ADPRO® XO™

XO 5.3

Build version: 5.03.0012

Honeywell

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CHAPTER

1 WHAT'S NEW

Release	Description
XO 5.3.12 - Feb 2023	Support VPN connection via Windows Server 2019 Integrated the HBoxToMP4 tool in XO client Fixed some cyber security issues to enhance product security performance XO firmware and client issue fixes and modifications
XO 5.2.9 - May 2022	Enhancements to H.264/H.265 Video Audio Server and Recorder with On-Board Ethernet interface and TCP/IP communication XO firmware and client issue fixes and modifications
XO 5.2.5 - Nov 2021	Supports Camera Sabotage (Tampering) Event Supports Revocable License Supports Parallel PIR Polling ADPRO XO 5.2 supports new camera/speakers, including TOA IP-A1SC15 and AXIS C8033. Enhanced Cybersecurity for third-party components, port management, and file signature. Enhanced Cybersecurity on P2P connection security Issue Fix on device stability, Live View, and PIR Error.
XO 5.1.10 - Feb 2021	Supports Deep Learning LoiterTrace with up to four channels on iFTE and three channels on iFT Supports self-encryption hard drive (SED) for security data at rest to avoid data tempering risk Supports HTTPS encryption video streaming between 30 series/ 60 series cameras, ADPRO NVR, and XO client Supports secure boot feature in XO 5.1 on iFT and iFTE Devices Supports P2P connection between ADPRO NVR and XO client, which simplifies the network connection Supports new dual-function analytics licenses allowing customers to choose between LoiterTrace or IntrusionTrace at any time ADPRO XO 5.1 supports several new cameras and speakers, including Honeywell 30 Series 60 Series IP cameras and some third party audio and video devices Improved Cybersecurity for the XO Client with upgraded OpenSSL library Fixes the WiFi connection failure issue on all the released iFT Gateway hardware versions
XO 4.5.13 - May 2020	The XO Client now displays password strength indicator while setting new password. The hardware ID of the connected device is now always displayed on the XO Client About page. The XO firmware supports the new eFT (eFT-T2, eFT-T2/8P, and eFT-T4/16P) devices. Support new cameras, which include the Honeywell 30 Series and Honeywell 60 Series cameras. Security enhancements and Bug fixes.

Release	Description
XO 4.5.7 - Oct 2019	Anonymization of people and/or moving objects for GDPR compliant applications Support for additional cameras, including the new Series 30 camera range from Honeywell which complies with the NDAA standards. This allows us to offer an NDAA compliant solution for video security applications. Approved additional third-party IP cameras such as FLIR, UNIVIEW, Vista, Samsung Q/X series, Axis Multilens P3707/ Q6000 Support for higher resolution analytics streams on Generic Driver camera Improved ONVIF Profile S/T drivers Improved camera sabotage detection Auto-reset sabotage alarm feature Improved sabotage library Support for annotations and events from Edge Analytics running on Honeywell cameras Support for Edge-based License Plate Recognition. License plate events are transmitted to the head-end system where they are logged and can be searched. Support for firmware rollback Enhanced Alarm Profiles to safeguard against suppressing all alarms Remote hard disk re-formatting for improved remote maintenance Added System load-to-status displaying utilization level of each processor core and the average CPU utilization. Integrated CS patches (kernel Linux) Improved boot screen displays build date on the console welcome screen Low cost USB I/O module support (for IFT Gateway) Templates config file customization Several bug fixes.
XO 4.3.7 - Jan 2021	Upgrading a device to 4.3.7 resolves the problem with device reboot happening when a XO 4.3.6 device connects with Xchange2.

Release	Description
XO 4.3.6 - Feb 2019	Support for Honeywell Performance Series HQA (high-quality analogue) HRHQxx/HRHTxx DVRs, providing high-definition analogue video for the XO devices. XO firmware in 32-bit and 64-bit versions. Support for multiple live streaming. Improved rendering performance with hardware decoding. Configured cameras are indicated by an asterisk in the camera list in the XO client (System > Video Inputs). You can now modify the IP address of a FastTrace 2 Series or iFT Series device without restarting the device. You can now export video files larger than 4 GB to USB drives. You must format the USB drive as exFAT. Fixed issue: live video playback is now smooth again, and starts faster. The iFT Gateway Commissioning Tool now allows for setting the time zone. Support for the Axis C2005 Network Ceiling Speaker (audio in and out). Audio out test. The Test Audio button in the XO client allows you to play an alarm sound clip to test audio out. Audio out is now working on Honeywell camera models H4L6GR2 and HBL6GR2, and Milesight camera model MS-C2951-PB. Support for both Profile S and Profile T (for H.265 decoding) in the new ONVIF and Honeywell drivers. This will allow you to integrate more camera models with XO. H.265 decoding is now available (with suitable cameras) with the following drivers: Hikvision (from XO 4.2), Honeywell, ONVIF, and the generic driver (from XO 4.2). Support for several new cameras. The XO client indicates the interface type used for the connected PIR detectors. You can now remotely format the recording hard disks in your XO device (FastTrace 2 Series and iFT Series). Improved spider suppression algorithm to minimise false alarms caused by spiders on camera housing. Motion/Sabotage now displays the motion detection graph also for IP cameras (previously only for analogue cameras). This will help you set up the parameters correctly for motion detection on IP cameras. XO 4.3 now integrates with MAXPRO VMS (versions R550 and above) via the XO SDK.

CHAPTER

2 PRODUCT RELEASE

About this Product Release

This document refers to the release of the ADPRO iFT Series/eFT Series/iFT Gateway—Server firmware/Client software for upgrade from version XO 5.02.0009 to version 5.03.0012.

Important Notice

All customers are required to upgrade to ADPRO XO 5.3. ADPRO XO plans to follow single branch strategy post 5.3 release, and fixes and patches based on any on-field issues or security issues are provided on top of XO 5.3 and not on any earlier branch.

XO 5.3 will remain compatible with 5.2 to ensure a smooth upgrade. Upgrade all XO 5.2 devices to XO 5.3 firmware. The older devices that can't upgrade to XO 5.1 have reached EOL (End Of Life) and will not receive any more updates. The devices reaching EOL will continue to receive support for three years.

Please note the following:

- XO 5.3 comes with only 64-bit firmware.
- FastTrace 2E is EOL with XO 5.1. FastTrace 2 and FastTrace 2X were EOL before XO 5.1.
- FastTrace 2E may have 32-bit firmware or 64-bit firmware, depending on the presence of analog encoder cards. Upgrade to XO 5.1 is allowed for 64-bit FastTrace 2E.
- EOL products will get limited support for their currently installed firmware till the end of their stipulated support period, implying only technical support and no firmware upgrade.

Data Compatibility

Firmware XO 5.3

This upgrade applies to the ADPRO iFT Series, iFT Gateway, and eFT Series devices. FastTrace 2E doesn't support upgrade to XO 5.3. The current firmware version numbers start with **XO 5.3**. There are three types of eFT devices: eFT-T2, eFT-T2/8P, and eFT-T4/16P. The XO 5.3 firmware is compatible with all eFT series devices with product numbers 67xxxxxxx. There are two types of iFT: iFT and iFT-E. The XO 5.3 firmware is compatible with all iFT Series devices with product numbers 60xxxxxx, 61xxxxxx, and 63xxxxxx.***[1]*** The XO 5.3 firmware is compatible with the iFT Gateway devices (product number 66000000 or 66000004).***[2]***

[1] Only the devices with a minimum 4 GB DOM, 4 GB RAM, and a PH10LU or PH10FEU motherboard.

[2] Only 64-bit is provided for iFT Gateway (ARM based).

Older Versions

Compatibility of firmware versions below XO 5.3 are listed below:

The **XO 5.2** firmware is compatible with all eFT series devices with product numbers 67xxxxxxx. There are two types of iFT: iFT and iFT-E. The XO 5.2 firmware is compatible with all iFT Series devices with product numbers 60xxxxxx, 61xxxxxx, and 63xxxxxx.***[1]*** The XO 5.2 firmware is compatible with the iFT Gateway devices (product number 66000000 or 66000004).

The **XO 5.1** firmware is compatible with FastTrace 2 Series device with product numbers 58xxxxxx if they have a minimum 4 GB DOM, 4 GB RAM, and a PH10LU or PH10FEU motherboard; compatible with all eFT series devices with product numbers 67xxxxxxx; compatible with all iFT Series devices with product numbers 60xxxxxx, 61xxxxxx, and 63xxxxxx; compatible with all iFT Gateway devices with product number 66000000 or 66000004 (32-bit only for ARM-based iFT Gateway)

The **XO 4.0**, **XO 4.2**, and **XO 4.5** firmware are compatible with FastTrace 2 Series devices with product numbers 53xxxxxx, 55xxxxxx, 56xxxxxx, and 58xxxxxx if they have a DOM with a minimum capacity of 2 GB; and with all iFT Series devices with product numbers 60xxxxxx, 61xxxxxx, and 63xxxxxx. The XO 4 firmware does not support DS40xx encoder cards. The XO 4 firmware is not compatible with V3100 devices (product numbers 50xxxxxx/51xxxxxx).

The **XO 4.3** firmware is compatible with FastTrace 2 Series devices with product numbers 58xxxxxx if they have a DOM with a minimum capacity of 2 GB, and a PH10LU motherboard. Depending on the presence of analogue encoder cards, the FastTrace 2 Series device requires either the 32-bit or the 64-bit firmware version. For details, see Installation related section.

The XO 4.0/XO 4.2/XO 4.3 firmware does not support DS40xx encoder cards. The XO 4.0/XO 4.2/XO 4.3 firmware is not compatible with V3100 devices (product numbers 50xxxxxx/51xxxxxx). The XO 4.3 firmware is not supported on FastTrace 2 Series devices with an Intel DG31PR, Intel DG41TY, Intel DH55TC, or Intel DH61BE motherboard.

The **XOa 3** firmware versions are compatible with all FastTrace 2 Series devices with product numbers 53xxxxxx, 55xxxxxx, 56xxxxxx, and 58xxxxxx, and with all iFT Series devices with product numbers 60xxxxxx, 61xxxxxx, and 63xxxxxx. The XOa 3 firmware does not support DS40xx encoder cards. It is not compatible with V3100 devices (product numbers 50xxxxxx/51xxxxxx). It is not compatible with the iFT Gateway.

The **V02** firmware versions are compatible with all FastTrace 2 Series devices with product numbers 53xxxxxx, 55xxxxxx, 56xxxxxx, and 58xxxxxx. The V02 firmware versions are not compatible with iFT Series and iFT Gateway devices. The iFT Series devices require minimum firmware version XOa 3.00.0005; the iFT Gateway requires minimum firmware version XO 4.02.0008.



Caution: Please check the system requirements and also backup the files and data before performing the upgrade.

CHAPTER

3 ENHANCEMENTS

Please also refer to the Release Notes of previous versions:

- Enhancements – V01.03.00 to V01.05.03
- Enhancements – V02.00.0000 to V02.02.0180
- Enhancements – V02.03.0000 to V02.03.0140
- Enhancements – V02.05.0000 to V02.06.0008
- Enhancements – V02.06.0009 to V02.06.0020
- Enhancements – V02.06.0021 to V02.06.0033
- Enhancements – V02.06.0034 to V02.06.0042
- Enhancements – V02.06.0050 to V02.09.0005
- Enhancements – V02.10.0000 to V02.10.0008
- Enhancements – V02.10.0008 to V02.11.0023
- Enhancements – V02.11.0023 to V02.11.0029 (26598_01)
- Enhancements – V02.11.0029 to XOa 3.00.0005 (26598_04)
- Enhancements – XOa 3.00.0005 to XOa 3.00.0010 (26598_05)
- Enhancements – XOa 3.00.0010 to XOa 3.02.0012 (26598_07)
- Enhancements – XOa 3.02.0012 to XOa 3.02.0017 (26598_08)
- Enhancements – XOa 3.02.0017 to XOa 3.02.0033 (26598_10)
- Enhancements – XOa 3.02.0033 to XO 4.00.0007 (26598_11)
- Enhancements – XO 4.00.0007 to XO 4.02.0008 (26598_12)
- Enhancements – XO 4.02.0008 to XO 4.02.0010 (26598_13)
- Enhancements – XO 4.02.0010 to XO 4.02.0012 (26598_14)
- Enhancements – XO 4.02.0012 to XO 4.03.0006 (26598_15)
- Enhancements – XO 4.03.0006 to XO 4.03.0007 (26598_15)
- Enhancements – XO 4.03.0006 to XO 4.05.0007 (26598_16)
- Enhancements – XO 4.05.0007 to XO 4.05.0013 (26598_17)

- Enhancements - XO 4.05.0013 to XO 5.01.0010 (26598_18)
- Enhancements - XO 5.01.0010 to XO 5.02.0009 (800-26219 Rev B)

Visit My Honeywell Building University (logon required) for the latest version of the current and any referenced document, and download from Security Technical Support > Download Center.

Enhancements and issue fixes

XO 5.3.12 has the following enhancement:

Support VPN connection via Windows Server 2019

Integrated the HBoxToMP4 tool in XO client

Fixed some cyber security issues to enhance product security performance

XO 5.3.12 has the following issue fixes:

Item	Description
XO firmware issue fixes	Fixed filed issue-xo IP License cannot be used Fixed filed issue eFT SMART HDD errors and Issue detecting HDD Fixed the issue that NVR will reboot when pixelation mode with still scene option value 0 Fixed the issue that NVR will reboot when pixelation mode with high motion scene value 0 Fixed the issue that camera def need to be updated to support audio back for 35 camera Fixed the issue that camera def need to be updated to solve 'No raw video' problem for cameras Fixed the issue that camera shows 'No raw video' in status page, and also can not supported VA Fixed the issue that sockets leaking causes p2p sdk crashin Fixed the issue that License can not be synced successfully by Xchange Fixed the issue that the number of remaining license is not correct Fixed the issue that Adpro FW 5.3 - eFT reboot abnormally Fixed the issue that observed reboot issue based on gateway NVR with version 5.3.11 Fixed the issue that Licenses in using are unbounded abnormally after a sync with Xchange Fixed the issue that some license can not be applied to camera
XO Client issue fixes	Fixed VPCSS-668 XO - HBOX standalone player not working Fixed the issue that modifying the sabotage configuration file does not take effect
XO firmware modifications	Support tampering event from 35camera HC35W45R2 HC35WZ5R30W XO NVR (excluding ARM devices) can join VPN supported by Windows Server 2019 Added the device C1210-E into def file
XO Client modifications	Integrated the HBoxToMP4 tool into XO Client for converting hbox record file to mp4 file display build date on Xo client Added VPN configuration Page on Xo client Added new 2 MAC addresses for skipping password change MAC1: 74-86-E2-1E-F4-91 MAC2: D0-8E-79-1E-5C-90

CHAPTER 4

USER NOTIFICATIONS

Performance recommendations for live streaming:

- **720p**: Resolution: 1280x720, 30fps, Qhigh - live stream 12 Cameras in XO Client
- **2MP**: Resolution: 1920x1080, 30 fps, Qhigh - live stream 6 Cameras in XO Client
- **4MP**: Resolution: 2688x1520, 30fps, Qhigh - live stream 3 Cameras in XO Client

The following are the suggested PC specifications:

- Windows 10 Pro, 64-bit Operating System
- Intel Core i7 8th generation and 16 GB RAM

Additional streaming is possible on the PC with higher specifications.

The following are the limitations in Honeywell ADPRO XO 5.02.0002:

Mobile App user notifications:

- The customers using iFT Gateway may have problem with reviewing the recordings from Android and IoS as this is known limitation.
- iTrace Android app users may often experience site disconnection while streamings cameras.
- Redirection to HTTPS for cyber improvements may be preventing the working of iTrace demo links.
- Account lock for wrong password in the connection attempt from the iTrace app.
- iTrace app works only with the H264 streaming format.

CHAPTER

5 REQUIREMENTS

Hardware Requirements

The following are the recommended hardware requirements to run the XO client on a PC:

- Intel Core i5 processor with 8GB RAM
- Graphics card with DirectX 12 support and the capability for using YUV surfaces and hardware stretching. Intel® HD Graphics 630 is recommended.

The rendering switches to the GDI mode when the graphics card does not have this support. Rendering in GDI mode is not recommended because of high CPU utilization. When hardware decoding is active on a typical system (i7-4790 @3.60GHz), the XO client can handle decoding and rendering of up to 20 full HD (1920x1080) streams.

Note: *If you are using an additional discrete GPU (Nvidia, AMD Radeon...), then you need to activate the on-board Intel GPU in your PC's BIOS. For details, consult your PC's documentation.*

The embedded client application is now by default a 64-bit application, and the customers who require a 32-bit version can download it from the support site.

Support for Deep Learning LoiterTrace

The iFTE and iFT devices with PH10FEU motherboard can support Deep Learning LoiterTrace.

Support for SEDs

ADPRO XO 5.3 supports the following SEDs (Self-Encrypting Drive):

Capacity	Brand / Type	Model Number	Approval Status
4 TB	Seagate SED EXOS	ST4000NM010A	Tested and Approved
8 TB	Seagate SED EXOS	ST8000NM004A	Tested and Approved

Capacity	Brand / Type	Model Number	Approval Status
12 TB	Seagate SED EXOS	ST12000NM0248	Supported by design
14 TB	Seagate SED EXOS	ST14000NM003G	Supported by design
16 TB	Seagate SED EXOS	ST16000NM003G	Tested and Approved

Software Requirements

The following are the recommended software requirements to run the XO client on a PC:

- Windows 10 (64-bit)
- DirectX 12 drivers
- Internet Explorer 11



Caution: Firmware with hardware version 2.0.0.0 and software version 1.0.0.1 are needed to decode firmware in the older devices still running the HIPI card hardware.

- It is strongly recommended to download the latest drivers for your video card from the site of the manufacturer of your card. Doing this will resolve a number of issues that you would probably encounter.
  - NVIDIA: www.nvidia.com
  - AMD: http://amd.com



Warning: The client can be forced to use GDI mode. Just put gdi=1 in the [General] section of the hydra.ini file located in your data directory.

Warning: The default location is: c:\users\<username>\AppData\Roaming\Hydra\hydra.ini.

CHAPTER

6 UPGRADE TO XO 5.3

Upgrade considerations

The XO 5.3 firmware supports only the PH10LU and the PH10FEU motherboards.

Check if your device contains an analogue encoder card (DS42xx model). An all IP devices will not have analog encoder.

Contact Honeywell for other options if the device is not suited for upgrade.

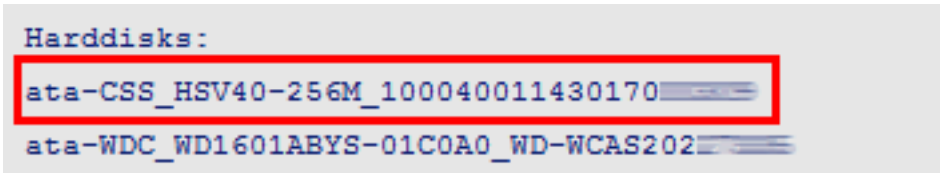
Check the device details from XO Client

Step 1. Start the client and connect to the desired device.

Step 2. Click **About** in the top menu.

Step 3. Check the motherboard and hard disk details from the **System** box (bottom left of the **About** window).

- Check **Motherboards**: the DH61BE Intel motherboard doesn't support upgrade, the PH10LU and PH10FEU motherboards support upgrade.
- Check **Harddisks**: The value consisting of ***HSV40-256M*** indicates a **256 MB DOM** not suited for upgrade.

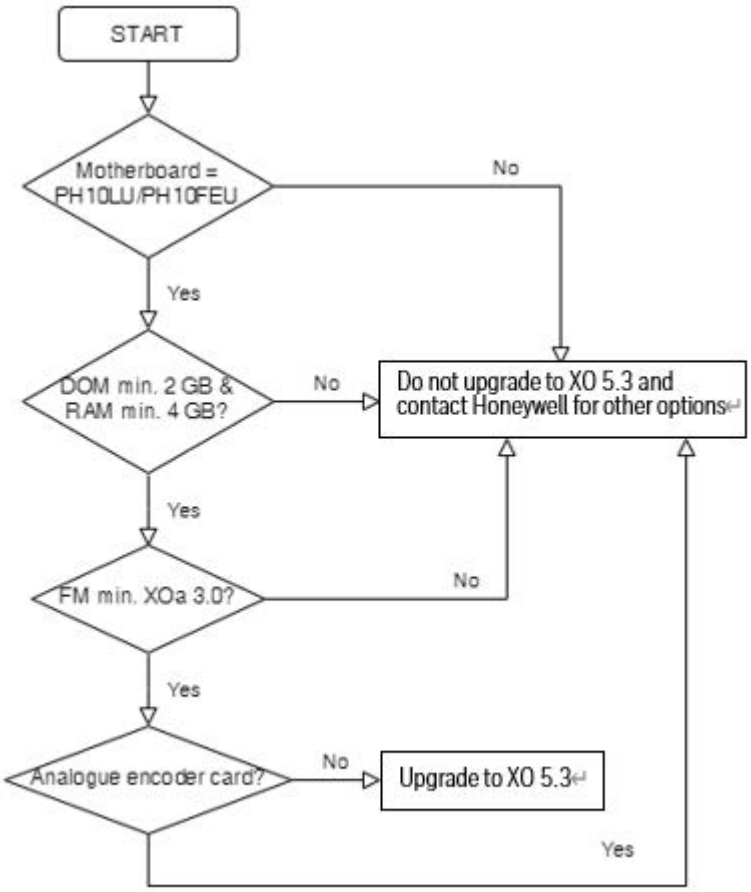


- Check if the device has analog encoder card: a line similar to the following three lines below **Identifier** indicates that the device has encoder card:

  `Encoder card: DS42xx - xxxxxx (LICENSED)`

Step 4. Check the firmware version of the device, at the top of the **About** window, under **Server**. The firmware version must be **XOa 3.0** or above.

Use the flowchart to determine if your device is suitable for upgrading to XO 5.3 (build version 5.03.0012).

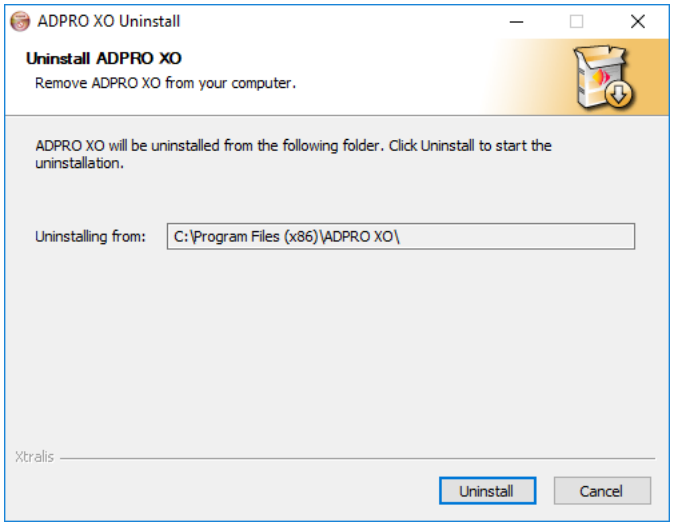


Get the upgrade files

Visit My Honeywell Building University (requires login) and download the upgrade files from Security Technical Support > Download Center, or get them from the release package/DVD.

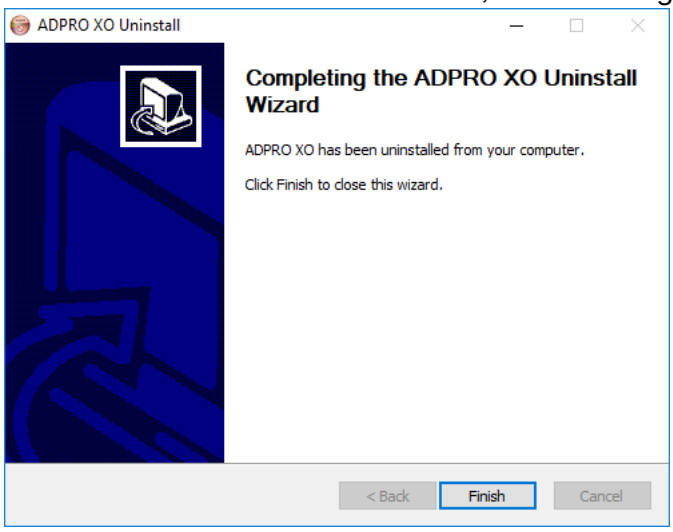
Install/upgrade Client software

Step 1. Double-click the ADPRO XO Client Software setup file. The system will uninstall the previous XO or XOa client version first.

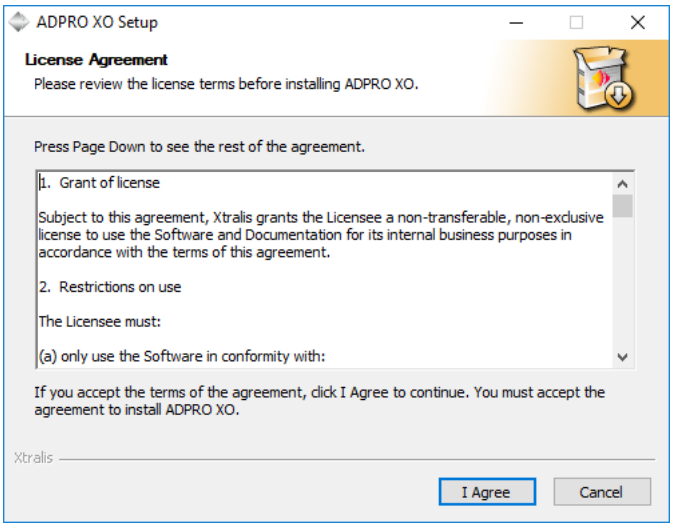


Note: *The uninstaller will preserve the devices that you have added to your current version. They will be immediately available in the new version.*

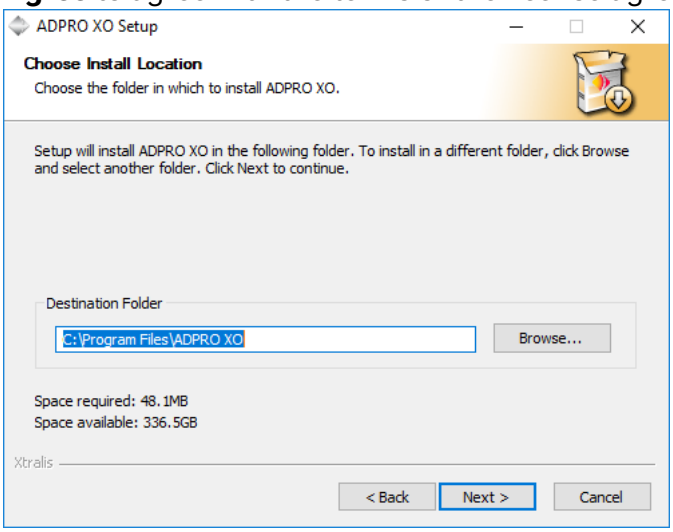
Step 2. Click **Uninstall** to confirm. When finished, the following screen appears:



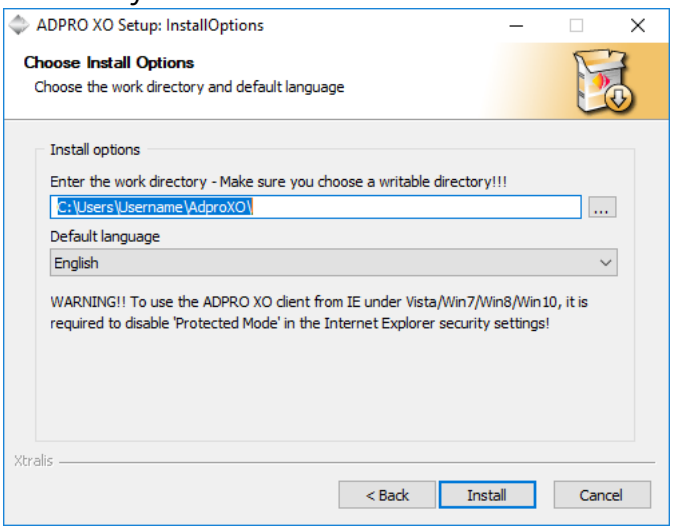
Step 3. Click **Finish**. The new version will now install.



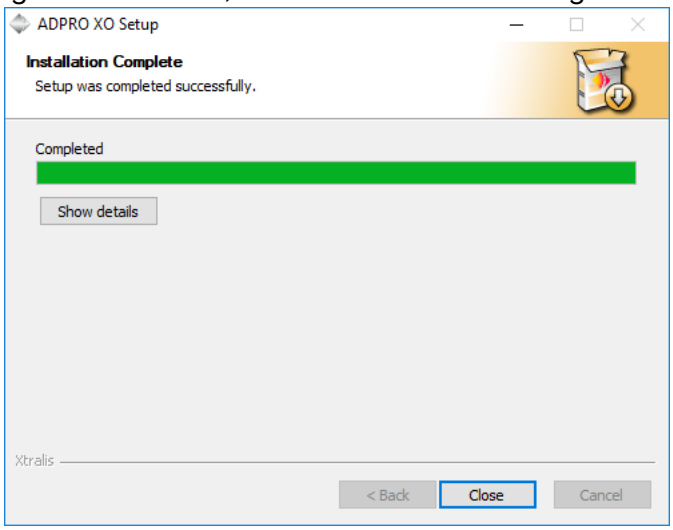
Step 4. Click **I Agree** to agree with the terms of the license agreement.



Step 5. Accept or modify the installation folder. Click **Next**.



Step 6. Accept or modify the default work folder (= the folder for storing snapshots and downloaded recordings). Also, select your preferred language. Click **Install**, and wait for the following screen to appear:



Step 7. When the installation is completed, click **Close** to exit the installation Wizard. The new client version is now installed.

Upgrade firmware

The firmware for iFT Series (iFT and iFT-E) and eFT Series (eFT-T2, eFT-T2/8P, and eFT-T4/16P), and iFT Gateway can be upgraded to XO 5.3 using one of the following:

- Xchange version 2 (recommended)
- Upgrade package

Use Xchange version 2

The device firmware can be upgraded to XO 5.3 using the Xchange version 2 and this is the preferred method for upgrade.

For details, see *Xchange version 2 user manual*

Use upgrade package

To upgrade using the upgrade package, proceed as follows:

Step 1. Before you install new software on a device, first open the client and make backups of:

- System license
- User data
- Configuration data

- Camera definition
- Calibration pictures.

For more information, see the *XO Client Software User Manual (21796)*.

Step 2. Repeat this for each device that you upgrade or install.

Step 3. For example, double-click the iFT_eFT_XO_05.03.0012_x64.exe file.

Step 4. Carefully read the information screen. It contains valuable information about the correct upgrade procedure. From XO 4.5.5, changing the default password for any XO device that is still on default will be enforced from the first login of that user.

Step 5. Select the **I have read it** check box, and then click **Next**.

Step 6. The following warning message may appear:

Do you want to allow the following program from an unknown publisher to make changes to this computer?

Click **Yes** to start the installation.

Step 7. Accept or modify the folder where the XO installer will unzip the installation files. The default folder is the **\Documents** folder of the current Windows user. Click **Install** to continue.

Step 8. Click **Yes** to continue.

The system will uninstall the previous XO or XOa client version first.

Note: *The uninstaller will preserve the devices that you have added to your current version. They will be immediately available in the new version.*

Step 9. Click **Uninstall** to confirm.

Step 10. Click **Finish**. The new version will now install.

Step 11. Click **I Agree** to agree with the terms of the license agreement.

Step 12. Accept or modify the installation folder. Click **Next**.

Step 13. Accept or modify the default work folder (= the folder for storing snapshots and downloaded recordings). Also, select your preferred language. Click Install, and wait for the following screen to appear:

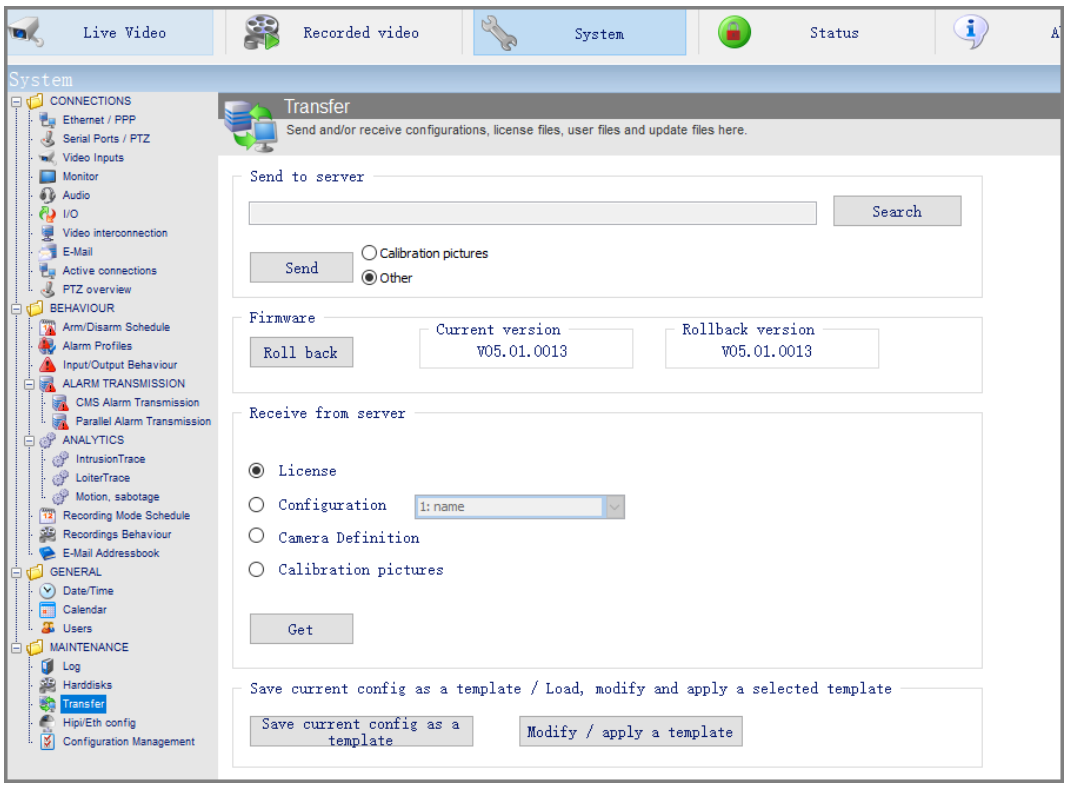
Step 14. When the installation is completed, click **Close**. The new client version is now installed. The installation Wizard now unzips the required .bin file for upgrading the device firmware.

Step 15. When finished, click **Close**.

Step 16. If you have downloaded more than one upgrade file, then double-click the other .exe files as well to unzip the required .bin files. The system will skip the client installation.

Next, you will upgrade the device firmware.

Step 17. Connect the XO client to the desired device, and then choose **System** > **Maintenance** > **Transfer**.



Note: *Versions above XO 4.5.13 don't support user data export.*

Step 18. Click **Search**, browse to the correct .bin upgrade file (from the location specified in **Step 7**), and then click **Open**.

Step 19. Click **Send**.

Step 20. Click **OK** to continue.

Step 21. Wait for the processing to complete and click **OK** to restart the device.

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