

Avigilon Control Center Server User Guide

Version 5.0.2

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Introduction

What is the Avigilon Control Center Server?

The Avigilon Control Center Server software is the application that captures and records surveillance data from network cameras and encoders. The captured data is then sent to the Avigilon Control Center Client software for you to review.

The Avigilon Control Center Server software contains two key parts — the Control Center Server Windows service and the Admin Tool. The Control Center Server Windows service directs video to where it needs to be stored or streamed in the network. While the Admin Tool is the interface that allows you to configure the Control Center Server's administrative settings.

There are three editions of the Server software available: Core, Standard and Enterprise. The edition of the Server software determines how many cameras can be connected to the system and the number of simultaneous client connections. The edition of the Server software also determines what features are available in the Avigilon Control Center Client software. Visit the Avigilon website for an overview of the features available with each edition license: http://avigilon.com/products/avigilon-control-center/editions/

System Requirements

Recording capacity:	32MB/s Up to 128 cameras *Remote viewing only.	10MB/s Up to 64 cameras *Can view live and recorded images locally
OS	 Windows XP SP2, Windows XP SP2 x64, Windows Vista 32-bit or 64-bit, Windows Server 2003 SP2, Windows Server 2008, Windows 7, Windows 8 or Windows Server 2012. A 64-bit operating system is recommended 	Windows XP SP2, Windows XP SP2 x64, Windows Vista 32-bit or 64-bit, Windows Server 2003 SP2, Windows Server 2008, Windows 7, Windows 8 64-bit or Windows Server 2012 64-bit

CPU	Intel Quad Core Xeon 2.0 GHz processor	Intel Quad Core Xeon 2.0 GHz processor
System RAM	4 GB DDR2	2 GB DDR2
Video card	n/a	nVidia Quadro FX 570 dual DVI
Network card	1 Gbps Intel Pro/1000 or Broadcom NetXtreme II Server Adapters	1 Gbps
Hard drives	SATA-II 7200 RPM Enterprise Class Hard Drives	SATA-II 7200 RPM Hard Drives

For More Information

Visit Avigilon at http://www.avigilon.com/ for additional product documentation.

Avigilon Training Center

The Avigilon Training Center provides free online training videos that demonstrate how to set up and use the Avigilon Surveillance System. Register online at the Avigilon Partner Portal site to begin: http://avigilon.force.com/login

<u>Support</u>

For additional support information, visit <u>http://avigilon.com/support-and-downloads/</u>. The Avigilon Partner Portal also provides self-directed support resources - register and login at <u>http://avigilon.force.com/login</u>.

Regular Avigilon Technical Support is available Monday to Friday from 12:00 a.m. to 6:00 p.m. Pacific Standard Time (PST):

- North America: +1.888.281.5182 option 1
- International: +800.4567.8988 or +1.604.629.5182 option 1

Emergency Technical Support is available 24/7:

North America: +1.888.281.5182 option 1 then dial 9

International: +800.4567.8988 or +1.604.629.5182 option 1 then dial 9

E-mails can be sent to: support@avigilon.com.

<u>Upgrades</u>

Software and firmware upgrades will be made available for download as they become available. Check <u>http://avigilon.com/support-and-downloads/</u> for available upgrades.

Feedback

We value your feedback. Please send any comments on our products and services to <u>feedback@avigilon.com</u>

Navigating the Application

The Avigilon Control Center Server software contains two parts: the Control Center Server Windows service and the Admin Tool.

The Control Center Server Windows service runs automatically when your computer starts.

The Admin Tool is used to configure the Control Center Server Windows service. For example, from the Admin Tool you can add licenses, define the network, and configure the backup and storage settings for the Avigilon Control Center.

Control Center Server

The Control Center Server is a Windows service, so it runs automatically in the background.

If required, you can configure the Control Center Server properties in the Services window.

Services	-			
<u>File Action View H</u>	<u>l</u> elp			
	🛓 🛛 📰 🖡 🕨 💷 💷			
Services (Local)	Services (Local)			
Av	vigilon Control Center	Name		•
Sta	art the service	Application Identity Application Information Application Layer Gateway	Service	
	escription: vigilon Control Center NVR Software	Application Management		
		Avigilon Control Center Avigilon Control Center G Background Intelligent Tra		
		Base Filtering Engine BitLocker Drive Encryption Block Level Backup Engine		
	iterated (Standard (< <u> </u>	•	
\b	xtended / Standard /			

Figure A. Services window

Admin Tool

The Admin Tool is used to configure your Control Center Server settings. From the Admin Tool, you can configure the size of the surveillance data storage space, where files are backed up, the licenses for the Avigilon Control Center, and network ports.

Accessing the Admin Tool

The Admin Tool can be accessed in the following ways:

 In Windows, select All Programs or All Apps > Avigilon > Avigilon Control Center Server > Avigilon Control Center Server Admin Tool



Double-click the shortcut icon on the desktop.

Double-click the Avigilon Control Center icon in the system tray.

The Avigilon Control Center icon in the system tray changes color depending on the Server software status.

Figure A. Avigilon Control Center icon:	Figure B. Avigilon Control Center icon:
Control Center Server is Running	Control Center Server is Not Running

Admin Tool Window

From the Admin Tool, you can start up or shut down the Control Center Server at any time. See <u>Starting</u> <u>Up and Shutting Down the Avigilon Control Center Server</u>.

The Admin Tool window contains two tabs: the General tab and the Settings tab.

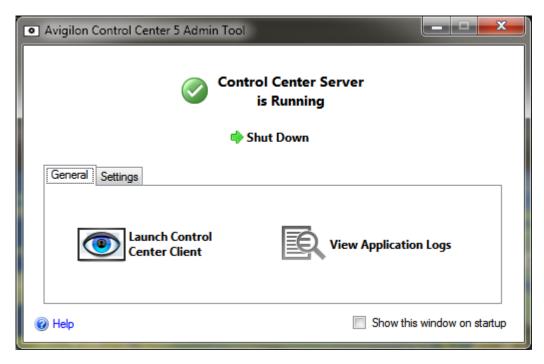


Figure C. Admin Tool, General tab

Feature	Description
۲	Click this button to start the Avigilon Control Center Client software.
R	Click this button to view the Control Center Server error logs.



Figure D. Admin Tool, Settings tab

Feature	Description
	Click this button to view and add licenses to your Avigilon Control Center system. See <u>Licensing the Server</u> for more information.
	Click this button to define the amount of server space for surveillance data storage. See <u>Configuring the Server</u> <u>Storage Settings</u> for more information.
	Click this button to define the network ports. See <u>Configuring</u> the Server Network Settings for more information.
	Click this button to define where backup files are stored. See <u>Configuring the Server Backup Settings</u> for more information.

Setup

Complete the following procedures to configure the Avigilon Control Center Server to fit your requirements.

Licensing the Server

After the Avigilon Control Center Server software has been installed, you must apply your software license to the application or the Control Center Server will not run.

Your server can be licensed for the Core, Standard or Enterprise edition. If you are running the Enterprise edition, this procedure is also used to add integration licenses.

Accessing the Server Licensing Settings

1. In the Admin Tool, select Settings >



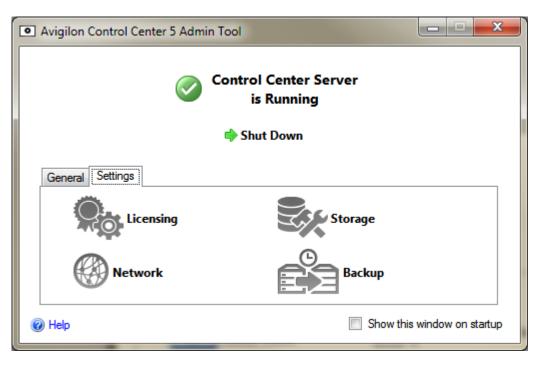


Figure A. Control Center Admin Tool

2. In the License Activation dialog box, you can see the server's license edition and optional license features.

1	License Activation	
	License information	
	Server ID:	43767884
	Product Name: Company:	Control Center Server
		Enterprise
	Camera Channels: POS Transaction Channels:	
	LPR Channels:	-
	SDK Connections: Integration Connections:	
	-	May 12, 2013
	For licensing	y support please call +1-888-281-5182
	🖶 Add License	📼 Disable License 🛛 🛛 Close

Figure B. License Activation dialog box

The Server ID is unique to each server running the Avigilon Control Center software. If you need help licensing the software, call Avigilon Technical Support and give them the server ID.

If you ever need to upgrade your server hardware, you can disable the license on the current server and reuse the license on the new server. For more information, see <u>Deactivating a License</u>.

Activating a License Over the Internet

If you have internet access, the Admin Tool connects to the internet automatically and helps you activate your license.

1. In the Admin Tool, select Settings >



- In the License Activation dialog box, click ¹/₂.
- 3. If an internet connection was detected, click Internet Activation (Recommended).

If an internet connection was not detected, see Activating a License Manually.

Avigilon Control Center Server Setup	×
Activate Demonstration License	
Internet Activation (Recommended)	
Activate the license over the internet. Select this if the server is connected to the internet.	
Manual Activation	
Activate the license manually. Select this if the server is not connected to the internet.	
Internet connection detected.	
Avigilon does not receive or use any personal data during activation. <u>Click here</u> for more information.	
Previous Cance	

Figure A. Activate Control Center Server page

4. Enter the product key, a check mark will appear if it is valid. If you have multiple product keys, click Add additional key and enter the next product key. When all the licenses for this server have been added, click Next.

Add License		×	
Add License Enter Product Key	xxxxx- xxxxx- xxxxx- xxxxx Add additional key	×	
	Previous	Next Cancel	

Figure B. Enter Product Key page

5. Complete the Product Registration page to receive product updates from Avigilon, then click **Next**.

Avigilon Control Center Server S	Setup	×
Activate Demonstration License	•	
To receive product updates, optional. * Required Fields	please register the following information. Registration is	
Register to receive up	odates	
*First Name:		
*Last Name:		
*Email Address:		
*Country:		
State:		
Company Name:		
Oon't register to receipt	ive updates	
	Previous Next Cance	:

Figure C. Product Registration page

6. The Admin Tool connects to the Avigilon licensing server and activates the license. When the *Activation Succeeded* message appears, click **Finish**.

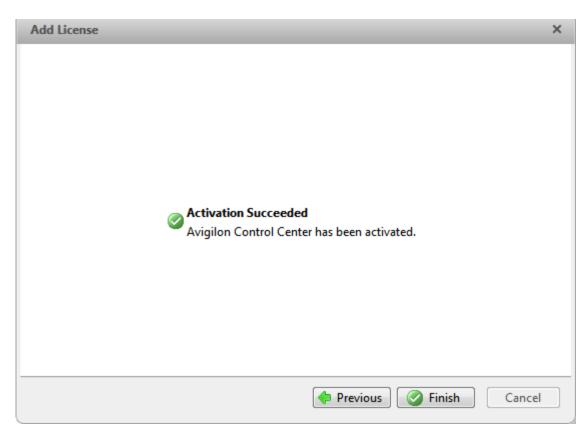


Figure D. Internet Activation Successful page

Activating a License Manually

If your server does not have internet access, you can activate your license manually by downloading the license file and activating the license on a computer with internet access.

- 1. In the Admin Tool, select Settings >
- 2. In the License Activation dialog box, click \clubsuit .
- 3. If an internet connection was not detected, click Manual Activation.

Add License	×		
Activate Control Center Server			
Manual Activation (Recommended)			
Activate the license manually. Select this if the server is not connected to the internet.			
Internet Activation			
Activate the license over the internet. Select this if the			
server is connected to the internet.			
🛕 Internet connection unavailable.			
Avigilon does not receive or use any personal data during activation. <u>Click here</u> for more information.			
Previous Cance	<u>!</u>		

Figure A. Activate Control Center Server page

4. Click Step 1: Generate Activation File.



Figure B. Manual Activation page

5. Enter the product key, a check mark will appear if it is valid. If you have multiple product keys, click Add additional key and enter the next product key. When all the licenses for this server have been added, click Next.

Add License		×
Enter Product Key		
	xxxxx- xxxxx- xxxxx- xxxxx	
	Add additional key	
	🔶 Previous 🛛 📥 Next 🛛 Car	ncel

Figure C. Enter Product Key page

6. Select the location and file name for the activation file, then click **Next**.

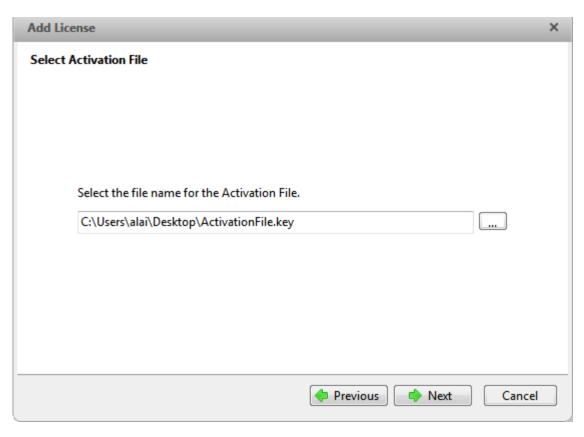


Figure D. Select Activation File page

7. The activation file is saved at the location you specified, then click Next.

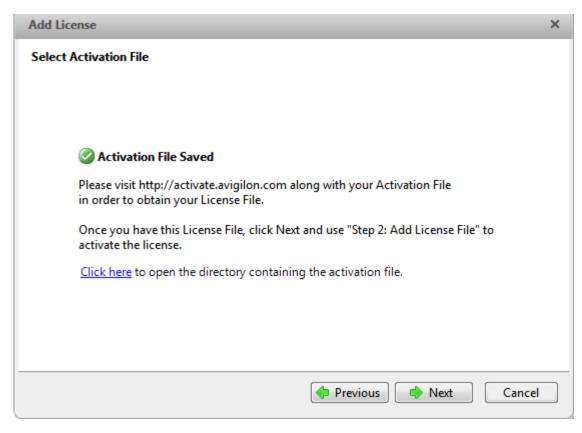


Figure E. Activation File Saved page

- 8. Copy the saved activation file to a computer with internet access.
- 9. Open a web browser and go to http://activate.avigilon.com.
- 10. Browse to the location of your activation file then click **Upload**.

	^
CVIGILON THE BEST EVIDENCE*	
Avigilon Activation & Deactivation Please select an activation or deactivation file and click "Upload" when ready	
Upload Browse	
	~
<	>

Figure F. Activation Website

The activated license file should downloaded automatically. If not, allow the download to occur when you are prompted.

11. Complete the product registration page to receive product updates from Avigilon, then click **Register**.

	iailan com/	👻 🔿 🏹 Avigilon L		
- (i) 🙆 http://activate.avi		Avigilon L	icense Activation ×	6 🛠
ile Edit View Favorites T	fools Help			
OVIGILON THE BEST EVIDENCE *				
Avigilon Activa	tion & Deacti	vation		
175.402				
Please select an activati	ion or deactivation file and	click "Upload" when re	заду	
C:\Users\alai\Deskto	p\Ac Browse			
Upload				
The License File has	been downloaded, use this fi	le to complete the remain	nder of the license activation p	rocess.
Register				
NUCHIOU				
5				
	es, please register the followi	ng information. Registrati	on is optional	
To receive product update * Required Fields	es, please register the followi	ng information. Registrat	on is optional	
To receive product update * Required Fields *First Name:	es, please register the followi	ng information. Registrat	on is optional	
To receive product update * Required Fields *First Name: *Last Name:	es, please register the followi	ng information. Registrat	on is optional	
To receive product update * Required Fields *First Name: *Last Name: *Email Address:	es, please register the followi	ng information. Registrat	on is optional	
To receive product update * Required Fields *First Name: *Last Name: *Email Address: *Country:	es, please register the followi	ng information. Registrat	on is optional	
To receive product update * Required Fields *First Name: *Last Name: *Email Address: *Country: State:	es, please register the followi	ng information. Registrat	on is optional	
To receive product update * Required Fields *First Name: *Last Name: *Email Address: *Country:	es, please register the followi		on is optional	
To receive product update * Required Fields *First Name: *Last Name: *Email Address: *Country: State:	es, please register the followi	ng information. Registrati	on is optional	

Figure G. Registration Website

- 12. Copy the downloaded license file onto the server you are activating.
- 13. Click Step 2: Add License File.



Figure H. Manual Activation page

14. Enter the location of the license file then click Next.

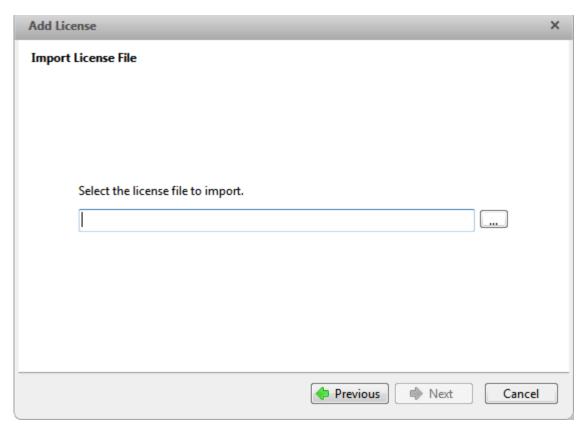


Figure I. Import License File page

15. When the Activation Succeeded message appears, click Finish.

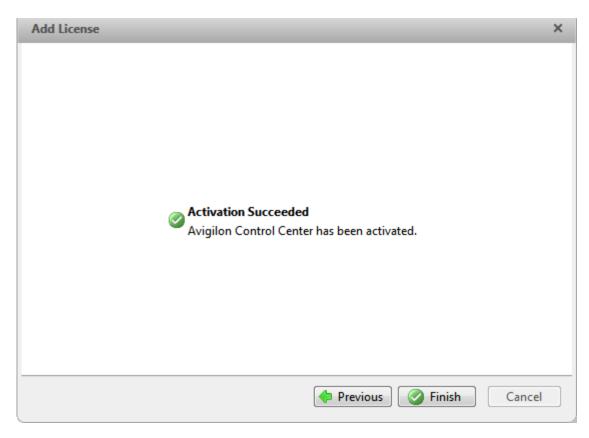


Figure J. Manual Activation Successful page

Configuring the Server Storage Settings

You must configure the server storage settings so the Avigilon Control Center Server software knows how much space is for storing surveillance data, and where it should be located.

If the Admin Tool detects that there is no existing storage configuration, it will launch the Set Up Storage Configuration dialog box.

Accessing the Server Storage Configuration

1. In the Admin Tool, click **Shut Down**. The Control Center Server must be shut down before the storage configuration can be viewed or edited.



2. In the Settings tab, click

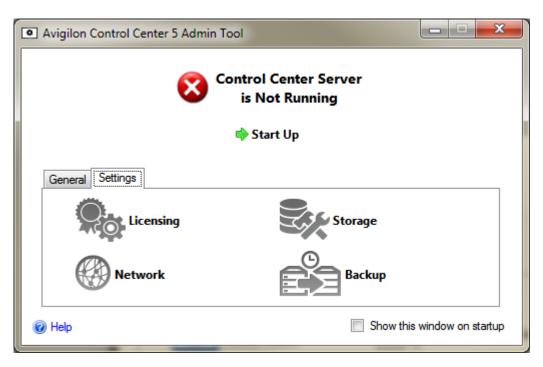


Figure A. Avigilon Control Center Admin Tool

3. In the Storage dialog box, you can see the current storage configuration.

Storage		x
C:\	€ 50.0 GB Data 304.2 GB Free 1115 GB Used Secondary Data Volume	
D:\	€ 50.0 GB Data S0.0 GB Data S70.1 GB Free S70.1 GB Free	
Chang	e Volume Size 😑 Delete Data Volume 🛛 😭 Set Primary Data Volume 🕅 😭 Set Config Volu	Jme
× Eras	e All Data OK Cano	xel

Figure B. Storage dialog box

Setting Up the Initial Server Storage Configuration

When the Admin Tool detects that there is no existing storage configuration, it will launch the Set Up Storage Configuration dialog box with the recommended storage configuration.

By default the software will assign most of the available storage to the Primary Data Volume for storing recorded video.

- If the recommended configuration is acceptable, click Finish
- If you want to change the configuration click Change Storage Configuration. See <u>Changing the</u> <u>Storage Configuration</u> for more information.

Avigilon Control Center Server Setup	×
You must set up the hard drives that Control Center Server will use for storing data and system configuration information. The following is the recommended storage configuration:	
Previous Sinish Cancel	

Figure A. Set Up Storage Configuration dialog box

Changing the Storage Configuration

You may need to change the storage configuration in the following situations:

 If you are unsatisfied with the storage configuration suggested by the application, click Change Storage Configuration to define the storage settings to fit your needs. If you recently chose to Erase All Data, you must reset the Storage configuration before you may continue.

Complete the following procedure in the Storage dialog box:

If the Storage dialog box is not already open, see <u>Accessing the Server Storage Configuration</u> for more information.

1. In the Storage dialog box, select the drive for storing the Config Volume and click **Set Config Volume**.

Store	×			
C\ \$	€ 50.0 GB Data Secondary Data Volume 50.0 GB Data 304.2 GB Free			
D:\	€ 50.0 GB Data 570.1 GB Free 3113 GB Used ★ Primary Data Volume ★ Config Volume			
Change Volume Size 😑 Delete Data Volume 📝 Set Primary Data Volume 😭 Set Config Volume				
	se All Data OK Cancel	***		

Figure A. Storage dialog box

Note: Some of the buttons in the figure may not be available if the drive cannot accommodate the setting.

- 2. To add a data volume, select the drive and click **Add Data Volume**. The button is not available if the drive already has a data volume.
 - o In the Add Data Volume dialog box, enter the preferred data volume size then click **OK**.

Add Data Volume			
Data volume size:			
β39 ⊕ GB			
OK Cancel			

Figure B. Add Data Volume dialog box

3. To delete a Secondary Data Volume, select the drive and click **Delete Data Volume**. Deleting a data volume will erase all recorded data from that drive.

Note: You cannot delete a Primary Data Volume, you can only erase all data. See <u>Erasing the Storage Configuration</u> for more information.

4. If you are not satisfied with the location of the Primary Data Volume, select the drive you prefer and click **Set Primary Data Volume**.

The Primary Data Volume contains the database that indexes the surveillance data.

Note: The drive must have a data volume before it can be set as the Primary Data Volume.

5. When you are satisfied with the storage configuration, click **OK**.

Erasing the Storage Configuration

Note: If you choose to erase all stored data, be aware that all recorded surveillance data and server settings will be lost.

- 1. Open the Storage dialog box. For more information, see <u>Accessing the Server Storage</u> <u>Configuration</u>.
- 2. Click Erase All Data.
- 3. When the confirmation dialog box appears, click Yes.
- 4. You will need to create a new storage configuration before you can start up the Control Center Server again. See <u>Changing the Storage Configuration</u> for more information.

Configuring the Server Backup Settings

To allow the system to automatically backup recorded video, you must enable it in the Admin Tool and assign a backup location for the backup files.



1. In the Admin Tool, select Settings >

Avigilon Control Center 5 Admin Tool				
Control Center Server is Running				
🌩 Shut	Down			
General Settings				
Licensing	Storage			
Network	Backup			
Help	Show this window on startup			

Figure A. Control Center Admin Tool

2. In the Backup dialog box, select the **Enable Backup** check box to allow the server to backup video files.

[Backup
	Enable Backup Backup Folder: C:\ OK Cancel
l	

Figure B. Backup dialog box

- 3. Enter the location of the backup folder. Click [...] to browse to the backup folder location.
- 4. Click OK.

To initiate a backup or setup automatic backups, see the Avigilon Control Center Client User Guide.

Configuring the Server Network Settings

The server communicates with the Avigilon Control Center Client software through a range of UDP and TCP ports. The port ranges only need to be changed if the Client software is trying to access two or more servers that are behind the same NAT device (e.g. router); or if there is a port conflict with other software running on the same computer as the Avigilon Control Center Server software.

1. In the Admin Tool, select Settings >

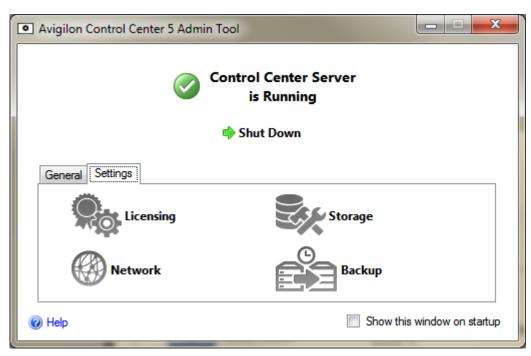


Figure A. Control Center Admin Tool

2. In the Network dialog box, enter the desired base port then click OK.

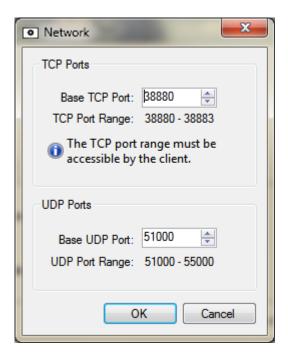


Figure B. Network dialog box

- The UDP and TCP port ranges used by the Server software are updated as the base port changes.
- The TCP port range must be accessible by the client computer and can be forwarded on any router or network address translation point between the client and server.

Using the Admin Tool

Besides configuring the server, the Admin Tool can also be used to start and shut down the Control Center Server software, launch the Client software and display the application logs.

Starting Up and Shutting Down the Avigilon Control Center Server

The Control Center Server software automatically starts when Windows starts but it can be manually shut down and started through the Admin Tool.

Shutting Down the Control Center Server

When the Control Center Server is shut down, all video recording is stopped until the Control Center Server is started again.

1. In the Admin Tool, click **Shut Down**.

Avigilon Control Center 5 Admin Tool Omega Control Center Server is Running
Shut Down
General Settings Launch Control Center Client View Application Logs
Welp Show this window on startup

Figure A. Admin Tool: Control Center Server is Running

When the Control Center Server has shut down properly, the Admin Tool will display - *Control Center Server is Not Running*.

Starting up the Control Center Server

1. In the Admin Tool, click Start Up.

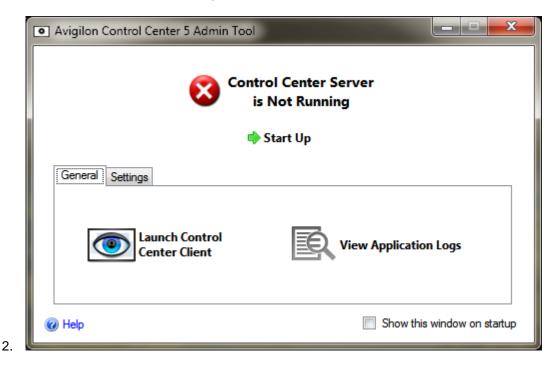


Figure B. Admin Tool: Control Center Server is Not Running

When Control Center Server has started properly, the Admin Tool will display - Control Center Server is Running.

Starting the Avigilon Control Center Client

The Avigilon Control Center Client software can be started through the Avigilon Control Center Admin Tool.

1. In the Admin Tool, select General >

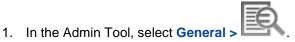
💿 Avigilon Control Center 5 Admin Tool			
	Center Server Running		
💠 Shut	Down		
General Settings			
Launch Control Center Client	View Application Logs		
Help	Show this window on startup		

Figure A. Admin Tool

If the Client software is not installed, the Admin Tool will prompt you to install it.

Viewing Application Logs

You can view the Avigilon Control Center application error logs through the Admin Tool. This can assist in diagnosing problems with your system.



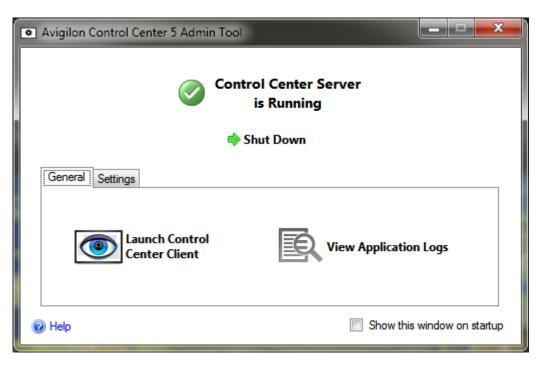


Figure A. Admin Tool

2. The Application Logs dialog box appears. Double-click an error to view the details.

Туре	Date	Message
S Error	12/04/2013 8:56:04 AM	Connection failed for device '2.0-H3-D1
🔀 Error	12/04/2013 8:56:04 AM	Connection failed for device '2.0W-H3
🔀 Error	09/04/2013 9:23:59 AM	Connection failed for device '2.0-H3-D1
🔀 Error	09/04/2013 9:23:59 AM	Connection failed for device '2.0W-H3
🔀 Error	08/04/2013 8:39:31 AM	Connection failed for device '2.0-H3-D1
🔀 Error	08/04/2013 8:39:31 AM	Connection failed for device '2.0W-H3
🔀 Error	05/04/2013 3:23:11 PM	Connection failed for device '2.0-H3-D1
🔀 Error	05/04/2013 3:23:11 PM	Connection failed for device '2.0W-H3
🔀 Error	05/04/2013 3:21:15 PM	Connection failed for device '2.0-H3-D1
🔀 Error	04/04/2013 6:25:11 PM	Connection failed for device '2.0W-H3
🔀 Error	04/04/2013 6:16:29 PM	Connection failed for device '2.0W-H3

Figure B. Application Logs dialog box

3. Click **OK** to close the dialog box.

Appendix

2.

Resetting the Administrator Password

To reset the administrator password, you must delete all existing user and group account information from the server Config Volume.

Tip: You can avoid this procedure if you have a user account that has all the same permissions as an administrator. You can use this user account to reset the administrator password in the Avigilon Control Center Client software.

1. In the Admin Tool, click **Shut Down**. If you have multiple servers in your Site, you need to shut down all the servers in your Site.



- 3. In the Storage dialog box, make note of which drive holds the Config Volume.
- 4. Access the Config Volume drive and navigate to the AvigilonConfig\Db\DirectoryShared\Users folder.

For example, D:\AvigilonConfig\Db\DirectoryShared\Users.

5. Delete all the files in this folder. If you have multiple servers in your Site, you need to delete this folder from every server in your Site before you perform the last step.

The server automatically resets all the users and groups settings back to the factory default.

6. In the Admin Tool, click Start Up. Repeat for each server in your Site.

Once all the servers have come back online, you can login to the Site using the default administrator password:

- Username: administrator
- Password: <leave blank>

To add users and groups to the server, see the Avigilon Control Center Client User Guide.

Deactivating Licenses

If you are replacing your current server with a new one, you must manually deactivate the license on the old server before the license can be reused on the new server.

If you are unable to access your old server to deactivate the license, contact Avigilon Technical Support for more information.

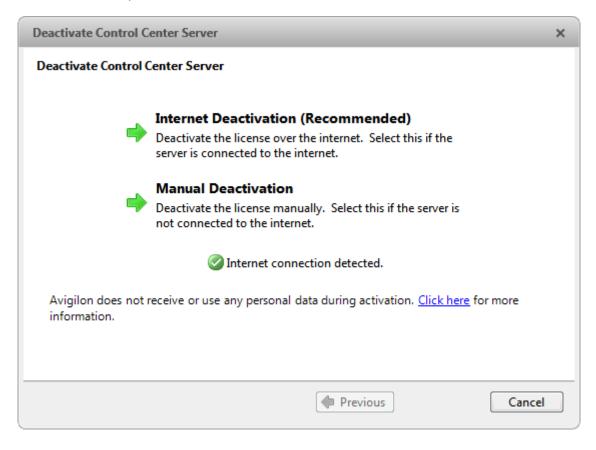
Note: You cannot deactivate individual licenses. When you deactivate licenses in the Admin Tool, you are deactivating all the licenses on the server.

1. In the Admin Tool, select Settings >



- In the License Activation dialog box, click —.
- 3. Select a deactivation method.

Like the license activation procedure, you have the option of deactivating the license over the internet or manually.



4. Click Copy To Clipboard then paste the product key into a text file for reference.

Deactivate Control Center Server	
1 The installed license on this server will be revoked	
The following product keys will be deactivated on this server. Please retain a copy for your records.	
XXXX-XXXXXX-XXXXX-XXXX-XXXXX	
Copy To Clipboard	
Previous Next Cance	!

It is recommended that the product key be saved to a flash drive so that you can easily access the product key on the new server.

- 5. Click Next.
 - If you selected Internet Deactivation, the system will automatically deactivate the server license.
 - o If you selected Manual Deactivation, complete the following steps:
 - a. On the following page, download the DeactivationFile.key.
 - b. Copy the saved deactivation file to a computer with internet access.
 - c. Open a web browser and go to http://activate.avigilon.com.
 - d. Browse to the location of your deactivation file then click Upload.

When you see the confirmation message, the license has been deactivated.

Once a license has been deactivated, you can reuse the product key on the new server. For more information about activating a license on a server, see <u>Activating a License over the Internet</u>.