

Videtics Perception for XProtect - Installation Guide

Milestone software installation tutorial

First of all, you have to install *Milestone XProtect* and *Milestone AlBridge*. You can do the following steps.

Milestone XProtect installation

- Execute the *Milestone XProtect VMS Products System Installer* file you want (the latest if possible)
- Follow the first installation steps
- Add a valid license
- Select "Single computer"
- Select all the components
- Register your password
- Choose the Recording Server name
- Uncheck all checkboxes about crypting
- · Follow the next steps with the default settings
- Install all the Milestone apps
- After the installation, register your HTTPS login/password

Milestone AIBridge installation



Important: Install AlBridge only if you want to host the recording server on this PC. If you just want to connect to another running recording server, this installation is **optional**!

Step 1: add libraries in the Management Client (only for 2022 R2 version)

Copy the 2 dll files in the folder

aibridge_xprotect_patch\xprotect_patch_2022_R2\mcactivation and paste them in C:\Program Files\Milestone\XProtect Management Client.

Important: For versions later than 2022 R2, this step is not required!

Step 2: Install the AIBridge plugin

Execute the aibridge_xprotect_plugin.exe and complete the installation. If you want to install a **specific version** of Al Bridge, go to the <u>download page here</u>. It will install the **Processing Server plugin**. Normally, you will have a **new option on the left menu:** *Servers > Processing Servers*.

Step 3: Create a basic user in the Management Client

You can follow the Milestone AI Bridge documentation:

Create a basic user for Milestone AI Bridge

You must create a new basic user that Milestone AI Bridge can use when logging into the XProtect VMS. Milestone recommends that the new basic user is only used in connection with Milestone AI Bridge.

Remember to add the basic user to the administrator role.

- 1. Select Site Navigation > Security > Basic Users.
- 2. In the Basic Users pane, right-click and select Create Basic User and specify a user name and password.

The password must meet the complexity defined in the appsettings.json file for your XProtect VMS. See the section about creating basic users in your XProtect VMS administrator manual.

- 3. Clear the Force Basic User to change password on next login check box because Milestone AI Bridge cannot change the password when logging in.
- 4. Keep the Enabled status of the basic user and select OK to create the basic user.
- 5. To add the basic user to the Administrator role, select Site Navigation > Security > Roles.
- 6. Select the Administrators role and then the User and Groups tab.
- 7. Select Add and then Basic user.
- 8. Select the user you just created for Milestone AI Bridge and select OK.
- 9. In a secure way, share the basic user's login credentials with your IVA app integrator.

Now the IVA app integrator can configure Milestone AI Bridge to log into your XProtect VMS.

Step 4: Enable Analytics Events in the Management Client

Analytics events are not enabled by default (see forum troubleshooting <u>here</u>) so we need to enable them manually:

- Open the Management Client,
- Open the Tools → Options menu,
- · Select the "Analytics Events" tab,
- Select the "Enabled" checkbox and click "OK".

Step 5: Install Docker Desktop

Execute the *Docker Desktop Installer*. Take care to check the "Use WSL 2 based engine" option and complete the default installation.

After the first start, a pop-up will certainly ask you to install the last version of WSL. Open a terminal and execute the following command: wsl --update.

Step 6: Connection to AlBridge with ngc and Docker Desktop

- Open the aibridge_compose_deployment\aibridge_compose_deployment\ngc folder and edit the .env file.
- **Replace** the default values in **VMS_USER** and **VMS_PASS** with the username and password of the basic user you created in Step 3.
- **Replace** the default values in **EXTERNAL_IP** and **EXTERNAL_HOSTNAME** with your **IP** Adress
- Replace the default value in VMS_URL with "http://your_ip_adress"
- Now, go to the *docker-compose.yml* file and replace the 2 *extra_hosts* fields with the following format: *hostname:ipaddress* (ex: *desktop-7uk89da:192.168.1.20*). See the forum issue <u>here</u>.
- To be able to pull the AlBridge images from the Nvidia Private Registry (*nvcr*), we need to log in. Open a CMD in the *ngc* folder and execute the following command by **replacing** {*password*} by the password of your nvcr account:

docker login nvcr.io -u \$oauthtoken -p {password}

- Once logged in, we can run docker-compose up command in the terminal.
- Check if the ngc containers are running in Docker Desktop.

Note: For any question or problem encountered, you can refer to the official AI Bridge documentation <u>here</u>.

Videtics Plugins setup

To install the compiled plugins on a PC that **already has** *Milestone XProtect* **installed** and **configured**, follow these steps :

- Unzip the downloaded zip file wherever you want and go to the *Plugins* folder,
- Run the VideticsPluginsSetup.exe executable file,
- When the ModernBrowser **setup window** opens, complete the **default installation**,

• Let the script finish, it will copy all files in the *Files* subdirectory and paste them in the right place (you can check if nothing went wrong).

Version check: For *Perception* build version earlier than version 5.14.0:

- rename the file Videtics_Webapp_with_hashtag_in_url.dll in
 Videtics_Webapp.dll
- copy/paste it in the %ProgramFiles%/Milestone/MIPPlugins/VideticsWebAppPlugin directory.

Launch the *XProtect Smart Client* and log in to check if everything went well. Once connected, click on the *Help* button on the top right (question mark icon), then click on *About* and look at the "*Plug-in(s) and version information*" section. You should have **5 plug-ins** installed :

- FolderSearchPlugin
- PersonSearchPlugin
- VehicleSearchPlugin
- Videtics Perception, Videtics_Webapp
- ModernBrowser

That's all folks!

Settings

Videtics Perception Settings in Smart Client

On the *XProtect Smart Client* **Settings menu ***, you will find the **Videtics Perception**® tab. Please fill in these 4 fields:

- Host: The alias address of the server that hosts *Perception*. The **IP address will** not work, it has to end by *.videtics.net*.
- User: The username you use to access the Videtics Perception application
- Password: Your password you use to access the Videtics Perception application
- **Minimum duration of recordings**: The minimum duration of recordings you want, even if the detection duration is shorter. (Default value: 3)

| Settings | | | - | × |
|-----------------------|---------------------------------------|------------------------------|---|-------|
| Application | Host | v-serv-p350-005.videtics.net | | |
| Dener | User | user | | |
| Panes | Password | ••••• | | |
| Functions | Minimum duration of recordings (in s) | 6 | | |
| Timeline | | | | |
| Export | | | | |
| Smart map | | | | |
| Search | | | | |
| Joystick | | | | |
| Keyboard | | | | |
| Access control | | | | |
| Alarm Manager | | | | |
| Videtics Perception ® | | | | |
| Advanced | | | | |
| Language | | | | |
| Help | | | | Close |

Auto-login and SSO :

After registering your credentials in the settings menu, please restart the *XProtect* Smart Client.

Thanks to these credentials, you'll be **automatically connected** to the <u>Videtics</u> <u>Perception Web Application</u>. If it is not the case, you will see this web page on the Videtics Perception® tab:

| Milestone XProtect Smart Client | | - 0 X |
|--|---|---|
| Live Playback Exports Search Alarm Manager Incidents | Videtics Perception System Monitor | 11:14:12 🌧 🚱 📍 👻 |
| | | Setup Videtics Perception 🏶 🔀 |
| Une Playback Egyons Search Allum Manager Incidents | Videos Processos a System Mondor Uterrame Password Connection | Instat2 * 0 * * Seine Videlos Recepton * |
| | | |
| | | |
| | 41890bdd93e739a75758b1964b218fee66bcfa98 | |

To solve this issue, try to restart the *XProtect SmartClient* or type manually the credentials you put in the Settings menu and press the "Connection" button.

Our integration in *Milestone XProtect* works with a **Single Sign-On (SSO)** system. It allows you to access all our features (Search Plugins and Web Application) with a **single authentication**. Combined with the **automatic login** explained before, that means you just have to register your credentials at the first launch of the Smart Client and you'll never have to deal with any authentication later.

Add a Connected System in Perception

To enable the connection between Videtics Perception and Milestone XProtect, you need to add a **"Connected system"** to *Perception*.

To do that, go to the **Administration page** by clicking on the icon on the top left of your screen and select **Connected systems** on the left menu.



Administration menu icon

| * | Authentication |
|---------|-------------------|
| • | Connected systems |
| \odot | Advanced settings |

Connected systems menu

Then, fill out the form like the following example:

| | natenny | |
|-----|----------------------------------|----------------|
| + 🗉 | VMS | × - |
| | - system | |
| | Milestone AI Bridge | × - |
| | name | |
| | Al Bridge | |
| | _ connection mode | |
| | client | × - |
| | | ~ _ |
| | | |
| | address | |
| | 192,100,1.2 | |
| | | |
| | 4000 | |
| | _ username | |
| | basic | |
| | password | |
| | | |
| | | |
| | automatic camera synchronization | |
| | | |
| | enabled | |
| | | |
| | | |
| | | |
| | | |
| | Cancel | |
| | | |

- Replace the address field with the IP address of your XProtect server,
- If you use a custom AlBridge port, enter it (instead of 4000) in the port field,
- Replace username and password fields with your XProtect credentials,
- Read section and check the *automatic camera synchronization* field if you want to enable this feature,
- Take care to check the *enabled* box.

Once added, it will appear in the connected system list on the left. If you click on it, you can edit its settings:

| + Î | VMS | × • |
|-----------|------------------------------------|----------------|
| | | |
| | system | |
| Al Bridge | Milestone Al Bridge | × • |
| | _ name | |
| | Al Bridge | |
| | | |
| | connection mode | |
| | client | × • |
| | - protocol | |
| | HTTP | × - |
| | nddroon | |
| | | |
| | 192.100.1.2 | |
| | _ port | |
| | 4000 | |
| | | |
| | username | |
| | basic | |
| | naeeword | |
| | | |
| | | |
| | | |
| | 🗸 automatic camera synchronization | |
| | | |
| | — | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Save | |
| | | |
| | | |

After creating this connected system, *Videtics Perception* will automatically register an application on the AI Bridge Processing server. That allows <u>alerts to be sent from</u> <u>Perception</u> and <u>cameras synchronization between **XProtect** and <u>Perception</u>.</u>