ProHawk Vision Server Quick Start Guide



Table of Contents

1		Introduction
2		System Requirements4
3		Installer5
	3.1 W	elcome5
	3.2 Lio	cense Key6
	3.3 Lio	cense Agreement
	3.4 Ch	oose Components7
	3.5 Ins	stall Location8
	3.6 M	ilestone XProtect Smart Client Plugin Install Location8
	3.7 Ту	co CCure 9000 Plugins Install Locations9
	3.7.1	Tyco CCure 9000 Administration Workstation Plugin Install Location9
	3.7.2	Tyco CCure 9000 Administration Workstation Plugin Install Location9
	3.8 Pr	oduct Registration10
	3.9 Sta	art Menu Folder 10
	3.10Pr	ogress
	3.11TC	P Ports Used
	3.12Fir	rewall Ports Used12
	3.13En	able IIS12
	3.14Sta	art ProHawk Vision Server Service13
	3.15Fir	nish
	3.16Di	rectories14



1 Introduction

The ProHawk[®] Vision Server application Quick Start Guide provides an overview for the ProHawk Vision Server Application on how setup and configure them. We have tried to make this overview clear, easy to understand, and informative. We value the relationship that we have with our users and believe this guide with be valuable in expediting the setup of the Tools.

ProHawk Vision Server receives video from a live RTP/RTSP camera stream to improve. ProHawk Vision Server provides various computer vision restoration preset and detailed enhancement parameters that can be changed by accessing the browser based Graphical User Interface (GUI). One-Click filter preset radio buttons assist users in clarifying challenging visual conditions. ProHawk Vision Server advanced filters settings allow users to adjust the ProHawk parameters individually. These are specific adjustments that may have an impact on details to be revealed.

Once the video stream is selected, ProHawk Vision Server provides several options to view the original and/or improved picture or video: Improved; Original and improved picture or video side-by-side; Improved with original preview.

The ProHawk Vision Server Client GUI provides media player controls for video control and record capabilities. This allows users to Play, Pause, Stop, or Record the input video.

ProHawk Vision Server outputs the computer vision restored video through an RTSP stream on a web server port.

The ProHawk Vision Milestone XProtect Smart Client Plugin is designed to directly integrate with Milestone XProtect Smart Client. The features and functions are similar or the same as the ProHawk Vision Server Client GUI application.

This is the v6.0.0 release of the ProHawk Vision Server application.



2 System Requirements

Following are the systems requirements for the ProHawk Vision Server application to operate properly:

- 64-bit Multicore CPU
- 8GB RAM (16GB or more recommended)
- Windows Server 2012, Windows Server 2016, Windows Server 201, or Windows Server 2022
- NVIDIA Quadro, Tesla, GRID, GeForce, or RTX products with Kepler, Maxwell, Pascal, Turing, Volta or Ampere generation GPUs

The ProHawk Vision Server application includes and requires the following external libraries:

- Microsoft Visual C++ 2015-2019 Redistributable (x64) runtime
- Microsoft .NET Framework 4.8 Redistributable
- NVIDIA CUDA 11.0
- OpenCV 4.4.0 OpenCV 4.4.0 and lower versions are licensed under the 3-clause BSD license.
 See license information at https://opencv.org/license/
- Poco 1.7.7 POCO C++ libraries distributed under the Boost Software License, Version 1.0. See license file at <u>https://www.boost.org/LICENSE 1 0.txt</u>
- FFMPEG This software uses libraries of <u>FFmpeg</u> licensed under the <u>LGPLv2.1</u>

The ProHawk Vision Server application supports 64-bit x64 architectures. The ProHawk Vision Server Application does not support 32-bit x86 architectures.



3 Installer



First, open the installer with the file ProHawk Vision Server Setup.exe.

Figure 1

3.1 Welcome

Once opened the Installation Wizard will begin to guide you through the installation process. (*Figure 2*)





3.2 License Key

Enter the 25-character license key, then *click* the **<u>Next</u> >** button. (*Figure 3*)

PH ProHawk Vision Server 6.0.0 Setup	—		×
License Key A license key is required to enable the full functionality of the product.	Pro	Hav	∧k ®
Enter 25 Character License Key			
Leave the License Key blank will enable the product for a 7 da upgrade the License Key using the ProHawk Vision Server Lice	ay evaluation. ense Key Upgra	You can ade Applic	atio
License Key:			
ProHawk Vision Server 6.0.0			
< <u>B</u> ack	<u>N</u> ext >	Cano	el

Figure 3

3.3 License Agreement

After *clicking* the **Next** > button on the Welcome page, the license agreement will appear. (*Figure 4*)

PH ProHawk Vision Server 6.0.0 Setup –	×
License Agreement Please review the license terms before installing ProHawk Vision Server 6.0.0.	wk®
Press Page Down to see the rest of the agreement.	
NOTICE TO ALL USERS: CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT ("AGREEMENT"), FOR THE LICENSE OF SPECIFIED SOFTWARE ("SOFTWARE") PRODUCED BY PROHAWK TECHNOLOGY GROUP INC, ("PROHAWK"). BY CLICKING THE ACCEPT BUTTON OR INSTALLING THE SOFTWARE, YOU (EITHER AN INDIVIDUAL OR A SINGLE ENTITY) CONSENT TO BE BOUND BY AND BECOME A PARTY TO THIS AGREEMENT. IF YOU DO NOT AGREE TO AL OF THE TERMS OF THIS AGREEMENT,	, ^ L
CLICK THE BUTTON THAT INDICATES THAT YOU DO NOT ACCEPT THE TERMS OF THIS AGREEMENT AND DO NOT INSTALL THE SOFTWARE. (IF APPLICABLE, YOU MAY	~
If you accept the terms of the agreement, dick the check box below. You must accept to agreement to install ProHawk Vision Server 6.0.0. Click Next to continue. I accept the terms of the License Agreement ProHawk Vision Server 6.0.0	he
< <u>B</u> ack <u>N</u> ext > Ca	ncel



The license agreement must be accepted to continue with the installation and *clicking* the **Next** > button. (*Figure 5*)

PH ProHawk Vision Server 6.0.0 Setup	_		\times
License Agreement Please review the license terms before installing ProHawk Vision Server 6.0.0.	Pro	Hav	vk ®
Press Page Down to see the rest of the agreement.			
NOTICE TO ALL USERS: CAREFULLY READ THE FOLLOWING LEGA ("AGREEMENT"), FOR THE LICENSE OF SPECIFIED SOFTWARE ("SOFTWARE") PRODUCED BY PROHAWK INC. ("PROHAWK"). BY CLICKING THE ACCEPT BUTTON OR INSTA SOFTWARE, YOU (EITHER AN INDIVIDUAL OR A SINGLE ENTITY) BOUND BY AND BECOME A PARTY TO THIS AGREEMENT. IF YOU I OF THE TERMS OF THIS AGREEMENT,	L AGREEMEN TECHNOLOG ALLING THE CONSENT TO DO NOT AGRE	T Y GROUP, BE EE TO ALL	~
AGREEMENT AND DO NOT INSTALL THE SOFTWARE, (IF APPLICA	BLE, YOU MA	Y	¥
If you accept the terms of the agreement, click the check box belo agreement to install ProHawk Vision Server 6.0.0. Click Next to cor	w. You must a ntinue.	accept the	2
☑ accept the terms of the License Agreement			
ProHawk Vision Server 6.0.0			
< <u>B</u> ack	<u>N</u> ext >	Cano	el

Figure 5

3.4 **Choose Components**

You will then be brought to the component selection dialog, *click* on the **<u>Next</u> >** button. (*Figure 6*)

■ ProHawk Vision Server 6.0.0	Setup	_		×
Choose Components Choose which features of ProH to install.	lawk Vision Server 6.0.0 you want	Pro	Hav	∧k ®
The ProHawk Vision Server 6.0	.0 Components are listed below.			
Select components to install: Space required: 1.7 GB	ProHawk Vision Se XProtect Smart Cli Y Tyco CCURE 9000 Y CCURE 9000 / Y CCURE 9000 / Y CCURE 9000 / Y CCURE 9000 / Y ProHawk Vision Y ProHaw	Description Position you over a comp see its descr	r mouse onent to iption,	
ProHawk Vision Server 6.0.0 ——	< <u>B</u> ack	<u>N</u> ext >	Cano	el

Figure 6



Pro Hawk[®]

3.5 Install Location

The next screen will ask you to select a location to install the application. Select a destination then *click* the **Next** > button to continue. (*Figure 7*)

PH ProHawk Vision Server 6.0.0 Setup	_			×
Choose Install Location Choose the folder in which to install ProHawk Vision Server 6.0.0.	Pr	oŀ	lav	vk®
Setup will install ProHawk Vision Server 6.0.0 in the following folder. folder, click Browse and select another folder. Click Next to continue	. To insta e.	ll in a d	different	
Destination Folder C:\Program Files\ProHawk\Vision Server	E	Browse	2	
Space required: 172.0 MB Space available: 352.2 GB				
ProHawk Vision Server 6.0.0	<u>N</u> ext >		Cance	el 🛛

Figure 7

3.6 Milestone XProtect Smart Client Plugin Install Location

If the ProHawk Vision Milestone XProtect Smart Client Plug-in is selected, the system will ask you to select a location to install the application. Select a destination then *click* **Next** > to continue. (*Figure 8*)

PH ProHawk Vision 6.0.0 Setup	_		×
Choose Install Location Choose the folder in which to install the ProHawk Milestone XProtect Smart Client Plugin.	Pro	Ha	wk®
The installer will install the ProHawk Milestone XProtect Smart Client folder. The typical default folder to install MileStone XProtect Client Files\Milestone\XProtect Smart Client\MIPPlugins. To install in a differenct folder, click Browse and select another fold	t Plugin in tl Plugins is (ler. Click Ne	ne following C: \Program ext to contir	nue.
Destination Folder	Br	owse	
Space required: 4.3 GB Space available: 355.8 GB			
ProHawk Vision 6.0.0	<u>N</u> ext >	Can	cel



3.7 Tyco CCure 9000 Plugins Install Locations

If the ProHawk Vision Tyco CCure 9000 Plug-in(s) are selected, the system will ask you to select a location to install the application plug-in(s).

3.7.1 Tyco CCure 9000 Administration Workstation Plugin Install Location

Select a destination folder for the CCure 9000 Administration Workstation Plugin, then *click* <u>Next</u> > to continue. (*Figure 9*)

PH ProHawk Vision Server 6.0.0 Setup	_		\times
Choose Install Location Choose the folder in which to install the ProHawk CCure 9000 Administration Workstation Plugin.	Pro	Ha	wk®
The installer will install the ProHawk CCure 9000 Administration Wor following folder. The typical default folder to install CCure 9000 Adn C:\Program Files (x86)\Tyco\CCURE Client.	kstation Plug ninistration V	jin in the Vorkstatio	n is
To install in a differenct folder, click Browse and select another folde	er. Click Nex	t to contin	iue.
Destination Folder C: \Program Files (x86) \Tyco \CCURE Client	Brow	WSe]
Space required: 1.7 GB Space available: 257.8 GB			
ProHawk Vision Server 6.0.0			
< <u>B</u> ack	<u>N</u> ext >	Cano	cel

Figure 9

3.7.2 Tyco CCure 9000 Administration Workstation Plugin Install Location

Select a destination folder for the CCure 9000 Administration Workstation Plugin, then *click* <u>Next</u> > to continue. (*Figure 10*)

■H ProHawk Vision Server 6.0.0 Setup	_	- [×
Choose Install Location Choose the folder in which to install the ProHawk CCure 9000 Monitoring Station Plugin.	Pr	οн	aw	′ k ®
The installer will install the ProHawk CCure 9000 Monitoring Station folder. The typical default folder to install CCure 9000 Monitoring S (x86)\Tyco\CCURE Client.	Plugin in Station is (the follov C:\Progra	ving Im Files	
To install in a differenct folder, click Browse and select another fol	der. Click I	Next to o	ontinue.	
Destination Folder				
C:\Program Files (x86)\Tyco\CCURE Client		Browse		
Space required: 1.7 GB				
Space available: 257.8 GB				
ProHawk Vision Server 6.0.0				
< <u>B</u> ack	<u>N</u> ext >		Cancel	

Pro Hawk[®]

3.8 **Product Registration**

Fill in the registration information form, then *click* the **Next** > button to continue. (*Figure 11*)

PH	ProHawk Vision	Server 6.0.0 Setup				_		×
P	roduct Registra This information is	tion used to inform you of updates.			Ρ	ro	Hav	∧k ®
	-Registration Info	rmation						
	Company: First Name: Address: City: State: Country: Email: Phone:	California	Last	Name: Zipc	ode:	1		
Pro	Hawk Vision Serve	r 6.0.0	< <u>B</u> ac	k	<u>N</u> ext >	>	Cano	el

Figure 11

3.9 Start Menu Folder

Before installation begins the installer will ask you to select a start menu folder. Choose the destination then *click* the **Install** button to begin the installation. (*Figure 12*)

PH ProHawk Vision Server 5.1.0 Setup	—		×
Choose Start Menu Folder Choose a Start Menu folder for the ProHawk Vision Server 5.1.0 shortcuts.	Pro]Hav	wk®
Select the Start Menu folder in which you would like to create the progr can also enter a name to create a new folder.	ram's sho	ortcuts. Yo	u
7-Zip Accessibility Accessories Administrative Tools Avid Avigilon BlackBall SearchIn Canon IJ Network Utilities Canon MX870 series Canon Utilities Chrome Apps Dell			~
ProHawk Vision Server 5,1,0	stall	Can	cel



3.10 Progress

The Installer will display a progress window of the installation taking place. (Figure 13)

PH ProHawk Vision Server 6.0.0 Setup	_	\Box \times
Installing Please wait while ProHawk Vision Server 6.0.0 is being installed.	Pro	Hawk [®]
Extract: common.css 100%		
Extract: RTSPServiceManager.InstallState 100% Extract: RTSPServiceManager.exe.config 100% Extract: RTSPServiceManager.pdb 100% Extract: System.Net.Http.Formatting.dll 100% Extract: System.Net.Http.Formatting.xml 100% Extract: System.Web.Http.SelfHost.dll 100% Extract: System.Web.Http.SelfHost.xml 100% Extract: System.Web.Http.XelfHost.xml 100% Extract: System.Web.Http.Xml 100% Extract: System.Web.Http.xml 100% Extract: Common.css 100%		*
< Back	Next >	Cancel

Figure 13

3.11 TCP Ports Used

ProHawk Vision Server uses various ports to function properly. Ports 44324 & 44325 are used by the ProHawk Vision Server Client and ProHawk Vision Server Manager respectively. The dialog below indicates that these ports need to be opened, *click* on the **Yes** button to continue. (*Figure 14*)



Figure 14



3.12 Firewall Ports Used

ProHawk Vision Server ProHawkRTSP.exe service uses a firewall port to function properly. The dialog below indicates that these ports need to be opened, *click* on the **Yes** button to continue. (*Figure 15*)

PH ProHawk Vision Server 6.0.0 Setup		\times
	ProHawk Vision Server requires communication through the Windows Defender Firewall for the C:\Program Files\ProHawk\Vision Server\Web\ProHawkRTSP.exe service to function properly.	
	Press Yes to continue to add the C:\Program Files\ProHawk\Vision Server\Web\ProHawkRTSP.exe application on the Windows Defender Firewall list of apps to communicate through the Windows Defender Firewall.	
	Press No to continue, PLEASE NOTE: the ProHawk Vision Server Service will not be able to process camera streams without access.	
	<u>Y</u> es <u>N</u> o	

Figure 15

3.13 Enable IIS

ProHawk Vision Server uses Microsoft Internet Information Server as the web server for operating the ProHawk Vision Server Client and ProHawk Vision Server Manager. DISM will be called to enable the Windows IIS feature, as seen below. (*Figure 16*)





3.14 Start ProHawk Vision Server Service

The ProHawk Vision Server Install will automatically start the ProHawk Vision Server Service. (*Figure 17*) The ProHawk Vision Server Service will automatically start on start-up.



3.15 Finish

The Display Release Notes checkbox will open the release notes in Notepad to display the contents. Once the installation is complete the product will be ready to use. *Click* on the **<u>F</u>inish** button to begin using ProHawk Vision Server to restore and clarify your live RTSP video streams. (*Figure 18*)





Figure 18 Page 13 of 14

3.16 Directories

There will be several directories created after extracting the ProHawk Vision Server setup into the C:\Program Files\ProHawk\Vision Server main folder. If you selected the ProHawk Vision Milestone XProtect Smart Client Plugin, the plugin files will be installed by default into the Milestone\XProtect Smart Client\MIPPlugins\ProHawk.InstantVisualClarity.Plugin directory. Following are the folders and their descriptions:

Folder	Description
docs	Documentation files: ProHawk Vision Server Users Guide.pdf.
VisionServerClientService	A folder containing the ProHawk Vision Server client and
	associated files.
VisionSorvorSorvico	A folder containing the ProHawk Vision Server web server
	service and associated files.
Web	Runtime client web page files.
C:\Milestone\XProtect Smart	A folder containing the ProHawk Vision Milestone XProtect
Client\MIPPlugins	Smart Client Plugin and associated files and folders to run.
\ProHawk.InstantVisualClarity.Plugin	This is typically located off the Milestone\XProtect Smart
	Client\MIPPlugins directory

