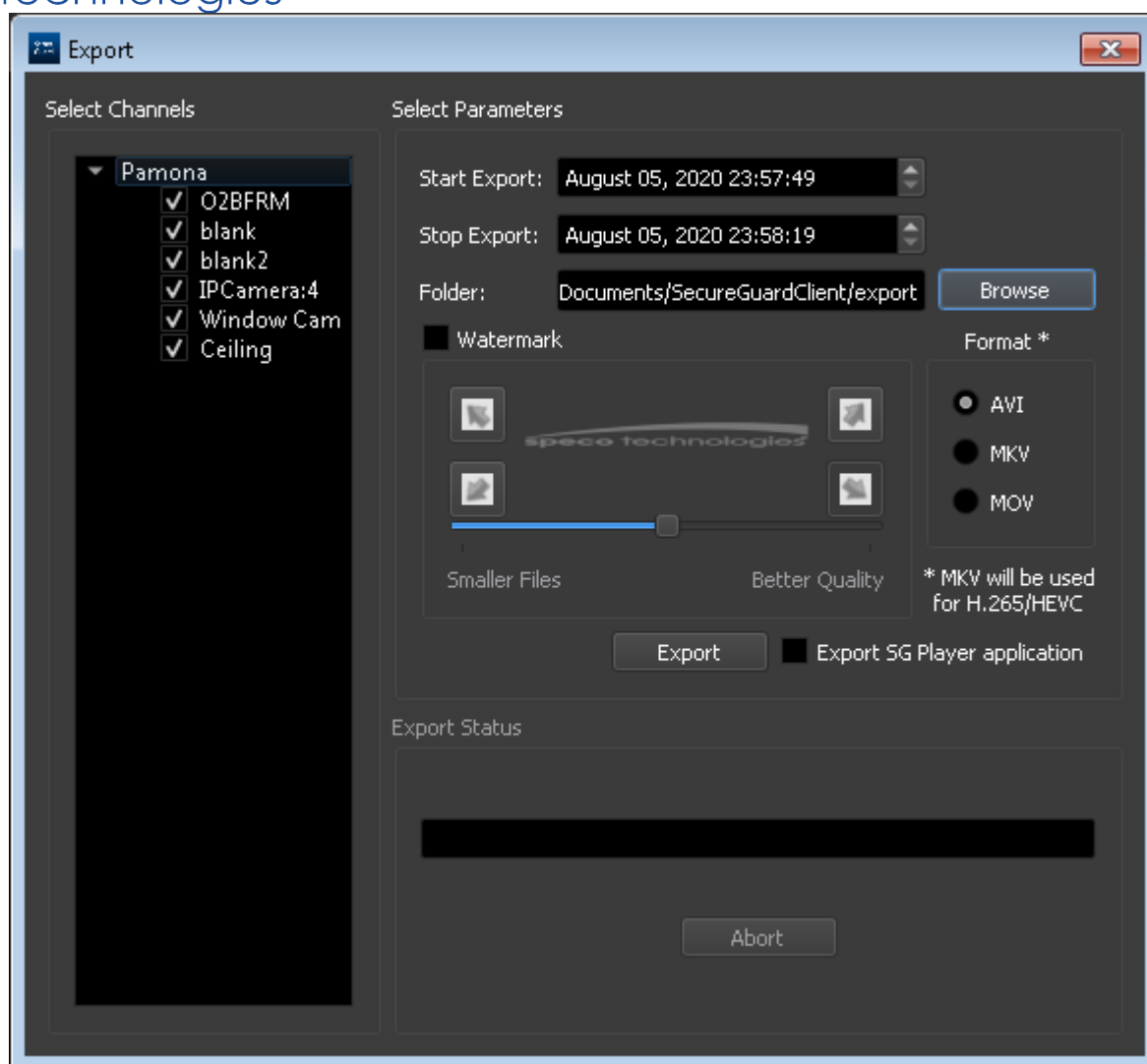
When in Playback mode, users can Export recordings from the system. Controls for this feature will appear on the right side of the main tool bar after clicking a video in Playback mode. These controls are circled in red in the figure below.



Export Controls

While the video plays, users review the images and select start and end times for the segment that will be exported. The buttons provided on the tool bar function as follows:

-  selects a Start time
-  selects a Stop time
-  launches the Export dialog shown below



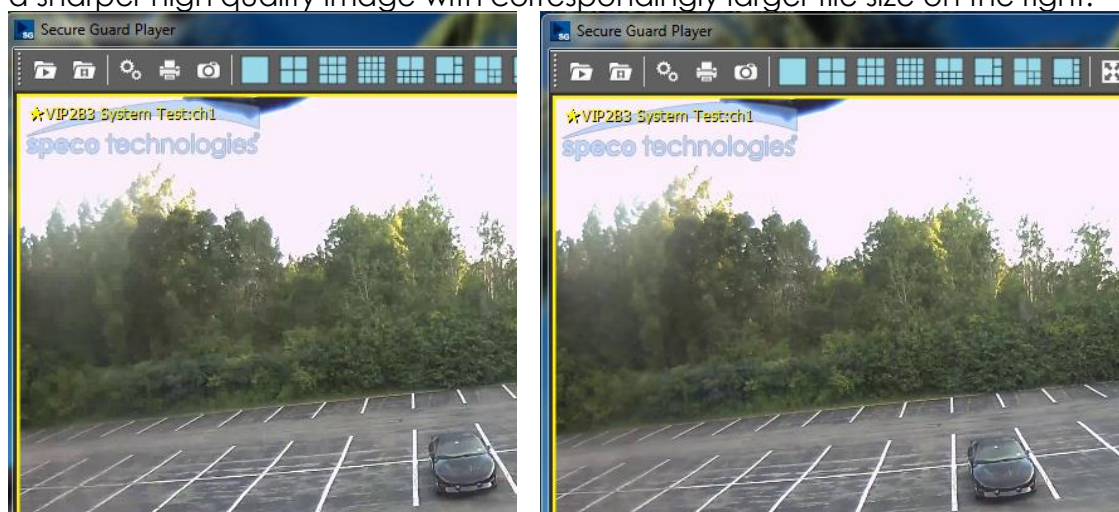
Export Dialog

Adjust start and end times as needed. Browse to select a destination folder, or use the default location selected in the User Settings dialog. Select the file format from the options provided and click *Export* to begin the operation.

4.16.1 Watermarking

Watermarking exported video gives simple assurance of a video's integrity. To enable this feature, click the **Watermark** box and select a corner of the frame where the background image will be applied. Depending on the size of the file, addition of a watermark may add to the amount of time needed for the export.

When watermarking, the exported video will be re-encoded to include a background image. Depending on the length of the video and number of files selected, the resulting exports may require longer processing time or exceed the capacity of the destination. Use the watermark slider to calibrate the sharpness of the final image against the desired file size. An example below shows a lower quality image with a smaller file size on the left, and a sharper high quality image with correspondingly larger file size on the right.



Watermark Quality Example

4.16.2 Concurrent Export of Multiple Sites

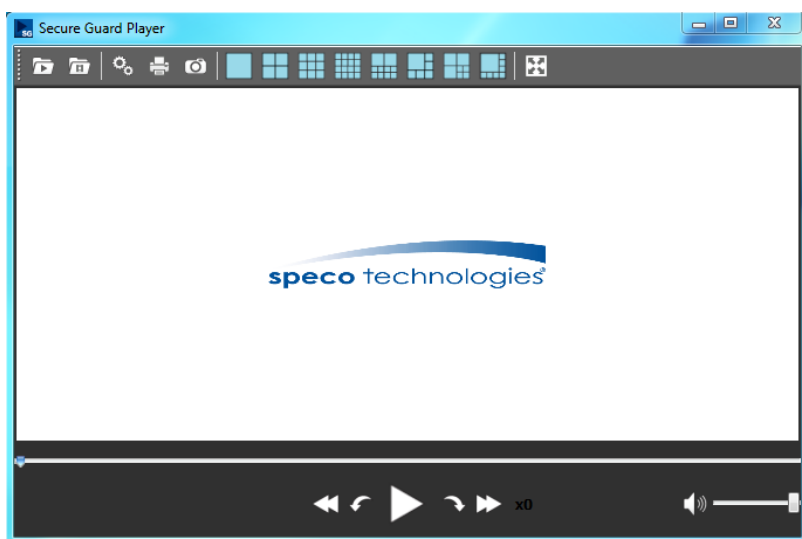
When multiple events are identified for export, a button is provided on the Event Based Search tab to enable these to be exported as a group. Hold down the "Ctrl" key of the keyboard while clicking various events to create a list of the sites to be exported. Press the Export button.

When exporting, a status bar will appear for each video exported, with the site and channel information for the export shown in the Select Channels pane.

4.17 Playing Exported Recordings






Once video is exported, SecureGuard® has its own video player to view saved recordings offline. To access this feature, select the **SecureGuard Player** application from the options

shown under Speco Technologies/ SecureGuard® in your program menu or click the  button on the tool bar. Users may also navigate to the default location for exported video defined in User Settings / File Paths and launch the player by right-clicking and selecting “Open With” .



Launching the SecureGuard Player








Select **Open Export**. Folders shown are named using Site Name and export time. Find the desired video and click to open the folder. Open the **.mst** file shown to load all cameras recorded at the device for simultaneous play. To review video from individual cameras, select **Open File** from the toolbar and choose from the files shown. Additional controls along the toolbar are as follows:

-  Settings –Set the destination folder for image snapshots here.
-  Print – Abilities to copy and print images are provided.
-  Snapshot – Save a snapshot of the current video.
-  Layouts – As with the SecureGuard® application, assorted layout options are provided.
-  Full Screen – Show the player in full screen mode.



SecureGuard® Player

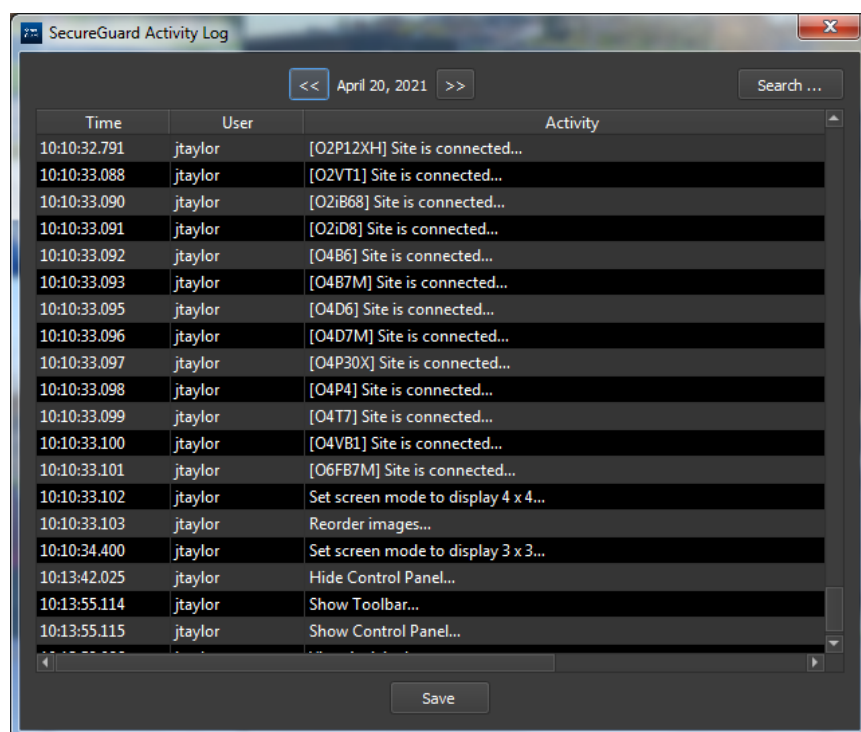
Use the playback control buttons to review the exported video:

-  will rewind the video in x2 increments
-  causes the currently playing video to *Jump Back* in 1-minute increments
-  *Pause* the video. When the site is paused, this button becomes the *Play* button
-  *Play* the video at normal speed.
-  causes the currently playing video to *Jump Forward* in 1-minute increments
-  will increase the playback speed of the video in x2 increments
-  if audio has been recorded, this button will provide volume control for the selected image.

The Help About box shows the version and build date of the product. A separate page displays the license and copyright information for Qt.

4.19 Activity Log

An activity log is kept to record high-level actions that affect the SecureGuard® configuration or the settings on a particular IP camera, DVR, or NVR. The log can be viewed to review recent activity. The activity log can be viewed by using View-> Activity Log from the main menu. This brings up a modal dialog box as shown below.



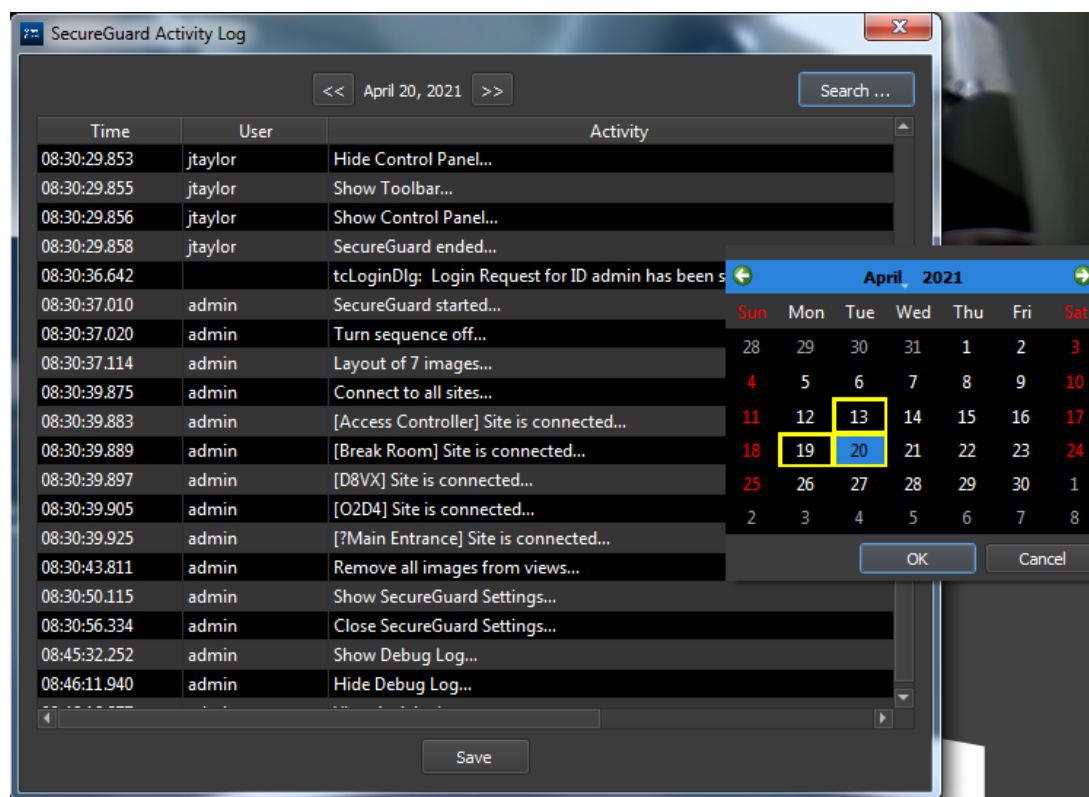
Activity Log

The columns shown include the following information:

1. Time: This is the clock time to the nearest millisecond.
2. User: This is the name of the logged in user and the name of the *instance* being used at the time.
3. Activity: This is a brief description of the activity being logged.

Initially, the log shows the most recent activity. It is possible to browse to other days and see activity from previous sessions. The following navigation operations are available:

1. Press the Save button to save the activity for this day to a file of your choosing.
2. Press the << button to show the activity on the day previous to the day being shown.
3. Press the >> button to show the activity on the day after the day being shown.
4. Press the Search button to show a calendar that can be used to browse to a particular day of activity. An example is shown below.

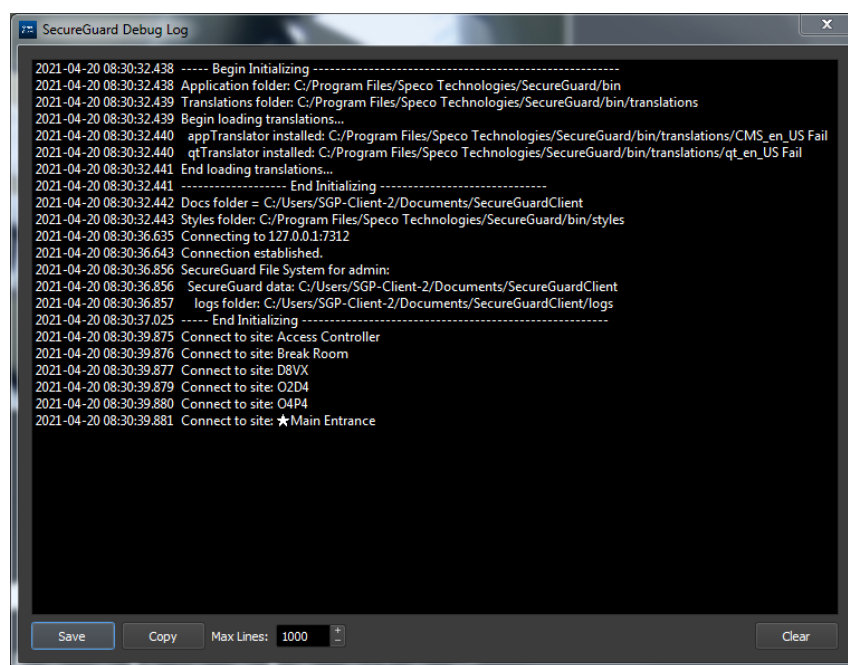


Activity Log with Date Selection

The available controls are:

1. <- to move to the previous month.
2. -> to move to the next month.
3. The dates highlighted in yellow are dates on which activity has been logged.
4. The shaded day indicates the currently selected day.
5. Pressing the arrow by the name of the month causes a drop-down list with all the month names to be shown to allow selection of the desired month.
6. Pressing the year causes the year to become a spin-box control such that the year can be increased or decreased, as shown below.
7. Press the Cancel button to keep the originally chosen date.
8. Press the OK button to switch to the newly chosen date.

The Debug Log records low-level information regarding operation of the SecureGuard® Client application. This information may be useful in different support scenarios. The log can be viewed by selecting View->Show Debug Log from the main menu. When the log is being shown, the menu item will be Hide Debug Log instead of Show Debug Log. An example is shown below.



Debug Log

This window is not modal, so you can open the dialog and leave it up while you do other activities. Unlike the activity log, this information is not kept across sessions. The information in the view contains the following columns:

1. Date and time. The time is shown in milliseconds.
2. Information. Each line will identify the action being logged. The lines are usually about low-level communications with a DVR, NVR, or IP camera. They can also be status lines in general.

The buttons and actions available in the dialog box include:

1. Save. The contents of the debug log window can be saved to a text file.
2. Copy. The contents of the debug log window can be copied to the clipboard.
3. Max lines. The maximum number of lines to show in the debug log can be changed from the default of 1000.
4. Clear. Pressing the clear button clears the debug log.

Close. Pressing the x icon or selecting View->Hide Debug Log causes the debug log view to close and not be visible anymore. Log messages continue to be logged and can be viewed at a later