# **INSTALLATION MANUAL**

Version 3.9 - May 2017



## Xsquare.



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### What's New?

### Introduction

Changes linked to new features in Xsquare version 3.9 do not require an update of the installation manual.

The full list of modified and new features in version 3.9 is available in the release notes.



### 1. Xsquare Overview

The goal of the Xsquare solution is to act as an orchestrator receiving job requests and dispatching them to the best Xsquare agent (loadbalancing, JOB API, etc), which means an Xsquare agent available and able to manage the requested job (transcoding, rewrap, etc).

The Xsquare agents can be XTAccess or File Transfer Agent (FTA).

All the jobs for XTAccess will go through Xsquare, which will be the central point to control XTAccess. XTAccess will not be directly visible to the users any more.

The jobs for FTA can be directly included in the XML job file, or be integrated into a more complex job, as a post-processing step, in XSquare.

The main advantages of this architecture are the following:

- One global Orchestrator for all the jobs
  - $\rightarrow$  improvement of jobs load balancing, dispatching and management.
- One global configuration tool
  - $\rightarrow$  simplification of the engines configuration as well as the targets configuration.
- One global monitoring tool
  - $\rightarrow$  simplification of the monitoring of all the jobs.
- Additional modules (Scan Folder, Scan XML v1) can be added to Xsquare

 $\rightarrow$  modularity



The clients (IPD, 3rd party, Xedio, etc) who want to create a job (transfer of media from A to B) will have only one unique interface (GUI, API, configuration): **Xsquare**.



### 2. Software Installation

### 2.1. Full Installation vs. Light Installation

Three Xsquare installers are provided:

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

Two executable files are available:

- One compatible with Windows 7 with the following name pattern: Xsquare\_ Suite\_x.x.x.x\_Setupwin7\_full.exe. SQL Server 2008 is used with Windows 7 and included in this executable.
- One compatible with Windows 10 with the following name pattern: Xsquare\_ Suite\_x.x.x.s\_Setupwin10\_full.exe. SQL Server 2016 is used with Windows 10 and is included in this executable.

You will use the full installer for a new installation, an upgrade to a major release (for ex. from v.2.X to V3.X), or one of the required external software needs to be updated to be compatible with the Xsquare version.

The Xsquare light installer to upgrade the Xsquare application suite. It includes the Xsquare suite and other EVS software components, but not external software required, which must have been previously installed.

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

You can use the light installer to upgrade to a new minor release (for ex. from v.3.4 to V3.8) if all required external software are up to date on your workstation.

#### NOTE

See the release notes for full information on compatibility with Windows OS and SQL Server.

#### 2.2. Installation Types

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

- StandAlone setup: The installer will install Xsquare, XTAccess and all the required software. The installer will also automatically associate XTAccess to Xsquare. This Installation mode will not ask other confirmations or questions.
- Orchestrator setup: The installer will install Xsquare and all the required software but • not XTAccess. This Installation mode will not ask other confirmations or questions.
- Agent setup: The installer will install XTAccess and all the required software but not Xsquare. This Installation mode will not ask other confirmations or questions.
- 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 for each installer other confirmations and questions. This mode must be used by EVS experts only. In this mode, the following information are displayed:

- version number of installed components; 0
- version number of components available in the installation package;
- Install and Remove buttons for each component that make it possible to install or 0 uninstall individual components.



The FTA agent can only be installed via the Advanced installation. See Installing the FTA agent.



### 2.3. Installing Xsquare

#### NOTE

For a minor upgrade, check that your workstation meets the external software requirements defined in the release note. Otherwise, select a full installer to upgrade Xsquare.

To install the Xsquare suite using the full installer, proceed as follows:

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 Xsquare Suite setup wizard, then follow the installation steps:

The Welcome window appears.

3. On the Welcome window, press Next:



The Select Destination Location window appears.

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

| 😰 Setup - Xsquare Suite  | - • <b>×</b> |  |
|--|--------------|--|
| Select Destination Location<br>Where should Xsquare Suite be installed?                | X            |  |
| Setup will install Xsquare Suite into the following folder.                            |              |  |
| To continue, click Next. If you would like to select a different folder, click Browse. |              |  |
| C:\Program Files (x86)\EV5 Broadcast Equipment   | Browse       |  |
| At least 1,714.5 MB of free disk space is required.                                    |              |  |
| < <u>B</u> ack Next  | > Cancel     |  |

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**.

| 🔁 Setup - Xsquare Suite   | - • •        |
|---|--------------|
| Installation type<br>What should be installed?                          | $\mathbf{X}$ |
| Please specify which setup you would like to run, then click Next.      |              |
| Standalone setup (full installation)                                    |              |
| Orchestrator setup (Xsquare only)                                       |              |
| Agent setup (XTAccess only)   |              |
| Advanced setup (for experts only)                                       |              |
| Standalone setup: automatically install Xsquare, XTAccess and their dep | endencies    |
| < <u>B</u> ack Next >   | Cancel       |

The Ready to Install window appears.



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

| 🔂 Setup - Xsquare Suite 📃 💼   |              |
|---|--------------|
| Ready to Install<br>Setup is now ready to begin installing Xsquare Suite on your computer.                      | $\mathbf{X}$ |
| Click Install to continue with the installation, or click Back if you want to review or<br>change any settings. |              |
| Destination location:<br>C:\Program Files (x86)\EVS Broadcast Equipment   | *            |
| 4   |              |
| < <u>B</u> ack  | Cancel       |

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.

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

#### NOTE

In case of a full installation, you may be requested to restart your computer once some external software components have been installed. When your computer is restarted, launch again the Xsquare installation wizard and proceed to the installation of the EVS Software System components. The following screenshot shows the Installing window in a full installation in Standalone mode when all the components have been upgraded:

| ompleting the Veguare Suite Setur W  | izand             | • |
|--------------------------------------|-------------------|---|
| Complexing the Asquare Suite Setup W |                   |   |
| Click Finish to exit Setup.          | on your computer. |   |
|                                      |                   | - |
| Software requirements                |                   |   |
| V Bonjour service                    |                   |   |
| .Net framework 3.5                   | (3.5.30729)       |   |
| .Net framework 4.6.1                 | (4.6.1055)        |   |
| V SNMP                               | yes               |   |
| V SQL Server SMO 13.0                |                   |   |
| V SQL Server 2008 R2                 |                   |   |
| 🧹 Silverlight                        |                   |   |
| VC Redist 2010 SP1                   |                   |   |
| VC Redist 2010 x64 SP1               |                   |   |
| EVS Software System                  |                   |   |
| V Notification Center                |                   |   |
| Authentication                       |                   |   |
| Xsquare Workflow Host                |                   |   |
| Xsguare Workflow Gateway             |                   |   |
| V Xsquare                            |                   |   |
| XSecure Manager                      |                   |   |
| Common SNMP Agent                    |                   |   |
| V XTAccess                           |                   |   |
| VTGateway                            |                   |   |
| AssociationTool                      |                   |   |
| loca and                             |                   |   |
|                                      |                   |   |
|                                      |                   |   |
|                                      |                   |   |
|                                      |                   |   |
|                                      |                   |   |
|                                      |                   | _ |
|                                      | < Back Finish     |   |



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

| ompleting the Xsquare Suite Setup Wizard   |   |
|--|---|
| Setup has finished installing Xsquare Suite on your computer.<br>Click Finish to exit Setup. | 2 |
| Software requirements  |   |
| Bonjour service  |   |
| .Net framework 3.5   |   |
| .Net framework 4.6.1   |   |
| SNMP   |   |
| SQL Server SMO 13.0  |   |
| SQL Server 2008 R2   |   |
| Silverlight  |   |
| VC Redist 2010 SP1   |   |
| VC Redist 2010 x64 SP1   |   |
| EVS Software System  |   |
| Notification Center  |   |
| Authentication   |   |
| Xsquare Workflow Host  |   |
| Xsquare Workflow Gateway   |   |
| V Xsquare  |   |
| XSecure Manager  |   |
| Common SNMP Agent  |   |
| VTAccess   |   |
| XTGateway  |   |
| AssociationTool  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |

 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 of remove it.

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

| 4                      |            |         | Installed       | Available   |
|------------------------|------------|---------|-----------------|-------------|
| V Bonjour service      | Install    | Remove  | (3.0.0)         | (3.0.0)     |
| Net framework 3.5      |            |         | (3.5.30/29)     |             |
| Child                  |            |         | (4.6.1055)      |             |
| SIMP                   | Tectall    | Domouro | yes (12.0.1601) | (12.0)      |
| SQL Server SMO 13.0    | Install    | Remove  | (13.0.1001)     | (10.50.1600 |
| SQL Server 2006 R2     | Install    | Remove  | (10.50.1000)    | (10.50.1000 |
| VC Redict 2010 SR1     | Install    | Remove  | (10.0.40210)    | (3.1.30428) |
| VC Redist 2010 SP1     | Install    | Remove  | (10.0.40219)    | (10.0.40219 |
| EVE Software Suctor    |            |         |                 | •           |
| Notification Center    | Install    | Damova  | (303)           | (303)       |
| Authentication         | Install    | Remove  | (389)           | (389)       |
| Visquare Workflow Host | Install    | Remove  | (389)           | (3.8.9)     |
| Vsquare Workflow Gatew | av Install | Demove  | (389)           | (389)       |
| Xsquare                | Install    | Remove  | (3.8.9)         | (3.8.9)     |
| V XSecure Manager      | Install    | Remove  | (161)           | (161)       |
|                        | Install    | Remove  | (101.0.13)      | (101.0.13)  |
| XTAccess               | Install    | Remove  | (3.8.9)         | (3.8.9)     |
| XTGateway              | Install    | Remove  | (3.8.9)         | (3.8.9)     |
| File Transfer Agent    | Install    | Remove  | (3.7.0)         | (3.8.4)     |
| AssociationTool        | Install    | Remove  | (3.8.9)         | (3.8.9)     |
| MaintenancePlan        |            | Remove  | (1.6.0)         | no          |

8. When all (requested) components have been installed, click Finish.

Once the installation is completed, the following application shortcuts have been created on the desktop:

Xsquare icon:

Association Tool icon:

XTAccess icon:

XSecure icon:



When 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.



### 2.4. Installing FTA Agent

If you prefer to first upgrade Xsquare using an automatic installation type, launch first the automatic installation process selecting the Standalone or Orchestrator setup.

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

- 1. Launch the Xsquare installation wizard and go through the installation steps 1 to 5 as described in the main installation procedure in section "Installing Xsquare" on page 3.
- 2. In the Installation Type window, select Advanced Setup and click Next.
- In the Advanced Installation window, select Install next to File Transfer Agent. The File TransferAgent Setup wizard opens.
- 4. In the Welcome window, click Next.

| 🎯 Setup - EVS FileTransferAge | nt 🗖 🗖 🗾  |
|-------------------------------|---|
| Setup - Evs Pile Transfer Age | Welcome to the EVS<br>FileTransferAgent Setup Wizard<br>This will install EVS FileTransferAgent 3.6.8.144 on your<br>computer.<br>It is recommended that you close all other applications before<br>continuing.<br>Click Next to continue, or Cancel to exit Setup. |
|                               | Next > Cancel   |

5. In the Select Destination Location window, select the destination directory to install the FTA agent and press **Next**:

| 🕑 Setup - EVS FileTransferAgent   |         |
|---|---------|
| Select Destination Location<br>Where should EVS FileTransferAgent be installed? | 2       |
| Setup will install EVS FileTransferAgent into the following folder.             |         |
| To continue, click Next. If you would like to select a different folder, click  | Browse. |
| C:\Program Files\EVS Broadcast Equipment\FileTransferAgent                      | Browse  |
| At least 59.0 MB of free disk space is required.                                |         |
| < Back Next >   | Cancel  |

6. If you install the FTA for the first time, click Yes in the following message to confirm you want to create a new folder for the FTA.

| Folder Doe | es Not Exist  | 83 |
|------------|---|----|
| ?          | The folder:<br>C:\Program Files\EVS Broadcast Equipment\FileTransferAgent<br>does not exist. Would you like the folder to be created? |    |
|            | Yes No  |    |

7. In the Select Components window, both components, the FTA and AppGuard, need to be selected if AppGuard is not installed yet. Click **Next**.



| 🥑 Setup - EVS FileTransferAgent  |             |
|--|-------------|
| Select Components<br>Which components should be installed?   | QJ          |
| Select the components you want to install; clear the components you do install. Click Next when you are ready to continue. | not want to |
| Full installation  | -           |
| FileTransferAgent Application  | 57.8 MB     |
| Install AppGuard (autorestart FileTransferAgent)   | 0.5 MB      |
| Current selection requires at least 59.4 MB of disk space.   |             |
| < Back Next >  | Cancel      |

8. In the Ready to Install window, click Install.

| 🥑 Setup - EVS FileTransferAgent 📃   | •      |
|---|--------|
| Ready to Install<br>Setup is now ready to begin installing EVS FileTransferAgent on your computer.              | Ż      |
| Click Install to continue with the installation, or click Back if you want to review or<br>change any settings. |        |
| Destination location:<br>C:\Program Files\EVS Broadcast Equipment\FileTransferAgent                             | *      |
|   |        |
| < Back Install (  | Cancel |

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

Once the installation is completed, the following application shortcuts have been created on the desktop:



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



### 3. XSecure Management

#### Introduction

To be able to manage more than 4 XTAccess with Xsquare and to be able to have the Xsquare user rights, it is necessary to have an Xsquare license.

XSecure uses hardware information from the device where Xsquare is running. This means that it is impossible to exchange licenses or codes between devices.

XSecure licenses are also necessary for the Xsquare agents (XTAccess and FTA).

Please refer to the XSecure user manual to:

- Start XSecure Manager.
- Collect information about your device.
- Request a license key from the EVS support.
- Import new license keys.

| 🔒 XSecure Manag        | er version 1.06.01  |  |                                     |                  |  | ×   |  |  |
|------------------------|---|--|-------------------------------------|------------------|--|---|--|--|
|                        |   |  |                                     |                  |  |   |  |  |
| Identification         |   |  |                                     |                  |  |   |  |  |
|                        | System ID 8V2N-2V5-LGR  | -5D1 9   | 5erial Number                       | 52640            |  |   |  |  |
|                        |   |  |                                     |                  |  |   |  |  |
| Customer Infe          | ormation  |  |                                     |                  | Warning  |   |  |  |
| Company                | EVS Broadcast Equipment   | Broadcast Equipment  |                                     |                  |  | Note : this form must be filled in                        |  |  |
| First Name             | EVS   | Last Name  | EVS                                 |                  | on the computer where<br>application will be u   | on the computer where the EVS<br>application will be used |  |  |
|                        |   |  |                                     |                  |  |   |  |  |
| Email Address          | info@evs.com  |  |                                     |                  |  |   |  |  |
| Phone Number           |   |  |                                     |                  |  |   |  |  |
| Computer Desc          | ription XTA-JLY-1   |  | _                                   |                  |  |   |  |  |
|                        |   |  |                                     |                  |  |   |  |  |
| License List           |   |  |                                     |                  |  |   |  |  |
| Application            | Module  | Type   | From                                | То               | Code   | -   |  |  |
| 120 - XFly Stream      | mer 10 - Base Package   | PERM   |                                     |                  | minorage/ow all plur   | 1000  |  |  |
| 130 - Xsquare          | 10 - Base Package   | PERM   |                                     |                  | Egrepa relation destruction  | Circle 1  |  |  |
| 130 - Xsquare          | 20 - Unlimited Engines  | PERM   |                                     |                  | Chall if and with the state  |   |  |  |
| 140 - C-Cast Dis       | tant 10 - Base Package  | PERM   |                                     |                  | Same around the c  |   |  |  |
| 140 - C-Cast Dis       | tant — 20 - Demo (do not use any  | more) PERM   |                                     |                  | Disease dealers and a construction of the second se | -   |  |  |
| •                      | III   |  |                                     |                  |  | - F   |  |  |
| Global Expiration Date |   |  |                                     |                  |  |   |  |  |
|                        |   |  |                                     |                  |  | _   |  |  |
| Operations             |   |  |                                     |                  |  |   |  |  |
| Request                | Select this option to generate a License Request File that must be sent by e-mail to your EVS support representative.<br>Then you will receive a License Key File to activate your application. |  |                                     |                  |  |   |  |  |
| Import Key             | Select this option to impor   | Select this option to import the License Key File sent by EVS and activate the corresponding licenses. |                                     |                  |  |   |  |  |
|                        |   | Load Manually type   | e the license key<br>nding license. | here, then click | on "Load" to activate  | Quit  |  |  |

### **List of Codes**

#### **Xsquare Application code 130**

- Module 10 Base Package: This module allows users to manage more than 4 XTAccess with Xsquare.
- Module 20 Unlimited Engines: This module allows users to manage an unlimited number of XTAccess applications with Xsquare.

| 130 - Xsquare | 10 - Base Package      | PERM |
|---------------|------------------------|------|
| 130 - Xsquare | 20 - Unlimited Engines | PERM |

#### **XTAccess Application code 60**

- Module 10 Base Package: This module allows users to use XTAccess agents with Xsquare.
- Module 20 Transcoding: This module allows users to perform jobs including transcoding with Xsquare (and XTAccess).

| 60 - XTAccess | 10 - Base Package | PERM |
|---------------|-------------------|------|
| 60 - XTAccess | 20 - Transcoding  | PERM |

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