

**INSTALLATION MANUAL** 



# VIA XSQUARe Version 4.9 November 2023

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#### ICONOGRAPHY



# What's New?

In the Installation Manual the icon **NEW!** has been added next to the text to highlight information on new and updated features in version 4.9.

Changes linked to new features in VIA Xsquare version 4.9 do not require an update of the installation manual.

The full list of modified and new features in version 4.9 is available in the release notes.



It is essential to acquire the new VIA licenses in order to run the XTAccess 4.0 and higher servers with VIA Xsquare 4.0 and higher versions. Please contact EVS Support to do this.



It is highly recommended to perform a DB backup of your Xsquare 3.x software before upgrading to VIA Xsquare 4.0 and higher versions.

# 1. VIA Xsquare Overview

The VIA Xsquare solution is an orchestrator, which receives job requests and dispatches them (taking into account load balancing, JOB API, etc.) to the best VIA Xsquare agent, i.e. a VIA Xsquare agent available and able to manage the requested job (transcoding, rewrapping, etc).

VIA Xsquare agents are **XTAccess** applications.

All jobs for XTAccess will go through VIA Xsquare, which is the central point to control XTAccess. XTAccess is no longer directly visible to users therefore.

The main advantages of this architecture are the following:

• One global Orchestrator for all jobs

 $\rightarrow$  improvement of jobs load balancing, dispatching and management.

• One global configuration tool

 $\rightarrow$  simplification of the engine configuration as well as the target configuration.

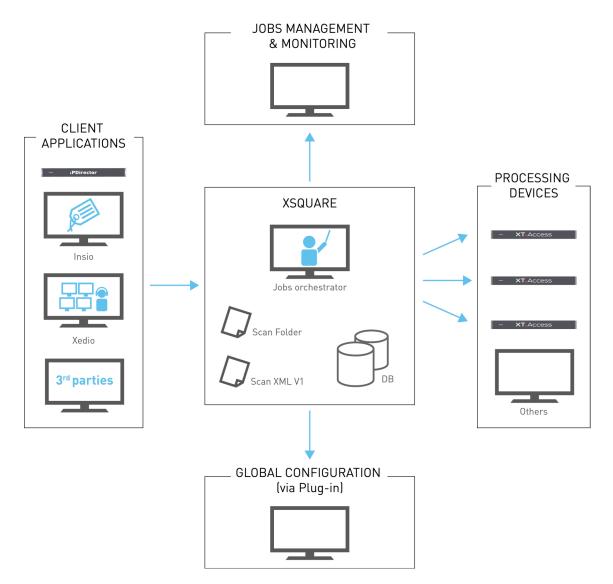
• One global monitoring tool

 $\rightarrow$  simplification of overall job monitoring

• Additional modules (e.g. Scan Folder) can be added to VIA Xsquare

 $\rightarrow$  modularity.





Clients (IPD, 3rd party, Xedio, etc.) that want to create a job (transfer of media from A to B) use only a single interface (GUI, API, configuration): **VIA Xsquare**.

# 2. Requirements

#### Hardware Requirements

VIA Xsquare has to be installed on a server hardware that meets the following requirements:

- CPU: CPU Intel i7
- RAM: 8 GB (64 GB recommended)
- VGA: 1024x768
- HDD: at least 2 GB free space
- Network: GigE board

#### Software Requirements

VIA Xsquare 4.9 is compatible with one of the following operating systems:

- Windows 10 64 bits (recommended windows 10 version LTSB or CBB 1607)
- Windows Server 2016 64 bits

VIA Xsquare 4.9 requires the following software:

• .Net Framework version 7.

# 3. Software Installation

## 3.1. Full Installation vs. Light Installation

The following VIA Xsquare installers are provided:

• The VIA Xsquare full installer, to install the complete VIA Xsquare application suite and required EVS services, as well as other software and services required to be able to work with the VIA Xsquare Suite (software requirements).

You should use the full installer for a new installation, an upgrade to a major release (e.g. from version 3.x to 4.x), or when any of the required external software needs to be updated to be compatible with the VIA Xsquare version.

The following executable files are available:

• File compatible with Windows 10 with the following name pattern: Xsquare\_Suite\_x.x.x\_ Setupwin10\_full\_sql2016.exe.

SQL Server 2016 is used with Windows 10 and is included in this executable.

• File compatible with Windows 10 with the following name pattern: Xsquare\_Suite\_x.x.x\_ Setupwin10\_full\_sql2019.exe.

SQL Server 2019 is used with Windows 10 and is included in this executable.



Please ensure that you have copied all three installation files, (i.e. the .exe file, along with the files ending with ...-1.bin and ...-2.bin), to be able to complete the installation.



**It is highly recommended to perform a DB backup of your Xsquare 3.x software before upgrading to VIA Xsquare 4.0.** Automatic downgrade from VIA Xsquare 4.0 to Xsquare 3.x is not supported. You will be able to recover a 3.x setup only by uninstalling 4.0, then reinstalling 3.x and restoring the 3.x DB.

• The VIA Xsquare light installer, to upgrade the VIA Xsquare application suite. It includes the VIA Xsquare Suite and other EVS software components, but no external software that may be required, which should be installed before upgrading.

The executable file has the following name pattern: Xsquare\_Suite\_x.x.x.x\_Setup\_light.exe.

You can use the light installer for a minor upgrade (e.g. from version 4.0 to 4.1) if all required external software is up-to-date on your workstation.



## 3.2. Installation Types

During the installation process, you will be able to choose from the following installation types:

- StandAlone setup: The installer will install VIA Xsquare, XTAccess and all the required software. The installer will also automatically associate XTAccess with VIA Xsquare. This Installation mode will not require further confirmations or information.
- **Orchestrator setup**: The installer will install VIA Xsquare and all the required software but not XTAccess. This Installation mode will not require further confirmations or information.
- **Agent setup**: The installer will install XTAccess and all the required software but not VIA Xsquare. This Installation mode will not require further confirmations or information.
- Advanced setup: The installer will show you all the software installed on your computer and you will be able to select manually the software to install.

This Installation mode will require further confirmations and information for each installer. This mode should be used by EVS experts only. In this mode, the following information is displayed:

- version number of installed components;
- version number of components available in the installation package;
- **Install** and **Remove** buttons for each component that make it possible to install or uninstall individual components.

### 3.3. Installing VIA Xsquare



When you install the FTA for C-Next in the advanced mode, you will need to upgrade .Net framework to version 4.7.

To install the VIA Xsquare Suite using the full installer,

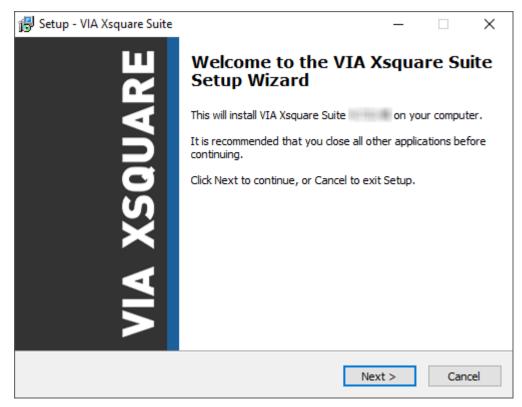
1. Copy the requested installer file in a temp directory (e.g. C:\Install Software\Xsquare\).

See section "Full Installation vs. Light Installation" on page 1 for more information on the various executable files.

2. Double-click the executable file to launch the VIA Xsquare Suite setup wizard.

The Welcome window appears.

3. On the Welcome window, click Next:



The Select Destination Location window appears.

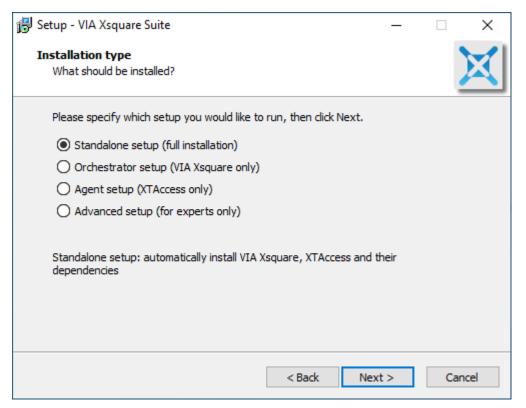


4. In the Select Destination Location window, select the destination directory to install the new software and click **Next**:

🛃 Setup - VIA Xsquare Suite	_		×
Select Destination Location Where should VIA Xsquare Suite be installed?			$\mathbf{X}$
Setup will install VIA Xsquare Suite into the following folder.			
To continue, click Next. If you would like to select a different folder, o	dick Bro	wse.	
C:\Program Files\EVS Broadcast Equipment	Br	owse	]
At least 2.502,0 MB of free disk space is required.			
< Back Next	>	Can	cel

The Installation Type window appears.

5. In the Installation Type window, select an installation type (See section "Installation Types" on page 2) and click **Next**.



The Ready to Install window appears.

6. The Ready to Install window summarizes the selected location for VIA Xsquare, and the database name. Click **Install**.

🔀 Setup - VIA Xsquare Suite —		×
Ready to Install Setup is now ready to begin installing VIA Xsquare Suite on your computer.		X
Click Install to continue with the installation, or click Back if you want to review change any settings.	or	
Destination location: C:\Program Files\EVS Broadcast Equipment		^
<	>	~
< Back Install	Ca	ancel

The Installing window opens.

- 7. In the Installing window, two behaviors are possible:
  - If you have selected the **Standalone**, **Orchestrator** or **Agent** setup, the various installation components are called and installed automatically one after the other.

The components are checked as they are installed. If one of the components fails to install, a red cross is displayed next to it. You will have to reinstall the component using an Advanced setup afterwards, or contact your system administrator.

For a full installation, you may be requested to restart your computer once some external software components have been installed.

When your computer has restarted, launch the VIA Xsquare installation wizard again and continue the installation of the EVS Software System components.



The following screenshot shows the Installing window during a full installation in Standalone mode, when all the components have been upgraded:

🔂 Setup - VIA Xsquare Suite	_	×
Completing the VIA Xsquare Suite Setup Wizard		
Setup has finished installing VIA Xsquare Suite on your computer.		
Click Finish to exit Setup.		
Software requirements		
✓ Bonjour service		
<ul> <li>Net 3.5</li> </ul>		
<ul> <li>Net 4.8 or above</li> </ul>		
<ul> <li>Net 7 or above</li> </ul>		
ASP .Net 7 or above		
✓ SNMP		
SQL Server 2016		
✓ Silverlight		
VC Redist 2010 x64 SP1		
VC Redist 2013 x64		
EVS Software System		
Notification Center		
Authentication		
Xsquare Workflow Host		
Xsquare Workflow Gateway		
VIA Xsquare		
VIA Xsquare Rest Proxy		
Common SNMP Agent		
VTAccess		
AssociationTool		
VIA Platform		
< Back Fin	ish	

The following screenshot shows the Installation window in a light installation in Standalone mode when all the EVS software components have been upgraded:

🔀 Setup - VIA Xsquare Suite	_	×
Completing the VIA Xsquare Suite Setup Wizard Setup has finished installing VIA Xsquare Suite on your computer. Click Finish to exit Setup.		X
<ul> <li>EVS Software System</li> <li>Notification Center</li> <li>Authentication</li> <li>Xsquare Workflow Host</li> <li>Xsquare Workflow Gateway</li> <li>VIA Xsquare</li> <li>VIA Xsquare Rest Proxy</li> <li>Common SNMP Agent</li> <li>XTAccess</li> <li>AssociationTool</li> <li>VIA Platform</li> </ul>		
< Back Fin	ish	

• If you have selected the Advanced setup, you need to manually click the **Install** or **Remove** buttons next to each installation component to install the upgraded version or remove it.

The following screenshot shows how the Installing window looks like during a full installation in Advanced mode:

Setup - VIA Xsquare Suite				_	×
Advanced installation Click on a blue label to perform t	the assoc	iated action	1		X
Software requirements Bonjour service Net 3.5 Net 4.8 or above Net 7 or above ASP .Net 7 or above SNMP	Install	Remove	Installed (IIII) yes yes yes yes yes	Ava ( yes yes yes yes	
<ul> <li>SQL Server 2016</li> <li>Silverlight</li> <li>VC Redist 2010 x64 SP1</li> <li>VC Redist 2013 x64</li> </ul>	Install Install	Remove Remove	() () ()	(	) )
EVS Software System Notification Center Authentication Xsquare Workflow Host Xsquare Workflow Gateway VIA Xsquare VIA Xsquare Rest Proxy Common SNMP Agent XTAccess	Install Install Install Install Install Install	Remove Remove Remove	( ) ( ) ( )		
<ul> <li>AssociationTool</li> <li>VIA Platform MaintenancePlan</li> <li>File Transfer Agent 4CNext VIA Licensing Service</li> </ul>	Install Install	Remove Remove Remove		( ( ( yes	
		< B	ack Finis	sh	 

lcon	Description
	Not installed
~	Last version installed
~	The installed version is newer than the available version.
1	The installed version is older than the available version.

8. When all the necessary components have been installed, click **Finish**.

Once the installation is complete, the following application shortcuts are created on the desktop:



VIA Xsquare configuration icon:



XTAccess icon:



Association Tool icon:

VIA Licensing Manager icon:

When VIA Xsquare is running, XTAccess always needs to be started. The small XTAccess icon in the notification area (right) of the taskbar is displayed when the application is open.

## 3.4. Installing VIA Licensing Service

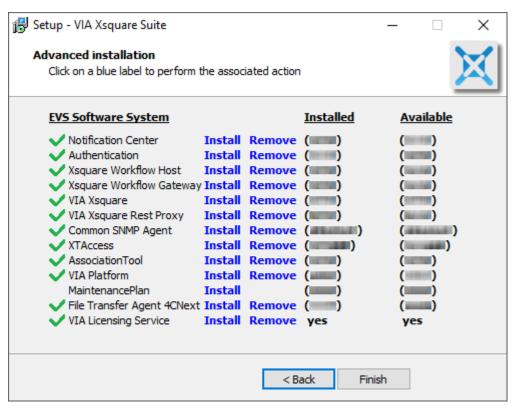
To install the VIA Licensing Service using the light installer in Advanced mode,

- 1. Launch the VIA Xsquare light installation wizard and follow the installation steps 1 to 3 as described in the main installation procedure in section "Installing VIA Xsquare" on page 3.
- 2. In the Installation Type window, select Advanced Setup and click Next.
- 3. In the Advanced Installation window, select Install next to VIA Licensing Service.

Setup - VIA Xsquare Suite Advanced installation Click on a blue label to perform	the assoc	iated action		
EVS Software System			Installed	Available
Notification Center	Install	Remove	( )	(
Authentication		Remove		( )
Xsquare Workflow Host				()
Xsquare Workflow Gateway				()
VIA Xsquare		Remove		(
VIA Xsquare Rest Proxy	Install	Remove	()	()
🗸 Common SNMP Agent	Install	Remove	()	()
XTAccess	Install	Remove	()	(
AssociationTool	Install	Remove	()	()
VIA Platform	Install	Remove	()	()
MaintenancePlan	Install		()	()
🗸 File Transfer Agent 4CNext	Install	Remove	()	()
VIA Licensing Service	Install		no	yes
		< Bi	ack Fin	ish



4. In the Advanced Installation window of the VIA Xsquare Suite installer, you will see the VIA Licensing Service is now installed. Click **Finish** to exit the installer.



To manage licenses, please refer to chapter "VIA Licensing Management" on page 16.

### 3.5. Installing FTA for C-Next

If you need to upgrade VIA Xsquare, first launch the appropriate VIA Xsquare installer to upgrade the whole VIA Xsquare Suite, and potentially any required external software.

Once you have upgraded VIA Xsquare, proceed as follows to install the FTA agent:

- 1. Launch the VIA Xsquare light installation wizard and follow the installation steps 1 to 3 as described in the main installation procedure in section "Installing VIA Xsquare" on page 3.
- 2. In the Installation Type window, select Advanced Setup and click Next.
- 3. In the Advanced Installation window, select Install next to File Transfer Agent 4CNext.

Advanced installation Click on a blue label to perform the	ne associ	iated action			Ž	
Software requirements			Installed	<u>Avail</u>		
Bonjour service .Net 3.5	Install	Remove		(	)	
<ul> <li>Net 3.5</li> <li>Net 4.8 or above</li> </ul>			yes	yes		
<ul> <li>Net 7 or above</li> </ul>			yes ves	yes yes		
ASP .Net 7 or above			yes	yes		
SNMP			ves	ves		
	Install	Remove	()	(	)	
			()	•	j j	
	Install	Remove	( )	( <b></b>		
VC Redist 2013 x64	Install	Remove	( )	(	)	
EVS Software System						
Notification Center	Install	Remove	()	(	)	
Authentication	Install	Remove	( )	(	)	
Xsquare Workflow Host	Install	Remove	()	(	)	
🗸 Xsquare Workflow Gateway	Install	Remove	()	(	)	
VIA Xsquare	Install	Remove	( )	(	)	
VIA Xsquare Rest Proxy	Install	Remove	( )	(	)	
			()	(	)	
		Remove	•	(	)	
-		Remove		(	1	
-		Remove		(		
From reer for reer for t	Install		()	(		
File Transfer Agent 4CNe ct			no	(	•	
VIA Licensing Service	Install	Remove	yes	yes		
				1		

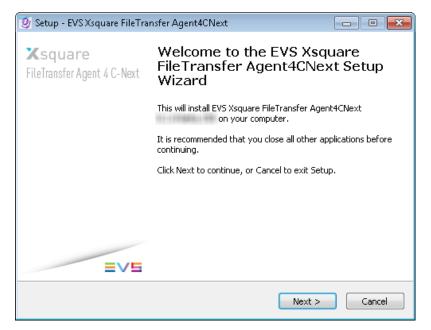
4. If a legacy File Transfer Agent is still installed on your VIA Xsquare setup, you will be asked to uninstall it. Click **Yes** to do so:

Setup		- 23
?	The legacy File Transfer Agent is installed on your Xsquare setup. This component is deprecated and needs to be removed to install the new File Transfer Agent 4 C-Next. Do you want to uninstall it ?	
	Yes No	

The File Transfer Agent Setup wizard opens.



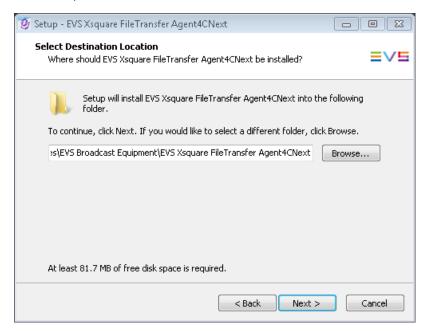
5. In the Welcome window, click Next.



6. In the License Agreement window, read the agreement and accept it:

🕑 Setup - EVS Xsquare FileTransfer Agent4CNext 📃 📼	×
License Agreement Please read the following important information before continuing.	∨⊑
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
Legal Notice	
Please note that the present product is supplied by EVS Broadcast Equipment SA or any other relevant entity of the EVS Group ("EVS") and is subject to EVS Software License Agreement (available on <u>https://evs.com/sites/default/files/Software_License_Agreement.pdf</u> or upon request) along with any applicable additional terms or policies. By installing, copying, or otherwise using the present product, you agree to be bound by the above-mentioned terms.	
<ul> <li>I accept the agreement</li> <li>I do not accept the agreement</li> </ul>	
< Back Next > Canc	el

7. In the Select Destination Location window, select the destination directory to install the FTA for C-Next and press **Next**:

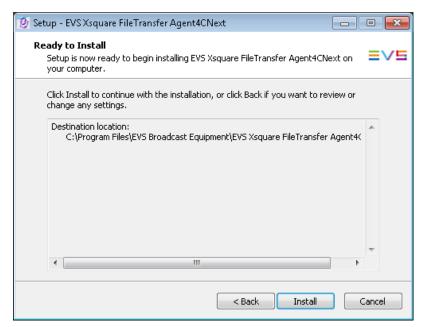


8. If you install the FTA for C-Next for the first time, click **Yes** in the following message to confirm you want to create the specified folder:

Folder Doe	s Not Exist	- 23
?	The folder: C:\Program Files\EVS Broadcast Equipment\EVS Xsquare FileTransfer Agent4CNext does not exist. Would you like the folder to be created?	
	Yes No	



9. In the Ready to Install window, click **Install**.



10. When the installation is over, the Completing the Installation window opens. Click **Finish** in this window:

👩 Setup - EVS Xsquare FileTra	nsfer Agent4CNext 🗖 🗉 🕱
<b>Xsquare</b> FileTransfer Agent 4 C-Next	Completing the EVS Xsquare FileTransfer Agent4CNext Setup Wizard
	Setup has finished installing EVS Xsquare FileTransfer Agent4CNext on your computer. The application may be launched by selecting the installed icons.
	Click Finish to exit Setup.
	Launch FileTransferAgent 4CNext
EVE	
	Finish

11. In the Advanced installation window of the VIA Xsquare Suite installer, you will see the FTA for C-Next is now installed. Click **Finish** to exit the installer.

Advanced installation Click on a blue label to perform t	he associ	iated action	1		X
Software requirements Bonjour service Net 3.5 Net 4.8 or above	Install	Remove	Installed () yes yes	Available () yes yes	1
<ul> <li>Net 7 or above</li> <li>ASP .Net 7 or above</li> <li>SNMP</li> <li>SOL Server 2016</li> </ul>	Install	Remove	yes yes yes ()	yes yes yes (	)
VC Redist 2010 x64 SP1	Install Install	Remove Remove	() () ()	(	
<ul> <li>Authentication</li> <li>Xsquare Workflow Host</li> <li>Xsquare Workflow Gateway</li> <li>VIA Xsquare Rest Proxy</li> <li>VIA Xsquare Rest Proxy</li> <li>Common SNMP Agent</li> <li>XTAccess</li> <li>AssociationTool</li> <li>VIA Platform MaintenancePlan</li> </ul>	Install Install Install Install Install Install Install Install Install Install	Remove Remove Remove Remove Remove			-
<ul> <li>File Transfer Agent 4CNext</li> <li>VIA Licensing Service</li> </ul>		Remove Remove		(iiiiii) yes	

Once the installation is complete, the following application shortcut is created on the desktop:



When VIA Xsquare is running, the FTA4CNext needs to be started. The small FTA4CNext icon in the notification area (right) of the taskbar is displayed when the application is open.



Refer to the VIA Xsquare User Manual, section "Setting up a File Transfer Agent for C-Next" for detailed information on how to configure an FTA for C-Next.



# 4. VIA Licensing Management

#### Introduction

To perform basic tasks (grab, delete, move and copy jobs and create metadata), no VIA License is necessary. Destination Licenses are needed for rewrapping and transfers between XS- and XT-VIA servers. For transcoding, miscellaneous video processing, EDL rendering and SDR/HDR static conversion jobs, Advanced licenses are also required on the XTAccess servers, in addition to the Destination licenses.

For SDR/HDR dynamic conversion, a Premium license is required together with the Destination and Advanced licenses.

For frame rate conversions, a dedicated Frame Rate Conversion license is required (XTA-FRC-OPT) together with the Destination and Advanced licenses.



The number of licenses required will depend upon the number of concurrent jobs that have to be performed, and the number of destinations in these jobs.

Available Job Types	No License	Destination License	Destination + Advanced License	Destination + Advanced + Premium License	Destination + Advanced + Frame Rate Conv License
Grab, delete, move, copy, create metadata	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Ingest to Avid (AAF or Interplay)	C	overed by EVS	Avid Tools prici	ng	
Rewrap	√	√	√	$\checkmark$	$\checkmark$
Transfer to/from XS/XT-VIA (no transcoding, or proxy backup)		√	√	√	~
Transcoding			$\checkmark$	$\checkmark$	$\checkmark$
Misc. video processing (logo, burn TC, audio matrix, etc.)			V	√	$\checkmark$
EDL rendering (smart or with transcoding)			$\checkmark$	√	$\checkmark$
SDR/HDR static conversion			√	$\checkmark$	$\checkmark$
SDR/HDR dynamic conversion				V	
Frame rate conversion (4.x)					$\checkmark$

#### How to Install a VIA License



Please refer to the VIA Platform manual to find out how to access the VIA Platform web application and use the VIA Licensing Manager service to request and install licenses on the relevant servers.

The command line procedure is also available and can be used if necessary for support.

1. Open the VIA Licensing Manager through the **Windows Start** menu:

```
or browse to:
C:\Program Files\EVS Broadcast Equipment\Via Licensing
Service\Licensing.Api.CLI.exe
```

The following panel opens where you can select from the 5 menu options to perform the various steps.

C\Program Files\EVS Broadcast Equipment\Via Licensing Service\Licensing.Api.CLLexe	-	۵	×
Via Lieensing			^ 
Mainager			
Please select an operation			
a Generate locking code Show installe dicenses Install a license Remove a license Exit			
			~

2. Generate the locking code by selecting **Generate Locking Code**. The screen will display the device's unique locking code. You should send this code to EVS support, in order to receive the specific license file for this device.





3. The license can then be installed by entering **Install a license** and either dragging & dropping the file or entering the file path here.



4. Once the licenses are installed, they can be displayed by selecting **Show installed licenses**.

From	To	Number of licenses	Active	
12-10-20 09:59:00 24-11-21 00:00:00 12-10-20 09:59:00		8 20 20	True True True	
	24-11-21 00:00:00	24-11-21 00:00:00 12-10-20 09:59:00	24-11-21 00:00:00 12-10-20 09:59:00 20	24-11-21 00:00:00 20 True 12-10-20 09:59:00 20 True

In the first row in the above image for example, we can see that there are 8 permanent Advanced licenses which have been valid since 12/10/2020 on the device.

It is also possible to check the number and type of installed licenses on each server in the Licenses column of the Orchestration panel. The maximum number of available licenses can also be checked in the relevant columns here.

5. Licenses can be removed from the list by selecting **Remove a license** and editing the list as required.



#### List of Codes

The following types of licenses are currently available:

#### **VIA Xsquare Destination Licenses**

- XTA-20DEST-FLEX: pack of 20 destinations (for 1 XTA), annual subscription
- **XTA-5DEST-GO**: pack of 5 destinations (for 1 XTA), permanent license.

#### **VIA Xsquare Advanced Licenses**

- **XTA-ADV-OPT-FLEX**: Advanced option per destination, annual subscription.
- **XTA-ADV-OPT-GO**: Advanced option per destination, permanent license.

#### **VIA Xsquare Premium Licenses**

- **XTA-PREM-OPT-FLEX**: Premium option per destination, annual subscription.
- **XTA-PREM-OPT-GO**: Premium option per destination, permanent license.

#### VIA Xsquare Frame Rate Conversion Licenses

• XTA-FRC-OPT-FLEX: Frame rate conversion option per destination, annual subscription.



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