MAKE THE WORLD SEE

Milestone Systems

Milestone Husky IVO[™] 350T Rev. 2

Getting started and maintenance guide

September 2024



Contents

Copyright, trademarks, and disclaimer	4
Safety	5
About this guide	6
Front view	7
Back view	8
Service tag	9
Link to detailed hardware documentation	10
Getting started checklist	11
Before you install	12
Prepare network and devices	12
Obtain a software license code	12
Prepare your unit	13
Turn on the unit	14
Windows first run	14
Complete the Husky Assistant Wizard	16
Complete the Husky Assistant Wizard	
	23
Post-installation tasks	23 23
Post-installation tasks	23 23 23
Post-installation tasks Download the XProtect® Device Pack Update Windows	23 23 23 23
Post-installation tasks Download the XProtect® Device Pack Update Windows Install clients on other computers	23 23 23 23 24
Post-installation tasks Download the XProtect® Device Pack Update Windows Install clients on other computers Husky Assistant Husky Assistant Properties	23 23 23 23 24
Post-installation tasks Download the XProtect® Device Pack Update Windows Install clients on other computers Husky Assistant Husky Assistant Properties	23 23 23 23 24 24 24
Post-installation tasks Download the XProtect® Device Pack Update Windows Install clients on other computers Husky Assistant Husky Assistant Properties Choose your language	23 23 23 23 24 24 24 25
Post-installation tasks Download the XProtect® Device Pack Update Windows Install clients on other computers Husky Assistant Husky Assistant Properties Choose your language Storage management	23 23 23 23 24 24 24 25 25
Post-installation tasks Download the XProtect® Device Pack Update Windows Install clients on other computers Husky Assistant Husky Assistant Properties Choose your language Storage management Check data hard drive status	23 23 23 23 24 24 24 25 25 26
Post-installation tasks Download the XProtect® Device Pack Update Windows Install clients on other computers Husky Assistant Husky Assistant Properties Choose your language Storage management Check data hard drive status Choose storage type	23 23 23 23 24 24 24 25 25 26 27

Create a diagnostics file	28
Recovery	30
Factory reset from recovery partition	30
Factory reset from a bootable USB device	31
XProtect Upgrade	33
Accessing Husky software updates	33
System scaling	34

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All names of people and organizations used in the examples in this text are fictitious. Any resemblance to any actual organization or person, living or dead, is purely coincidental and unintended.

This product may make use of third-party software for which specific terms and conditions may apply. When that is the case, you can find more information in the file 3rd_party_software_terms_and_conditions.txt located in your Milestone system installation folder.

Safety

Warning!

Risk of explosion if battery is replaced by incorrect battery type.

Dispose of used batteries according to the instructions.

Caution

Replacement of a BATTERY with an incorrect type that can defeat a SAFEGUARD (for example, in the case of some lithium BATTERY types).



Disposal of a BATTERY into fire or a hot oven, or mechanically crushing or cutting of a BATTERY, that can result in an EXPLOSION.

Leaving a BATTERY in an extremely high temperature surrounding environment that can result in an EXPLOSION or the leakage of flammable liquid or gas.

A BATTERY subjected to extremely low air pressure that may result in an EXPLOSION or the leakage of flammable liquid or gas.

Make sure to connect the power cord to a socket-outlet with earthing connection.

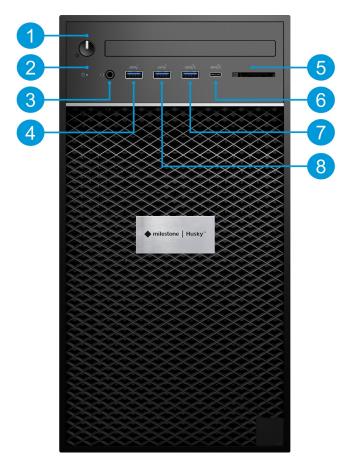
Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.

About this guide

This getting started and maintenance guide for Milestone Husky IVO is a point of reference to the Milestone Husky software and Milestone Husky hardware.

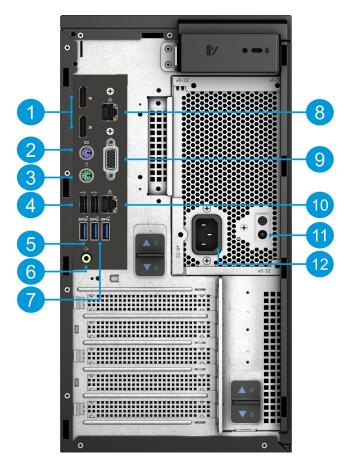
This guide describes Husky Assistant, an application that helps you install, maintain, and reconfigure your system.

Front view



1. Power button	5. SD card reader
2. Hard drive activity	6. USB 3.2 Type-C Gen2 (20Gbps) with power share
3. Universal audio jack	7. USB 3.2 Type-A Gen2 (10Gbps) with power share
4. USB 3.2 Type-A Gen1 (5Gbps)	8. USB 3.2 Type-A Gen2 (10Gbps)

Back view



1. 2 x Display Port 1.4	7. 2 x USB 3.2 Type-A Gen1 (5Gbps)
2. PS2 keyboard connector	8. Main board RJ-45 port 2.5 Gbps
3. PS2 mouse connector	9. VGA port
4. 2 x USB 2.0 Type-A	10. Main board RJ-45 port 10/100/1000 Mbps
5. USB 3.2 Type-A Gen2 (10Gbps)	11. Power indicator light
6. Audio line out	12. Power connection

Service tag

You can identify your system by the service tag.

Find the service tag on the cover of the unit to view the unique express service code and service tag.

The service tag refers to the serial number of the unit. Always provide the details when contacting support.

Link to detailed hardware documentation

For more information on the specific features and functionality or your unit, see Installation and service manual.



The documentation provided can have slightly different specifications or configurations compared to your Milestone Husky IVO unit.

Getting started checklist

This guide applies to all models of the Milestone Husky IVO. Follow the checklist below to ensure that you carry out the steps of your installation in the right order.

Prepare network and devices	 Assign static IP addresses to all system components and cameras Make sure camera models and firmware are supported by the XProtect system Cameras must be connected to the network, and you can access them from your unit
Obtain a software license code	 Purchase XProtect software and obtain the license file Go to the Milestone website (https://online.milestonesys.com/) and register your software license code (SLC) This step does not apply if you are using an XProtect Essential+ license
Prepare your unit	 Mount the unit on a shelf for the desktop and tower models, or use rails for the rack models, to support the chassis Connect peripherals, LAN, and power
Turn on the unit and complete the Husky Assistant	 Configure computer name and domain or workgroup settings Hard drive detection Select the preferred storage configuration Select the XProtect software version Links to detailed description of system installation
Download the latest XProtect Device Pack	• A device pack is automatically included when you install the XProtect software. For support of new devices and firmware versions, get the latest device pack
Update Windows [®]	• Make sure that your Windows operating system is updated with all the latest Windows updates
Install clients on other computers	Install XProtect Smart Client and XProtect Management Client on other computers for better system performance

Before you install

Milestone recommends that you go through the steps described in this article before you start the actual installation.

Prepare network and devices

1. Assign static IP addresses to all system components, devices, and cameras.

To prepare and configure your devices or cameras, follow the instructions provided by the camera manufacturer.

2. Make sure that your cameras and devices are supported and connected to the camera network.

On the Milestone website, you can find a detailed list of supported devices and firmware versions (https://www.milestonesys.com/support/tools-and-references/supported-devices/).

Obtain a software license code

Your Milestone Husky unit is shipped with XProtect video management software pre-loaded, and you can use it with any version of the five XProtect VMS products by applying a valid software license code (SLC). You receive the SLC when you purchase the XProtect product. Read more about Milestone XProtect products and Milestone Care[™] coverage on the Milestone website to find out which product matches your needs.

The SLC is printed on your order confirmation, and the software license file is named after your SLC. Milestone recommends that you register your SLC on the Milestone website (https://online.milestonesys.com/) before installation. Your reseller may have done that for you.

You can also run the free version of XProtect Essential+ on your unit. This version provides you with basic functionality and a limited number of cameras compared to a purchased XProtect VMS system. In this case, the license is provided with the installer. To receive this free license, your unit needs to be connected to the internet during installation.

When you run Husky Assistant, you can see the version of the pre-loaded VMS. If you want a different version, you can choose that option if you have a valid SLC.

If your unit is used as a recording server to an existing VMS system, you do not need an SLC. This setup is covered by the SLC that you bought with the VMS system.

XProtect software is licensed through different types of licenses:

- Base licenses: Controls which XProtect product you can use.
- Device licenses: Controls how many hardware devices you may connect to the Milestone Husky unit. A hardware device can be a camera, encoder, or similar, identified by a separate IP address. You do not need licenses for speakers, microphones, or input and output devices attached to the hardware devices.
- XProtect extensions: Your new Milestone Husky unit can run any XProtect extension. Most XProtect extensions require additional licenses.

After installation, the surveillance system runs on licenses that need to be activated before a certain period ends. This is the grace period. Once the installation is complete, you can get an overview of your licenses for all installations with this SLC on the Basics > License Information node in the Management Client.

Milestone recommends that you activate your licenses before you make the final adjustments.

- For online activation, log in to the Software Registration page with your My Milestone account on the Milestone website (https://online.milestonesys.com/).
- For offline activation, you must export a license request (.lrq) file in the Management Client, and then log in to the Software Registration page and upload the .lrq file.

Once you have uploaded the .lrq file, Milestone emails you an activated .lic file for import.

Prepare your unit

Always place the unit on a shelf or use rails to support the chassis.

- 1. Connect your peripherals: mouse, keyboard, display and audio.
- 2. Connect your local area network with internet connection, if available, to a NIC port. This network is for management and viewing.
- 3. Connect your camera network to a different NIC port. If your unit is equipped with a higher bandwidth network card, connect your camera network to the this network port.
- 4. Connect all power cables and plug them into a power socket.

Turn on the unit

Turn on your Milestone Husky unit and wait for Windows to boot for the first time.

Windows first run

Configure the country, language, keyboard, and account information:

1. Select your region and click **Yes**.

Basics		Basics	
Let's start with region. Is this r	ight?	Is this the right keyboard layo I' you also use another keyboard loyout, you can add that next.	but?
Turks and Caicos Islands		us	
Tuvalu		Canadian Multilingual Standard	
U.S. Minor Outlying Islands		English (india)	
U.S. Virgin Islands		lrish	
Uganda		Scottish Gaelic	
Ukraine		United Kingdom	
United Arab Emirates		United States-Dvorak	
United Kingdom		United States-Dvorak for left hand	
United States		United States-Dvorak for right hand	
	Yes		Yes

- 2. Select the right keyboard layout and click Yes.
- 3. Add a second keyboard layout or click Skip.
- 4. Create a user account and click Next.

Account	← Account	
Who's going to use this PC? What name do you want to use?	Create a super memorable password	
(8)	8	
Name	Fastword	
Or, even better, use an online account	Next Oc. even better, use an online account Next	

- 5. Create password and click **Next**.
- 6. Confirm password and click **Next**.
- 7. Add a hint and click **Next**.

8. Get the latest Windows updates or click Skip for now.



- 9. Accept the license agreements.
- 10. Complete the services selection and wait for the Windows desktop to appear.

Complete the Husky Assistant Wizard

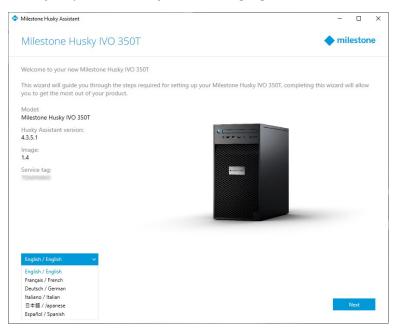
Have your Milestone XProtect license file ready if you want to install Milestone XProtectVMS on your Husky IVO unit as part of completing the Husky Assistant wizard.You can complete the Husky Assistant wizard without installing Milestone XProtect butXProtect must then be manually installed later.

Husky Assistant now starts automatically. This wizard helps you check, select, and configure your Milestone Husky IVO with:

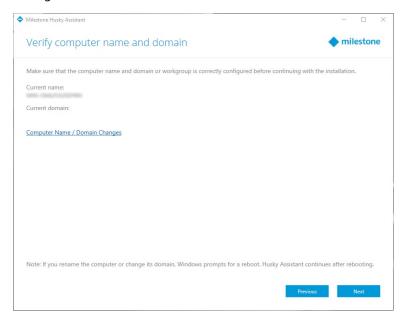
- Computer name and domain or workgroup
- Data storage drive detection
- Data storage configuration
- Milestone XProtect version
- Additional system optimizations

To complete the wizard:

1. Select your preferred Husky Assistant language and click Next.



2. Click **Computer name / Domain changes** to configure computer name and domain or workgroup settings.



The computer name must be between 1 and 15 characters long and must not be "localhost".

Additional computer naming restrictions

The following characters cannot or should not be used in computer names:

- backslash (\)
- slash (/)
- colon (:)
- asterisk (*)
- question mark (?)
- quotation mark (")
- less than sign (<)
- greater than sign (>)
- vertical bar (|)
- periods (.)
- hyhen (-)
- underscore (_)



The first character of a computer name must be alphabetic or numerical and computer names may not consist of only numerals if the computers is a member of an Active Directory domain.



Limit the characters used in the computer name to alphabetic (A-Z) or numerical (0-9) only.

When completed, Windows will require a restart to apply the changes.

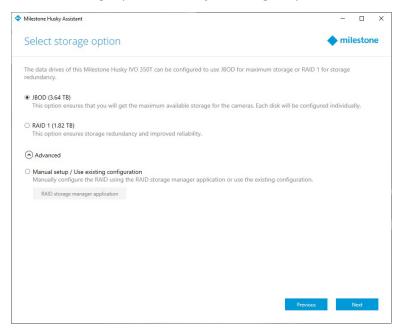
3. Restart Windows and wait for Windows to boot.

Husky Assistant restarts. Click Next.

- 4. Because you have already configured the name and domain setting, click **Next**.
- 5. Make sure that all the hard drives are detected and click **Next**.

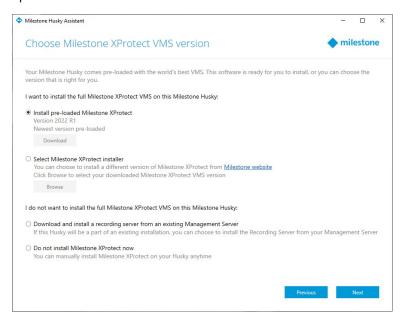
Milestone Husky	/ Assistant					×
Confirm	data drive setup			🔶 mil	estor	ne
Ensure that yo	our data drives have been inserted i	nto your Milestone Husky				
Detected 2 ou	it of 2 drives.					
	DISK NAME	STATUS				
	WDC WD20PURZ-85GU6Y0	🕏 ОК				
	WDC WD20PURX-64P6ZY0	📀 OK				
			Previous		Next	

6. Select the storage option to match your storage requirement. Click Next.



The Advanced option is to manually configure the RAID using the RAID storage manager application.

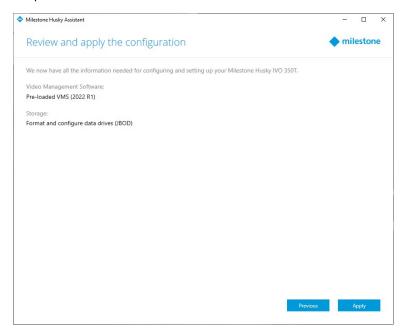
7. You have different options when selecting the Milestone XProtect version to install. Select one of these options:



- Check if the pre-loaded XProtect version is the version that you want to install. If yes, select **Install pre-loaded Milestone XProtect** and click **Next**.
- If you want to install an XProtect version different than the pre-loaded one:
 - 1. Choose Select Milestone XProtect installer.
 - 2. Download the XProtect version that you prefer from the Milestone website.
 - 3. Click Browse to select the downloaded installer file and click Next.
- To use your unit as a recording server in an already existing Milestone XProtect system:
 - 1. Select **Download and install a recording server from an existing Management Server** and click **Next**.
 - 2. Provide the IP address of the computer with the management server installed, and credentials.
 - 3. Click **Next**. The installation files for the recording server will be downloaded from the management server later.
- Select **Do not install Milestone XProtect now** if you want to install Milestone XProtect later without the aid from Husky Assistant.

Remember to apply optimizations in Husky Assistant after installation.

8. The **Review and apply the configuration** window appears. Verify your selections and click **Apply** to start the process.



The system automatically starts the Milestone XProtect installation. For more information, see the administrator manual for XProtect VMS.

After you have completed the Husky Assistant wizard, the application changes and Husky Assistant now serves as an application that helps you configure, maintain, and see the status of your Milestone Husky system. Find the Husky Assistant shortcut on the Windows desktop.

Post-installation tasks

Download the XProtect® Device Pack

A device pack is a set of drivers that is installed with your XProtect system to interact with your devices. A device pack is installed on the recording server. Milestone adds support for new devices and firmware versions on an ongoing basis, and releases device packs every two months on average. A device pack is automatically included when you install the XProtect system. To get the latest device pack, manually check for newer versions to download and install.

To update your device pack after installation, go to the download section of the Milestone website (https://www.milestonesys.com/downloads/) and download the relevant installation file.

If your system uses very old cameras, you may need to download the device pack for legacy devices. For more information, see https://www.milestonesys.com/community/business-partner-tools/device-packs/.

Update Windows

To update your Windows operating system with all the latest Windows updates, go to Windows Update settings and check for updates. Make sure to install all available updates and restart the Husky unit if required.

Install clients on other computers

You can access your XProtect system from other computers via the clients. Accessing the clients from remote computers will give you better system performance and free up system resources on your Milestone Husky unit. The clients are:

- XProtect Smart Client (used for viewing video) See also how to install XProtect Smart Client in the user manual for Smart Client.
- XProtect Management Client (used for configuring and managing the system) For more information, see how to install new XProtect components in the administrator manual for your XProtect VMS.

Husky Assistant

Husky Assistant is an application that helps you configure, maintain, and see the status of your Milestone Husky system. Find the Husky Assistant shortcut on the Windows desktop.

Husky Assistant Properties

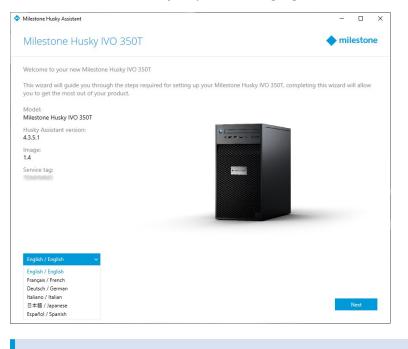
The Husky Assistant has the following features:

Navigation element	Description
Overview	 A list of details about the unit: Model: Milestone Husky model Version: Milestone Husky Assistant version Image: Husky firmware version Serial number: Refers to the service tag of the unit You can change the language in which Husky Assistant appears.
Storage management	Information about the available data storage hard drives. See the status of the disks.
Installed components	A list of installed Milestone software components and versions.
Optimizations	A list of applied or available optimizations you can apply.
Support	Run the Milestone Diagnostics Tool to create files that are needed for the Milestone reseller when the reseller helps you troubleshoot. Lists the information that you need to contact Milestone Support. Always contact your Milestone reseller that you have bought the unit from before contacting Milestone Support. Link to Milestone Support.

Choose your language

To select your preferred language:

- 1. Open Husky Assistant.
- 2. On the **Overview** tab, select your preferred language from the list of available languages.



Husky Assistant chooses English by default. All language changes require a restart of Husky Assistant.

Storage management

On this tab you can see information about and the status of data hard drives.

You can also identify a faulty hard drive and prepare new hard drives for use with Milestone XProtect VMS.

Check data hard drive status

To check the status of the data hard drives:

1. Select the **Storage management** tab.

Storage management	SERIAL NUMBER STATUS WS10F7R6 OK
Storage management LABEL SIZE MODEL SERIAL NUMBER STATUS Installed components Data (E:) 2 TB ST2000NM012A-2MP130 WS10F7R6 OK Optimizations Repair Support Repair State State	SERIAL NUMBER STATUS WS10F7R6 OK
Data (E:) 2 TB ST2000NM012A-2MP130 WS10F7R6 OK Installed components Data (D:) 2 TB ST2000NM012A-2MP130 WS10FHZV OK Optimizations Repair Support Support State (C) State (C) State (C) State (C) State (C) WS10FHZV State (C)	WS10F7R6 OK
Installed components Data (D:) 2 TB ST2000NM012A-2MP130 WS10FHZV OK Optimizations Repair Support	
Optimizations Support	WS10FHZV OK
Repair Support	
Support	
Configure	

2. The status of the data storage hard drives is shown. The different states are:

Status	Description
ОК	Normal working state.
Needs attention	The hard drive is missing a configuration that you can apply. For more information, see Prepare hard drives.
Failed	The hard drive is faulty. Get the hard drive replaced. After replacement, see Prepare hard drives.

Choose storage type

This table describes the available storage types.

Storage type	Description
JBOD	This option ensures that you will get the maximum available storage for the cameras. Each disk will be configured individually.
RAID 1	This option ensures storage redundancy and improved reliability.

Configure data storage type

To change the data storage type:

1. Check if the current storage status is **OK** and select **Configure**.

Storage manage	ement				•	mileston
Overview	This Milesto	ne Husky	has the following disks availa	ble for video storag	2.	
Storage management	LABEL	SIZE	MODEL	SERIAL NUMBER	STATUS	
	Data (E:)	2 TB	ST2000NM012A-2MP130	WS10F7R6	🗢 ОК	
nstalled components	Data (D:)	2 TB	ST2000NM012A-2MP130	WS10FHZV	OK 📀	
Optimizations						
	Repair					
Support		_				
	Configure					

2. Accept any user account control warning and select storage type.

3. Select Apply. A summary screen appears. Check that the hard drive status is Good.

Milestone Husky Assistant		-		×
Storage management		milestone		
Overview Storage management Installed components Optimizations Support	This page helps you configure your data RAID. When configuring the data RA removed from the storage. Current RAID array: Type: RAID 1 Status: Good Controller: Intel(R) Chipset SATA/PCIe RST Premium Controller Configure	ID ali data wi	ll be	

Apply optimizations

Husky Assistant can help you to optimize Windows for running XProtect software and to optimize XProtect software for running on your Husky unit. If you have installed Milestone XProtect VMS without using Husky Assistant, you need to apply the available optimizations. To check if any optimizations are available:

- 1. Select the **Optimizations** tab.
- 2. A list of the available optimizations appears.
- 3. If an optimization is available, click Optimize.
- 4. Accept any user account control warning and wait for the optimization to be applied.
- 5. Check that the optimization is applied.

Support

If you have a problem and need support, contact your Milestone reseller that you bought the unit from.

Create a diagnostics file

To help your Milestone reseller get logs and details about your system, create a Milestone diagnostics .zip file that lists the system information:

- 1. Select the **Support** tab.
- 2. Click Milestone Diagnostics Tool.
- 3. Accept any user account control warning. The Main Page appears.

- 4. Click the **Collect Defaults** icon to start creating a diagnostics .zip file.
- 5. When finished, the diagnostics .zip file is saved on the Windows desktop. You can now move or transfer the file to any preferred location.
- 6. Close Milestone Diagnostics Tool.
- 7. Provide your Milestone reseller with the diagnostics .zip file when they assist you in troubleshooting a problem.

Recovery

You can do a recovery on your Milestone Husky unit, which resets your unit to the factory default state and lets you start over and reconfigure your unit from scratch.

Recovery will:

- Reset your Husky unit to the factory default
- Run Husky Assistant wizard to configure your unit
- Help you install Milestone XProtect

All data on the Windows (C:) drive will be lost, and your XProtect system will not record any video during the recovery of your unit. You can save the Milestone XProtect VMS configuration before you start the recovery.

Data on the Data (D:) and Data (E:) drives will not be deleted.

For detailed feature descriptions and procedures for configuration and maintenance, see the administrator manual for XProtect VMS.

Factory reset from recovery partition

You can perform a factory reset from the recovery partition of your unit if you are running Husky Assistant version 4.2 or later and using the Husky Image version 1.3 or later.



The Husky Assistant version and the Husky Image version are displayed on the **Overview** page of the Husky Assistant properties.

Your Husky IVO unit must also have successfully completed first use installation and configuration as the recovery partition is created by the Husky Assistant during the first use configuration process.

If your Husky product does not contain the recovery partition or if you do not want to use the recovery partition on the unit, you can perform a factory reset by using a bootable USB flash drive from Milestone support.

To perform a factory reset from the recovery partition from within Husky Assistant

If you are running a Husky IVO unit with a recovery partition and Husky Assistant version 4.6 or newer, you can perform a factory reset from the recovery partition from within Husky Assistant.

- On your Husky IVO unit, open Husky Assistant in maintenance mode, open the Support page and click the Factory Reset button to open the Choose an option page. The Factory Reset button will not be available if you use Remote Desktop to access your Husky IVO unit.
- 2. On the Choose an option page, click Troubleshoot and select Husky factory reset to start the Husky IVO Recovery Tool.
- 3. When the **Husky IVO Recovery Tool** is displayed, press **Start** to start the factory reset process and follow the instructions.

To perform a factory reset from the recovery partition from within Microsoft Windows

- On your Husky IVO unit, open the Recovery page in Windows settings > Update and Security page and press Restart now in Advanced startup to start your Husky unit in Windows recovery mode. When the Choose an option page is displayed, click Troubleshoot and select Husky factory reset to open the Husky IVO Recovery Tool.
- 2. In Husky IVO Recovery Tool, press Start to initiate the factory reset process and follow the instructions.

To perform a factory reset from the recovery partition outside Microsoft Windows

If you cannot access your Microsoft Windows operating system, you can start a factory reset of your Husky unit during the initial boot sequence before Windows is loaded.

1. When your Husky IVO unit is turned off, turn on the unit, and during the startup sequence, press **F8** to open the **Advanced Boot options** page.

You may have to press **F8** several times to ensure the system boots into the menu and doesn't start your Windows operating system. If Windows does start, let Windows load and turn off the unit again to repeat this step until the **Advanced Boot options** page opens.

- 2. On the Advanced Boot options page, click Repair your Computer to open the Choose an option page.
- 3. On the **Choose an option** page, select **Troubleshoot** to open the **Troubleshoot** page and click **Husky factory reset** to open the **Husky IVO Recovery Tool**.
- 4. In the **Husky IVO Recovery Tool**, press **Start** to initiate the factory reset process and follow the instructions.

Factory reset from a bootable USB device

You can also perform a factory reset by using a bootable USB flash drive from Milestone support and starting your Husky IVO unit from the USB device.

Before the recovery process:

- 1. Contact Milestone support to get the latest recovery software.
- 2. Get help from Milestone support to create a bootable USB flash drive.
- 3. Connect the USB flash drive to your Milestone Husky IVO unit.
- 4. Prepare the BIOS settings to boot from USB flash drive.

To start the recovery process:

- 1. Restart your unit.
- 2. Boot from the USB flash drive.
- 3. Your unit boots into recovery mode. Follow the instructions to complete the process.



For more information on first time use, see Turn on the unit on page 14 and Complete the Husky Assistant Wizard.

XProtect Upgrade

Your Milestone Husky unit can run with any product variant and version of Milestone XProtect VMS determined by the Software License Code (SLC). Your Milestone Husky unit has a preloaded XProtect VMS version ready to be installed, but you can always download and install a newer or older version of Milestone XProtect VMS that matches your license.

You can upgrade your entire system configuration from one product version to another, for example from XProtect 2020 R3 to XProtect 2021 R1. You can install the new product on top of the old version without removing the previous version.



Remember to apply available VMS optimizations after the upgrade. For more information, see Husky Assistant > Apply optimizations.

Accessing Husky software updates

Please contact Milestone support for access to upgrades and other related software update packages for your Husky unit.

In some cases, you can access software update packages directly by logging in to My Milestone.

System scaling

To be able to scale to thousands of cameras across multiple sites, the system consists of components that handle specific tasks. If you have installed all components on a standalone Milestone Husky IVO unit, you can expand your system by installing the components on separate dedicated servers in a distributed system to scale and distribute the load.

Not all components are needed in all installations. You can always add additional recording servers, failover recording servers, or XProtect Mobile servers for hosting and providing access to XProtect Mobile client and XProtect Web Client.



helpfeedback@milestone.dk

About Milestone

Milestone Systems is a leading provider of open platform video management software; technology that helps the world see how to ensure safety, protect assets and increase business efficiency. Milestone Systems enables an open platform community that drives collaboration and innovation in the development and use of network video technology, with reliable and scalable solutions that are proven in more than 150,000 sites worldwide. Founded in 1998, Milestone Systems is a stand-alone company in the Canon Group. For more information, visit https://www.milestonesys.com/.

