

# Ayonix Milestone Plugin v1.6 Installation Manual

Ayonix Corporation

May 25, 2018



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# 1. Prerequisites



# 1.1 Software prerequisites

Prerequis	ites for Server	Prerequisites for Client				
SQL 2014	Express/Standard					
Milestone	s Xprotect 2018 R1 Express	Milestones XProtect Smart Client				
APS-Miles	tones Plugin V1.6					
	PLATFORM prerequisites					
Prerequis	ites for Server	Prerequisites for Client				
OS	Windows 7 or 8 or Windows 2012/2016 server	Windows 8 64bit				
RAM 16GB		8GB				
HDD	500GB	128GB				
GPU	NVIDIA GPX 1080	NVIDIA GPX 1080				

\* Milestone Corporate 2018 R1 Express, Professional, Expert and Corporate versions are supported. To install Milestone, please refer to Milestone documentation. Download "XProtect Corporate Administrator Getting Started Guide" on the following link:

https://www.milestonesys.com/support/help-yourself/manuals-and-guides/?prod=159&type=13&lang=27



# 1.2 Disable Firewall

You have to disable your firewall of your windows operating system. Firewall prevents some ports communication. Because of that it brings some problems during installation or configuration.

Customize Settings	_ <b>_</b> ×						
🛞 💿 👻 🛧 🔐 - Control Panel -> All Control Panel Items -> Windows Firewall -> Customize Settings 🔹 🗸 🖒 Search Control Panel							
Customize settings for each type of network You can modify the firewall settings for each type of network that you use. Domain network settings O Turn on Windows Firewall Block all incoming connections, including those in the list of allowed apps Notify me when Windows Firewall blocks a new app W Turn off Windows Firewall (not recommended)							
Private network settings Turn on Windows Firewall Block all incoming connections, including those in the list of allowed apps Notify me when Windows Firewall blocks a new app Turn off Windows Firewall (not recommended)							
Public network settings Turn on Windows Firewall Block all incoming connections, including those in the list of allowed apps Notify me when Windows Firewall blocks a new app							
Turn off Windows Firewall (not recommended)							
OK Cancel							

# 2. Choosing Architecture

# 2.1 Possible architectures

#### Milestone Plugin Network Architectures

Milestone Plugin can be installed on multiple servers or on one server.

Server can be configured to have one of the three roles:

1) Worker - Captures images from camera and sends results to Master

2) Master - Processes messages from Workers, process Face Recognition and dispatch Face Recognition events.

3) Master / Worker - Both Worker and Master roles on the same computer. This is the role a server must have when there is only one server with Ayonix Milestone Plugin installed.



#### Architecture 1 - Worker and Master on the same computer



Ideal for small networks (generally up to 10 cameras) with small enrollment database sizes (under 10000 persons).

#### Architecture 2 - One Master and many Worker Computers



One Server only for Matching and events (Master) and many Workers detecting faces from cameras

Ideal for Many cameras with Big enrollment database sizes



# 3. Server Installation

# 3.1 Install SQL 2014 Express or Standard

	Download Microsoft® SC ×		
	← → C ☆ 🔒 Secure   https://www.microsoft.c	com/en-US/download	/details.aspx?id=42299 🟠 :
Download Microsoft® SC ×     Download Microsoft® SC ×     Secure https://www.microsoft.com/en-US/download/details.aspx?id=4225	Choose the download you	want	$\otimes$
	File Name	Size	
	Express 32BIT WoW64\SQLEXPR32_x86_ENU.exe	149.9 MB	Download Summary: KBMBGB
	Express 32BIT\SQLEXPR_x86_ENU.exe	168.4 MB	1. ExpressAdv 64BIT\SQLEXPRADV_x64_I
Microsoft® SQL Server® 2014 Express	Express 64BIT\SQLEXPR_x64_ENU.exe	196.7 MB	
	ExpressAdv 32BIT\SQLEXPRADV_x86_ENU.exe	1.1 GB	
Download	ExpressAdv 64BIT\SQLEXPRADV_x64_ENU.exe	1.1 GB	•
	ExpressAndTools 32BIT\SQLEXPRWT_x86_ENU.exe	840.8 MB	Total Size: 1.1 GB
Microsoft SQL Server 2014 Express is a powerful and reliable free da			Next
Download SQL 2014 from Microsoft website.	Click appropriate packa	ige.	

We choose "SQLEXPADV\_x64\_ENU.exe"

After downloading the file, double click the SQL package. This process starts SQL installation.

Microsoft S	SQL Server 2014 Express	Advanced	
Preparing: C:¥a74c2763861	14cfed81768b42c6352c46¥1033_	ENU_LP¥¥RKN09QPS.LM8 Cancel	
- 1 D IV = 1	Application Table	Downloads	
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File Home Share View	Manage	v C	Search Do P
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File     Home     Share     View       €     →     ↑     ↓     This PC →     D       ★     Favorites     Nar       Image: Desktop     Image: Desktop	Manage Iownloads SQLEXPRADV_x64_ENU		Search Do A Type Application

**⊥** \_ □ ×



1	SQL Server Installation Center – 🗆 🗙	1	SQL Server 2014 Setup – 🗖 🗙
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Microsoft SQL Server 2014			< Back Next> Cancel

#### Click "New SQL Server"

<b>1</b>		SQL Server 2014 S	ietup		- 🗆 🗙	10	SQL Server 2014 Setup –	×
Installation Type Perform a new installation or a	dd features to an existi	ing instance of SQL Serv	er 2014.			License Terms To install SQL Server 2014, you	u must accept the Microsoft Software License Terms.	
Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Install Rules Installe Comfiguration Feature Selection Feature Selection Server Configuration Server Configuration Database Engine Configuration Reporting Services Configuration Feature Configuration Rules	Perform a new in     Select this option     components suc     Add features to a     VIDEOOSDB     Select this option     want to add     instance:     Installed instances:     Installed instances     VIDEOOSDB	stallation of SQL Server in your want to install a h as SQL Server Managa SQL Server Managa in di you want to add fea Analysis Service analysis Service analysis e must be the same edit Instance ID MSSQL12.VIDEOOS.	2014 I new instance of SK memor Studio or Into QL Server 2014 Universe to an existing es to the instance t tion. Features SQLEngine	QL Server or want to inst egration Services. Instance of SQL Server. that contains the Database Edition Express	all shared For example, you se Engine. Features Version 12.0.2000.8	Global Rules Microsoft Update Product Updates Install Steup Files Install Rules Install Rules Installation Type License Terms Feature Selection Feature Selection Feature Selection Server Configuration Server Configuration Database Engine Configuration Reporting Services Configuration Feature Configuration Rules	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2014 EXPRESS These license terms are an agreement between Microsoft Corporation (or based on where yo which includes the media on which you received it, if any. The terms also apply to any Microsoft updates, updates, supplements, laccept the license terms mon on Custome Experience Improvement Program ("CEIP") and Error Reporting to help improve mality-calibits and proferement or Microsoft SOI. Snuer 2014.	oft
Installation Progress Complete			< Back	Next > Cancel	Help	Installation Progress Complete	See the Microsoft SQL Server 2014 Privacy Statement for more information. * Microsoft SQL Server 2014 also includes a Visual Studio component that will have CEP settings for  for by default. If Visual Studio is installed, this component will use the CEP settings for Visual Studio	ned Jp

# Click Perform a new installation od SQL Server 2014 Accept the licensing terms and click next

1	SQL Server 2014 Setup	- 🗆 🗙	🐮 SQL Server 2014 Setup – 🗆 🗙
Feature Selection           Select the Express features to install.           Global Rules         Feature description:           Microsoft Update         Instance install		Feature description:	Instance Configuration Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path. Global Rules Microsoft Update Named instance: SQLEppress
Product Updates Install Setup Files Install Rules Installation Type License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration		Product Updates     Install Rules       Install Rules     Instance ID:       SQLEXPRESS     SQLEXPRESS       Install Rules     Instance ID:       SQLExpress     SQLEXPRESS       Instance Rules     SQL Server directory:       C\Program Files\Microsoft SQL Server\MSSQL12.SQLEXPRESS       Feature Rules     Reporting Services directory:       C\Program Files\Microsoft SQL Server\MSRS12.SQLEXPRESS       Server Configuration     Installed instance:       Database Engine Configuration     Installed instance:       Instance Name     Instance ID       Detabase Engine Configuration     Instance ID	
Reporting Services Configuration Feature Configuration Rules Installation Progress Complete	Select All Unselect All Instance root directory: CAProgram Files/M Shared feature directory: CAProgram Files/M Shared feature directory (x86): CAProgram Files (d	icrosoft SQL Server\	Reporting Service: Configuration Feature: Configuration Rules Installation Progress Complete
	< Back	Next > Cancel Help	< Back Next > Cancel Help

Select all features(default) and click Next



1	SQL Server 2014 Setup	- • ×	ti -	SQL Server 2014 Setup – 🗖 🗙
♥ Server Configuration Specify the service accounts and Microsoft Update Product Update Product Update Install Rules Install Rules Install Rules Install Rules Install Rules Feature Rules Instance Configuration Server Configuration Reporting Services Configuration Restrue Configuration Progress Complete	SQL Server 2014 Setup scellation configuration. Service Accounts Collation Microsoft recommends that you use a separate account for eas Service Account Name SQL Server Database Engine NT ServiceMSSQLSSQL SQL Server Browser NT ServiceMSSQLFDIa. SQL Server Browser NT AUTHORITYLLOCAL	h SQL Server service Password Automatic V Automatic V Automatic V	Totabase Engine Configuration           Specify Database Engine authentication secur           Global Rules           Microsoft Update           Product Update           Product Update           Installation Type           License Terms           Feature Rules           Installer Stection           Feature Rules           Installer Configuration           Service Configuration           Reporting Services Configuration           Feature Configuration           Feature Rules           Installer Configuration           Feature Configuration           Feature Configuration           Feature Rules           Installer Configuration           Feature Rules           Installer Configuration           Feature Rules           Installer Configuration           Feature Rules           Installer Tope Configuration           Specify Configuration           Common           Specify Configuration           Complete	SQL Server 2014 Setup –  X X SQL Server 2014 Setup –  X X X X X X X X X X X X X X X X X X
	< Back New	t > Cancel Help	Add Cu	irrent User Add Remove

### Make sure all "Startup type" is set to Automatic. Change "Windows authentication mode" to Mixed mode

SQL Server 2014	Setup – 🗆 🗙	15	SQL Server 2014 Setup – 🗖 🗙
SQL Server 2014      Database Engine Configuration      Server Configuration Data Directorie      Global Rules      Microsoft Update Product Updates Install Rules Reature Selection Feature Rules Installe Configuration Server Configuration Server Configuration Server Configuration Repating Service Configuration Repating Features Configuration Repating Features Configuration Repating Features Configuration Repating Service Configuration Repating Features Configuration Repating Service Configuration Repating Service Configuration Repating Configuration Repating Configuration Repating Configuration Repating Configuration Repating Configuration Repating Configuration Rules Installation Progress Complete	Setup – C X Setup – K Setu	C Reporting Services Co Specify the Reporting Services Global Rules Microsoft Update Product Updates Installation Type Licens Terms Feature Rules Installation Type Licens Terms Feature Rules Instanes Configuration Database Engine Configuration Reporting Services C	SQL Server 2014 Setup -  X X
	< Back Next > Cancel Help		< Back Next> Cancel Help

Assign password for mixed mode(sa password)

### Click Install and configure and click next

1	SQL Server 2014 Setup	- 🗆 🗙	1	SQL Server 2014 Setu	p –	□ ×
Installation Progress			Complete Your SQL Server 2014 installat	ion completed successfully with product updates.		
Global Rules Microsoft Updates Product Updates Install Scup Files Install Rules Install Rules Licence Terms Feature Rules Instance Configuration Server Configuration Reporting Services Configuration Reporting Services Configuration	Setting feature install state.		Global Rules Microsoft Updates Product Updates Install Scup Files Install Rules Installation Type Licence Terms Feature Rules Instance Configuration Server Configuration Server Configuration Reporting Services Configuration	Information about the Setup operation or possible Feature Management Tools - Complete Client Tools SDK Client Tools SDK Client Tools SDK Remotion Services - Native Penalties Details: Viewing Product Documentation for SQU Only the components that you use to view a been installed. By default, the Help Viewer of Network State	ske next steps: Status Succeeded Succeede	er have
Installation Progress	Next >	Cancel Help	resulte Comparation Aules Installation Progress Complete	SuL server, you can use the Help Lbray M your local complet. For more information, e (chttp://go.microsoft.com/Wink/X2.ink/D=29 Summay log file has been saved to the followin <u>CuProgram Filer/Microsoft SQL Serveh 120/Setu</u> 7.20160220 180045.bt	Ianager component to download documentati see Use Microsoft Books Online for SQL Ser <u>5578</u> ). g location: <u>p Bootstrapilogi20180220 180045\Summary I</u> Close	on to er <u>WORK-</u> Help

Installation will start

#### Make sure there is no failure. Click Close to finish



# 3.2 Install Onvif Device Manager

Onvif device manager is needed for confirming camera connections. It is necessary to install.

D May :		s//www.google.com/iserch/iserces/splais/LSDW4_DAVuA /P + 🗟 C G Onel Device Manager - Ga x
	Goo	Onvif Device Manager Q
		All Images Videos News Maps More Settings Tools
Google		About 165,000 results (0.41 seconds)
On/if Device Manager		ONVIF Device Manager download   SourceForge.net
Google Bearch I'm Feeling Lucky		★★★★ Rating: 4.7 - 15 votes Nov 15, 2016 - Download ONVIF Device Manager for free. Network video device management software. ONVIF Device Manager is a Network Video Client
Geople offend in: E1538		ONVIF Device Manager / Wiki / Home - SourceForge
Japan Adwrtising Deciness Alcost	Privacy Terms Suttings	ONVIF Device Manager is a Network Video Client (NVC) to manage Network Video Transmitters (NVT) and Network Video Analytics (NVA) devices. Implements

Open Google in your web browser and search Onvif Device manager or

directly open the link: <a href="https://sourceforge.net/projects/onvifdm/">https://sourceforge.net/projects/onvifdm/</a>

CO IN MUSE // KA	CE <b>FORGE</b>	ilání	P = B C ⊗ ONVIF Dev	ice Manager do ×	Browse	Blog	Deals	Help		FORGE	2/download D • C 🛞 D	ownload ONVIF Device M., ×	Browse	Blog	Deals	Help	Cre
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ONVIF Device (NVS) and Net	Manager is a Ne work Video Ana	twork Video Cl vtics (NVA) dev	lient (NVC) to manage	Network Vide	o Transmitters (I Media. Imaging.	NVT), Network Analytics. Ever	Video Stora	age	<b>phone</b> do	Make Infor Compare all	u want to run or save <b>odm-v2.2.2</b> his type of file could harm your co	50.msi (23.9 MB) from jaist.dt.sourcefo imputer.	rge.net?		ħ.	Sne	× Cancel

Click "Download"

Save the Onvif device manager setup file.

After downloading, please double click the setup and start installing.

🖞 ONVI	F Device Manager v2.2.250 Setup 🛛 🗖 🗙	🞲 ONVIF Device Manager v2.2.250 Setup 🛛 – 🗆 💌
$\odot$	Welcome to the ONVIF Device Manager v2.2.250 Setup Wizard	Destination Folder Click Next to install to the default folder or click Change to choose another.
	The Setup Wizard will install ONVIF Device Manager v2.2.250 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.	Install ONVIF Device Manager v2.2.250 to: C:\Program Files (x86)\Synesis\ONVIF Device Manager\ Change
	Back Next Cancel	Back Next Cancel





Click "Install"

Click "Finish"

# 3.3 Download Milestone Xprotect Application





XProtect Enterpris XProtect Essential

XProtect Essential NVR

XProtect Essential+

XProtect Expert

XProtect Express+ XProtect Go

XProtect LPR

XProtect Input Unit Plug-ins

🔷 Milestone Systems - Dov 🗙 🔪 → C 🔒 保護された通信 | https://www.milestonesys.com/support/resources/download-software/ Welcome to the Download section, where you can download Milestone software and device packs in the version and language you need. Be sure to choose your download location before you click "Filter". This will speed up the download process. Download location Europe ۳ Product Language Туре Version -- All --. Software v -- Select current version --۳ English v XProtect Analyti Filter XProtect Central XProtect Corporat Version Size ٤ \$

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2017 R3 (11.3a)

1.0.7

1.65 GB

1.18 GB

331.55 MB

280.48 MB

9.57 MB

95.39 KB

123.27 MB

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			Download location	Japan		Ŧ					
	Pr	oduct	Туре	Version	ı		Langu	age			
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	۵	XProtect Express									
		Milestone EULA				20170814		95.39	KB		
		XProtect Smart Client 32-bit				2017 R3 (11.3a)		291.99	MB		
		XProtect Smart Client 64-bit				2017 R3 (11.3a)		343.22	MB		
		Server-Side XProtect Smart Client 32	-bit			2017 R3 (11.3a)		292.02	MB		
		Server-Side XProtect Smart Client 64	-bit			2017 R3 (11.3a)		343.25	MB		
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		ReadMe				2017 R3 (11 3a)		2.62 K	R		

Download XProtect Professional VM Products.

You can also directly go to download area by clicking the link:

https://www.milestonesys.com/support/help-yourself/manuals-and-guides/?prod=159&type=13&lang=27



#### Start Xprotect installation 3.4

After downloading, click on the downloaded file to run setup as below:

×	Milestone XProtect® Professional VMS Products 2017 R3
Choose	language
Language:	English (United States) v
	Continue Cancel



Choose installation directory

Click Install Trial or put your license ID to install



×



٥	Milestone XProtect® Professional VMS Products 2017 R3	×	٥	Milestone XProtect® Professional VMS Products 2017 R3	×
	Checking and preparing your computer for installation			Restart the computer to continue the installation.	
\$	Milestone XProtect® Professional VMS Products 2017 R3	×	•	Milestone XProtect® Professional VMS Products 2017 R3	×
	Installing Milestone XProtect Professional VMS Products 2017 R3			The installation is complete These components have been successfully installed.	
	Installing Professional VMS Products 2017 R3 Overall progress			XProtect Event Server (64-bit) Professional VMS Products 2017 R3 XProtect Smart Clent 2017 R3 (64-bit) Milestone Mobile Server 11.3a (64-bit)	
	Cancel			Close	

#### Confirm that Installation is complete

# 3.5 Conduct Milestone Xprotect configuration





#### Run Milestone Xprotect Management(Desktop)

#### Choose Xprotect Express 2018 R1



#### Xprotect Express will start running

Xprotect will ask to scan your network. Click Yes



Click "Scan local network" to find cameras

Choose "All manufacturers" and click Next

	XProtect Getting Started	
Scan complete	Windows Security Alert	
You need to provid	Windows Firewall has blocked some features of this app	
	Windows Firewall has blocked some features of devicediscoveryproxysrv on all public and private networks.	Scan again
2 device(s) found.	Name: devicediscoveryproxysrv	
	Publisher: Unknown	
Axis 8 chann	Path: C:¥program files (x86)¥milestone¥milestone survellance ¥driverproxysrv¥devicediscoveryproxysrv.exe	
NONE IPC62	Allow devices in the yproxysm to communicate unit the networks:	
	Dublic networks, such as those in arports and coffee shops (not recommended because these networks often have little or no security)	
	What are the risks of allowing an app through a frewal?	
1 of 2 device(s) wil	W Allow access Cancel	
		_
	Previous Next	Cancel

						Scan again
2 device(s) found.						
Axis 8 channel device	192.168.0.10	80	User Name	Password	Go	
NONE IPC6242SR-X22U	192.168.0.106	80	>			

Approve the firewall and click "allow access"

Choose cameras you wish to add



XProtect Getting Started	XProtect Getting Started
Configuring your system	Your system is configured and ready to use
urung up worsije and sounig universion.	C Automatically add new cameras to my system as they are detected on the network
	Specify the default setting for audio recording when new cameras are added. You can change the setting later for each camera individually. Default for audio recording: Only when recording video $\sim$
	Open XProtect Smart Client so I can operate my cameras
	ОК

Cameras are being added to the system

Configuration finished. Click OK

In some computers, due to 80 port usage by another application, software might give a warning after configuring the system.

	Server Access Properties — —	
Port in Use		
Pot in use The image Server service cannot stat because port 80 is used by another process. Change the pot in order for the image Server service to be able to run. 1 Change Ignore ding Server access Server name: Server Lo 2 8080 Enable internet access: Internet address: Internet pot: 0 Max. number of clients: 5	Server Access Local IP Ranges Language Support and XML Encoding  Finable internet access  Internet port Max. number of clients: 5	
Port change warning. Click Change and	Зок Са	incel

Put another port number. Here we write 8080. You need to use this port no along with server IP address when logging into the Milestone Xprotect client or server application. After port change, below screen opens.

If assigned port is allocated by another application, please give another port number so that new port no is not being used by another application in your computer.

15





#### Main window of Xprotect Management



Click the camera you wish to monitor



	Milestone XProt	tect Express 20	018 R1 Mana	agement A	pplication - 3	80-Day 1	rial	_ 🗆 🗡
File Services Wizards Optio	ons Help							
6 6 6 6								
Surveillance Server     Setting started     Advanced Configuration     Hardware Devices     Configuration	milestone							
- So Camera 1 - So Camera 2 - So Camera 3 - So Camera 4	Hardware Dev	ice Summa	ary:					
Camera 5	Hardware Device Name	License	Video Channels	Microphone Channels	Address	www	Port	Device Driver
Camera 6 Camera 7	Hardware Device 1	Trial	8	1	192.168.0.4	6	80	AXIS P1365 Mk II Network Camera
Camera 8	Hardware Device 2	Trial	1	1	192.168.0.106	6	80	NONE IPC6242SR-X22U
Camera 9	Hardware Device 3	Trial	1	1	192.168.0.102	6	80	Sony SNC-VB6xx/VM6xx/EM6xx Series
Camera 10	Hardware Device 4	Trial	1	1	192.168.0.105	ø	80	Avigilon 5.0-H3-B2
Microphones     Fvents and Output								

All hardware devices are displayed in "Hardware Devices"



Run the Xprotect Smart Client shortcut in Desktop. Put Server IP (localhost here), choose Authentication and click "Connect". If you changed the port number, please put port number after localhost (For example, localhost:8080)





Xprotect Smart client window. Make sure cameras are playing correctly.

# 3.6 Install APS-Milestone Plugin



Click the installation file that has been sent by Ayonix. If you do not have, contact our company.



•	Ayonix Milestone Plugin Setup	😨 Ayonix N	filestone Plugin Setup	×
	Welcome to the Prerequisites         Wizard         The setup has determined that some of the prerequisites needed to run this program are missing. This wizard will assist you in getting and installing those prerequisites. Click Next to continue to the list of prerequisites.         Click Finish at any time to completely skip the installation of prerequisites and jump to the installation of the main program. Click Cancel to cancel the installation and exit the Setup Wizard.	Prerequisites These programs are needed for the ages programs are	version Found: nothing. Found: nothing. Found: nothing. Found: nothing. Found: nothing. Found: nothing. Found: nothing.	ck box Action Install Install Install Install Install
	Back Next Finish Cancel		Back Next	Finish Cancel

#### Starting APS-Milestone plugin

#### Confirm the prerequisites





	Ayonix Milestone Plugin Setu	p × <	\$ Milestone ONVIF Bridge 2018 R1	
Prerequisites Please wait	s Install It while the selected prerequisites are installed.	2	Select file location and product language	
Name Microsoft Visu Microsoft Visu Microsoft Visu	ual C++ 2015 Redistributable (x64) - 14.0.23026 ual C++ 2012 Redistributable (x64) - 11.0.61030 ual C++ 2013 Redistributable (x64) - 12.0.30501	Status Installed Installed	File location: C:\Program Files\Milestone	Browse
VideoOS Insta Redis	aller Unpacking	Installing Pending	Free disk space on drive: 86 GB	
0	Cancel	aming (Ayonix (Ayonix	Product language: English (United States) v	
Autom	Back Next	equisites install.	Previous Instal	Cancel

#### Onvif Bridge installation

	Milestone C	NVIF Bridge 201	8 R1		×	\$	Milestone ON	VVIF Bridge 2018 R1		×
Specify Enter the ac log in, and t Server URL Log in as: User name Password:	y the primary surve dress of the primary surveillan he user name and password u localhost User account	eillance system to which y sed for this login.	vem server	nver should		Specify Enter the add log in, and th Server URL: Log in as: User name: Password:	the primary surveil ress of the primary surveillance user name and password use locathost 8080 User account AYONIXYOGANayy	system to which your of this login.	server	er should t this from
						Comp	uter password	Sm	artclien	t login wind
		Previous	Continue	Cancel				Previous	intinue	Cancel

Put login information. Localhost is your default Milestone server. If port has been changed, add port number. Else, please put only localhost as "Server URL". "Username" and "password" is your computer login information. You need to put computer name and computer username. Here, AYONIXYOGA¥ayonix is used as User name. You can get exact User name by copying it from User name field of *Smart Client*.

opeony are	prinary surveilance sys	Same informatio	Computer	
Enter the address of	of the primary surveillance system to which		localhost:8080	•
og in, and the user	i name and password used for this login.		Authentication:	
Server URL:	http://localhost.8080		Windows authentication	-
.og in as:	User account	*	Domain: ayonixyoga	
Jser name:	ayonixyoga\ayonix		User name:	
assword:	*****		ayonixyoga\ayonix	<b>.</b>
		Copy and Paste	Password:	
			Remember password	



Milestone ONVIF Bridge 2018 R1	×	•	Milestone ONVIF Bridge 2018 R1	×
Accept the Milestone license agreement		Select the insta	Ilation type	
Milestone End-user License Agreement	^			
NOTE: If you are a Milestone Dealer, systems integrator or are otherwise installing this Product on behalf of a third party, you shall ensure that you have their acceptance of this End User License Agreement.		Typical	This option installs all components needed to run Milestone ONVIF Bridge Server on this computer.	
This End-user License Agreement (EULA) is a legally binding agreement between you (either an individual or a single legal entity) and Milestone Systems AS? (Milestone') for the Milestone product or utility, which may include associated software and hardware components, media, printed materials, online or electronic documentation and any updates or corrections (Product'). If you have purchased the Product as part of a computer or server system delivered by Milestone all hardware and software components of such system shall for the purpose of this EULA be considered being parts of the Product, except however for any third party software or hardware component which is covered by a separate third party license agreement included in the system documentation or otherwise incorporated in the		Custom	This option allows you to change the default values for the installation parameters.	
system. By installing, copying, or otherwise using the Product, you agree to be bound by the terms of	v			
Previous Continue Cancel				
Milestone ONVIF Bridge 2018 R1	× 🛇		Milestone ONVIF Bridge 2018 R1	2
Milestone ONVIF Bridge 2018 R1	×	The installation	Milestone ONVIF Bridge 2018 R1	
Milestone ONVIF Bridge 2018 R1	×	The installation	Milestone ONVIF Bridge 2018 R1 is complete een successfully installed.	C
Milestone ONVIF Bridge 2018 R1 Installing Milestone ONVIF Bridge Server	× •	The installation These components have but Miestone ONVIF Bridge Se Miestone ONVIF Bridge Ac Miestone ONVIF Bridge Ac	Milestone ONVIF Bridge 2018 R1 is complete een successfully installed. erver ministration plug-in (32-bit) ministration plug-in (64-bit)	
Milestone ONVIF Bridge 2018 R1 Installing Milestone ONVIF Bridge Server Installing Milestone ONVIF Bridge Server Overall progress	× •	The installation These components have be Miestone ONVIF Bridge Se Miestone ONVIF Bridge Ac Miestone ONVIF Bridge Ac	Milestone ONVIF Bridge 2018 R1 is complete een successfully installed. erver ministration plug-in (32-bit) ministration plug-in (64-bit)	
Milestone ONVIF Bridge 2018 R1 Installing Milestone ONVIF Bridge Server Installing Milestone ONVIF Bridge Server Overal progress	× •	The installation These components have be Miestone ONVIF Bridge Se Miestone ONVIF Bridge Ac Miestone ONVIF Bridge Ac	Milestone ONVIF Bridge 2018 R1 is complete een successfully installed. erver dministration plug-in (32-bit) dministration plug-in (64-bit)	
Milestone ONVIF Bridge 2018 R1 Installing Milestone ONVIF Bridge Server Installing Milestone ONVIF Bridge Server Overall progress	* •	The installation These components have be Miestone ONVIF Bridge Se Miestone ONVIF Bridge Ac Miestone ONVIF Bridge Ac	Milestone ONVIF Bridge 2018 R1 is complete een successfully installed. erver ministration plug-in (32-bit) ministration plug-in (64-bit)	

After Onvif bridge installation, Redist packagew installation starts:

9	Setup - Redis 🛛 🗕 🗖 🗙	😂 Setup - Redis 🗕 🗆 🗙
	Welcome to the Redis Setup Wizard This will install Redis version 2.4,6.0 on your computer.	License Agreement Please read the following important information before continuing. Please read the following License Agreement. You must accept the terms of this
🥗 redis	It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.	agreement before continuing with the installation.  Redis Copyright (c) 2006-2012, Salvatore Sanflippo Redis Windows Service and Setup Copyright (c) 2011-2012, Rui Lopes All rights reserved.  Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  © I accept the agreement  I do not accept the agreement
	Next > Cancel	< Back Next > Cancel



Setup - Redis	- 🗆 🗙 🕯	3	Setup - Redis	_ 🗆 🗙
Select Destination Location Where should Redis be installed?	۲	Select Start Menu Fold Where should Setup pla	er ce the program's shortcuts?	
Setup will install Redis into the following folder. To continue, click Next. If you would like to select a different folder, click C: Program Files/Redis	c Browse	Setup will crea	te the program's shortcuts in the following St. If you would like to select a different folder,	art Menu folder. click Browse. Browse
At least 2.1 MB of free disk space is required.	Cancel		< Back Next	> Cancel
Setup - Redis	- 🗆 × I	9	Setup - Redis	_ 🗆 🛛
Ready to Install         Setup is now ready to begin installing Redis on your computer.         Click Install to continue with the installation, or click Back if you want to change any settings.         Destination location:         C:\Program Files\Redis         Start Menu folder:         Redis	review or	iedis	Completing the Redis Wizard Setup has finished installing Redis on yc application may be launched by selectin Click Finish to exit Setup. View README, bxt Uncheck this and click	Setup ur computer. The g the installed icons. ick Finish
< Back Install	Cancel		Fin	ish

All prerequisites are installed. If there is already installed requisite, software asks what to do. In this case, cancel the installation. Plugin bypasses and goes to install other prerequisites.

谩	Ayonix Milestone Plugin Setup	🛃 Ayonix Milestone Plugin Setup
	Welcome to the Ayonix Milestone Plugin Setup Wizard	Installation Type Choose the installation type.
	The Setup Wizard will install Ayonix Milestone Plugin on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.	Install Ayonix Milestone Plugin for: Only for me (ayonixdell) Everybody (all users)
	< Back Next > Cancel	Advanced Installer < Back Next > Cancel

After prerequisites, installation starts Click to Next to go.



B Ayonix Milestone Plugin Setup	😸 Ayonix Milestone Plugin Setup – 🗆 🗙
End-User License Agreement Please read the following license agreement carefully	Select Installation Folder This is the folder where Ayonix Milestone Plugin will be installed.
Ayonix End-user License Agreement (AYONIX EULA)	To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
installing this Product on behalf of a third party, you shall ensure that you have their acceptance of this End User License Agreement. This End-user License Agreement (EULA) is a legally binding agreement between you (either an individual or a single legal entity) and Ayonix Corporation ("Ayonix") for the Ayonix product or utility, which may include associated software and hardware components. media. printed materials.	Eolder: C:¥Program Files (x86)¥Ayonix¥Ayonix Milestone Plugin¥ Browse
I do not accept the terms in the License Agreement Advanced Installer <back next=""> Cancel</back>	Advanced Installer   Kerken State   Kerken State

Accept AYONIX-EULA and click Next.

Install the software to default location as given.



Choose installation folder. It is recommended to keep default settings Finally click "Install" and after installatio is complete, click "Finish". Please remember that setup spends a lot of time during execution of XML file system. Please be patient to finish up the plugin installation.

# 3.7 License the APS-Milestone Plugin

			lic				x
Share	View						~ <b>(</b> )
]] 	nis PC → Local Disk (C:)	<ul> <li>Program Files (x86)</li> </ul>	Ayonix → Ayonix Milest	one Plugin 🕨 Fram	nework → lic	C Search lic	Q
	↑ Name	*	Date modified	Туре	Size		
	AyonixFaceID	5_3_30.lic	2017/05/04 12:56	LIC File	1 KB		
s	🐑 AyonixLicense	Manager	2015/11/13 15:13	Application	308 KB		
ices		2					



Open *"C:¥Program Files(x86)¥Ayonix¥Ayonix Milestone Plugin¥Framework¥lic"* folder and run AyonixLicenseManager software.

😑 Ayonix License Manager – 🗆 🗖	🖸 🖻 Open 💌
Product License Details	(e) → ↑ (i) ≪ Framework → lic v C) Search lic P
Product License Details	Organize 🔻 New folder 🛛 🕅 🔞
Product:	Downloads A Name Date modified Type
	Recent places AyonixFaceID_5_3_30.lic 2017/05/04 12:56 LIC File
Version:	🜏 Homegroup
# of days:	This PC
# of DLL loads:	Le Desktop
Dongle required:	Documents
	Music
License Operations 3	Je Pictures
Read License File Read Activation File	Local Disk (C:)
Avonix License Manager	🕞 New Volume (D:) 🗸 🧹
Activate ver 5.0	File name: AyonixFaceID_5_3_30.lic v Encense nie (Lic) v
	4 Open 🕝 Cancel

Click "Read License File" and choose the lic file inside /Framework/lic inside *Ayonix Milestone Plugin* installation directory.

Ayonix License	e Manager 🛛 🗕 🗖 🗙	•	Save As			×
Product License Details		🔄 🏵 🕆 🚹 🕇 T	This PC → Desktop →	マ C Search Desktop		,P
		Organize 👻 New fold	der		•	0
Product: Ayonix Face ID		☆ Favorites	Name	Date modified	Туре	
		Desktop	Flx_files	2018/01/23 14:54	File folder	
Version: 5 3		🐌 Downloads	🎉 marking-tool	2016/12/08 9:12	File folder	
		🔛 Recent places	퉬 movie-tool	2017/02/07 10:46	File folder	
# of days: 30			STEP1-Milestone Server install	2018/02/20 16:21	File folder	
# of DLL loads: 0		🔣 Homegroup	STEP2-APSMilestone plugin install	2018/02/20 16:41	File folder	
# OF DECIDENTS			🎉 suginuma	2016/12/08 9:14	File folder	
Dongle required:		🌉 This PC	🛃 BAITO LOGIN	2016/12/26 14:20	Shortcut	
		he Desktop				
License Operations		Documents				
		bownloads			_	
Read License File Read Activation File		Music 👻	· ·			,
	Aveniu Lisense Manager	File name: Ayor	nixFaceID_5_3			~
Generate Activate	ver 5.0	Save as type: Activ	vation Request File (.req)			~
Activation Request						
		Hide Folders		Save	Cancel	el l
				6	/	.d

Click "Generate Activation Request" and save the file to your computer.

E	Ayonix License	e Manager 🛛 🗕 🗆 🗙
Product License Details	<b>;</b>	
Product: Ay	onix Face ID	
	AyonixLicense	Manager ×
# # of D Dongle r	Saved activation request t	file AyonixFacelD_5_3.req
License C		ок
Read cicense mie	Read Acuvation File	1
Generate Activation Request	Activate License	Ayonix License Manager ver 5.0



#### Req license file is saved to the computer. This file must be sent to "support@ayonix.com"

😑 Ayonix License Manager – 🗆 🗙	Open	×
Pard at Userse Data in	► This PC → Desktop v C Search Desktop	Q,
Product License Details	New folder	
Product: Ayonix Face ID	Name     Date modified	Туре
Version: 5 3 # of days: 30 # of DLL loads: 0 Dongle required: License Operations	Ids Ilaces Jp	ACT File
Read License File Read Activation File	105	
Generate Activate License Activation Request	✓ < File name: ✓ Lienne Autivation File (.act) Open ▼ Cance	vel

You will get approval license key "AyonixFaceID\_5.3.act"

Open "C:¥Program Files(x86)¥Ayonix¥Ayonix Milestone Plugin¥Framework¥lic" folder and run AyonixLicenseManager software again. Click "Read Activation File" and select AyonixFaceID\_5.3.act file

😑 Ayonix License Man	ager ↔ 🗕 🗆 🗙	-	Save As			×
Product Linear Potelle		🔄 🏵 🕆 🚹 🕨 Th	nis PC 🔸 Desktop 🔸	マ C Search Desktop		Q
Product License Details		Organize 🔻 New folde	er		•	0
Product: Ayonix Face ID		☆ Favorites	Name	Date modified	Туре	
		E Desktop	퉬 Flx_files	2018/01/23 14:54	File folder	
Version: 5 3		🗼 Downloads	퉬 marking-tool	2016/12/08 9:12	File folder	
version. 5 5		Recent places	퉬 movie-tool	2017/02/07 10:46	File folder	
# of days: 30			퉬 STEP1-Milestone Server install	2018/02/20 16:21	File folder	
# of Dill loader		🔣 Homegroup	퉬 STEP2-APSMilestone plugin install	2018/02/20 16:50	File folder	
# Of DEC IOAUS: 0			🍌 suginuma	2016/12/08 9:14	File folder	
Dongle required:		🖳 This PC	🛃 BAITO LOGIN	2016/12/26 14:20	Shortcut	
		he Desktop				
License Operations		Documents				
		Downloads			_	
Read License File Read Activation File		Music *			_	
Provide and a second seco		File name: Ayoni	ixFaceID_5_3			~
Generate Activate	Ayonix License Manager	Save as type: Activa	ated License File (.alc)			¥
Activation Request License	VEI 5.0					
		Hide Folders		Save	Cancel	
					/	





Move AyonixFaceID\_5.3.alc file to *"C:¥Program Files(x86)¥Ayonix¥Ayonix Milestone Plugin¥Framework¥lic"* folder.

# 3.8 Configuration of APS-Milestone Plugin



R	😋 🛛 🗖 Task Manager 🔷 🗖 🗙								x
File Optio	ons View								
Processes	Performance	App history	Startup	Users De	tails Services				
11% 10% 1% 1%									
Name			Statu	s	CPU	Memory	Disk	Network	
Apps (4	)								^
⊳ 🎇 Irfa	anView 32-bit (3	32 bit)			0%	13.4 MB	0 MB/s	0 Mbps	
D 🙀 Ta	sk Manager				0.5%	9.5 MB	0 MB/s	0 Mbps	
👂 🔂 Te	amViewer 13 (3	2 bit)			0%	13.0 MB	0 MB/s	0 Mbps	
🖻 📄 Wi	ndows Explorer	r (2)			0.4%	38.3 MB	0 MB/s	0 Mbps	
Background processes (34)									
🔲 De	vice Associatio	n Framework .			0%	3.3 MB	0 MB/s	0 Mbps	
Þ 🔝 EL	FFLogCheckerS	ervice (32 bit)			0%	1.7 MB	0 MB/s	0 Mbps	
🔃 Ev	ent Server mana	ager			0%	12.2 MB	0 MB/s	0 Mbps	
🐻 Go	ogle Crash Har	ndler			0%	0.1 MB	0 MB/s	0 Mbps	
🐻 Go	ogle Crash Har	ndler (32 bit)			0%	0.1 MB	0 MB/s	0 Mbps	
💷 hk	cmd Module				0%	1.0 MB	0 MB/s	0 Mbps	
📑 Ho	Host Process for Windows Tasks		0%	2.9 MB	0 MB/s	0 Mbps			
💌 igf	xsrvc Module				0%	1.1 MB	0 MB/s	0 Mbps	~
er	details							End task	:

In windows taskbar, right click->Task Manager. Click "Services" tab.

12		Task Manager		- 🗆 🗙
File Options View				
Processes Performance App H	history 3	Startup Users Details Services		
Name	PID	Description	Status	Group
🌼 AyonixMilestoneService.exe		Ayonix Milestone Service	Stopped	
🔍 Milestone Mobile Service	2956	Milestone Mobile Service	Running	
Milestone Notification Server	1244	Milestone Notification Server	Running	
🔍 Milestone Image Import Se	3536	Milestone Image Import Service	Running	
🌼 Milestone Log Check Service	3208	Milestone Log Check Service	Running	
🌼 Milestone Image Server	4132	Milestone Image Server	Running	
🔍 Milestone Recording Server	4688	Milestone Recording Server	Running	
Milestone Service Control	860	Milestone Service Control	Running	
MilestoneEventServerService	756	Milestone XProtect Event Server	Running	
SQLAgent\$VIDEOOSDB		SQL Server Agent (VIDEOOSDB)	Stopped	
MSSQL\$VIDEOOSDB	1980	SQL Server (VIDEOOSDB)	Running	
SQLBrowser	3972	SQL Server Browser	Running	
🔍 SQLWriter	3348	SQL Server VSS Writer	Running	
🔍 WSearch	644	Windows Search	Running	
🔍 WMPNetworkSvc		Windows Media Player Network Sh	Stopped	
🧠 wmiApSrv		WMI Performance Adapter	Stopped	
🥋 WinDefend	1648	Windows Defender Service	Running	
🔍 WdNisSvc	2672	Windows Defender Network Inspec	Running	
🤹 wbengine		Block Level Backup Engine Service	Stopped	
🔍 VSS		Volume Shadow Copy	Stopped	
🔍 vds		Virtual Disk	Stopped	
🔍 VaultSvc		Credential Manager	Stopped	
🔍 UI0Detect		Interactive Services Detection	Stopped	~
🔿 Fewer details 🦓 Open S	ervices	)		



Q.		Services			- 🗆	×
File Action View	Help					
	3 🛃   🛛 📰   🕨 🔳 II 🕪					
🔍 Services (Local)	Services (Local)	-				
	Ayonix Milestone Service	Name	Description	Status	Startup Type	Log ^
	Start the service Description: Service that manages Camera grabber processes	<ul> <li>ActiveX Installer (Axl</li> <li>App Readiness</li> <li>Application Experien</li> <li>Application Identity</li> <li>Application Informa</li> <li>Application Informa</li> <li>Application Manage</li> <li>Application Manage</li> <li>AppX Deployment S</li> </ul>	InstSV) Provides Us Gets apps re Determines tion Facilitates t ateway Provides sun ervice ( Provides inf	Running	Manual Manual (Trig Manual (Trig Manual (Trig Manual Manual Manual	Loc Loc Loc Loc Loc Loc Loc Loc
		🙀 Ayonix Mileston So	nico Convice that		Automatic	Loc
		Background Int Background Ta Base Filtering Er BitLocker Drive Block Level Bac Bluetooth Hand Bluetooth Supp BranchCache Certificate Prop CMS Key Isolati COM+ Event Sy COM+ System	Start Stop Pause Resume Restart All Tasks Refresh Properties Help	Running Running Running	Automatic (D Automatic Automatic Manual (Trig Manual (Trig Manual (Trig Manual Manual Manual Manual Manual Manual Manual Manual	Loc Loc Loc Loc Loc Loc Net Loc Loc Loc Loc

Find Ayonix Milestone Service and do right click->Properties.

If you cannot find Ayonix Milestone Service inside Windows services, Run "Dos prompt" as admin by typing cmd in windows search and right click "Run as Administrator" and go to folder "C:¥Program Files(x86)¥Ayonix¥Ayonix Milestone Plugin¥Ayonix Milestone Service",

Either type "installservice.bat", push enter or run

c:\Windows\Microsoft.NET\Framework64\v4.0.30319\InstallUtil.exe -i AyonixMilestoneService.exe





Ayonix Milestone Service Properties (Local Computer)	Ayonix Milestone Service Properties (Local Computer)
General       Log On       Decovery       Dependencies         Service name:       Ayonix Milestone Service exe         Display name:       Ayonix Milestone Service         Description:       Service that manages Camera grabber processes	General       Log On       Recovery       Dependencies         Log on as:
Path to executable: "C:¥Program Files (x86)¥Ayonix¥Ayonix Milestone Plugin¥AyonixMilestoneS€ Startup type: Automatic ✓	Password: Confirm password:
Service status:       Stopped         Start       Stop       Pause       Resume         You can specify the start parameters that apply when you start the service from here.       Start parameters:	
OK Cancel Apply	OK Cancel Apply

In property window, click "LogOn" tab and click "This account". Click Browse button.

		Select Us	er
Select User	×	Select this object type:	
Select this object type:		Erom this location:	Object Types
User or Built-in security principal	Object Types	AYONIXYOGA	Locations
rom this location:		Common Queries	
AYONIXYOGA	Locations		
Enter the object name to select (examples):		Name: Starts with V	Columns.
	Check Names	Description: Starts with V	Find Nov
	T	Disabled accounts	Stop
		Non expiring password	
Advanced	K Cancel	Description last	Se
		Days since last lugon.	P
		L	
			OK Cancel
		Search results:	
		Name In Folder	
CK "Advanced" button		CIICK "FINd NOW"	



Select User	×		
Select this object type:			
Oser or Buildin security principal	Object Types	Soloct Licor	C 100 C 1
From this location:		Select Osel	
AYONIXYOGA	Locations	Select this object type:	
Common Queries			
	Columns	User or Built-in security principal	Object Types
Name: Starts with V	Columns	From this location:	
Description: Starts with V	Find Now	AYONIXYOGA	Locations
	Stop		Locatoris
Lisabled accounts	5.00	Enter the object name to select (examples):	
Non expiring password			Charle Names
Days since last logon: 🗸 🗸	<del>-</del>	ATOMIATOCIA WYONIK	Check Names
		1	
	OK Cancel	Advanced	OK Cancel
Search results:			Cite Control
Name In Folder		-4	
p Administrator AYONIXYOGA			
ayonix AYONIXYOGA			
AyonxService ATONIATOGA			
HomeGroupU AYONIXYOGA			
LOCAL SERV			
NETWORK S			
RedisService AYONIXYOGA			
	a construction of the second sec		

When all users are shown, click the user which has Admin rights (Generally the user which did windows login) and then click OK. In our case, active login user is ayonix. Ayonix user has admin rights.

Ayonix Milestone Service Manager Properties (Local Com ×	
General Log On Recovery Dependencies	
Log on as:	
Local System account     Allow service to interact with desktop	
This account: .\ayonix Browse	
Password:	Services
Confirm password:	The account .\ayonix has been granted the Log On As A Service right.
	ОК
OK Cancel Apply	

Type password of the selected user. If everything is done, click "OK"



Q,		Services					×
File Action View	/ Help						
	Q 🔒 🛛 🛐 📄 🕨 💷 🕬						
Services (Local)	Services (Local)						
	Ayonix Milestone Service	Name		Description	Status	Startup Type	Log ^
	Start the service Description: Service that manages Camera grabber processes	ActiveX Installer (A App Readiness Application Experi Application Identif Application Inform Application Layer Application Mana	ence ty nation Gateway gement	Provides Us Gets apps re Processes a Determines Facilitates t Provides su Processes in Provides inf	Running	Manual Manual Manual (Trig Manual (Trig Manual (Trig Manual Manual	Loc Loc Loc Loc Loc Loc Loc
		Avonix Milesto	Service (iii			Automatic	.\av
		Background In Background Ta Base Filtering E BitLocker Drive Block Level Bac Bluetooth Han Bluetooth Sup BranchCache Certificate Pro CNG Key Isolat COM+ Event S	Start Stop Pause Resume Restart All Task: Refresh Propert	s +	Running Running Running Running Running	Automatic (D Automatic Automatic Manual (Trig Manual Manual (Trig Manual Manual Manual Manual Manual Manual (Trig	Loc Loc Loc Loc Loc Loc Net Loc Loc Loc
		COM+ Event S	Help		Running	Automatic	Loc

Then Start the service "Ayonix Milestone Service"

APS-Milestone plugin will start running and system will be ready for face recognition operations after service is started.

# 3.9 Configure APS-Milestone plugin

To start configuring APS-Milestone plugin, you need to follow up below instructions.





Click Ayonix Milestone Plugin Manager shortcut in your desktop. In your first start, following setting window comes up

⊕	Database Setup	×
💮 ayo	nix	
App. Path	1 r Files (x86)¥Ayonix¥Ayonix Milestone Plugin¥AyonixCameraPlayer	
DB Instance	2	~
Usename	3	
Password		
4	Test 5 Setup	

1 - App Path: field is automatically filled with Application path.

2 - Db Instance: type sql server IP address and installation name. For instance, if sql is on 192.168.0.10 and chosen installation name is SQLEXPRESS, type "192.168.0.10\SQLEXPRESS". It is also automatically detected.

3- Type System Administrator username and password. System administrator is usually [sa].

4- Click on Test. A confirmation message must be displayed.

5- Click on Setup. A sequence of confirmation messages will be displayed, finished by a "Setup Successfully" message



		•	Database Se	tup	×
		ayon	x		
		App. Path	n Files (x86)\Ayonix\Ayonix Miles	stone Plugin AyonixCamera Player	
		DB Instance	AYONIXYOGA\SQLEXPRESS		~
		Usename	sa		
۰	Database Setup	Password			
ayon	ix		Test	Setup	
App. Path	n Files (x86)\Ayonix\Ayonix Milestone Plugin\AyonixCameraPlayer			×	
DB Instance	AYONIXYOGA\SQLEXPRESS v				
Usename	sa		Connection Stablished	I Successfully.	
Password		1			
	Test			ОК	

æ

Put credentials of SQL and click Test

This window comes to confirm the credentials.

•	Database Setup	×	•	Database Setup	×
ayon	ix		ayoni	ix	
App. Path	n Files (x86)\Ayonix\Ayonix Milestone Plugin\AyonixCameraPlayer		App. Path	n Files (x86)\Ayonix\Ayonix Milestone Plugin\AyonixCameraPlayer	
DB Instance	AYONIXYOGA\SQLEXPRESS	~	DB Instance	AYONIXYOGA\SQLEXPRESS	~
Usename	sa		Usename	sa	
Password			Password		
	Test Setup			Test Setup	
	Information			Information	
	Database Tables Were Successfully Created.			Saved Ayonix Database Information	
	ОК			ОК	

Clicking setup generates database tables.

It shows DB information is saved into Database.

×



•	Database Se	tup	×	•	Databa	se Setup	×
ayon	T Elles (+951) Aussie/ Aussie Miles	stone Dhunin August Compre Dhune		App. Path	n Files (x86)\Ayonix\Ayon	ix Milestone Plugin∖AyonixCameraPla;	yer
DB Instance	AYONIXYOGA\SQLEXPRESS	AYONIXYOGA\SQLEXPRESS V		DB Instance	AYONIXYOGA\SQLEXPRESS		
Usename Password	sa			Password			
	Test	Setup			Test	Setup	
		×	.11			×	
	written xml				Configuration file set	up successfully.	
	ОК					ОК	

9	Database Setup					
ayon	ix					
App. Path	m Files (x86)\Ayonix\Ayonix Milestone Plugin\AyonixCameraPlayer					
DB Instance	AYONIXYOGA\SQLEXPRESS					
Usename	\$8					
Password	•••••					
	Test	Setup				
1		×				
	Setup Completed successfully.					
	ОК					

A few confirmation messages appear and Database setup completes. After Database setup, server role management screen comes up.

During database setup, it generates several tables in SQL. You can confirm tables later by using SQL management studio.

After Database setup is complete, following screen opens:

Server Name:	Ayonix Server 1	
Server IP:	192.168.0.9	
Server Port:	9891	
Server Role:	Ayonix Master / Ayonix Worker	



1- Server Name: System will suggest an alias for new server. You can keep suggested name or change it freely, as long as it is a unique name.

2- Server IP: Select Server IP among the available system IP addresses.

3- Service Communication Port: System will suggest automatically a port available for communication. It is recommended to keep suggested port.

4- Server Role: Choose among one of the available roles for current server:

Ayonix Master: It is the matcher server. It receives data from workers, execute matchings and dispatch events.

Ayonix Worker: Captures images from one or more cameras and send face detection events to Master

Ayonix Master / Ayonix Worker: both roles will be executed into this server.

5- Click on Save button. A success message will Appear.

<b>1</b>	Server Manager	- 🗆 🗙	•	Server Manager	- 🗆 ×
Server Name:	Ayonix Server 1		Server Name:	Ayonix Server 1	
Server IP:	192.168.0.23	¥	Server IP:	192.168.0.23	~
Server Port:	9891		Server Port:	9891	
Server Role:	Ayonix Master / Ayonix Worker	· · ·	Server Role:	Ayonix Master	~
		Save			Save

If you wish to run everything in a single PC such as for a demo, assign Server role as Master and Worker.



If setting values are correct, Plugin server is set and confirmation window appear. Then following window for Milestone server setting appears.



<b>*</b>	Milestone Server Settings	5	-		×
💮 ayo	onix			2	
Server IP:	127.0.0.1	Server Port	:	8080	
Auth Type	Windows Authentication 3				~
Usename	4				
Password					
5	Test	6 Setu	p		

1 - Insert Milestone server IP. Keep it with 127.0.0.1 if milestone is installed in the local computer, otherwise type Milestone Server IP Address.

2 - Type Server port corresponding to Milestone Image Server service. On Milestone Corporate versions it is usually port 80. On Milestone Express versions it is usually port 8080

3 - Select Authentication type. For default installations it is recommended to authenticate using a windows account linked to Milestone System. select "Windows Authentication".

4 - Type Milestone User username and password.

5- Click on Test. A message with basic information about Server must appear. Otherwise, an error message will be displayed.

6 - Click on Setup. A sequence of confirmation messages will be displayed, finished by a "Setup Successfully" message

If values are not correct, it gives a connection error.

D	Milestone Ser	ver Settings	-		×
💮 ayo	onix				
Server IP:	localhost		Server Port:	8080	
Auth Type	Windows Authentication				¥
Usename	ayonix				
Password	*****				
	Test				×
		cant conne	ct to server. Erro	r: 408	
				ОК	

If you get connection error, please check port number, username, password.



•	Milestone Server Settings		-		x
💮 ayo	onix				
Server IP:	127.0.0.1	Server Port:		8080	
Auth Type	Windows Authentication				~
Usename	Default Basic				
Password	Windows Authentication Windows Authentication (Current User)				
	Test	Setup			

You can use Windows authentication for current windows user.

6	Milestone Server Settings	-	- 🗆 🗙
💮 ayo	onix		
Server IP:	127.0.0.1	Server Port:	8080
Auth Type	Windows Authentication (Current User)		~
Usename	ayonix		
Password			
	Test	Setup	3

Put username and password and click "Test" and then click "Setup"

gay	UTIX			w ay	XINC			
Server IP:	127.0.0.1	Sei	ver Port: 8080	Server IP:	127.0.0.1		Server Port:	8080
Auth Type Windows Authentication (Current User)		r)		Y Auth Type	Auth Type Windows Authentication (Current Us		ser)	
Usename	ayonix			Usename	Usename ayonix			
Password	d							
	Test		Setup		Test		Setup	

After successfully setup, above messages appear and configuration is completed.





You can enter and do configuration at anytime

from Ayonix Milestone Plugin manager.

# 3.10 Configure Milestone Server

### 3.10.1 Add Alert configuration

To configure the milestone server, *"Xprotect Management Application"* must be run. A shortcut is available in the desktop.







When double clicking "Xprotect management application", Xprotect Express window opens.

Main window of Milestone Xprotect management application.



When main window opens, click "Options->Settings..." in menu bar.





#### Setting window opens as below.

	Settings – 🗆 🗙
General Connecting hardware devices User Interface Default File Paths Audio recording Access Control Settings Alarms and Events Analytics Events	Milestone Customer Dashboard Send system information to Milestone Customer Dashboard. Examples of system information are camera failures, system errors and network errors.
	System mode         Image: Classic         Image: Evidence collection         The two system modes determine how your system handles recordings when your storage is full. Please read the help on this subject by pressing F1 before making any selection.
	Language English/English (United States)  The application must be restarted before the new language settings are applied.
	OK Cancel

In settings window, we will do several event adjustments. Click "Analytics Events"



	Settings	Settings
General Connecting hardware devices User Interface Default File Paths Audio recording Access Control Settings Alarms and Events Analytics Events	Analytics events  Enabled Port: 9090 Security Events allowed from: All network addresses Specified network addresses:  Address  Import	General       Imalytics events         Connecting hardware devices       Imalytics events         User Interface       Port         Default File Paths       9090         Audio recording       Security         Access Control Settings       Interwork addresses         Alarms and Events       Specified network addresses:         Analytics Events       Address         Import       Import

Click "Enabled" to enable the Analytics events and click OK to close settings window.



Click Analytics Events under "Events and Output" and right click->Create New.





	Analytics Events		
Analytics Events	Name:		
	Face detected Analytics E	vent	
		Test Event	
	Description:		
		ОК	Cancel

In Analytics Events window, Name the event. Here we name as Face detected Analytics event.







Below window opens. Enable the Alarm Definition. If "Create new" does not come, please close the Xclient, restart computer.

	Alarm	Definition	
Alarm Definition	Alarm definition		
	Enable:	<ul><li>✓</li></ul>	
	Name:	1 Alarm Definition	
	Instructions:		^
			~
	Trigger		
	Triggering event:	2	¥
			¥
	Sources:	3	Select
	Activation period		
	Time profile:	Always	¥
	O Event based:	Start:	Select
		Stop:	Select
	Operator action required		
	Time limit:	1 minute	~
	Events triggered:		Select
	Other		
	Related cameras:		Select
	Initial alarm owner:		$\vee$
	Initial alarm priority:	High	¥
	Initial alarm category:		~



- 1 On "Name" field, write "Face Detection Alarm"
- 2 On "Triggering Event" selection box, select "Analytics Events"
- 3 On "Sources" control, click on "Select" button to choose from a source

	Alarm Definition		-	□ ×
Alarm Definition	Alam definition			^
	Enable:	✓		
	Name:	Face Detection Alarm Definition		
	Instructions:		-	^
				Ų.
	Trigger			
	Triggering event:			$\sim$
				~
	Sources:		Select	
	Activation period			
	Time profile:	Always		~
	O Event based:	Start:	Select	
		Stop:	Select	
	Operator action required			
	Time limit:	1 minute		~
	Events triggered:		Select	
	Other			
	Related cameras:		Select	
	Initial alarm owner:			~
	Initial alarm priority:	High		~
	Initial alarm category:			* *
			ОК	Cancel

After enabling, name the alarm. We name it as Face detection alarm definition. After that, select Analytics event for "Triggering event"

	Alarm	Definition	- 🗆 ×
Alarm Definition	Alarm definition Enable: Name:	✔ Face Detection Alarm Definition	^
	Instructions:		Ŷ
	Ingger Triggering event:	Access Control Event Categories Analytics Events Cystem Events	~
	Sources:	Transaction events	



	Alarm	Definition	
larm Definition	Alarm definition		
	Enable:		
	Name:	Face Detection Alarm Defini	ition
	Instructions:		~
			~
	Trigger	L	
	Triggering event:	Analytics Events	¥
			×
	Sources-	Face detected Analytics Ev	ent
	Activation paried		Steleber
	Activation period		
		Aiways	•
	O Event based:	Start:	Select
		Stop:	Select
	Operator action required	-	
	Time limit:	1 minute	¥
	Events triggered:		Select
	Other		
	Related cameras:		Select
	Initial alarm owner:		v
	Initial alarm priority:	High	¥
	Initial alarm category:		~
			OK Cancel

Select "Face Detected Analytics Event" after selecting Triggering Event.

		Alarm	Definition	– 🗆 X
	Alarm Definition	Alam definition		^
		Enable:	$\checkmark$	
		Name:	Face Detection Alarm Definition	
1		Instructions:		^
				~
		Trigger		
		Triggering event:	Analytics Events	¥
			Face detected Analytics Event	¥
		Sources:		Select
		Activation period		
			ſ	

Click Select in "Source"



	Select Sources	×
Type filter: All	¥	
Servers	Add Remove	Selected:
1 ~ mar -	v	OK Cancel

Select "All cameras" from Sources.

	Select Sources	×
Type filter: All	v	
Servers  Access Control  Access Control Servers  All Access Control Servers  All Access Control Servers  All Access Control Units  All Access Control Units  All Access Control Units  All Cameras  All Inputs  All Inputs  All Microphones  All Mobile Servers  All Mobil	Add Remove	ancel

Add "All Cameras" to the right panel.

	Select Sources	×
Type filter: All	¥	
Servers	Add Remove	Cancel

Click OK after adding "All cameras"



	Alarm Defi	nition	- 🗆 🗙
Alarm Definition	Alarm definition		^
	Enable:		
	Name:	Face Detection Alarm Definition	
	Instructions:		^
			~
	Trigger		
	Triggering event:	Analytics Events	¥
		Face detected Analytics Event	¥
	Sources:	All Cameras	Select
	Activation period		
	Time profile:	Always	¥
	O Event based:	Start:	Select
		Stop:	Select
	Operator action required		
	Time limit:	1 minute	~
	Events triggered:		Select
	Other		
	Related cameras:		Select
	Initial alarm owner:		v
	Initial alarm priority:	High	¥
	Initial alarm category:		¥ ¥
			OK Cancel

Confirm Triggering events and click OK to close Alarm definition.

		Mil	estone XProtect Express 2017 R3 Mana	gement Application - 30-Day	' Trial	- 8 ×
File Services Wizards Option	ns Hel	р				
°e 🔚 🙂 🚌 🚮 🥥 🚱						
Surveillance Server     Setting started     Advanced Configuration     Hardware Devices     Surveillance Storage I     Mirconhase	mi	estone				
Keepining     Keepining	A	larm Definitions:				
Hardware Input Ev	Enable	Alarm	Triggering Event	Sources	Activation Period	Belated Cameras
Hardware Output	~	Face Detection Alarm Definition	Face detected Analytics Event	All Cameras	Time profile: Always	
Generic Events						
Scheduling and Archivi						
Logs						
Notifications						
Central						
Access Control						
Server Access						
Services						
- Servers						
🚊 🥳 Alarms						
😥 🌏 Alarm Definitions						
🦾 👧 Alarm Data Setting						
Sound Settings						
MID Plus iss						
Transact						
Transaction source						
Transaction definiti						
_						

Confirmation window shows defined alarms in the main window.



#### 3.10.2 Add Onvif device to Milestone Management

All camera communications are done by Onvif channel. Hence, onvif addition to Milestone management is a necessary step.



After adding, a small window(below) will ask for server IP. Pass it as it is if you are doing this on Milestone Management server machine.

	Add ONVIF Bridge	
	Name: 127.0.0.1 OK Cancel	
e Services Wizards Options Help	Milestone XProtect Express 2018 R1 Manager ent Application - 30-Day Trial	
Surveillance Getting Advanced Hardware		
Gameras and Store     Micropho     Events and     Scheduling and     ONVIF port:	ings (127.0.0.1)	
Access		
Server 304 Server 0NVIF user cree Servic 0NVIF user cree Mobile ONVIF	edentiais;	
A Arm     A Arm     A Arm     A Arm     A Arm     Sound     Ond     Time     Minute Plug-		
Transaction User name:		
Password:		
Add use	ver Remove user	

Onvif is added. You should not do anything in this screen. Now, Milestone configuration is complete.

YOU HAVE TO RESTART YOUR COMPUTER AFTER THIS STEP



# 3.10.3 Confirmation of Milestone Onvif manager

To confirm that Milestone onvif is working, you should use Onvif Device manager. Note that you must have installed it as instructed in Section 3.2. If you have not done this, please refer to Section 3.2



Double click ONVIF Device Manager in your desktop. If above confirmation comes up, click "Allow Access".

	ONVIF Device Manager v2.2.250		
Name Password	Log in 🗹 Remember	Name Password Log in Remember	
Device list 《	HIKVISION DS-2CD5065G0-AP	Device list	5G0-AP
Name, location or address.         Cancel           HiKVISON DS-2CD5065G0-AP         Firmware         20.168.0.15; 2408.0210.33A*           Location city/hangzhou         Sony         Firmware           Address 192.168.0.102         Location country/japan         Location           NONE         Firmware         Address 192.168.0.106           Location country/japan         Address 192.168.0.106         Location           Address 192.168.0.106         Location         Location           Address 192.168.0.106         Location         Location	Identification       Time settings       Maintenance       Network settings       User management       Certificates       System log       Relays       Web page       Events       Vvt       Relays       The HTTP request is unauthorized with client authentication scheme Anonymous. The authentication Reader received from scheme Anonymous. The authentication Reader received from scheme Anonymous. The authentication PC cameral 3550°; nonce= 4064de059545204de0513659649794d684574404459 3d°, state= TALSE°;	Name, location or address       Cancel         HIV/SIGN D5-2C0506560-AP       Firmware         Address       121,680,15; 24080,210,334         Location       control/japan         NONE       Firmware         Address       122,1680,102         Location       control/japan         NONE       Firmware         Address       122,1680,0102         Location       Control/japan         NONE       Firmware         Address       122,1680,0106         Location       Control/japan         Address       122,1680,0106         Location       Control/japan         Address       12,1680,0106         Location       Control/japan         Address       12,1680,0106         Location       Firmware         Address       12,1680,0106         Location       Control         Address       12,1680,0106         Location       Control         Location       Control         Location       Control         Location       Control         Location       Control         Location       Control         Location       Control <t< th=""><th>Identification Time settings Maintenance Network settings User management Certificates System log Relayz Web page Events Add device Add device WI: http://192.168.0.1/onvi/(device.service) Diget dop- ables in curcument assess Convert System Convert and Convert System Convert Convert System Conver</th></t<>	Identification Time settings Maintenance Network settings User management Certificates System log Relayz Web page Events Add device Add device WI: http://192.168.0.1/onvi/(device.service) Diget dop- ables in curcument assess Convert System Convert and Convert System Convert Convert System Conver
Add Refresh	_	Add device URI: http://192	Apply Cancel

Onvif screen opens. Click "Add" button below the screen. Add device screen comes up.

Add device	×	Add	device 🗶
URI: http://192.168.0.1/onvif/device_se	ervice	URI:	http://127.0.0.1:580
Apply Ca	ncel		Apply Cancel

Change URI field as <u>http://127.0.0.1:580</u> and Click Apply.



After this, please login to Onvif Device Manager by using Windows credentials:

Username: Computer name/username (For example, AYONIXYOGA/ayonix)

Password: <your windows account password (here password for user "ayonix" >



And then click login. Confirm that you are logged. Then choose the one you added

(Name: Firmware, Address: 127.0.0.1)

Now we confirm that Milestone configuration is running fine. Onvif device manager acquires camera streams through Milestone Onvif.



# 3.11 Add camera to APS-Milestone Plugin

Although you add a camera to Milestone Xprotect, it will not be used for face recognition unless you add it in APS-Milestone plugin manager.



Open Plugin Manager. Desktop shortcut icon is available.



In Plugin manager, right click on Cameras and click "New camera"



	Setup New Camera			
	Name		Action	GUID
•	Camera 1	(	Select	136af10e-92f2-4
	Camera 3		Select	2b9d8f17-c54b-4
	Camera 4		Select	3ddb64fc-6f74-4
	Camera 2		Select	7cbd3119-3676
	Camera 5		Select	bab63a43-81a7
		_		
Camera	a: Camera 1	-		
Camera	a: Camera 1			
Camera Assign	a: Camera 1 ed Server: Ayonix Server 1 192.168.0.23		_	
Camera Assign	a: Camera 1 ed Server: Ayonix Server 1 192.168.0.23			
Camera Assign Track	a: Camera 1 ed Server: Ayonix Server 1/192.168.0.23 king Parameters			
Camera Assign Track	a: Camera 1 ed Server: Ayonix Server 1/192.168.0.23 king Parameters			
Camera Assign Track	a: Camera 1 ed Server: Ayonix Server 1 192.168.0.23 king Parameters hreshold 85 Tracking Quality 5		_	
Camera Assign Track	a: Camera 1 ed Server: Ayonix Server 1 192.168.0.23 king Parameters hreshold 85 Tracking Quality 5			
Camera Assign Track	a: Camera 1 ed Server: Ayonix Server 1/192.168.0.23 king Parameters Threshold 85 Tracking Quality 5			
Camera Assign Track	a: Camera 1 ed Server: Ayonix Server 1/192.168.0.23 king Parameters Threshold 85 Tracking Quality 5			
Camera Assign Track	a: Camera 1 ed Server: Ayonix Server 1/192.168.0.23 king Parameters hreshold 85 Tracking Quality 5		Si	ave

Select camera that you wish to use for Face recognition and select which worker will be added to the camera. And then click Save



Name     Camera 1     Camera 3     Camera 4     Camera 2     Camera 5     Camera 5     Camera 5     Camera 5     Tacking Parameter     Threshold     [8]	Setup New Camera	Action GUID Select 136/10-927 Select 33db/64/-677 Select 7db/3119-367 Select 7db/3119-367 Select bb/63a/3-81a	X	A mess of cam Databa Milest	sage will be shown after successfu eras. You can modify server roles ase server, Add or remove a came one Plugin manager.
Ayoni Setup Abd Government Ayonix Server MASTER / W 192.168.0.23	x Milestone Plugin v1.5.0 - Court but 1 ORKER ase Server one Server s /WJAyonix Server 1 (192.168.0.23) as nera 1	Refresh		Ayonix I tup About ayonix Server 1 STER / WOR 2.168.0.23 Databass Milestone Servers Cameras Cameras	Milestone Plugin v1.5.0 - × KER Cameras Refresh Server Server Ayonix Server 1 (192) Edit Server Delete Server Restart Server Processes Check System Usage
Server Name Server IP: Server Port: Server Role:	Server Manager – Ayonix Server 1 192.168.0.23 9891 Ayonix Master / Ayonix Worker	Save	Select	Server Name: Server IP: Server Port: Server Role: <b>role</b>	Server Manager       -       ×         Ayonix Server 1       -       -         192.168.0.23       •       -         9891       -       -         Ayonix Master / Ayonix Worker       •       -         Ayonix Master / Ayonix Worker       •       -         Ayonix Master / Ayonix Worker       -       •         Ayonix Master / Ayonix Worker       -       -

sfully selection les, change mera by using

J. 



# 4. Client Installation

#### 4.1 **Prerequisites**

- Windows 7, 8.1 or 10 64bit
- XProtect Smart Client 2018 R1

If you don't have Milestone XProtect Smart Client installed on your computer, please refer to It on Milestone website. Normally it is installed automatically to your computer by Xprotect application.

# 4.2 Download Milestone Xprotect Smart Client





れた通信( https://www.milestonesys.com/support/resources/download-software/ Welcome to the Download oad Milestone software and device packs in the version and language you need. Be downl

sure to choose your download location before you click "Filter". This will speed up the download process.

Product	Туре	Version		Language		
All	Software	<ul> <li>Select cur</li> </ul>	rent version 🔻	English		,
XProtect Access	•					
XProtect Analytics						Filte
XProtect Central						
XProtect Corporate		±	Version	\$	Size	
XProtect Enterprise		•		*		
XProtect Essential						
XProtect Essential NVR			2017 (11.1)		1.65 GB	
XProtect Essential+			2017 (11.1)		1.18 GB	
XProtect Expert			2017 (11.1)		331.55 MB	
XProtect Express			2017 (11.1)		280.48 MB	
XProtect Express+			1.0.7		9.57 MB	
XProtect Go						
XProtect Input Unit Plug-ins			20170814		95.39 KB	
The second s						

れた通信 | https://www.milestonesys.com/support/resources/download-software/?loc=1&prod=159&type=11&ver=1461&lang=27 Welcome to the Download section, where you can download Milestone software and device packs in the version and language you need. Be

sure to choose your download location before you click "Filter". This will speed up the download process.

		Download location	Japan	Ŧ			
Pr	roduct	Туре	Version		Languag	ge	
Х	(Protect Express 🔹	Software •	XProtect	Express 2017 R3 (1 🔻	English		
Fr	ee Search						Filte
	Name		*	Version		Size	
e	XProtect Express		*		*	5120	
	Milestone EULA			20170814		95.39 KB	
	XProtect Smart Client 32-bit			2017 R3 (11.3a)		291.99 MB	
	XProtect Smart Client 64-bit			2017 R3 (11.3a)		343.22 MB	
	Server-Side XProtect Smart Client 32-bi	ŧ		2017 R3 (11.3a)		292.02 MB	
	Server-Side XProtect Smart Client 64-bi	t		2017 R3 (11.3a)		343.25 MB	
	XProtect Professional VMS Products			2017 R3 (11.3a)		1.20 GB	



# 4.3 Setup Milestone Xprotect Smart Client

Before proceeding, Close All Instances of XProtect Smart Client if they are opened.

V I 🖸 🕼 = I	Ayonix Mile	estone Plugin			- 🗆 🗙
File Home Share	View				~ <b>(</b>
🔄 🌛 🔻 🕇 퉬 🕨 This PC	C → Local Disk (C:) → Program Files (x86) → A	Ayonix → Ayonix Milest	one Plugin 🔺	~ ¢	Search Ay 🔎
🚺 Downloads 🔷	Name	Date modified	Туре	Size	
📃 Recent places	AyonixCameraPlayer	2018/02/20 16:37	File folder		
	AyonixCameraPlayer.2	2018/02/20 16:37	File folder		
🔣 Homegroup	AyonixMilestoneService	2018/02/21 8:22	File folder		
-	ConfigAPIClient	2018/02/20 16:37	File folder		
I This PC	🕌 ConfigTool	2018/02/20 16:37	File folder		
Desktop	退 ConfigToolPlugin	2018/02/20 16:37	File folder		
Documents	膨 Database	2018/02/20 16:37	File folder		
Uownloads	腸 DesktopAdminUl	2018/02/21 8:40	File folder		
Music	🎉 Doc	2018/02/20 16:37	File folder		
Pictures	🌡 Framework	2018/02/20 16:37	File folder		
Videos	뷀 Gateway	2018/02/20 16:37	File folder		
Local Disk (C:)	🎉 MilestoneCameraReader	2018/02/20 16:37	File folder		
👝 New Volume (D:)	🍌 MilestonePlugins	2018/02/20 16:37	File folder		
S Network	🍌 Prerequisites	2018/02/20 16:37	File folder		
	🍌 Tools	2018/02/20 16:37	File folder		
	🗊 Ayonix Milestone 1.5 Plugin Manager	2018/02/20 16:38	Shortcut	3 KB	
	🖆 Ayonix-EULA	2016/09/24 18:24	Rich Text Docume	23 KB	
	Satchenrollment	2017/11/24 15:53	Windows Batch File	1 KB	
	📄 Changelog	2017/12/06 18:08	TXT File	2 KB	
BWORK-6	README_FIRST	2017/07/05 19:05	TXT File	1 KB	
20 items 1 item selected					

On Server Installation folder, there is a folder named "Milestone Plugins"

111 [] = 1	MilestonePlugins	5		
File Home Share	View			
🔄 🏵 🔻 🕇 📕 « Pr	ogram Files (x86) 🔸 Ayonix 🔸 Ayonix Milestone Plugir	n → MilestonePlugins	۱.	¥ (
🗼 Downloads	^ Name	Date modified	Туре	
🖳 Recent places	📕 AyonixAlarmPopupPlugin	2018/02/20 16:37	File folder	
🤣 Homegroup	)) AyonixMilestoneFaceld	2018/02/20 16:37	File folder	
🖳 This PC				
Desktop 2 items	~			





🕼 l 💽 🕕 = l	MilestonePlu	igins			- 🗆 🗙
File Home Share	View				~ <b>(</b> )
🛞 🏵 🔻 🕆 퉬 « Pro	gram Files (x86) 🔸 Ayonix 🔸 Ayonix Milestone Pl	ugin 🕨 MilestonePlugin	s	v C	Search Mi 🔎
Downloads	^ Name	Date modified	Туре		Size
Ecent places	🎉 AyonixAlarmPopupPlugin	2018/02/20 16:37	File folder		
🖏 Homegroup	🎍 AyonixMilestoneFaceld	2018/02/20 16:37	File folder		
This PC Desktop 2 items 2 items selected	v				
🔐 l ⊋ 🕕 = l	MIPPlugin	IS			- 🗆 🗡
File Home Share	View				~ 🕐
📀 🌛 🔻 🕇 闄 « Loc	al Disk (C:) → Program Files → Milestone → XPro	otect Smart Client → MII	PPlugins	~ ¢	Search MI 🔎
Downloads	^ Name	Date modified	Туре		Size
🕍 Recent places	🍌 VideoOS.EventServer.AlarmPlugin	2018/02/20 15:46	File folder		
🚜 Homegroup	VideoOS.LPR.Plugin	2018/02/20 15:46	File folder		
	VideoOS.Transact.ClientPlugin	2018/02/20 15:46	File folder		
Finite PC Construction Documents	Copy to M	IIPPlugins			
3 items					:== <b></b>

Copy two folders from this folder to the XProtect Smart Client MIPPlugins Folder ( check next illustration)



]],   💽 []] ≠	MIPPlugins	5			×
File Home Share	View				~ 🕐
📀 🌛 🔻 🕇 퉬 « Progr	ram Files → Milestone → XProtect Smart Client	MIPPlugins		♥ C Search №	11 , <b>P</b>
🚺 Downloads 🔨	Name	Date modified	Туре	Size	
🔛 Recent places	길 AyonixAlarmPopupPlugin	2018/02/21 9:49	File folder		
	🎉 AyonixMilestoneFaceld	2018/02/21 9:49	File folder		1
Romegroup	퉬 VideoOS.EventServer.AlarmPlugin	2018/02/20 15:46	File folder		
This DC	🍌 VideoOS.LPR.Plugin	2018/02/20 15:46	File folder		
Desktop	퉬 VideoOS.Transact.ClientPlugin	2018/02/20 15:46	File folder		
5 items 2 items selected					
5 items 2 items selected					8==

This is the MIPPlugins folder destination file for the plugin

Then, copy the connstring file inside DesktopAdminUI inside Ayonix Milestone Plugin to the Xprotect Smart Client as below

	Desi	dopAdminUI				- 🗆 ×		
١	/iew					~		
This PC → Local Disk (C:) → Program Files (x86) → Ayonix → Ayonix Milestone Plugin → DesktopAdminUl v 🖒 Search De								
^	Name	Date modified	Туре	Size				
	AyonixIPCameraPlayer.exe.Config.Templ	2015/11/19 22:40	XML File	6 KB				
	BaseClassesNET.dll	2016/03/05 11:10	Application extens	235 KB				
	📄 be5780a0	2017/08/17 11:59	XML File	12 KB				
	c33d6e0f	2017/08/17 11:59	XML File	12 KB				
	camerapath	2018/02/21 8:22	File	1 KB				
	connstring	2018/02/21 8:22	File	1 KB				
	S EntityFramework.dll	2015/03/06 14:39	Application extens	5,075 KB				
	SentityFramework.SqlServer.dll	2015/02/02 14:28	Application extens	606 KB				
	EntityFramework.SqlServer	2015/02/02 14:28	XML File	152 KB				
	EntityFramework	2015/03/06 14:39	XML File	3,567 KB				
	Media.dll	2016/03/05 11:10	Application extens	424 KB				
	MilestoneDesktopUl	2017/12/06 21:48	Application	5,280 KB				
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# 4.4 Microsoft Smart Client setup

Open XProtect Smart Client using Desktop shortcut. YOU HAVE TO RUN IT AS ADMIN ALL THE TIME

IMPORTANT: In order to setup client plugin for the first time, it is mandatory to run it with Administrator privileges.

Login to the server through Smart Client

	Milestone XProtect® SMART CLIENT 2018 R1	
	Computer:	
	localhost:8080 👻	
Landred /	Authentication:	
	Windows authentication (current user) 🔻	
	Domain: AYONIXYOGA	
	User name:	
	Password:	
	Auto-login	
	Connect Close	
		12 1 7715 1

**Computer:** It is the server IP address. If port is different than 80, please put the port number as below:

For example: 192.168.0.22:8080 8080 is port number of the server here.

Authentication: Choose an appropriate authentication. You can use Basic or Windows authentication.

Username: If you choose Basic authentication in Authentication field, put computer name and username

Password: Put computer user password.

Finally, click **Connect**.





Client window will open.



Click Toogle button to see the SETUP button.





Click Setup button on the up-right corner.



Left panel will appear.



Milestone XProtect Smart Client				2018/02/21 10:49:33 🗕 리 ×
Live Playback Sequence Exp	lorer			
XProtect	Select view >		• %	Setup
🖽 Views 🔨	A	1 1x1		
Search views and cameras Q		≡ 1+1		
• • • • • • • •		≡ 1+1*		
		= 1 x 2		
A Shared		2 x 1		
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New View	4:3 <b>•</b>	I + 2*		
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	16:9	4 2 x 2	10110	TTING TOTIO
🔛 Оулен Отен 📲 Сору	16:9 Portrait	IIII 4 x 1		
Alarms		■ 1+1+4		
🕨 🚔 Ayonix		1+5		
Server		≣≣ 2×3		
© Carousel		1+7		
Hotspot		9 3x3		
🍘 HTML Page		2+8		
🖾 Image		1 + 11		
Мар		2+10		
Text		4 X 4		
📃 Overlay Buttons 📃 🔨		1 + 10 M 4×6		
Application		25 5 x 5		
		30 6×6		
► + <sup>†</sup> + DT7		49 7 x 7		
<ul> <li>Davica</li> </ul>		64 8 x 8		
- Device		10 x 10		
Properties		10 1 10		

Under "Setup" view, create a new view. Views can be created according to user needs. In our example, we create a 1+2 view(Click Default Group, choose New View)



View that you choose. You can change the view at anytime. Now, On "System Overview" left panel, look for "Ayonix" option. Click on it.



Milestone XProtect Smart Client		2018/02/21 10:53:05 🗕 리 ×
Live Playback Sequence Explor	er	- + 0 ¢ 🗗 १
XProtect <	New View (1 + 2*)	Setup
📰 Views 🧄 🔺		
Search views and cameras Q		
Private		
4 🛅 Shared		
<ul> <li>Default Group</li> </ul>		
E New View (1 + 2*)		
lie III 💉 👻 🛍	milestone	milestone
Shortcut: Set	I THICK I C	THIS TO IS
System Overview		
🕨 🧔 Alarms		
4 🙀 Ayonix		
😤 Faceld Plugin		
• Server		
Carousel		
Hotspot		
M Image		
Text	miles	
Overlay Buttons		
Application		
▶ ♠ Camera		
▶ ⊕ PTZ		

See "Ayonix->FaceID Plugin" and drag and drop to the View area.

Milestone XProtect Smart Client	
Live Playback Sequence Explo	rer
XProtect <	New View (1 + 2*)
Uiews ^	Ayonix Faceld Plugin - Enrollment Current Enrollments:
Search views and cameras Q	
4 🛅 Shared	Database Setup
<ul> <li>▲ Default Group</li> <li>➡ New View (1 + 2*)</li> <li>▲ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</li></ul>	Instance: BWORK-7¥SQLEXPRESS Username: sa Password: ayonix
Shortcut: Set	
System Overview .	Test Setup Cancel
• (@ Alarms	
🔺 🚔 Ayonix	
Faceld Plugin	
Carousel	

Database Setup window will come up. Fill it up with Database credentials.





After the confirmation messages, setting is completed.



# 4.5 Final Plugin setting



Inside Plugin basic window (upper right panel), double click over Ayonix Icon. A "Setup" Button will appear on the lower part.

	+ 0 <u></u>
	Setup 🛛 🔀
Ayonix Faceld Plugin - Enrollment	
Current Enrollments: Page 1 of 1 (Total Records: 1)	avonix
Filters << > >> Refresh	Alarm Popup
Enroll Mugshot Name/Surname Category Gender Sadi/Vural User Male	Alarms New Enrollment
	Popup delay (s): 5

Click on "Setup" button. Type default password for it default password is "ayonix". It can be changed inside server interface window. A Setup menu will appear.





Select "Database" into "Setup Menu". A Connection window will appear.

Milestone	e Client	Plugin	<b>XProtect</b>	Setup
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lugin Set	up Interface		5		
<b>ayonix</b> Database					
DB Instance	192.168.0.121 ¥SQLEXPI	RESS	~(	1	
Usename	sa				

1 - Db Instance : type sql server IP address and installation name. For instance, if sql is on 192.168.0.10 and chosen installation name is SQLEXPRESS, type "192.168.0.10\SQLEXPRESS"

2 - Type System Administrator username and password. System administrator usually is sa.

3 - Click on Test. A confirmation message must be displayed.

4 - Click on Setup. A sequence of confirmation messages will be displayed, finished by a "Setup Successfully" message





Click on Ok. Close XProtect Smart Client and open it on normal mode (without Administrator permissions).

Client Plugin Setup is completed.

--PLEASE REFER TO OPERATION MANUAL TO USE THE SOFTWARE--