USER MANUAL

Version 3.5 - November 2015

Xsquare.

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Table of Contents

What's New?

Introduction

In the Xsquare manual, the icon NEW ! has been added on the left margin to highlight information on new and updated features:

The full list of modified and new features in version 3.5 is available in the release notes.

The following list covers the new features having an impact on the user interface:

- If the feature is documented in the manual, a link to the relevant section is provided.
- If the feature is not documented in the manual, it is documented via the tooltips available in the application, or a short explanation is provided in this section.

Clip Overwrite on EVS Server Based on the VarID

In the Template defintion, the new field **Overwrite Policy** is available in the **Advanced** settings for an EVS server destination.

It makes it possible to update a clip on an EVS server destination when another clip having the same VarID already exists on this server. To achieve this, select **Overwrite based on VarID**. In this case, make sure you do not configure the VarID in the **Destination IDs** section.

To keep the standard behavior, which means no overwrite, select **Preserve clip if already exists**.

See section "Configuring Destination Settings in a Job Template" on page 60 about the settings you can configure for a destination.

Possibility to Define an Interplay URI per AVID Destination

- See "Avid Destination" on page 25 in section "Job Destination Parameters"

Existing Features

The following changes are not directly related to new features, and therefore not highlighted with the **New** icon:

Possibility to Use Variables for a Destination Folder

- See "File and Other Destinations" on page 26 in section "Job Destination Parameters"

1. Introduction

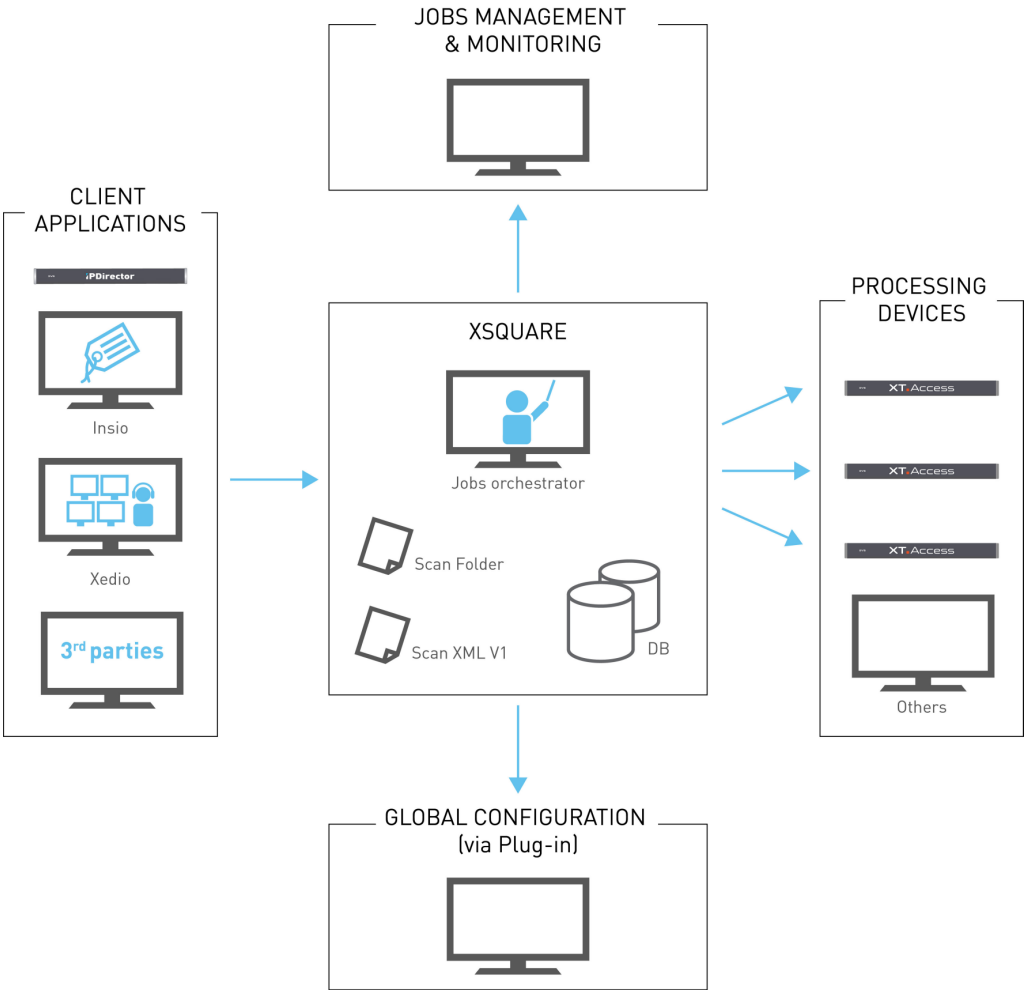
1.1. Product Overview

Description

Xsquare acts as an orchestrator that centralizes all job requests from client applications, and dispatches them to the most appropriate processing device, taking into account load balancing, job type, etc.

The Xsquare solution offers the following advantages:

- Central orchestrator for all jobs
- Global configuration tool for all processing devices
- Global monitoring tool
- Integration with old job processing



Client Applications

The Xsquare client is the device that initiates the job for Xsquare.

The client provides the source file or clip Xsquare needs to process.

The clients can be:

- EVS or third-party applications that use the new or the old job types that Xsquare can process
- Files that are dropped in a folder and trigger a job process.

Xsquare Orchestrator

Xsquare itself consists of four processes:

- The **job orchestration process** that receives the job requests and send them to the right processing device.
- The **ScanFolder process** that manages source files dropped in dedicated folders, and send jobs to Xsquare to process these files.

  See also section "Defining a ScanFolder" on page 22.
- The **ScanXML process** that manages XML file jobs (old job definition, called V1 jobs), and translate them into Xsquare jobs (V2 jobs), and optionally modify the job definition based on the Xsquare configuration.

  See also section "Defining a ScanXML" on page 19
- The **notification process** that records all notifications from the processing devices, saves them in a database, and sends light notifications to the clients.

Processing Devices

The processing devices are the engines that effectively process the jobs sent by Xsquare.

In the first versions of Xsquare, XTAccess applications are the only supported processing devices.

In later versions, other processing devices will be supported.

1.2. Accessing Xsquare

Introduction

Xsquare has a web-based user interface available from everywhere on the same TCP/IP network as Xsquare.

The web interface is hosted on an EVS Proxy service available on port 9004 of the computer on which Xsquare is installed.

Prerequisite

To be able to access Xsquare, you need to get a username and password from the administrator. Your user credentials are associated to a given level of user rights, which may limit the windows and/or features you will have access to in Xsquare.

How to Access Xsquare

1. Open a web browser and type the Xsquare URL using one of the following pattern:
   - On the local computer:

     `http//localhost:9004`

     OR

     `http//hostname:9004`
   - On another computer on the network:

     `http//xxx.xxx.xxx.xxx:9004` where the crosses correspond to the IP address of the machine on which Xsquare is installed

     OR

     `http//computername:9004` where **computername** is the full computer name of the machine on which Xsquare is installed.
2. To access Xsquare, enter your username and password.

When you have an Xsquare license, your username is displayed on the top right corner of the Xsquare window.

User Credentials

When Xsquare is not integrated with Active Directory, the user login and password are defined in Xsquare.

When Xsquare is integrated with Active Directory, users will use the Windows login and password to access Xsquare. The username must be preceded by the domain name in the following pattern: `domain name\username`.

1.3. Xsquare User Interface

Illustration

Xsquare is a web-based application: its home page features the modules organized in four sections:

Note
The access to the various modules of Xsquare depend on your user rights. The unavailable modules are dimmed on the main window.

Area Description

Xsquare is made up of the following modules:

#	Module	Task
1.	Job Initiators	Allows users to configure, start or stop different systems that initiate jobs the processing devices will manage. See section "Job Initiators" on page 7
2.	Configuration	The Configuration section contains configurable elements in Xsquare: • The **Orchestration** tool allows users to group the processing devices in clusters dedicated to specific job types. This makes it possible to distribute the jobs more efficiently among the various processing devices. See section "Orchestration" on page 30 • The **Job Templates** tool allows users to manage predefined or customer-defined job templates in Xsquare. See section "Managing Job Templates and Encoder Profiles" on page 50 • The **Encoders /Wrappers Profiles** tool allows users to customize encoder / wrapper profiles based on the predefined ones available by default in Xsquare. See section "Creating a Customized Job Template" on page 51 • The **Icons Manager** tool allows managing the icons used in Xsquare. See section "Icons Manager" on page 67 • The **Labels** tool allows managing the labels that can be assigned to targets. See section "Labels Window" on page 67
3.	Monitoring	Allows users to monitor: • the jobs scheduled, or already processed by the processing devices. • the EVS servers detected on the network. See section "Monitoring" on page 88
4.	Administration	Allows administrators (only) to define: • users & access, • user groups • user roles (i.e. rights and visibility) • parameters See section "Administration" on page 69

Note
A separate association tool makes it possible associate XTAccess applications installed on the network to Xsquare. Such associations are logically (but not necessarily) done before you start using Xsquare. See the documentation specific to this tool for more information.

1.4. Configuration for Active Directory Integration

Xsquare can be integrated to Active Directory for managing users and groups.

In this case, you have to configure Xsquare as explained below before you open the application:

1. In a text editor, open the file `Authentication.exe.config` located in `C:\Program Files\Evs Broadcast Equipment\Authentication`,
2. Under the **appSettings** element, in the **add** element, set the **value** attribute to **ActiveDirectory**.

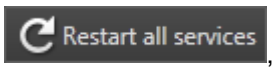
```
21  </connectionStrings>
22  <appSettings>
23      <add key="AuthenticationMode" value="ActiveDirectory"/>
24  </appSettings>
```

3. Save and close the file.
4. Launch the Xsquare services monitoring tool in one of the following ways:

   Double-click the Xsquare Services icon  in the Notification area

   OR

   Select the tool in the menu **Start** > **All Programs** > **EVS Broadcast Equipment** > **Xsquare Suite** > **Xsquare services monitoring tool**.

5. Restart all services by clicking 

, and close the application.

The Xsquare Services icon turns green  and Xsquare can then be started.

2. Job Initiators

2.1. Concepts around Jobs

Job

A job consists in a process to be executed on a source material. The result of the process is saved in a destination.

A job is therefore made up of three elements:

- the **source material** (clip, file or EDL) selected by a user in the client application, dropped in a folder or specified in an XML job definition file.
- the **process** to be executed on the source material. This can be, for example, a copy, rewrap, restore, transcoding action, referencing in an NLE, grab, etc. This is configured using a job template.
- the **destination**, which means the physical location where the output of the job must be stored. This is configured using a job template.

Soap V2 Job

The new interface to process Xsquare jobs use the soap protocol. The jobs using the new interface are called **Xsquare jobs** (or V2 jobs) in the online help.

The targets, a job initiator you can define in Xsquare, use V2 jobs.

XML File V1 Job

The interface previously used to process the jobs consists in XML job definition files. The jobs defined in the XML files are called **XML file jobs** (or V1 jobs) in the online help.

Xsquare can control the XML file jobs through the ScanXML service, available in Xsquare as a job initiator. Xsquare therefore remains compatible with the old XTAccess scanXML feature.

Job Initiators

Three job initiators are available in Xsquare:

Job Initiators	Description
Targets	A job is triggered from a client application when the user calls the target associated to the job. See section "Defining a Target" on page 11
ScanFolders	A job is triggered when a file is dropped in a folder defined in the scanfolder configuration and scanned by Xsquare. See section "Defining a ScanFolder" on page 22
ScanXML	A job is triggered when an XML definition file is dropped in a folder defined in the scanXML configuration and scanned by Xsquare. See section "Defining a ScanXML" on page 19.

Target

A target is a destination that the users in the client application can send a source material to. The source material can undergo processing before being sent to the destination. The targets use the Soap V2 jobs.

ScanFolder

A scanfolder consists in a folder that is scanned by an Xsquare service (ScanFolder service) to check for files to be processed. The folder is scanned when it is defined in an active (started) scanfolder in Xsquare. When a file with the file extension defined in the scanfolder configuration is dropped into the scanned folder, the ScanFolder service creates a job to process this source file as defined in the job template. Once the file is processed, it is sent to the destination defined in the job.

ScanXML

A scanXML instruction consists in an XML job definition file (V1 job) stored in a dedicated folder by a client application. The folder is scanned by the ScanXML service of Xsquare when it is defined in an active (started) scanXML. When the client application drops the XML job file in the scanned folder, the ScanXML service creates a job to process the source file as defined in the job template.

When no job template is associated to the scanXML definition in Xsquare, the instructions contained in the XML job file are taken into account. Otherwise, the instructions are merged based on specific merge rules.

Job Templates

Templates that specify a job process and destination. Xsquare users select a predefined templates or create a custom template when they create a scanXML, scanfolder or target.

See section "Types of Job Templates" on page 49 for more information on the types of job templates.

2.2. Configuring Targets

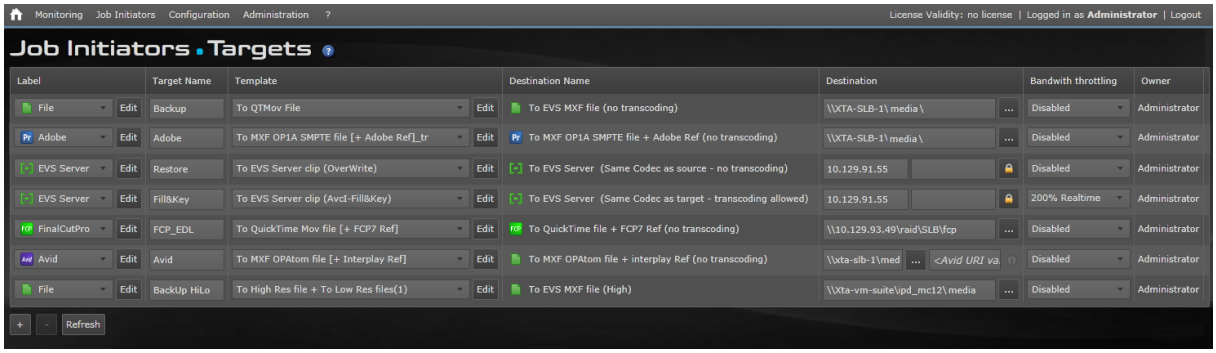
2.2.1. Target Window

General Description

The Target window makes it possible to define the targets that will be available in client applications, and specify the underlying job elements, that is to say the processing and the destination for the job.

On the Target window, each defined target is represented as a row in a table that contains a number of fields described below:

The **+** and **-** signs at the bottom of the window makes it possible to add a target or remove a target from the list:



Field Description

The table below describes the fields in the Target window:

GUI Element	Use this element to ...
Target Name field	assign a name to the target that will appear in the EVS application where the target is available.
Label field	assign a label to the target.
Template field	associate a job template to the target. The Edit button allows users to open the displayed job template, and create a customized job template based on it.
Destination Name field	view the name of the destination. It is stored in the job template and is automatically filled in when you select the job template.
Destination field	specify the physical location where the processed material has to be stored. See section "Job Destination Parameters" on page 24 for more information on this field.
Bandwidth Throttling field	limit the maximum bandwidth allocated to a job to the bandwidth for a real-time processing, or a multiple of it. If the field value is set to **Disable**, XTAccess uses all the network bandwidth available and try to perform the job as fast as possible. By limiting the bandwidth for lower priority jobs (archiving jobs, for example), more bandwidth can be available for higher priority jobs. This field therefore makes it possible to better manage job priorities, and to smoothen the bursts in bandwidth use.
Owner field	view the user who has created the target. This is a non editable field, only available for users logged as administrators.
Currently published to field	view the groups the given target is currently published to. This is a read-only field that is automatically filled in depending on the publication rules defined.
Publish button	select groups a target should be published to.
+ button (**Add** button)	add a target.
- button (**Remove** button)	remove the selected target.
Refresh button	refresh the window display.

2.2.2. Defining a Target

Introduction

Adding a target in Xsquare will automatically make this target available in the client application. No other configuration is required.

See section "Target Window" on page 9 for additional information on the field values specified in this procedure.

Prerequisites

Before adding a target, you must share the folder the processed files will be sent to.

Procedure

To add a target in Xsquare, proceed as follows:

1. Select **Targets** in the **Job Initiators** menu.
2. Click the **+** button at the bottom of the window to add a row for a new target.
3. Type a name for the target in the **Target Name** field.
4. Select a label from the list in the **Label** field.
5. Select a template from the list.

   If the available templates do not meet your needs, you can create a new template based on an existing one by clicking the **Edit** button.

   See section "Creating a Customized Job Template" on page 51 for more information on creating a customized job template.
6. In the **Destination** field, do one of the following according to the selected job template:
   - If you have not yet connected to that computer, you have to type the Windows user and password to gain access to the shared folders on that computer.
   - If the destination is an EVS server, type one or both GigE address of the EVS server. It is recommended to click the  icon and specify the username, password to access the EVS server, as well as the requested location, that is page, bank, and first position.
   - If the destination is an Avid Transfer Engine, specify the name of the Avid Transfer Engine.
7. In the **Bandwidth Throttling** field, you can limit, to real-time or a multiple of it, the maximum bandwidth allocated to the jobs based on this job initiator.
8. Click the **Save** button displayed below the target definition.

The new target is defined and is directly operational in the client applications.

2.2.3. Publishing a Target

Introduction

By publishing a target, a user can share the target with users who would otherwise not be able to see the given target thanks to their user rights only.

Depending solely on their rights, users can indeed see and modify their own targets, and possibly targets created by other users belonging to their group(s). They cannot see or edit targets created by users who do not belong their group(s).

If you have the right to publish a target, you will see the following elements in the Target window:

- a **Publish** button for each target
- the group(s) each target is currently published to.

Note
You can only publish a target when it has been saved.

How to Publish a Target

To publish a target, proceed as follows:

1. From Xsquare main window, click the **Targets** icon in the Job Initiators area.

   The Target window opens.

2. In the Target window, click 

on the row corresponding to the target to be published.

   The Publish to window opens.

3. Select the groups you want to publish the target to.

   If many groups exist, you can always enter part of the group name in the **Filter** field at the top of the window. The group list is then automatically filtered to display only the groups whose name includes the entered text string.

4. Click **Save**.

How to Modify the Target Publication Settings

To modify the publication settings of a target, proceed as follows:

1. In the Target window, click the 

button on the row corresponding to the target you want to modify the publication settings.

   The Publish to window opens.

2. Modify the publication groups by selecting and/or unselecing groups.
3. Click **Save**.

How to Unpublish a Target

1. In the Target window, click 

on the row corresponding to the target you want to unpublish.

   The Publish to window opens.
2. Click **Clear Selection** in the Publish to window.
3. Click **Save**.

2.3. Configuring ScanXML

2.3.1. ScanXML Window

General Description

The ScanXML window makes it possible to take over XML file jobs, by scanning the scanXML folder where XML job definition files are dropped.

From the ScanXML window, you can define scanXML that will handle the scanXML jobs in two possible ways:

- Taking over the XML file job, and processing it as originally defined in the XML file. In this case, you will not apply any template to the scanXML job.
- Taking over the XML file job, and applying an Xsquare template to the job. This will modify the job definition by merging the old and the new job definitions.

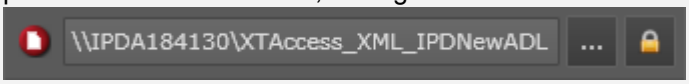
  See section "Merge Rules for ScanXML Jobs" on page 17 for more information about job merges.

An Xsquare service, called ScanXML service, is responsible for scanning the XML file jobs and translate them in Xsquare jobs based on the scanXML job definition.

On the ScanXML window, each scanXML that corresponds to a specific scanXML folder is represented as a row in a table that contains a number of fields described below:

Field Description

The table below describes the fields in the ScanXML window:

GUI Element	Use this element to ...
ScanXML field	point to the scanXML folder, among others.  This field is made up of several elements, described below, from left to right: • **Icon:** icon identifying whether the ScanXML service for the is started or not for this scanXML folder. • **Path:** path to the scanXML folder, and scanXML folder name • ...: icon that allows users to select the scanXML folder. • : icon that allows users to specify the Windows login and password to connect to the computer on which the scanXML folder is located.
ScanXML Name field	assign a nickname to the scanXML folder. This does not have to be the same name as the folder name created in the Windows repository.
Template field	associate a job template to the scanXML folder. If the XML file job has to be processed as defined in the XML job file, select **No Template (convert XML job to Xsquare job)** from the list.
Edit button	open the displayed job template, and create a customized job template based on it. This button is included in the **Template** field.
Destination Name field	view the a name to the destination. It is stored in the job template and is automatically filled in when you select the job template
Destination field	specify the physical location where the processed material has to be stored. See section "Job Destination Parameters" on page 24 for more information on this field.
Bandwidth Throttling field	limit the maximum bandwidth allocated to a job to the bandwidth for a real-time processing, or a multiple of it. If the field value is set to **Disable**, XTAccess uses all the network bandwidth available and try to perform the job as fast as possible. By limiting the bandwidth for lower priority jobs (archiving jobs, for example), more bandwidth can be available for higher priority jobs. This field therefore makes it possible to better manage job priorities, and to smoothen the bursts in bandwidth use.
Owner field	view the user who has created the scanXML definition. This is a non editable field, only available for users logged as administrators.

GUI Element	Use this element to ...
+ button (**Add** button)	add a scanXML definition.
- button (**Remove** button)	remove the selected scanXML definition.
Start button	Button that allows users to start the scanXML service of Xsquare, that is to say start scanning the scanXML folder, and executing the job when an XML file is detected in the scanXML folder.
Stop button	Button that allows users to stop the ScanXML service of Xsquare.
Refresh button	Button that allows users to refresh the window display.

2.3.2. Merge Rules for ScanXML Jobs

When you have associated a template to a scanXML definition in Xsquare, the parameters from the XML file job and from the scanXML job in Xsquare based on the job template are merged into a final job definition.

In this merge process, priority rules are applicable to determine which parameters will prevail in case of conflicting parameters in the job based on the XML file and on the Xsquare template.

The applicable rules are presented in the following table:

Job Type in the XML File	Job Type in the Xsquare Template	Result	Description		
			Destination	Codec/Wrapper Format	Other Options
Job to EVS Server	No associated template	No merge	All parameters are taken over from the XML file job. Xsquare does not add anything.		
Job to File	No associated template	No merge	All parameters are taken over from the XML file job. Xsquare does not add anything.		
Job to EVS Server	Template to EVS Server	Merge	XML File (if you specify **Use dest. from XML Job** in the GUI) OR Xsquare job (if you select a specific destination in the GUI)	From Xsquare template	Information from XML file used in priority
Job to File	Template to EVS Server	No merge	All parameters are taken over from the XML file job. Xsquare does not add anything.		
Job to EVS Server	Template to File (+ Use dest. from XML Job)	No merge	All parameters are taken over from the XML file job. Xsquare does not add anything.		
Job to File	Template to File (+ Use dest. from XML Job)	Merge	XML File (if you specify **Use dest. from XML Job** in the GUI) OR Xsquare job (if you select a specific destination in the GUI)	From Xsquare template	Information from XML file used in priority

Job Type in the XML File	Job Type in the Xsquare Template	Result	Description		
			Destination	Codec/Wrapper Format	Other Options
Job to EVS Server	Template to File (multidest.: 1st dest.)	No merge	All parameters are taken over from the XML file job. Xsquare does not add anything.		
	Template to File (multidest.: other dest.)	No merge	The job for the second destination is not created as XML file jobs handle a single destination.		
Job to File	Template to File (multidestination - 1st dest.)	Merge	XML File (if you specify **Use dest. from XML Job** in the GUI) OR Xsquare job (if you select a specific destination in the GUI)	From Xsquare template	Information from XML file used in priority
	Template to File (multidestination - other dest.)	Merge	Destination as specified in Xsquare GUI	From Xsquare template	From Xsquare GUI
Job to EVS Server	Template to EVS server (multidestination - 1st dest.)	Merge	XML File (if you specify **Use dest. from XML Job** in the GUI) OR Xsquare job (if you select a specific destination in the GUI)	From Xsquare template	Information from XML file used in priority
	Template to File (multidestination - other dest.)	Merge	Destination as specified in Xsquare GUI	From Xsquare template	From Xsquare GUI
Job to File	Template to EVS server (multidestination - 1st dest.)	No merge	All parameters are taken over from the XML file job. Xsquare does not add anything.		
	Template to File (multidestination - other dest.)	No merge	The second destination is created with the parameters from the Xsquare template, since the XML file jobs handle a single destination.		

2.3.3. Defining a ScanXML

Introduction

By adding a scanXML in Xsquare, the application will handle the XML file jobs by scanning the scanXML folder where XML job files are dropped, and applying Xsquare job definition, if requested.

For the ScanXML service to take scanXML jobs into account, you must start the ScanXML in Xsquare.

See section "ScanXML Window" on page 14 for additional information on the field values specified in this procedure.

Prerequisites

Before defining a scanXML, you must share the scanXML folder and the destination folder.

Procedure

To add a scanXML in Xsquare, proceed as follows:

1. Select **ScanXML** in the **Job Initiators** menu.
2. Click the **+** button at the bottom of the window to add a row for a new scanXML definition.
3. In the **ScanXML** field, do the following:
   a. Click  and select the folder to be scanned.

      This is the folder where the XML job files will be dropped.

   b. Enter the Windows login and password to access the computer where the scanXML folder is located.
4. If requested, modify the default **ScanXML Name**.
5. In the **Template** field, select the job template to be applied to the scanXML from the list.
   - If you do not want to modify the original job defined in the XML job file, select **No Template** from the list.
   - If the available templates do not meet your needs, you can create a new template based on an existing one by clicking the **Edit** button.

     See section "Creating a Customized Job Template" on page 51 for more information on creating a customized job template.
6. In the **Destination** field, do one of the following according to the selected job template:
   - If you do not want to change the original destination defined in the XML job file, keep **<Use dest. from XML Job>**.

- If the destination is a shared folder on the network, click the  button and select the computer where the shared folder is located.

  If you have not yet connected to that computer, you have to type the Windows user and password to gain access to the shared folders on that computer.
- If the destination is an EVS server, type one or both GigE address of the EVS server. It is recommended to click the  icon and specify the username, password to access the EVS server, as well as the requested location, that is page, bank, and first position.
- If the destination is an Avid Transfer Engine, specify the name of the Avid Transfer Engine.

7. In the **Bandwidth Throttling** field, you can limit, to real-time or a multiple of it, the maximum bandwidth allocated to the jobs based on this job initiator.
8. Do one of the following actions to save your definition:
   - To save the scanXML record, click the **Save** button displayed below the scanfolder definition.
   - To save and directly start the scanXML service, click the **Save and Start** button displayed below the scanXML definition.

The new scanXML is available in the list. The icons in the **scanXML** field turns green when the service is started for this scanfolder definition.

If the scanXML is not started (red icon), you can start it by clicking the red icon in the **scanXML** field.

2.4. Configuring ScanFolders

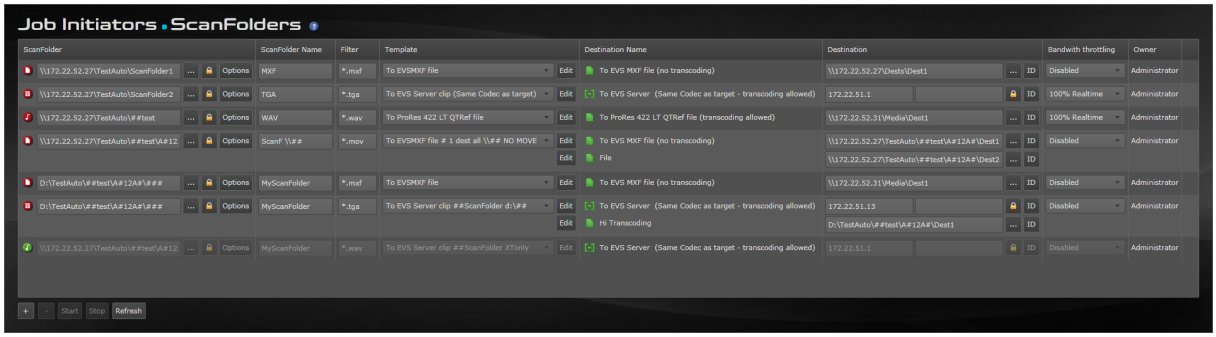
2.4.1. ScanFolder Window

General Description

The ScanFolder window makes it possible to define a job to be applied to files dropped in a given shared folder scanned by Xsquare.

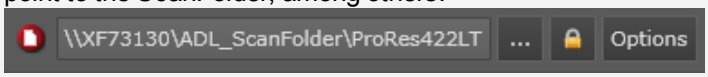
This folder is called a scanfolder, as well as the Xsquare service responsible for detecting the file to be processed, and creating the job.

On the ScanFolder window, each defined scanfolder is represented as a row in a table that contains a number of fields described below:



Field Description

The table below describes the fields in the ScanFolder window:

GUI Element	Use this element to ...
ScanFolder field	point to the ScanFolder, among others.  This field is made up of several elements, described below, from left to right: • **Icon:** icon identifying what type of source file is scanned, and whether the scanfolder is started (green icon) or not (red icon). The source file can be an A/V file / , an audio file / or a graphical sequence / . • **Path:** path to the scanfolder, and scanfolder name • ...: icon that allows users to select the scanfolder. • : icon that allows users to specify the Windows login and password to connect to the computer on which the scanfolder is located. • Options: icon that allows users to specify scanfolder options.
ScanFolder Name field	assign a nickname of the scanfolder. This does not have to be the same name as the folder name created in the Windows repository.
Filter field	specify the file extension(s) that has/have to be processed in the scanfolder.
Template field	associate a job template to the scanfolder definition. The Edit button allows users to open the displayed job template, and create a customized job template based on it.
Destination Name field	view the destination name. It is stored in the job template and is automatically filled in when you select the job template.

GUI Element	Use this element to ...
Destination field	specify the physical location where the processed material has to be stored. See section "Job Destination Parameters" on page 24 for more information on this field.
Bandwidth Throttling field	limit the maximum bandwidth allocated to a job to the bandwidth for a real-time processing, or a multiple of it. If the field value is set to **Disable**, XTAccess uses all the network bandwidth available and try to perform the job as fast as possible. By limiting the bandwidth for lower priority jobs (archiving jobs, for example), more bandwidth can be available for higher priority jobs. This field therefore makes it possible to better manage job priorities, and to smoothen the bursts in bandwidth use.
Owner field	view the user who has created the scanfolder. This is a non editable field, only available for users logged as administrators.
+ button (**Add** button)	add a scanfolder.
- button (**Remove** button)	remove the selected scanfolder.
Start button	start the ScanFolder service of Xsquare, that is to say start scanning the scanfolder, and executing the job when a file is detected in the scanfolder.
Stop button	stop the ScanFolder service of Xsquare.
Refresh button	refresh the window display.

2.4.2. Defining a ScanFolder

Introduction

Adding a scanfolder will allow you to define the job to be applied to files dropped in the scanfolder, that means a given shared folder scanned by the ScanFolder service of Xsquare.

For the ScanFolder service to take scanfolder jobs into account, you must start the associated scanfolder definition in Xsquare.

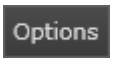
See section "ScanFolder Window" on page 20 for additional information on the field values specified in this procedure.

Prerequisites

Before adding a scanfolder, you must share the source scanfolder and the destination folder.

Procedure

To add a scanfolder in Xsquare, proceed as follows:

1. Select **ScanFolders** in the **Job Initiators** menu.
2. Click the **+** button at the bottom of the window to add a row for a new scanfolder.
3. In the **ScanFolder** field, do the following:
   a. Click  and select the folder to be scanned.
   b. Enter the Windows login and password to access the computer where the scanfolder is located.
   c. If requested, click  to specify scanfolder options.
4. If requested, modify:
   a. the default **ScanFolder Name**.
   b. the default extension of the files the scanfolder has to process specified in the **Filter** field.
5. In the **Template** field, select the job template to be applied to the scanfolder from the list.

   If the available templates do not meet your needs, you can create a new template based on an existing one by clicking the **Edit** button.

   See section "Creating a Customized Job Template" on page 51 for more information on creating a customized job template.
6. In the **Destination** field, do one of the following according to the selected job template:
   - If the destination is a shared folder on the network, click the  button and select the computer where the shared folder is located.

     If you have not yet connected to that computer, you have to type the Windows user and password to gain access to the shared folders on that computer.
   - If the destination is an EVS server, type one or both GigE address of the EVS server. It is recommended to click the  icon and specify the username, password to access the EVS server, as well as the requested location, that is page, bank, and first position.
   - If the destination is an Avid Transfer Engine, specify the name of the Avid Transfer Engine.

7. In the **Destination** field, click 

to specify whether or not new IDs have to be generated.
8. In the **Bandwidth Throttling** field, you can limit, to real-time or a multiple of it, the maximum bandwidth allocated to the jobs based on this job initiator.
9. Do one of the following actions to save your definition:
   - To save the scanfolder record, click the **Save** button displayed below the scanfolder definition.
   - To save and directly start the ScanFolder service, click the **Save and Start** button displayed below the scanfolder definition.

The new scanfolder is available in the list. The icons in the **ScanFolder** field turns green when the service is started for this scanfolder definition.

If the ScanFolder is not started (red icon), you can start it by clicking the red icon in the **ScanFolder** field.

2.5. Job Destinations

2.5.1. Job Destination Parameters

Introduction

When adding a job initiator, you select a job template that includes a job destination.

Three several types of job destinations are available: To EVS server, To File, To Avid, To Final Cut Pro, To Adobe Premiere, to Xedio. Depending on the selected job destination, you will be requested to define different destination parameters.

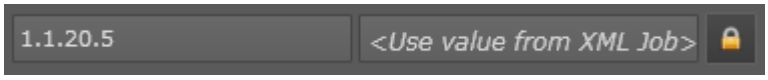
These parameters, displayed or available through an icon in the **Destination** column, are specific to the destination type, and largely common to all job initiators.

EVS Server Destination

Overview

The screenshots below show the Destination column with the parameters for an EVS server destination:

Target: 

ScanXML: 

ScanFolder: 

IP Addresses

In this field, specify the IP addresses of the one or both GigE ports of the EVS server.

In the scanXML job initiator, Xsquare will use the value from the XML job if you leave the field empty.

For the other job initiators, you have to provide at least one IP address.

Lock Icon 

Clicking this icon opens the EVS Server Authentication window.

In this window, the following fields are available:

- The username and password to access the EVS server.

  If the fields are left empty, it is assumed the default values for username and password are used on the EVS server.

- The storage location, that is the definition of how the clips should be stored on the EVS server.

  See section "Clip Location on an EVS Server" on page 26 for more information on how to specify the location rules in this field.

ID Icon 

In the ScanFolder window, clicking the ID icon opens the ID Mode window.

The ID mode allows users to specify whether new IDs have to be generated, or whether the old IDs will be taken over.

NEW ! Avid Destination

If the destination is an Avid ISIS storage system, specify the following information in the left and right fields:

- **Path (left):** Path to the folder where the destination file has to be stored on the ISIS storage system. This field is mandatory.
- **URI (right):** URI pointing to the workspace associated to this destination in Avid Interplay. This is useful when you use several workspaces in the AVID Interplay database.

  By default, the URI is taken over from the template definition, destination section, **To NLE** option, **Interplay URI** field.

  However, if you specify the URI in the **URI** field in the job definition itself, this has priority over the URI specified in the **Interplay URI** field in the template definition.

File and Other Destinations

When the destination is a file, you have to specify the file location by clicking the  icon and selecting the computer and shared folder where the generated files have to be stored.

If you have not yet accessed the computer from Xsquare before, you have to enter the Windows login and password to have visibility on the shared folders.

In the path, you can also specify variables to be used to generate a new destination folder and name it:

- %HOSTNAME
- %BYEAR
- %BMONTH
- %BWEEK
- %BDAY

2.5.2. Clip Location on an EVS Server

Introduction

When the destination is an EVS server, you can specify which location (page, bank, position, camera) will be used to store the generated clips on the EVS server. You specify this in the **Location** field available by clicking the **Lock** icon in the **Destination** column of the job initiator window.

The following table explains how the application will assign the location based on the value specified in the **Location** field.

Basic Rules

The following basic rules are applied:

- If the **Location** field is empty, the default value `111?` is applied:

  This means the application uses the first free location starting from clip number 111, checking all cameras of a clip (interrogation mark) before trying the next clip number.

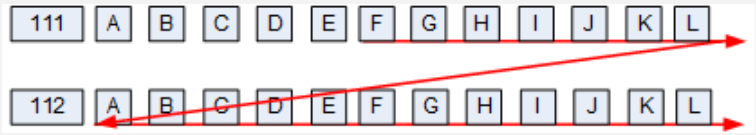
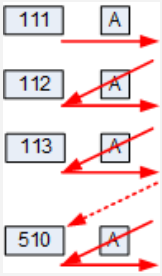
- Instead of specifying the first clip location, you can specify one or more pages between square brackets, for example `[1;2]?`:

  This means the application will first search and fill locations on page 1, then 2 (all camera positions on these pages). It will then search for available locations on other pages starting with from the lowest page number.

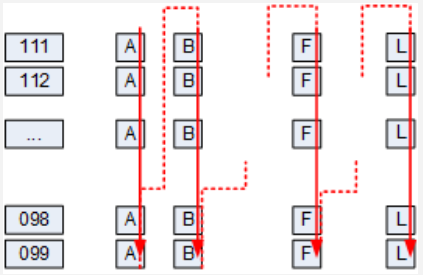
- After the page reference, you can specify a filter on cameras instead of the interrogation mark, for example `[1;2]A`: This means only the locations on the specified CAM (CAM A) will be searched for and filled in. When the locations on the specified CAMs are all used on all pages, the job will fail and the application will return an error message.

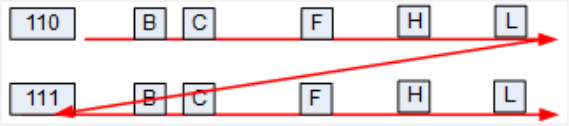
Detailed Rules

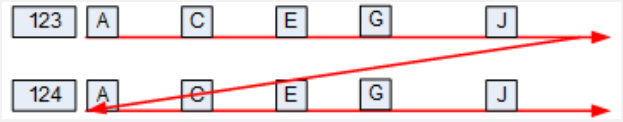
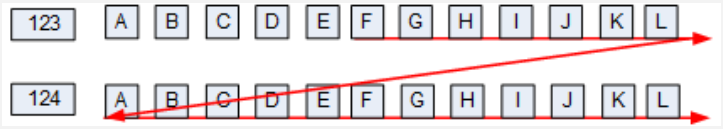
The values based on the patterns explained below can be defined in the **Location** field:

Parameter Value	Behavior
Null or empty	The application uses the first free location from clip number 111 to 099, by iterating on all cams for each clip number. 111A-111B- … -111L 112A-112B- … -112L 113A-113B- … -113L … 999A-999B- … -999L 010A-010B- … -010L … 099A-099B- … -099L 
[1;5;0]A	The application uses the CAM A free locations, first on page 1, 5, and then 0: 111A- … -199A 510A- … -599A 010A- … -099A  When the CAM A locations on these three pages are full, the application searches the other CAM A free locations in the other pages starting on page after 0 (page 2, since 0 and 1 are full in this case).

Parameter Value	Behavior

[1;5;0]? or [1;5;0][ABCDEFGHIJKL]	The application uses first the CAM A free locations, on page 1, 5, and then 0.
	Then it searches for the CAM B free locations on page 1, 5 and then 0, and so on for all CAMs:
	CAM A on page 1:
	`111A-112A- … -190A -191A-… -198A-199A`
	Then on page 5:
	`510A-512A- … -590A -591A-…-598A-599A`
	Then on page 0:
	`010A-012A- … -090A -091A-…-098A-099A`
	then CAM B on page 1:
	`110B-111B-112B- … -190B-191B-…-198B-199B`,
	and so on.
	 
	When the locations on these three pages are full, the application searches the other free CAM A locations on another page starting on page after 0 (page 2, since 1 is full in this case), then CAM B locations, C, D, … , then next page starting with CAM A.

[1;5;0][BCFHL]	The application uses the first free locations on page 1, for CAM B, C, F, H and L. Then it uses the free locations on page 5 for the CAM B, C,F, H and L, and finally the same on page 0: Page 1, CAM B, C, F, H and L: `110B-110C-110F-110H-110L … -199B-199C-199F-199H -199L` Then on page 5, CAM B, C, F, H and L: `510B-510C-510F-510H-510L … -599B-599C-599F-599H-599L …` Then on page 0: `010B-010C-010F-010H-010L … -099B-099C-099F-099H-099L`  When locations CAM B, C, F, H and L on pages 1, 5 and 0 are full, it searches first for free locations starting on page after page 0 (page 2, since 1 is full in this case) with CAM filter B,C, F, H and L.
123A	The application uses the 123A location only. If the LSMID is not free, the job will return the following error `'Clip already exists on XT'`.

Parameter Value	Behavior
123[ACEGJ]	The application uses the first free location starting from clip number 123, with a filter on CAM A,C,E,G and J only: 123A-123C-123E-123G-123J … 124A-124C-124E-124G-124J … 999A-999B-999C-999G-999J … 010A-010C-010E-010G-010J … 099A-099C-099E-099G-099J … 122A-122C-122E-122G-122J 
123? or 123[ABCDEF]	The application uses the first free location starting from clip number 123, checking all cameras of a clip before trying next clip number: 123A-123B-…-123F…-123L… 124A-124B-…-124F…-124L… 999A-999B-…-999F…-999L… 010A-010B-…-010F…-010L … 099A-099B-…-099F-099FL 

3. Configuration

3.1. Orchestration

3.1.1. Introduction

Before working with an Xsquare application, the administrator has to associate the requested engines (XTAccess) to the specific Xsquare application. This association is performed in the Association tool, a dedicated application you can install with the Xsquare Suite setup package.

Once Xsquare is associated to a number of engines, it will send the jobs, by default, to the associated engine that is the most available on the network.

You can however organize the engines in groups called 'clusters'. This allows Xsquare to dedicate a cluster to a specific job type, and force the engines associated to the given cluster to execute that cluster job type only. The cluster definition must be based on the network topology or on live-oriented jobs.

The goal could be:

- to isolate specific important jobs (for example: backup of train) to specific engines, mainly in live or near-live productions when jobs have to be processed in real-time.
- to send jobs to the only engines that can reach a destination (network topology aspect).

3.1.2. Orchestration Rules

You should keep in mind the following rules when you define the engine orchestration:

- You can assign an XTAccess to more than one cluster if you want this XTAccess application to take in charge two different job types.
- Xsquare will send transcoding jobs only to the XTAccess that have transcoding licenses. It is therefore not possible to specify a maximum number of transcoding jobs for an XTAccess that does not have a transcoding license.
- Xsquare will preferably send jobs to the XTAccess installed on the same computer as the destination or the source.
- Xsquare takes only the first destination into account to choose the cluster that will handle a job. In case of multidestinations, the other destinations are not taken into account for the cluster selection.
- Xsquare will use the first cluster (highest position in the list of Cluster area) that is configured to handle the job.
- Xsquare will never send jobs to one XTAccess which cannot process the job. If no XTAccess is available, Xsquare will schedule the job in its database and will wait for the first available XTAccess.

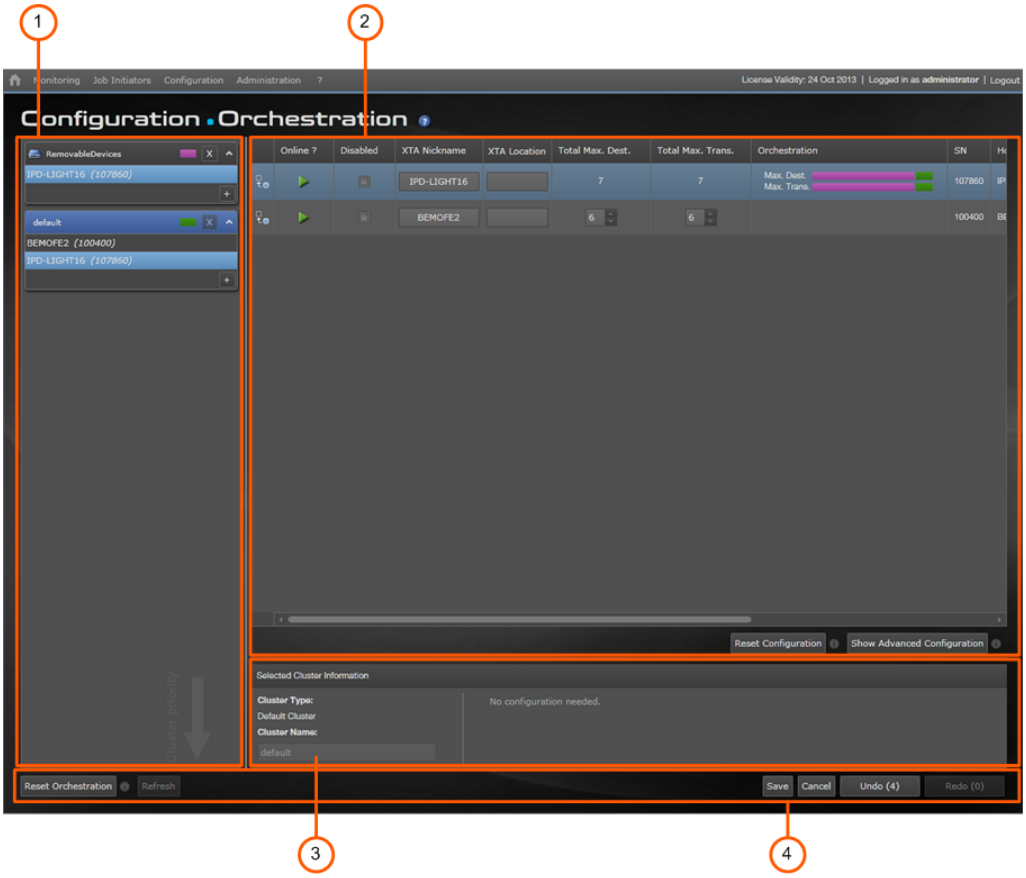
3.1.3. Orchestration Window

Introduction

Once engines have been associated to an Xsquare application, they can be configured and organized in clusters of engines that will be dedicated to specific job types. This cluster organization is defined in the Orchestration window.

Note
The Xsquare and engine orchestration can be modified live, while jobs are being processed, without requiring any engine or Xsquare reboot.
The changes in the orchestration will be applied to all future jobs, but also to jobs in the queue.

The Orchestration window contains the areas highlighted on the screenshot below:



Area Description

The table below describes the various parts of the Orchestration window:

Part	Name	Description
1.	Cluster area	Area displaying the defined clusters. You can add new clusters from there. See section "Cluster Area" on page 33 and "Managing Engine Clusters" on page 41.
2.	Engine area	Area displaying metadata on all engines associated to Xsquare. See section "Engine Area" on page 36 and "Configuring Engines" on page 43.
3.	Selected Cluster Information area	Area displaying detailed information on the engine selected in the Engine area. See section "Selected Cluster Information Area" on page 38.
4.	Action buttons	Buttons allowing users to save/cancel, undo/redo actions performed in the Orchestration window. You will find a short description of each button in the table below.

General Action Buttons

Button	Description
Reset Orchestration	Resets the orchestration configuration to the default values (single default cluster, no engine configuration).
Refresh	Refreshes the Orchestration window.
Save	Saves the actions performed in the Orchestration window.
Cancel	Cancels all actions performed in the Orchestration window since the save or since you opened the window.
Undo (1)	Allows to undo, one by one, the actions stored in the undo buffer. The number of actions in the buffer is specified between brackets.
Redo (1)	Allows to redo, one by one, the actions stored in the redo buffer. The number of actions in the buffer is specified between brackets.

Working Process

In the Orchestration window, you will usually work in the following order:

1. Creating the required clusters in the Cluster area. See section "Managing Engine Clusters" on page 41.
2. Specifying the cluster settings whenever required or requested in the Selected Cluster Information area. See section "Selected Cluster Information Area" on page 38.
3. Setting the engine orchestration parameters and others in the Engine area. See section "Configuring Engines" on page 43.
4. Save the whole orchestration configuration.

3.1.4. Cluster Area

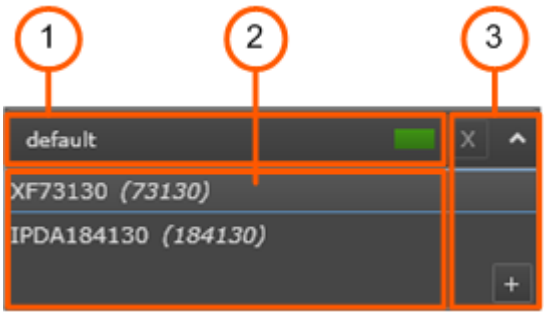
Introduction

The Cluster area in the Orchestration window shows the engine clusters defined in Xsquare, and the engines associated to each cluster.

The cluster position in the list determines the cluster priority in handling a specific job type: if the same job type is distributed between two clusters, the cluster positioned higher in the list will handle the shared job type in priority.

You manage the clusters from the Cluster area of the Orchestration window. See section "Managing Engine Clusters" on page 41 for more information on managing clusters.

The following illustration presents a single cluster box, not the whole cluster area that can consists of several cluster boxes, depending on the number of clusters defined.



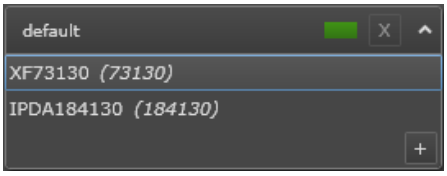
Field Description

The table below describes the various fields of the Cluster box:

Part	Name	Description
1.	Cluster name	Name of the cluster, and associated color. At installation, all engines associated to Xsquare are included in the default cluster which processes all job types.
2.	Engine names	Names of the associated engines. The name is made of the nickname assigned in the Engine List area, and the hardware serial number.
3.	Command buttons	
		Button to remove a cluster. You cannot remove the default cluster.
		Button to collapse the cluster box (display the cluster name only) or expand the cluster box (display the associated engines).
		Button to add a cluster. See section "Cluster Types" on page 34 for the list of cluster types.

3.1.5. Cluster Types

In the Cluster area of the Orchestration window, the list of available cluster types is displayed when you right-click the  icon in a Cluster box to add a cluster:



The table below describes the available cluster types, the jobs that each cluster will process, and the parameters you need to specify in the Selected Cluster Information area:

Cluster Name	Description	Needed Parameters
Ingest from EVS Server	The cluster engines will process the backup of trains triggered by the IPDirector Ingest Scheduler. This cluster will not handle usual train backups.	IP addresses of one/several source EVS server(s). Failing the IP address (es), all ingest jobs are routed to this cluster.
To EVS Server	The cluster engines will process jobs having an EVS server as first destination, including playlist rendering to an EVS server.	IP addresses of one/several destination EVS server(s). Failing the IP address (es), all jobs to EVS servers are routed to this cluster.
From EVS Server	The cluster engines will process jobs whose source material consists of clips or playlists from one or more specified EVS server(s).	IP addresses of the source EVS server(s). Failing the IP address (es), all jobs on clips of EVS servers are routed to this cluster.
From Folder	The cluster engines will process jobs using a source file located in one or more folders specified in the Selected Cluster Information area. This cluster will not handle jobs from an EVS server.	List of source folders
To Folder	The cluster engines will process the jobs having as first destination the folder(s) specified in the Selected Cluster Information area.	List of destination folders
Transfer to Avid Web Services	The cluster engines will process the jobs for which the referencing in the Avid Web Service is the first destination.	No parameter
Transfer to Avid TM	The cluster engines will process the jobs for which the referencing in the Avid TM is the first destination.	Name of the Avid Transfer Manager
Transfer to Final Cut Pro	The cluster engines will process the jobs for which the referencing in Final Cut Pro is the first destination.	No parameter
Transfer to Adobe	The cluster engines will process the jobs for which the referencing in Adobe Premiere is the first destination.	No Parameter
Transfer to Xedio	The cluster engines will process the jobs for which the referencing in Xedio is the first destination.	No parameter
EVS EDL	The cluster engines will process the jobs whose first destination requires the creation of an EVS EDL file.	No parameter

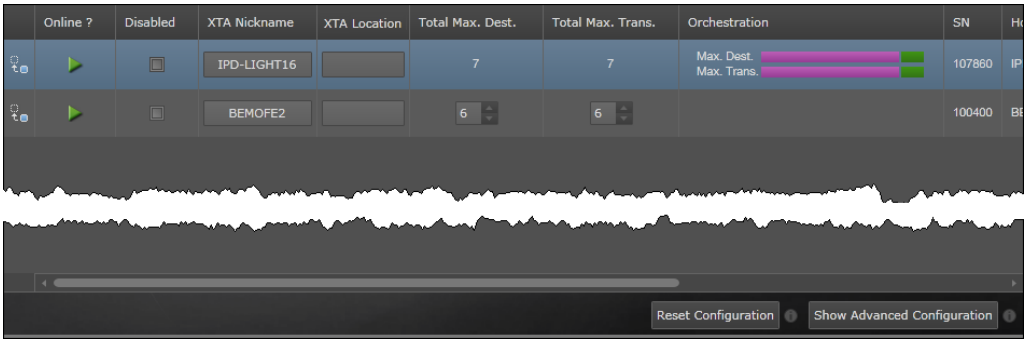
Cluster Name	Description	Needed Parameters
Playlist Rendering	The cluster engines will process the jobs of rendering a playlist EDL into a consolidated file and/or clip (in an EVS server). **Warning** When you assign an engine to this cluster, you need to make sure the associated engines have the Xsecure transcoding license, as not check is performed in the engine assignment.	No parameter
Playlist Export	The cluster engines will process the jobs that back up all playlist elements (EDL) into a list of files. With such a job, the engine will create child jobs internally.	No parameter
Removable Devices	The engines of the Removable Device cluster will process jobs having, a source or first destination, which is a lower performing storage (such as IPDrives Disks or USB keys) located on their local computer. Consequently, you should add to this cluster all engines installed on computers connected to a removable device being the source or first destination of XTAccess jobs. This cluster will always be at the top of the cluster list.	No parameter
Grab	The cluster engines will process the grab jobs.	No parameter

3.1.6. Engine Area

Introduction

The Engine area in the Orchestration window shows all engines (XTAccess) associated to Xsquare, as well as their configuration parameters.

You configure the XTAccess applications from this area. The XTAccess configuration is saved in the Xsquare database. Each time the configuration of an XTAccess is modified, the change is pushed to the engine, without requiring an engine reboot.



Field Description

The table below describes the various fields and buttons of the Engine area:

Name	Description
Online	Icon showing the engine (XTAccess) connection status:  when the engine is online  when the engine is offline  when the engine is online, but disabled.  when the engine is offline and disabled.
Disabled	Check box you can select to disable an engine, that is to say to prevent the engine from handling future jobs. The ongoing jobs are fully processed, then the queued or future jobs will be handled when the engine will be set online again.
XTA Nickname	Name assigned in Xsquare to the XTAccess engine. This a free-text field. When you modify the name in this field, it is automatically adapted in Xsquare user interface.
XTA Location	Description of the physical location of the XTAccess hardware. This a free-text field.
Total Max. Dest.	Maximum number of destinations the XTAccess engine can handle (transcoding jobs included). The field is read-only, and the value is assigned via the Orchestration field. Bear in mind that a job can contain several destinations.
Total Max. Trans.	Maximum number of destinations the XTAccess engine can transcode. The field is read-only, and the value is assigned via the **Orchestration** field.
Orchestration	Field from which you can specify the maximum number of destinations and transcoding jobs the XTAccess can handled in each cluster it belongs to. When you click the field, you access a dialog box where you can define the **Max. Dest.** and **Max. Trans.** parameters depending on the cluster.
SN	XTAccess serial number (non editable).
Hostname	Name of the host computer on which XTAccess is installed.
IP Address	IP address(es) of the host computer (non editable).
XTAccess Version	XTAccess version number (non editable).
Transcoding License	XSecure license associated to XTAccess, and expiration date (non editable). It specifies if no XSecure license is associated.
Reset Configuration button	Button used to reset the configuration of the selected engine.

Advanced Configuration

When you click the **Show Advanced Configuration** buton, advanced parameters are displayed. Please contact the EVS support before using them.

Name	Description
Vedio Group	**Group the XTAccess engine belongs to in the Vedio application. You can specify a group.**
EDL Sub Jobs	Maximum number of child jobs XTAccess can handle simultaneously during a backup EDL + Clips.
File Reader No Buffering	Option to increase the performance when XTAccess writes on a non Windows storage.
Filename Encoding Mode	Option to increase the performance when XTAccess reads a non Windows storage.
QT Ref Optimization	Option which forces all QTRef files to be seen as growing files by XTAccess.
AMT buffer size	Parameter that allows the configuration of the Avid AMT library used to write XDCAM OPATOM files. Contact the Avid Support team for more information.
AMT read buffer size	Parameter that allows the configuration of the Avid AMT library used to write XDCAM OPATOM files. Contact the Avid Support team for more information.

3.1.7. Selected Cluster Information Area

General Description

The Selected Cluster Information area in the Orchestration window shows information on the cluster selected in the Cluster area.

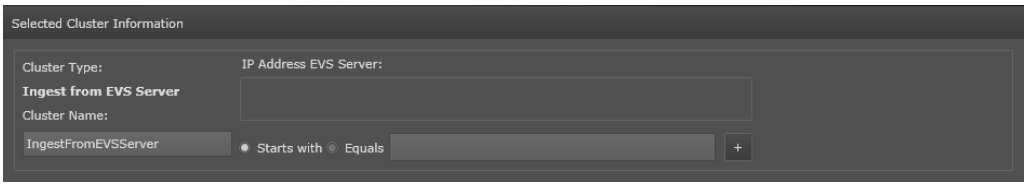
It also allows the users to specify some parameters to specify parameters Xsquare should take into account to know which jobs the engine should handle or not.

Illustration

The Selected Cluster Information area will be slightly different depending on the cluster type.

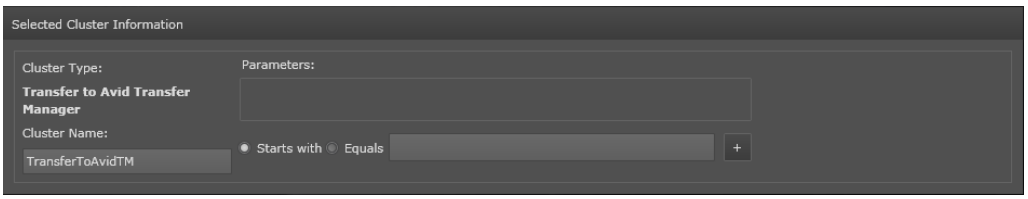
The following illustrations cover the various Selected Cluster Information areas you can encounter even if it does not present all of them:

The Cluster Information area for **Ingest from EVS Server**, **From EVS Server** and **To EVS Server** clusters is similar to the following screenshot:

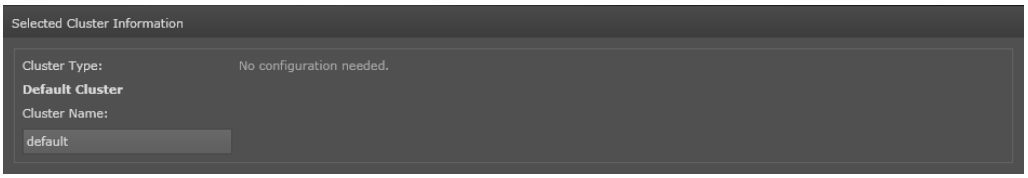


The Cluster Information area for **From Folder** and **To Folder** clusters is similar to the following screenshot:

The Cluster Information area for **Transfer to Avid TM** is as follows:



The Cluster Information area for other clusters is similar to the following screenshot. No additional parameter needs to be defined:



Field Description

The table hereafter describes the fields in the Selected Cluster Information area:

Field	Description	Available in cluster type
Cluster Type	Type of EVS cluster. This is the name of the cluster type you have selected. It cannot be modified.	All
Cluster Name	Name of the EVS cluster. This is the name you can assign to the cluster. By default, the name is the same as the cluster type (or an abbreviated form).	All
IP address EVS Server	GigE IP address of the EVS server(s) to be taken into account by the given cluster (optional): • In an **Ingest From EVS Server** cluster, only record trains of the specified EVS server(s) will be backed up by the cluster. • In a **From EVS Server** cluster, only the clips stored on the specified EVS server(s) will be processed by the cluster. • In a **To EVS Server** cluster, only the jobs whose first destination is one of the EVS server (s) specified will be processed by the cluster. If no IP address is defined, the cluster will process all jobs having an EVS server as source or destination.	Ingest From EVS Server, From EVS Server, To EVS Server
Destination Folders	Path to the folder(s) to be taken into account by the given cluster (compulsory): • In a **From Folder** cluster, only source files located in the specified folders will be processed by the cluster. • In a **To Folder** cluster, only the jobs whose first destination is one of the specified folders will be processed by the cluster.	From Folder, To Folder
Parameters	In an **Transfer to Avid TM** cluster, only the jobs to be sent to the Avid TM specified will be processed by the cluster.	Transfer to Avid TM

3.1.8. Managing Engine Clusters

Introduction

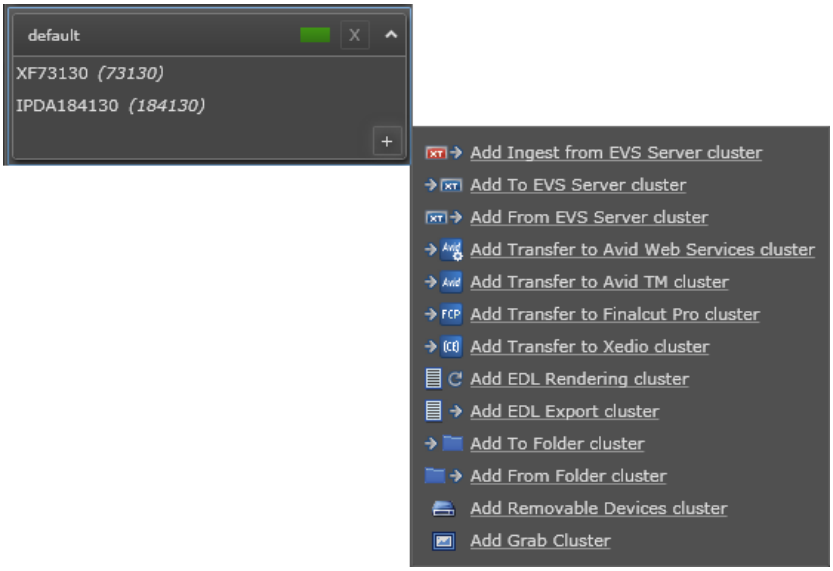
From the Cluster area of the Orchestration window, you can perform the following actions:

- add or remove clusters dedicated to a specific job type
- associate engines to a cluster, or remove the association.
- define the cluster priority in handling jobs.

Note
When you add a cluster, bear in mind that the cluster position determines the cluster priority in handling a job type. In other words, if two clusters both handle the same job type, the cluster located higher in the list will handle that job type in priority. You can always change a cluster position in the cluster list.

How to Add a Cluster

1. Click the + button in the cluster box located below the position where you want to insert a new cluster.
2. Select the requested cluster from the list displayed:



The new cluster is added above the cluster box where you have clicked the + button.

How to Remove a Cluster

- Click the X button next to the cluster name you want to remove.

The cluster is removed, and the orchestration configuration of the engines associated to this cluster is updated accordingly.

How to Add an Engine to a Cluster

You can assign an engine to several clusters, and several engines to the same cluster.

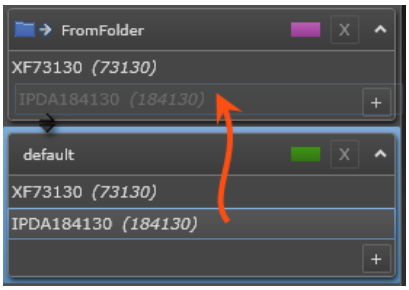
- Drag the engine from the Engine area and drop it into the requested cluster in the Cluster area:

If the engine assigned to a cluster is already assigned to another cluster, the engine will not be removed from the originally assigned cluster. The workload on this engine will be spread among two clusters, and you have to define this in the Orchestration field in the Engine area (See section "Configuring Engines" on page 43).

How to Move an Engine from a Cluster to Another Cluster

You can remove an engine from a cluster and assign it to another cluster as follows:

- Drag the engine from the cluster it should be removed from and drop it to the cluster it should be added to:

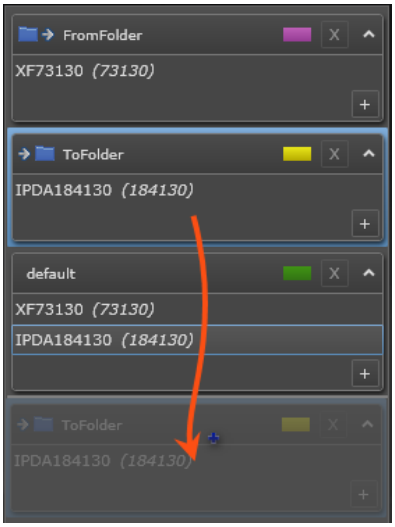


How to Remove an Engine from a Cluster

- Drag the engine from the Cluster box and drop it into the Engine area:

How to Change the Cluster Priority in the Job Processing

- Drag the cluster to a higher or lower position in the cluster list and drop it at the requested position when you see a blue + arrow:



3.1.9. Configuring Engines

Introduction

From the Engine area in the Orchestration window, you can set several parameters for each XTAccess associated to Xsquare.

The main configuration task consists in defining the orchestration settings for your XTAccess, that is the maximum number of destinations and transcoding jobs the XTAccess will be able to handle.

In addition, more advanced parameters can be set in Xsquare when you display the advanced settings.

Some other parameters have to be set in the XTAccess application on the host computer (Max. Log Size in MB, IP Retry, IP Retry Timeout, Enable Retry, MinFieldsToWriteBeforeRefinCEDB, EDL File extension).

See also "Engine Area" on page 36 for a description of the fields available in the Engine area.

How to Disable an XTAccess

Select the check box in the **Disabled** field for the requested XTAccess.

How to Define the Engine Orchestration

This means you defined the maximum destinations + the maximum destinations with transcoding the XTAccess can handle in each cluster it belongs to.

1. Click the **Orchestration** field.

   A dialog box similar to the following one is displayed:

2. In this window, type the maximum destinations and maximum destinations with transcoding the XTAccess can handle in each cluster it belongs to.
3. Click **OK**.

The values in the Max. Dest. and Max.Trans. fields are adapted according to the entered values.

How to Assign a Nickname to the XTAccess

Type the nickname for the XTAccess in the **Nickname** field of the requested XTAccess.

3.2. Job Templates and Encoder Profiles

3.2.1. Job Template & Encoder Profile Windows

General Description

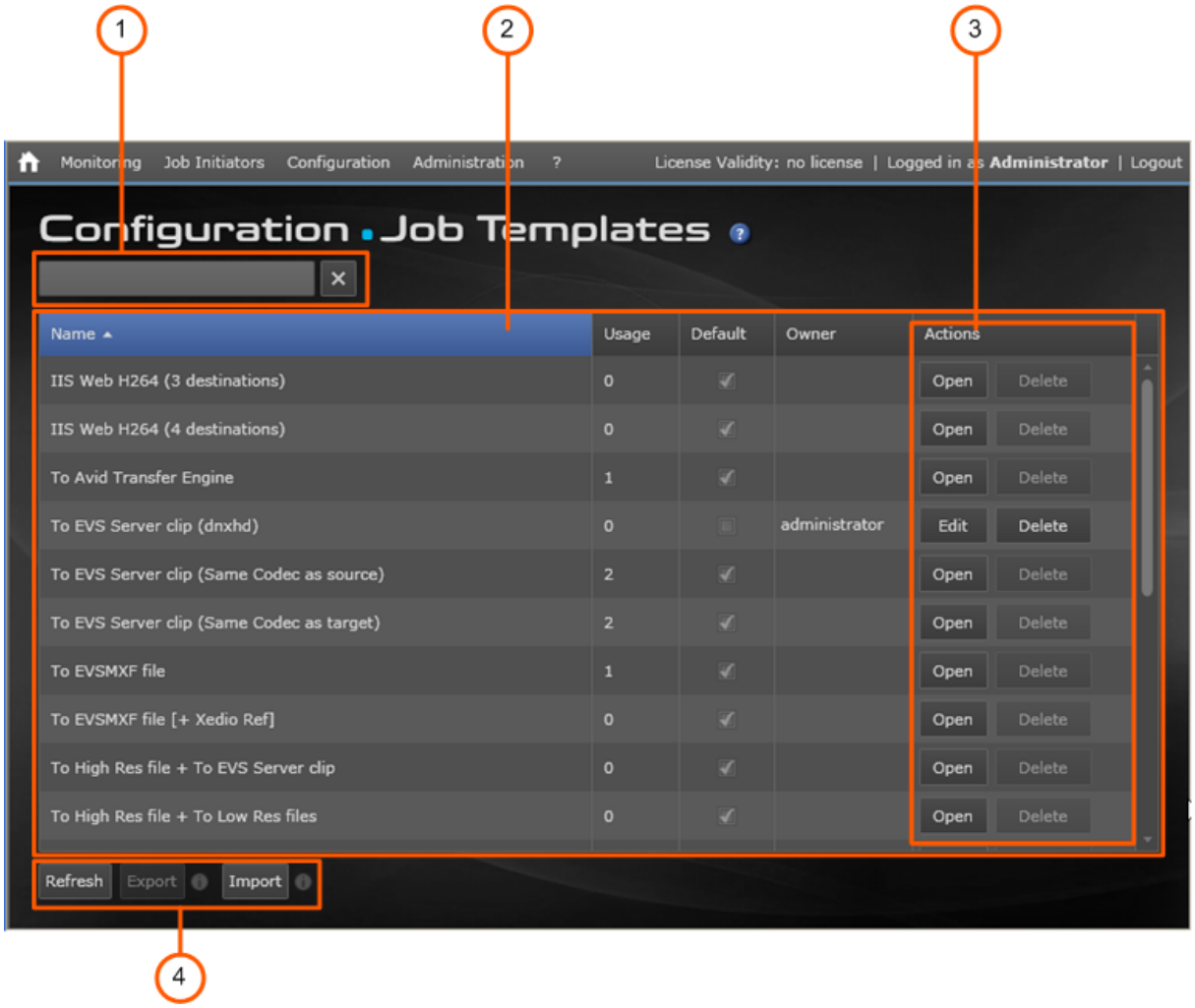
The Job Template window and Encoder/Wrapper Profile window are used to manage the job templates and encoder/wrapper profiles, mainly to perform the following actions:

- Creating, editing or deleting a customized job template or encoder/wrapper profile
- Importing or exporting a job template or encoder/wrapper profile definition to an XML file

From the Job Template window, you can access the Job Definition windows of all job templates.

From the Encoder / Wrapper Profile window, you can access the Encoder Profile windows of all encoder or wrapper profiles.

The following screenshot presents the Job Templates window. As the Encoder/Wrapper Profile window is designed in the same way, it is not illustrated below. The window parts and buttons described below are applicable to both windows:



Filter Area (1)

The Filters area makes it possible to filter the list of job templates or encoder/wrapper profiles based on their name. The grid is automatically refreshed to display only the items whose name includes the string specified in the **Filter** area.

See section "Filtering and Sorting Grid Items" on page 47

Items Grid (2)

The Items grid (Job grid or Encoder/Wrapper grid) provide information on the job templates and encoder/wrapper profiles.

It also allows users to sort the grid items, and perform individual actions on the grid templates or profiles.

See section "Fields in the Job Template and Encoder Profile Grids" on page 48.

Action Buttons (3) (4)

The individual action buttons (3) correspond to actions that can only be executed on each item separately. Such buttons are available for each row in the item grid.

The collective action buttons (4) correspond to actions that can not directly be executed on an item from the list, or that can be executed on one or more selected items. Such buttons are available below the grid.

See section "Managing Job Templates and Encoder Profiles" on page 50.

3.2.2. Filtering and Sorting Grid Items

Introduction

You can filter and sort the items in grids. This explanation is valid for all grids above which a filter field is displayed. This is the case, for example, with the Job Template window, Encoder/Wrapper Profile window, as well as the Roles window and Groups window.

How to Apply a Filter to a Grid

To search for grid items containing a character string, type the string in the filtering field.

The grid items are automatically filtered, and only the items that contain the requested string are displayed.

How to Clear a Filter Applied to a Grid

To clear the search filter applied to a grid, click the cross next to the search field.

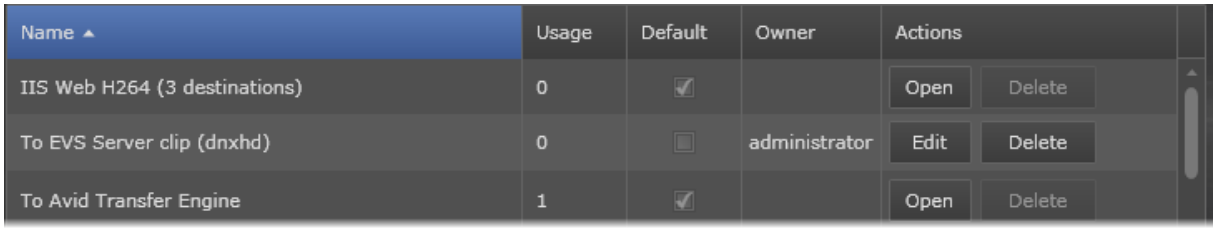
How to Sort Grid Items

To sort the grid items, in ascending or descending order, based on the values of one field, simply click the field header.

A small arrow is then displayed next to the field header, showing the sorting order. The grid can only be sorted on one field header at a time.

3.2.3. Fields in the Job Template and Encoder Profile Grids

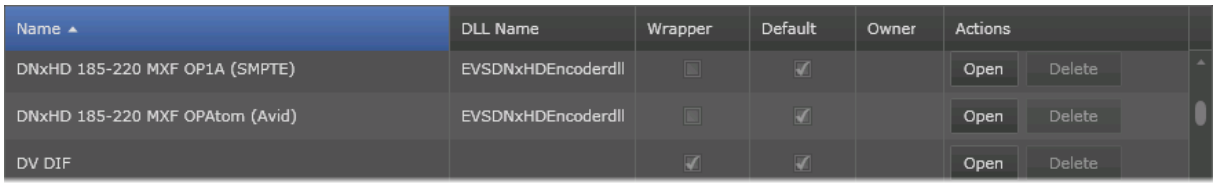
Job Template Grid



The table below describes the fields in the Job Template grid:

Field Name	Description
Name	Name of the job template
Usage	Number of job definitions the job template is used in
Default	Check box to specify whether the job template is predefined (selected check box) or customized (cleared check box)
Owner	User who created the job template. No owner is specified for predefined templates. The value is automatically filled in with the login of the user who creates a customized job template.
Actions	Actions that can only be performed on each grid item separately.

Encoder/Wrapper Profile Grid



The table below describes the fields in the Job Template grid:

Field Name	Description
Name	Name of the encoder or wrapper profile.
DLL Name	Name of the DLL that contains the encoder definition. This is not a relevant field for wrapper.
Wrapper	Check box to identify wrappers. The check box is only selected for wrappers.

Field Name	Description
Default	Check box to specify whether the job template is predefined (selected check box) or customized (cleared check box)
Owner	User who created the job template. No owner is specified for predefined templates. The value is automatically filled in with the login of the user who creates a customized job template.
Actions	Actions that can only be performed on each grid item separately.

3.2.4. Types of Job Templates

The job templates specify a job process and a destination. When you create a scanXML, scanfolder or target, you need to select a predefined template or create a custom template.

Several job templates are available in Xsquare, whatever the job initiator. For each job initiator, predefined templates are available in Xsquare. They are grouped in five categories:

Job Templates	Description
Without Transcoding	The job definition does not include a transcoding action. This kind of job template includes templates to EVS servers, or to files
With Transcoding	The job definition includes a transcoding action. This kind of job template includes templates to EVS servers, or to files.
MultiDestination	The source material is processed for and sent to several destinations. Destinations to EVS servers and files can be combined in such templates.
To Avid Transfer Engine	The source material is made available to be processed by the Avid Transfer Manager.
Custom	If the available templates do not match your needs, you can create a new job template based on a predefined one. Once created, the customized job templates are available in the **Custom** category.

3.2.5. Managing Job Templates and Encoder Profiles

The job templates and encoder/wrapper profiles are managed respectively from the Job Template window, and the Encoder/Wrapper Profile window.

The actions described in the table below are available in these windows:

Button	Description
Open	Opens the definition of the job template or encoder/wrapper profile of the corresponding row. This button is available for predefined templates or profiles. From the template or profile definition window, the user can then save the parameters of the predefined template or profile as a new one that can then be customized.
Edit	Opens the definition of the job template or encoder/wrapper profile of the corresponding row. This button is available for customized templates or profiles that can directly be modified. See section "Creating a Customized Job Template" on page 51 for more information on editing and customizing Job Templates.
Delete	Deletes the job template or encoder/wrapper profile of the corresponding row. This is only available for customized templates or profiles.
Refresh	Refreshes the window display.
Export	Exports the selected job templates or encoder/wrapper profiles into an XML definition file. It can then be imported into another Xsquare.
Import	Imports an XML definition file for job templates or encoder/wrapper profiles into Xsquare. Encoder or wrapper profiles can be imported when the profile definition file: • complies with the XML syntax rules AND • is validated by Xsquare If the profile definition file is not valid in Xsquare, this is specified between brackets next to the profile definition, and the profile definition is only available in XML format from when you open it.

3.2.6. Creating a Customized Job Template

Introduction

You cannot create a job template from scratch, but you can create a new job template based on the definition of a predefined job template that is close to what you request.

You can create a customized job template from:

- the job initiators windows (targets, scanfolder or scanXML) available from the **Job Initiators** menu;
- the Job Templates window available from the **Configuration** menu.

Requirements

When you customize a job template, you need to make sure that at least the following elements are included in the template:

- At least one destination is defined;
- An encoder or wrapper profile is a associated to the defined destination(s);
- When Xsquare interacts with an EVS server running a multi-essence configuration, you need to specify which source will be taken into account on the EVS server.

  See section "Configuring the Source Selection on the EVS Server" on page 56

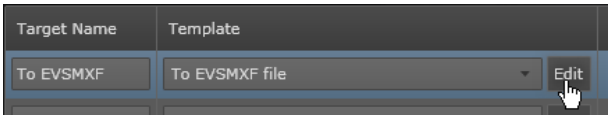
Process

Creating a customized job template encompasses the following steps, some of which are compulsory:

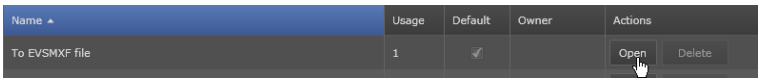
Step	Compulsory
How to Create a New Job Template Based on an Existing One	Yes
How to Add a Destination	Yes (minimum one dest. required)
How to Remove a Destination	No
How to Modify Settings Related to the Sources	No
How to Modify Settings Related to the Destination(s)	No

How to Create a New Job Template Based on an Existing One

1. Open the job template that is close to the requested customization in one of the following ways:
   - From one of the Job Initiators window, click an **Edit** button in the **Template** column of the requested job initiator definition:

   - From the Job Templates window, click the **Open** button in the **Action** column of the requested template:

   The Job Template window opens.
2. Click **Save As**.
3. Type a name for your new job template.
4. Click **OK**.

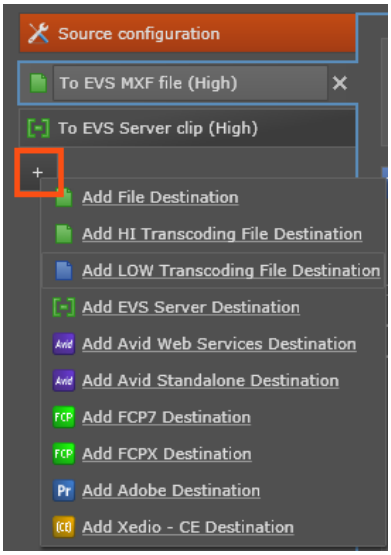
The new job template appears in the list of job templates in the Job Template window, and is available in the **Template** drop-down field in the job initiators windows.

Once you have created the template, you can open it back and refine the configuration to meet your needs.

How to Add a Destination

To add a destination, proceed as follows:

1. From the Job Templates window, click the **Edit** button for the job template you want to add a destination to.
2. Click + on the left pane and select a destination type from the list that appears:

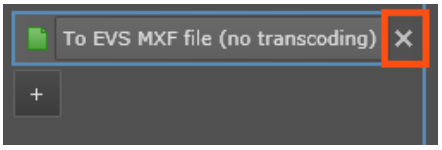


   The new destination is selected in the left pane (surrounded by a blue line), and the related settings are displayed on the right pane.
3. On the right pane, select the codec/wrapper profile on which the destination is based in the **Encoder / Wrapper Profile** field:

4. Click **Save**.

How to Remove a Destination

1. From the Job Templates window, click the **Edit** button for the job template you have previously created.
2. Click the cross sign next to the destination you want to remove:



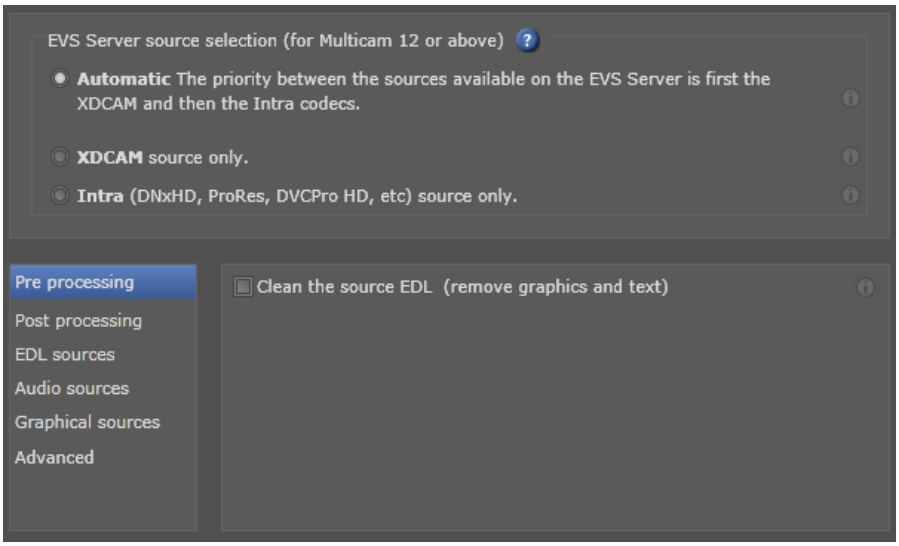
3. Click **Yes** to confirm you want to delete the destination.
4. Click **Save**.

How to Modify Settings Related to the Source

1. From the Job Templates window, click the **Edit** button for the job template you have previously created.
2. Click **Source Configuration** on the top left part of the window 

.

The source-related settings are displayed on the Source pane on the right:



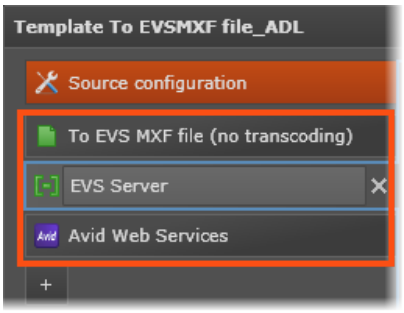
If you want to ...	Refer to ...
specify how to select the source clips on the EVS server in a multi-essence configuration	"Configuring the Source Selection on the EVS Server" on page 56
clean the EDL sources	"How to Clean the EDL Source" on page 58
delete the source file	"How to Delete the Source File" on page 58
specify how to process the media associated to EDLs	"How to Process the Media Associated to EDLs" on page 59
associate pictures to audio sources	"How to Specify Pictures to be Associated to Audio Sources" on page 59
specify how to handle graphics or picture sequences	"How to Handle A Graphical Sequence or Single Picture" on page 59
set more advanced options	"How to Set More Advanced Options" on page 60

3. Click **Save**.

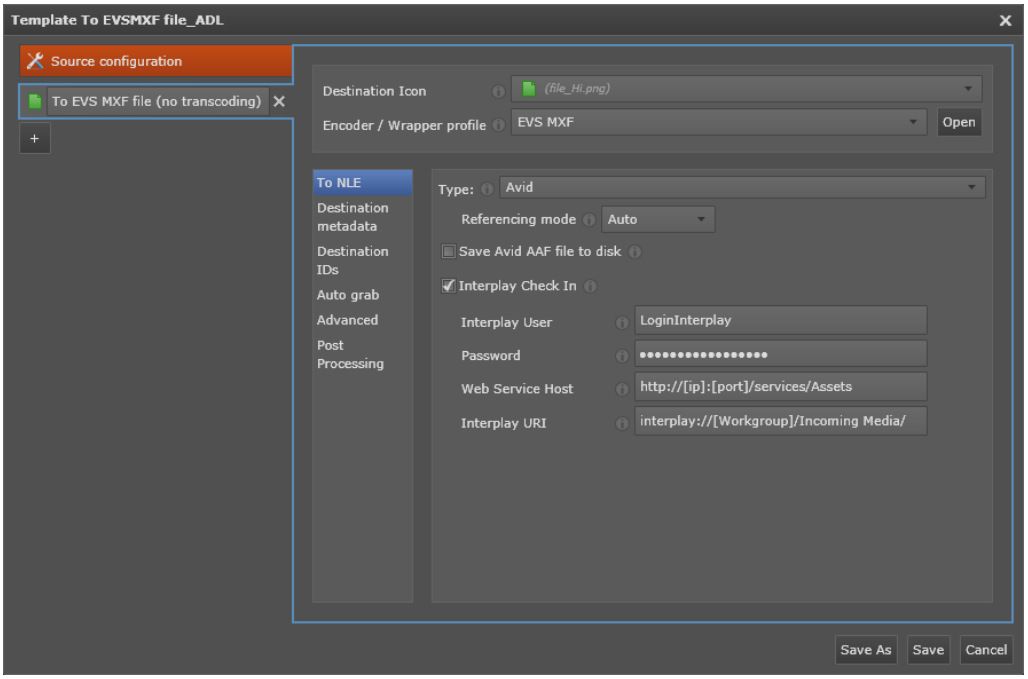
The updated template has been saved and is available in the **Template** drop-down field in the job initiators windows.

How to Modify Settings Related to the Destination(s)

1. From the Job Templates window, click the **Edit** button for the job template you have previously created.
2. Click the requested destination on the left of the window:



The destination name on the left is surrounded by a blue line, and the destination-related settings are displayed on the Destination pane on the right:



If you want to ...	Refer to ...
change the icon associated to the destination	"How to Change the Destination Icon" on page 61
change the wrapper/encoder for the destination	"How to Change the Wrapper/Encoder for the Destination" on page 61
add NLE-related settings for the destination file	"How to Add NLE-Related Settings for the Generated File" on page 61
specify values to overwrite source metadata in the destination file	"How to Specify Values to Overwrite the Source Metadata" on page 62
manage the ID definition in the destination file	"How to Manage ID Definition in the Destination" on page 63

If you want to ...	Refer to ...
create grabs of the source media for each destination file	"How to Create Grabs" on page 63
request a transfer of the destination file	"How to Request a File Transfer" on page 65
set more advanced options	"How to Set More Advanced Options" on page 64

3. Click **Save**.

The updated template has been saved and is, and is available in the **Template** drop-down field in the job initiators windows.

3.2.7. Configuring the Source Selection on the EVS Server

Introduction

When the source media is located on an EVS server running a multi-essence configuration, Xsquare needs to know which source it should take into account on the EVS server.

The source taken into account partly depends on the value defined in the EVS Server Source Selection setting in the job template.

This section describes:

- how you set the Source EVS Server Source Selection setting in a job template;
- how Xsquare interprets the value assigned to this setting.

How to Specify the EVS Server Source to Take into Account

For multi-essence configurations, you need to specify how Xsquare will select an EVS server source:

1. Click **Source Configuration** on the top left part of the window

   The Source pane opens on the right.

2. In the Source pane, select the source type in the EVS Server Source selection area:
   - Select **XDCAM** or **Intra** if you want to force the use of a specific source. In this case, the job will fail if the source is not available on the EVS server.
   - Select **Automatic** for automatic source selection by Xsquare (priority to intra codecs for grabs and to XDCAM codec for other jobs).

Warning
Note that the MTPC board of the EVS server must be connected to the same VLAN as Xsquare for Xsquare to be able to see the XDCAM source. You can check that the EVS server has been discovered in the EVS Server Monitoring window.

When the User Sets the Source Codec Type ...

If the **EVS Server Source Selection** setting is set to **XDCAM** or **Intra** in the underlying job template, Xsquare will exclusively take into account the EVS source type specified in the setting (XDCAM or Intra codecs).

If the requested source is not available, the job will fail.

When Xsquare Selects the Source Codec Type ...

If the **EVS Server Source Selection** setting is set to **Automatic** in the underlying job template, Xsquare will select the source as follows:

1. If **Xsquare cannot connect to the MTPC board** of the EVS server, Xsquare will define the clip source as **Intra**, and look for an Intra clip.

   If no Intra clip exists, the job will fail (even if an XDCAM clip exists).

2. If **Xsquare can connect to the MTPC board** of the EVS server and the **job is a grab**, the engine will use in priority the Intra clip as the source:

Available source on the EVS server	Codec used as source
Intra + XDCAM	Intra
XDCAM only	XDCAM
Intra only	Intra

3. If **Xsquare can connect to the MTPC board** of the EVS server and the job is **any other process** (copy, rewrap, restore, transcoding action, referencing in an NLE, etc.), the engine will use in priority the XDCAM clip as the source:

Available source on the EVS server	Codec used as source
Intra + XDCAM	XDCAM
XDCAM only	XDCAM
Intra only	Intra

3.2.8. Configuring Source Settings in a Job Template

Initial and Final Steps

All source settings are configured in the Job Template window. Therefore, you need to perform the following initial and final steps:

- As initial step, open the template you want to customize in the Job Template window, and select 

to display the source settings on the right pane.
- Once you have configured the requested source settings, click **Save As** in the Job Template window to validate the changes.

See section "How to Modify Settings Related to the Source" on page 54.

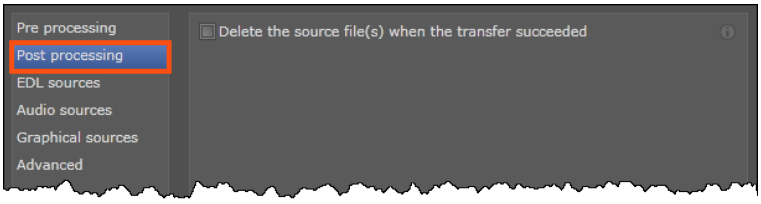
How to Clean the EDL Source

1. In the Source Configuration pane, select **Pre-Processing** to display associated settings on the right pane:

2. Select the **Clean source EDL** check box.

How to Delete the Source File

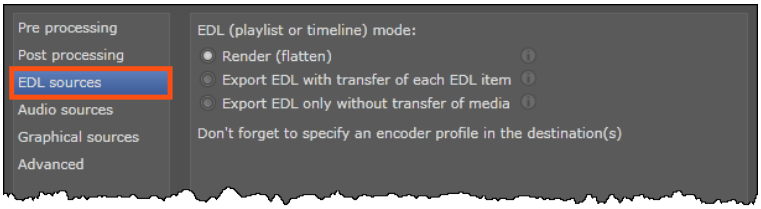
1. In the Source Configuration pane, select **Post Processing** to display associated settings on the right pane:



2. Select the **Delete the source file(s) when the transfer succeeded** check box.

How to Process the Media Associated to EDLs

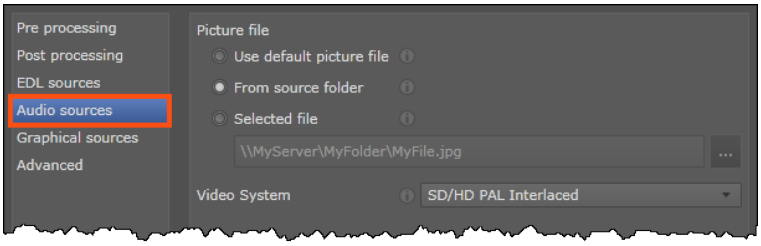
1. In the Source Configuration pane, select **EDL sources** to display associated settings on the right pane:



2. Select the requested option to specify how Xsquare will handle the media elements included in EDLs.

How to Specify Pictures to be Associated to Audio Sources

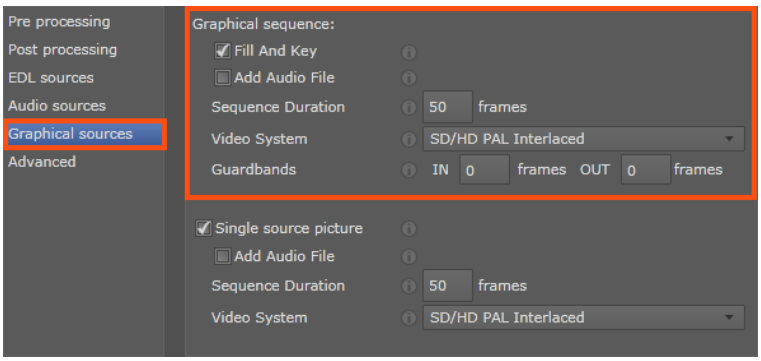
1. In the Source Configuration pane, select **Audio sources** to display associated settings on the right pane:



2. Select the requested option to specify which type of picture file (static picture) should be associated to audio sources.

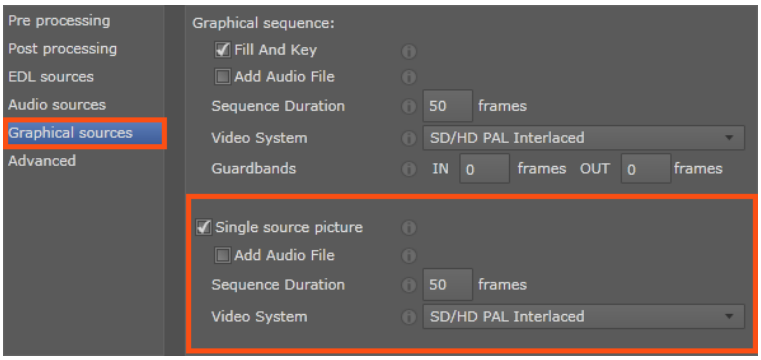
How to Handle A Graphical Sequence or Single Picture

1. In the Source Configuration pane, select **Graphical Sources** to display associated settings on the right pane.
2. If the source will be graphical sequences, set the parameters displayed in the Graphical Sequence section. By default, the displayed values and selections are applied.



3. If the source will be single pictures, select the **Single source picture** check box and set the parameters that appear. By default, the displayed values and selections are applied.

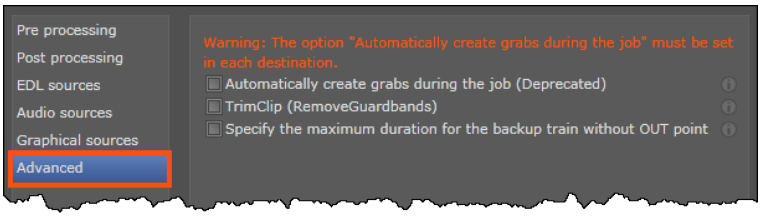
   Such a scanfolder will automatically handle as single pictures the following file formats .jpeg, .bmp, .png, .tiff, .jpg:



How to Set More Advanced Options

You can specify the options to remove guardbands or to specify the maximum duration of a backup train as follows:

1. In the Source Configuration pane, select **Advanced** to display associated settings on the right pane:



2. Select the requested check box to activate an option. A tooltip for each parameter is displayed as you move the mouse pointer over the icon.

3.2.9. Configuring Destination Settings in a Job Template

Initial and Final Steps

All destination settings are configured in the Job Template window. Therefore, you need to perform the following initial and final steps:

- As initial step, open the template you want to customize in the Job Template window, and select the destination you want to customize.

  The related settings are displayed on the right pane.

- Once you have configured the requested source settings, click **Save As** in the Job Template window to validate the changes.

See section "How to Modify Settings Related to the Destination(s)" on page 55.

The destination settings vary depending on the type of destination.

How to Change the Destination Icon

The destination icon is used in Xsquare, but also in other EVS applications or software suites like IPDirector:

1. In the Job Template window, select the destination whose icon you want to change.
2. Select a new icon in the **Destination Icon** field, where all icons added in the Icons Manager window are available:

How to Change the Wrapper/Encoder for the Destination

A wrapper or encoder profile needs to be associated to each destination defined.

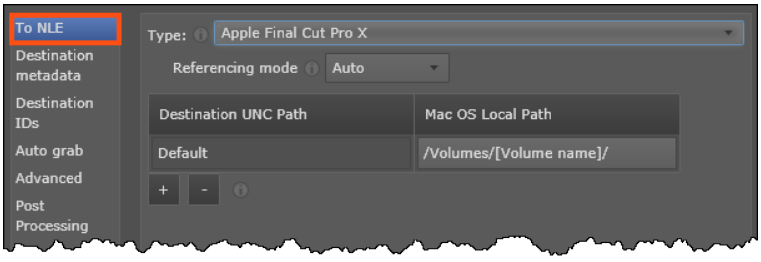
1. In the Job Template window, select the destination whose wrapper/encoder you want to change.
2. Select another wrapper or encoder from the **Encoder / Wrapper Profile** field:

How to Add NLE-Related Settings for the Generated File

You can add NLE settings for all NLE managed in the EVS workflows. The NLE settings depend on the NLE system you will select. These settings will only be available for a file destination.

1. In the Job Template window, select the destination whose NLE settings you want to edit.
2. Click the **To NLE** tab in the Destination pane.

   The associated settings are displayed on the right pane:



3. In the **Type** field, select the **NLE** the generated file has to be checked into.
4. Fill in the parameters specific to the selected NLE.

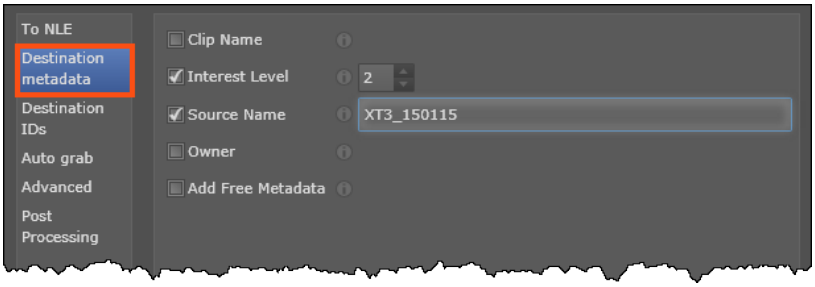
   A tooltip for each parameter is displayed as you move the mouse pointer over the icon.

How to Specify Values to Overwrite the Source Metadata

You can specify a given value to the displayed metadata field, or even add a metadata field and specify the value to the assigned with the **Add Free Metadata** field.

1. In the Job Template window, select the destination whose metadata you want to set.
2. Click the **Destination metadata** tab in the Destination pane.

   The associated settings are displayed on the right pane:



   - Jump to step 3 if the requested metadata field is listed.
   - Jump to step 4 if the requested metadata field is not listed.
3. To force a value for one of the listed metadata field:
   a. Select the check box of the metadata field whose value has to be modified in the destination file.

      A field appears on the right of the metadata field.

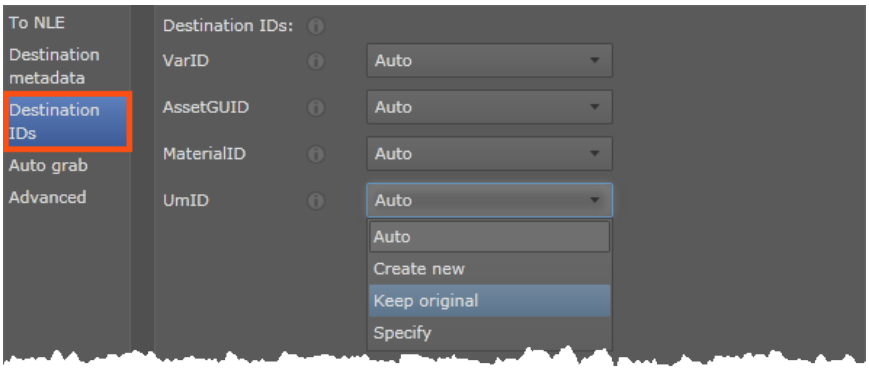
   b. Enter the value in the field displayed on the right.
4. To specify a metadata field, and the value to be associated to the field:
   a. Select the **Add Free Metadata** field
   b. Type the metadata name and the metadata value following the definition pattern displayed in the text field.

How to Manage ID Definition in the Destination

In this tab, you can specify how the various IDs should be managed in the destination.

In case of scanfolders, the ID rules defined in the ScanFolder window has priority over these ID rules.

1. In the Job Template window, select the destination for which you want to manage ID definition.
2. Click the **Destination IDs** tab in the Destination pane:



3. For each ID type, you can ask:
   - for IDs to be automatically managed,
   - to keep the original ID
   - to generate a new ID
   - specify the desired ID.

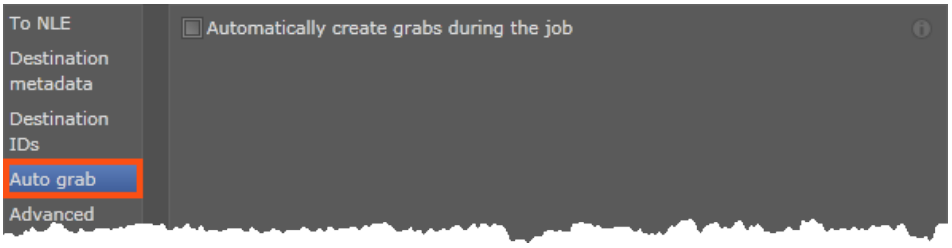
   Additional information is available in the Tooltip icon .

How to Create Grabs

In this tab, you can set automatic grabs of the source media to be created for each output.

This option will only work with non-EDL sources.

1. In the Job Template window, select the destination you want to create grabs for.
2. Click the **Auto grab** tab in the Destination pane:

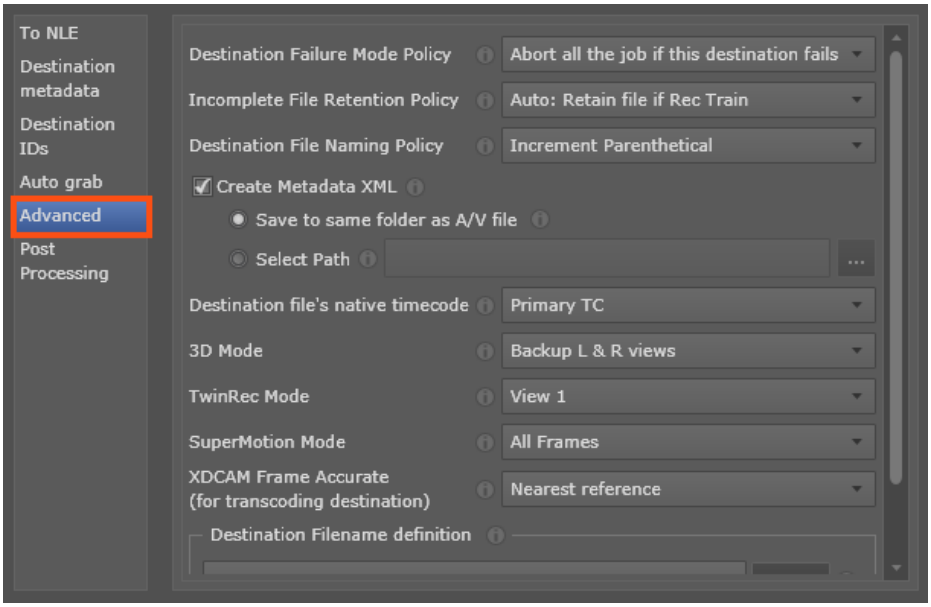


3. Select the check box to create grabs during the job.

How to Set More Advanced Options

You can specify more advanced options as follows. The Advanced options will differ depending on the destination type. A tooltip provides a description of each options.

1. In the Job Template window, select the destination whose advanced options you want to set.
2. Click the **Advanced** tab in the Destination pane:



3. Edit the values of the requested fields. A tooltip for each parameter is displayed as you move the mouse pointer over the icon.

How to Request a File Transfer

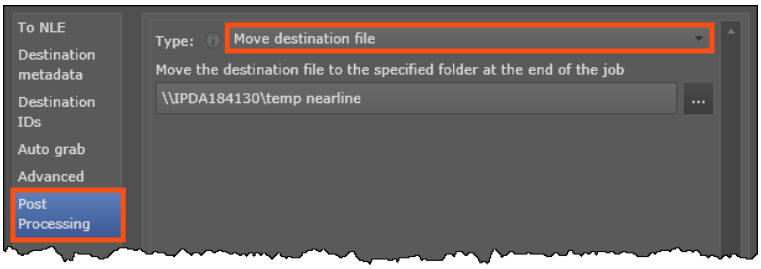
Procedure

You can request the files, based on a given template, to be transferred to a shared folder on the network, or to an FTP server, as follows:

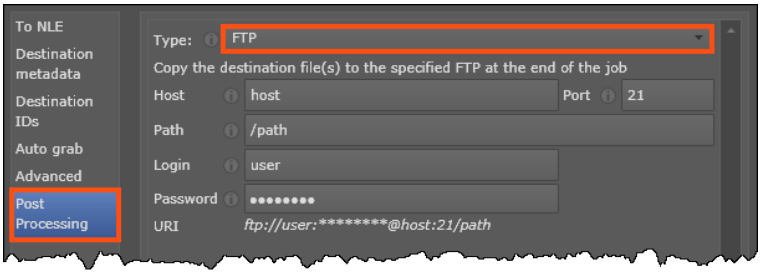
1. In the Job Template window, select the destination you want to request a file transfer for.
2. Click the **Post-Processing** tab in the Destination pane:
3. Select the transfer type in the **Type** field:
   - **Move destination file** for a move to a shared folder on the network.

     Jump to step 4.
   - **FTP** for a move to an FTP server.

     Jump to step 5
4. When you have selected **Move destination file**, type the UNC path of the folder where the file has to be moved to or point to it via ...:



5. When you have selected **FTP**, type the requested credentials that will allow Xsquare to access the FTP server:



Rules

- The FTP transfer post-processing step cannot be enabled for a EVS Server destination.
- If one of the FTP transfer fails, the other FTP transfers for the other destinations will be executed, **except if** the option **Abort all the job if this destination fails** is set for the corresponding destination in the **Advanced** tab.
- When a **Backup EDL only** and **Backup EDL + Clips** is defined by the operator, the entire destination folder and all its content is transferred . So, if multiple EDLs are sent to the same folder (nearline,…), the whole folder is transferred for each job.

- The FTP transfer post-processing step is not triggered if the **Keep Partial** is set in **Auto Mode** (default value). If the transfer fails before any partial video file could not be created, the FTP transfer fails with an invalid data : "No source specified".

4. Managing Icons and Labels

4.1. Icons Manager

The Icons Manager window makes it possible to store the icons you want to associate to the job template in order to symbolize the job destination.

The windows are displayed in the upper part of the window, and the buttons to add +, remove -, import or export the icons are displayed at the bottom of the window.

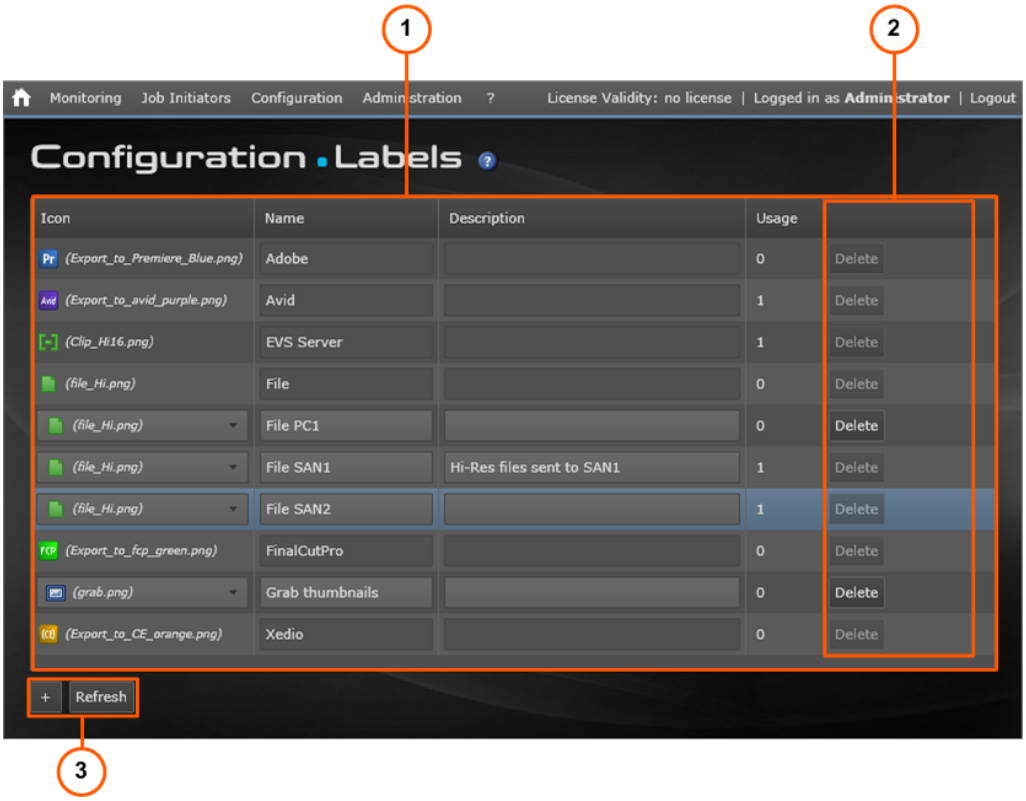
Once your icons are imported, they will all be available in the job template definition, via the **Destination Icons** field.

4.2. Labels Window

Introduction

Labels can be created and associated to targets. This makes it possible to organize and present the targets in groups based on their label in other EVS applications (for example IPDirector).

The Labels window contains the areas highlighted on the screenshot below:



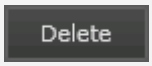
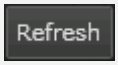
Labels Grid (1)

The table below describes the fields in the Labels grid:

Field Name	Description
Icon	Icon associated to the label. The icons managed in the Icon Manager are available in the Labels grid. This icon will be displayed in other EVS applications where targets are used.
Name	Name of the label The label name will be displayed in other EVS applications where labels are used.
Description	Description of the label
Usage	Number of job definitions the label is associated to

Action Buttons (2) - (3)

The table below describes the commands available in the Labels window:

Button	Description
	Deletes the label of the corresponding row. This is only available for labels created by users.
	Opens the Labels dialog box, that allows creating a new label.
	Refreshes the label information in the grid.

5. Administration

5.1. About User and Access Right Management

General Principles

Note
The Administration module is only accessible to users logged on as administrators.

Users are defined in Xsquare with their own login and password.

Each user must be associated to one and only one role. The role defines the user rights and the visibility on the various elements defined or available in Xsquare.

Each user can, but does not have to, belong to one or more groups.

You will first define the roles and groups you need before you create your users. You can also create the role as you define the users.

Active Directory Integration

By default, the administrator will create the users, roles and groups in Xsquare and maintain them in Xsquare.

However, it can be decided to use, in Xsquare, the users and groups defined in the Windows Active Directory. This provides an easier and more efficient management of users and groups. In addition, it allows the use of Windows user credentials for login.

The Administration chapter will cover both the use of Xsquare with or without the integration with Active Directory.

Tasks in Active Directory vs. in Xsquare

The following table provides an overview on where the actions are performed in case of Active Directory integration:

Task	Where is the task performed?
Creating Users	In Active Directory See section "Managing Users With Active Directory Integration" on page 74.
Modifying User Definition	In Active Directory See section "Managing Users With Active Directory Integration" on page 74

Task	Where is the task performed?
Adding a Role	1. Group added in Active Directory 2. Role added in Xsquare The Xsquare role must be the same as the AD group (case-sensitivity). See section "Managing Roles" on page 76.
Defining a Role (rights/visibilities)	In Xsquare See section "Role Definition with Active Directory Integration" on page 79.
Adding a Group	1. Group added in Active Directory 2. Group added in Xsquare The Xsquare group must be the same as the AD group (case-sensitivity). See section "Managing Groups" on page 84.
Adding/Removing users in/from a group	In Active Directory

5.2. Users

5.2.1. Users and Access Window

General Description

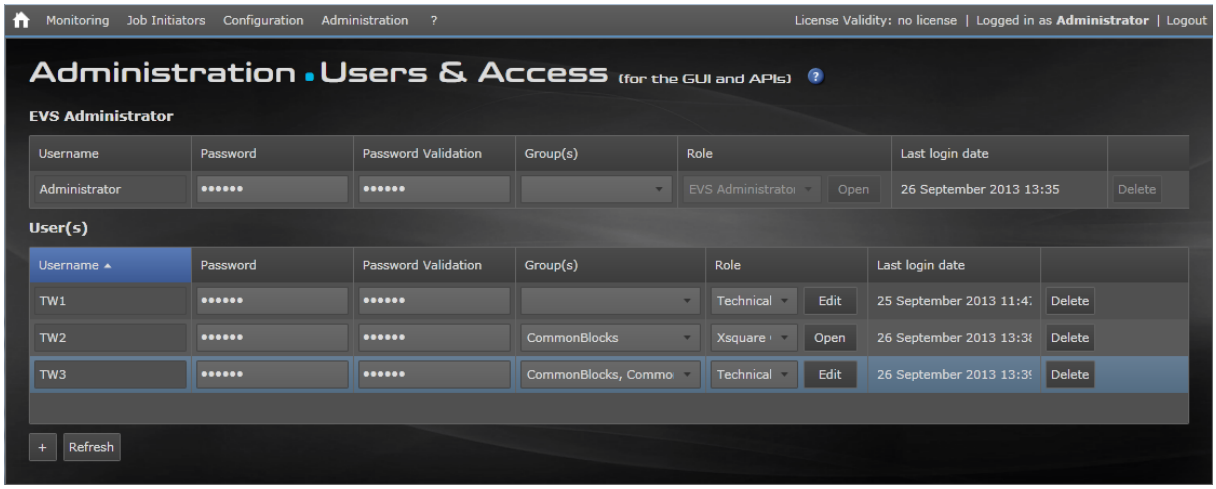
The Users and Access window allows administrators to perform the following actions:

- create users
- manage the user's credentials (compulsory)
- assign a role to a user (compulsory)
- include a user into one or several groups (optional)

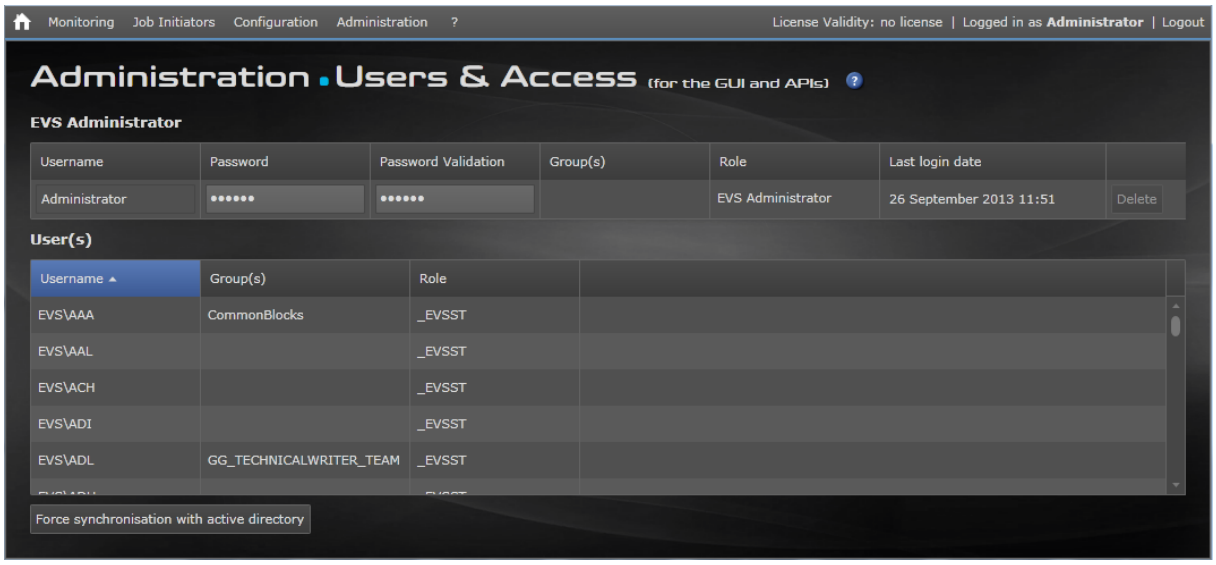
It is only accessible to users logged on as administrators.

Warning
When Xsquare is integrated with Active Directory, the user definition is fully managed in Active Directory, and no changes can be performed in Xsquare. The user definitions are read-only in this window.

The following screenshot present the Users & Access window without integration with Active Directory:



The following screenshot present the Users & Access window with integration with Active Directory:



Field Description

The table below describes the various fields of the User and Access window.

Item	Description	In AD integration?
Username field	User name used to log into Xsquare	Yes (read-only)
Password field	User password used to log into Xsquare	Yes (read-only)
Password Validation field	User password used to validate the first entered password	Yes (read-only)
Role field	Role assigned to the user. A role must always be assigned to a user. The assigned role must have been defined in the Roles window. See section "Roles" on page 75 for more information on role definition.	Yes (read-only)
Group field	Group(s) the user belongs to. A user can optionally be included in one or more groups. The associated group must have been defined in the Groups window. See section "Groups" on page 81 for more information on group definition.	Yes (read-only)
Last Login Date field	Date and time the user logged on for the last time. This field is ready-only.	Yes
Delete button	Deletes the corresponding user definition.	No
Save button	Saves changes related to the user defined on the corresponding row	No
Cancel button	Cancels changes related to the user defined on the corresponding row	No
Add button (+)	Adds a row to define a new user, its credentials, role and group	No
Force synchronization with active directory button	Forces Xsquare to display the last changes from Active Directory in the Users window.	Yes (only in AD integration)

5.2.2. Managing Users

Introduction

Administrators can add new Xsquare users in the User and Access window. You can access it from the **Administration** > **Users & Access** menu.

When you define a user, the following rules are applicable:

- You have to define a user password.
- You have to assign the user one and only one role.
- You can link the user to zero, one or several groups.
- You can define several users with administrator roles.

Prerequisites

As you will link users to groups, you need to define the required groups in the Groups window before you configure your users.

You can define the roles beforehand or as you create the user.

Managing Users Without Active Directory Integration

When Active Director is not used, the whole user administration is performed in Xsquare.

How to Add a User

To add a user, proceed as follows:

1. Click the  button.

   This adds a new row.
2. In the new row, do the following:
   - Enter a username in the **Username** field
   - Enter the user password twice, in the **Password** field and in the **Password Validation** field.
   - From the **Role** field, click the field and select the role the user must be associated to from the list. A role must be assigned as it defines the user operation and visibility rights.
   - From the **Group** field, click the field and select the group(s) the user should belong to from the list. This is an optional field.
3. Click the **Save** button in the row corresponding to the newly added user.

The user is now defined in Xsquare, and he/she can directly connect to the application.

How to Modify a User

To modify a user definition, proceed as follows:

1. In the row corresponding to the user definition, change the parameters as desired.
2. Click **Save** to the right end of the row.

How to Delete a User

To delete a user, proceed as follows:

1. Click the **Delete** button on the right of the user definition

   A confirmation request is displayed.
2. Click **Yes** to confirm the action.

Managing Users With Active Directory Integration

The user list is in read-only mode in Xsquare: the users are not created nor edited in Xsquare.

The users are taken over from the Active Directory and are automatically displayed in the Users window when the following conditions are met:

- The user is defined and associated to a valid role in Active Directory
- The role the user is associated to has been added to the **Roles** window in Xsquare

Xsquare is regularly synchronized with the Active Directory. You can however force the synchronization with the Active Directory to get new or modified users directly in Xsquare.

Note
The Administrator local user is the only user managed in Xsquare.
You can change his password, but he will always have full rights.

5.3. Roles

5.3.1. Roles Window

General Description

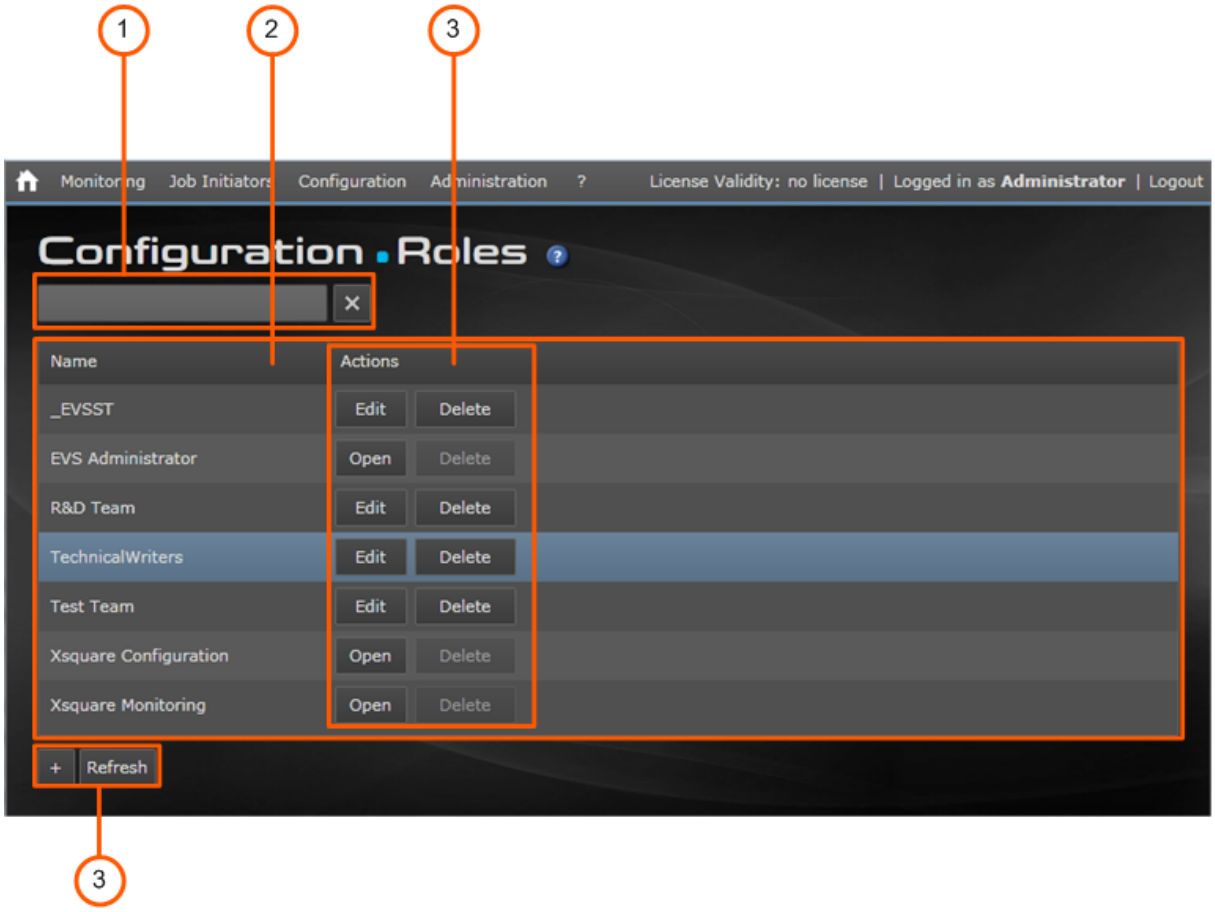
The Roles window allows administrators to view and manage roles, which can then be granted to users in the Users & Access window.

A role consists of a set of rights to perform actions or view content in Xsquare.

When a given right is granted, it can be granted:

- for all Xsquare elements associated to the right
- for the elements created by the groups the user belongs to
- for the elements created by the user him/herself

The following screenshot highlights the various areas in the Roles window:



Filter Area (1)

The Filter area allows users to filter the list of roles based on their name. The grid is automatically refreshed to display only the items whose name includes the string specified in the **Filter** area.

See section "Filtering and Sorting Grid Items" on page 47

Role List (2)

The Role list displays the roles defined in Xsquare. The actions that can be performed for each individual role are specified on the right end of the row.

Action Buttons (3)

Two areas contain buttons corresponding to the actions the user can perform in the Role window:

- Action buttons that apply to a given role item are displayed at the right end of each Role item.
- Action buttons that do not apply to a given role item are displayed below the grid.

See section "Managing Roles" on page 76.

5.3.2. Managing Roles

Introduction

This section covers the general actions you can perform on roles. See section "Defining Roles" on page 79 for more information about the actual role definition.

The roles are managed from several windows:

- In the Role window, you have an overview on all existing roles. From this window, you can create, edit or delete roles.

  To access the Role window, click the Role icon on the main Xsquare page in the Administration section.

- In the Role Definition window, you define all the rights associated to a given role. You will always use this window to create or modify roles.

  You can access the Role Definition window in the following windows:

  - Users & Access window, from the Open button in the **Role** field
  - Role window, from the +, Open, Edit buttons

Warning
When Xsquare is integrated with Active Directory, the roles the administrator wants to use in Xsquare must have been previously defined as groups in Active Directory.
In Xsquare, the administrator has to create roles having exactly the same name as the corresponding AD groups. Beware that the role names are case-sensitive.

Operations on Roles

The command buttons described in the table below are mainly available in the Role window. The **Open** or **Edit** buttons are also available in the User and Access window:

Button	Description
Open	Opens the definition of the role of the corresponding row. This button is available for the roles predefined in Xsquare, as these cannot be directly modified.
Edit	Opens the definition of the role of the corresponding row. This button is available for roles the administrator has created, as these can directly be modified. See section "Defining Roles" on page 79 for more information on editing and customizing roles.
Delete	Deletes the role of the corresponding row. This is only available for roles created by the administrator.
+	Allows the administrator to define a name for a new role, and then define the role in the Role Definition window. New roles can also directly be defined from the **Role** field, in the Users & Access window. See section "Defining Roles" on page 79 for more information on editing and customizing roles.
Refresh	Refreshes the window display.

5.3.3. About Role Definition

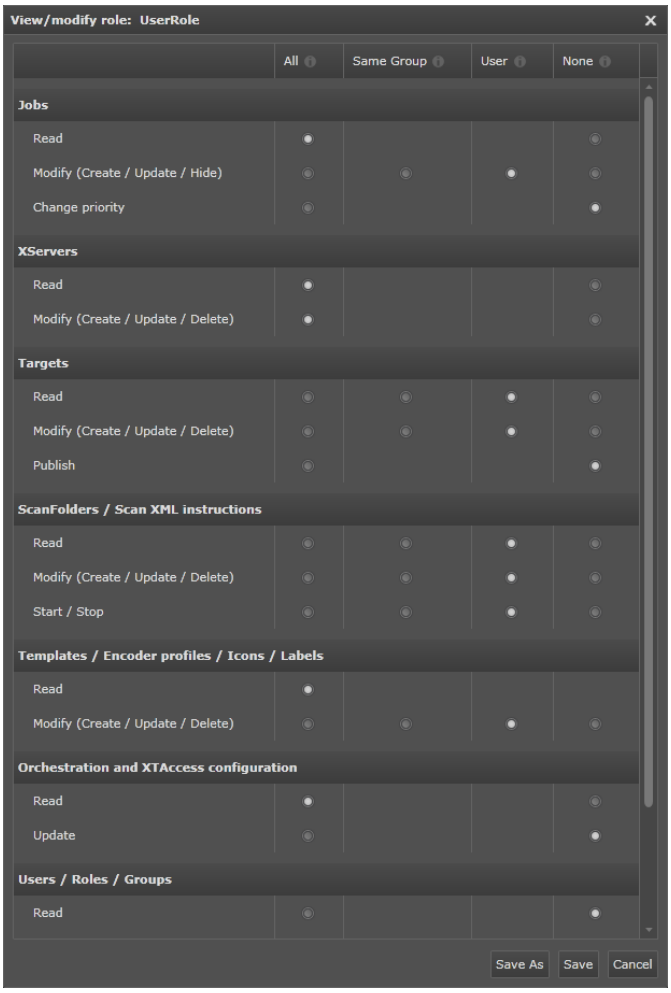
Overview

In the Role Definition window, you define the rights associated to a role. This topic will not provide a detailed description of the Role Definition window, but useful information about role definition.

Role Definition Window

The Role Definition window is organized as follows:

- The left column lists the rights (that is 'which action the user can perform on which element type in Xsquare'.)
- The next columns allow the administrator to define the scope of the right (that is 'on which elements the given right will be granted to the user).



Scope of a User Right

Depending on which column the radio button corresponding to a right is selected, the user will be able to 'exercise' the right on a more or less limited number of elements.

The table below explains the scope setting in the right definition:

Value	Description
All	The user can exercise the right on all relevant elements in Xsquare.
Same Group	The user can exercise the right on the relevant elements that have been created by any person belonging to the same group(s) as the user.
User	The user can exercise the right only on the relevant elements he/she has created.
None	The corresponding right is not granted to the user.

5.3.4. Defining Roles

Introduction

By default, three roles are available in Xsquare: one role for administrating Xsquare, one for configuring Xsquare and one for monitoring the jobs processed by Xsquare.

If the default roles do not meet your needs, you can either create new role definitions from scratch or based on an existing role.

See section "About Role Definition" on page 78 to get more information on the Role Definition window.

Warning
Two roles cannot have the same names.
A role and a group cannot have the same name.

Role Definition with Active Directory Integration

When Xsquare is integrated with Active Directory, the roles the administrator wants to use in Xsquare must have been previously defined as groups in Active Directory.

In Xsquare, the administrator has to create roles having exactly the same name as the corresponding AD groups. Beware that the role names are case-sensitive.

Once the roles have been defined in Xsquare, they are available in the Role window within 30 minutes or after logging out and back into Xsquare.

If several AD groups match several Xsquare roles, Xsquare associates the Xsquare user to the first role it finds in alphabetical order.

How to Define a New Role Based on an Existing One

To define a new role based on an existing one, proceed as follows:

1. Select the source role in one of the following ways:
   - From the Role window, click the **Open** or **Edit** button of the source role.
   - From a user definition in the Users & Access window, select the source role from the list and click **Open** in the Role field (only applicable without AD integration)

   The definition of the source role is displayed.
2. Click on the radio buttons corresponding to the rights you want to define for each right type. The radio button is selected (white).

   See section "About Role Definition" on page 78
3. Repeat the preceding step for all rights you want to modify.
4. Click **Save As** at the bottom of the window.
5. Enter a name for the new role.

   In Active Directory integration, use exactly the same name as the name of the AD group you want to assign these rights to.
6. Click **OK**.

The new role is created.

How to Define a New Role from Scratch

To define a new role from scratch, proceed as follows:

1. From the Role window, click the  button at the bottom of the window.

   The New Role dialog box is displayed.
2. Enter a name for the new role.

   In Active Directory integration, use exactly the same name as the name of the AD group you want to assign these rights to.
3. Click **OK**.

   The definition of the source role is displayed.
4. Click on the radio buttons corresponding to the rights you want to define for each right type. The radio button is selected (white).

   See section "About Role Definition" on page 78
5. Repeat the operation for all rights you want to define.
6. Click **Save** at the bottom of the window.

The new role is created.

How to Modify an Existing Role

You can modify an existing role in the same way as you create a new role based on a existing one, except that you will click the **Save** button once you have changed the role definition (instead of the **Save As** button).

How to Delete a Role

In the Role window, click the **Delete** button next to the role you want to delete.

Note
You can only delete roles that are not assigned to users.

5.4. Groups

5.4.1. Groups Window

General Description

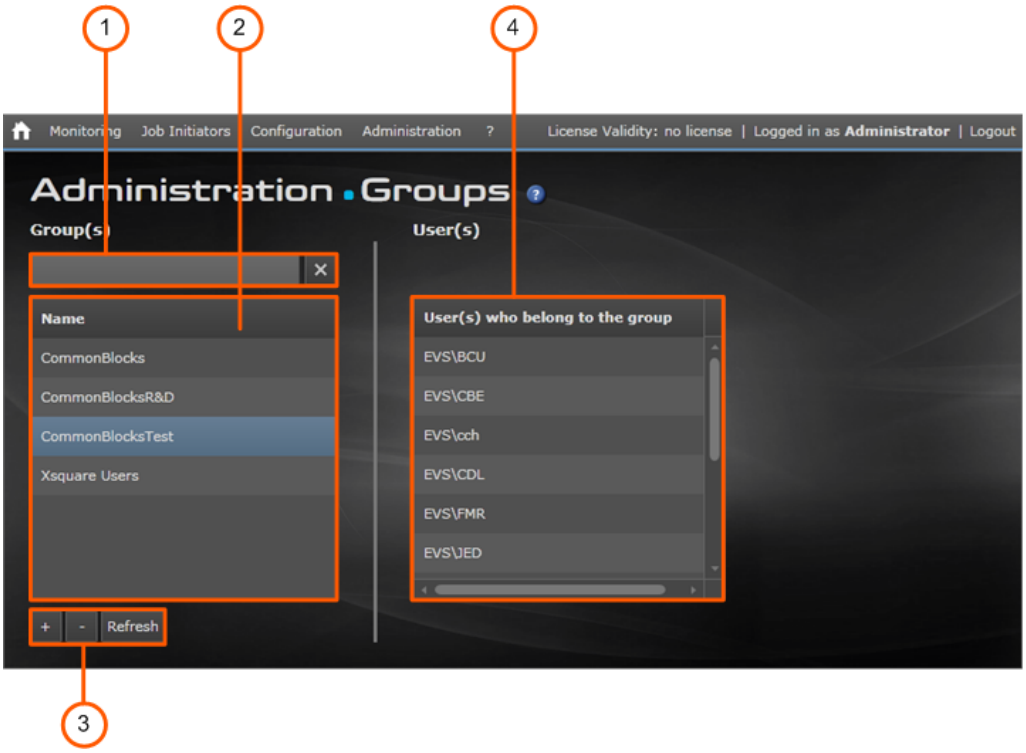
The Groups window allows administrators to view and manage groups of users.

When Xsquare is not integrated with Active Directory, the groups are created in the Groups window, and users are then assigned to the created groups.

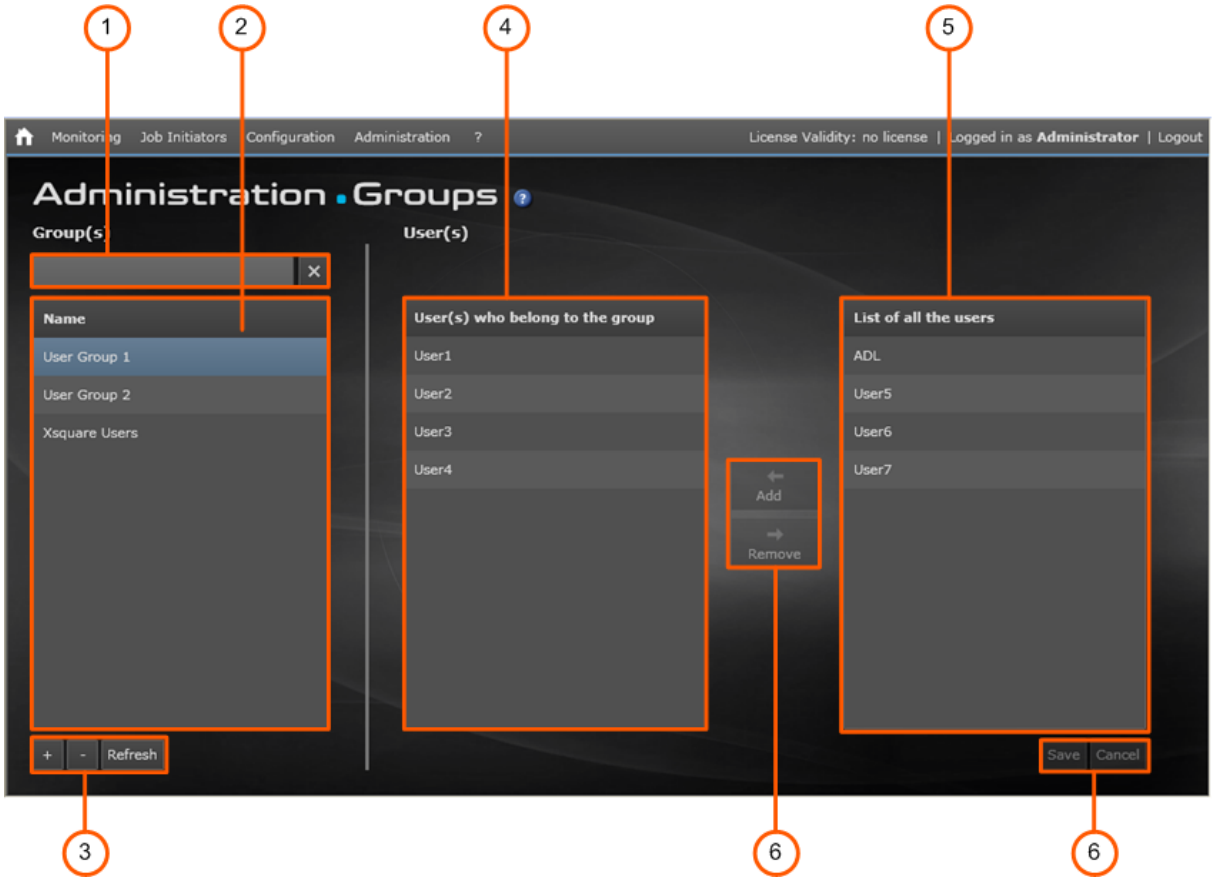
When Xsquare is integrated with Active Directory, the groups are created in Xsquare with exactly the same name as the corresponding AD groups. Once the groups are defined in Xsquare, users are automatically assigned to the groups they belong to in Active Directory. The actual user assignment is therefore not performed in Xsquare.

For this reason, the Groups window will be slightly different whether Xsquare is integrated with Active Directory, or not.

The following screenshot present the various areas in the Groups window with integration with Active Directory:



The following screenshot present the various area s in the Groups window without integration with Active Directory:



Filter Area (1)

The Filter area allows users to filter the list of roles based on their name. The grid is automatically refreshed to display only the items whose name includes the string specified in the **Filter** area.

See section "Filtering and Sorting Grid Items" on page 47

Group List (2)

The Group list displays all the groups defined in Xsquare.

In case Xsquare is integrated with Active Directory, the groups must be defined in Xsquare with exactly the same name as AD groups.

Group Action Buttons (3)

These buttons allow administrators to create  or delete  a group.

The **Refresh** button refreshes the displayed group list.

Group Users (4)

The Group Users list displays the users who are included in the group selected in the Group list.

In case Xsquare is integrated with Active Directory, the group users is automatically populated with the users belonging to the AD group that matches the Xsquare group.

In case Xsquare is not integrated with Active Directory, the group users are selected from the Other Users list and added using the **Add** button.

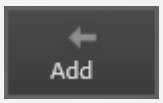
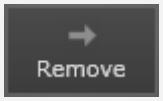
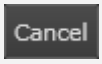
Other Users (5)

The Other Users list displays the users who are not included in the group selected in the Group list.

This area is not relevant with Active Directory integration, as the group users are defined in Active Directory.

User Action Buttons (6)

These buttons allow administrators to perform the following actions to define the group members. The buttons are not available with Active Directory integration, as the group users are defined in Active Directory:

Button	Description
	Adds the user selected in the list of all users (right) to the list of the users belonging to the selected group (left).
	Removes the user selected in the list of the users belonging to the selected group (left) and moves it back to the list of all users (right).
	Saves the modified group definition.
	Cancels the changes in the group definition.

5.4.2. Managing Groups

Introduction

Administrators can add new Xsquare groups, and assign users to groups in the Groups window. The Groups window is accessible from the **Administration** > **Groups** menu.

When Xsquare is not integrated with Active Directory, the administrator creates the groups in the Groups window. Then he/she assigns them to the groups either in the Groups window or in the User and Access window.

When Xsquare is integrated with Active Directory, the groups are created in the Groups window with exactly the same name as the AD group. But the users are NOT assigned to the groups in Xsquare: they are automatically assigned to the groups they belong to in Active Directory.

Principles

Two groups cannot have the same names.

A role and a group cannot have the same name.

A group can be empty.

The default user group called **Xsquare Users** cannot be deleted.

Only an empty group can be deleted.

Prerequisites

When Xsquare is integrated with Active Directory, the groups the administrator wants to use in Xsquare must have been previously defined as groups in Active Directory.

How to Create a New Group

To create a new group, proceed as follows:

1. Click  to create a new group.

   The New Group dialog box opens.

2. Type the group name and click **OK**.

   In case of Active Directory integration, the group name you define in Xsquare must be exactly the same as the AD group name, as the group names are case-sensitive.

3. Do one of the following:
   - With Active Directory integration, the group is created and the users belonging to the corresponding AD group are automatically populated into the Group Users list (Users who belong to the group). You have to close and reopen the application to see the user assignments.
   - Without Active Directory integration, you need to add users to the group manually as explained below.

How to Delete a Group

You can only delete a group if all users have been removed from the group.

To delete a group, proceed as follows:

1. Click the group name in the Group list.
2. Click  at the bottom of the Group list.
3. Click **Yes** to confirm the deletion.

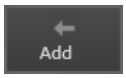
How to Add users to a Group

This procedure is only applicable when Xsquare is not integrated with Active Directory.

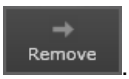
To add users to a group, proceed as follows:

1. Click the group name in the Group list.

   In the Users area, two lists are displayed: the left one displays the users who already belong to the group (Group User list), the right one displays all other users (Other User list).

2. In the right list, click a user you want to add to the group, and click 

3. Repeat step 2 for all users you want to add to the group.

   You can also remove users from the list by selecting them in the Group User list and clicking 

.

4. When you have added all requested users to the list, click Save and your group definition is updated.

Note
You can also assign a group to a given user from the Users and Access window in the user definition itself.

How to Remove users from a Group

To remove a user from a group, proceed as follows:

1. Click the group name in the Group list.
2. In the Users area on the right, in the left list (Users who belong to the group), click a user you want to remove from the group, and click Remove.
3. Repeat step 2 for all users you want to remove from the group.
4. When you have removed all requested users from the list, click Save and you group definition is updated.

5.5. Parameters

Introduction

The Parameters window allows you to set:

- purge parameters for Xsquare database and cache
- nickname for the Xsquare application

Note
The rights to access and modify the parameters are granted by default to the administrator role. Otherwise, they have to be assigned specifically.

Database Menu

The table below describes the parameters you can set when you select the Database menu on the left pane of the Parameters window:

Parameter	Description
Max. jobs available in the Xsquare monitoring cache	Specifies the maximum number of jobs that can be displayed in the Job Monitoring window. • When this number is exceeded, the oldest jobs are removed from the Job Monitoring window. • The default and recommended minimum value is **10,000**.
Max. jobs saved in the Xsquare SQL database	Specifies the maximum number of jobs saved in the Xsquare SQL database. • An automatic database purge of old jobs is performed every two minutes to prevent any impact on Xsquare performances. • The default value is **100,000**. • The recommended minimum value is **10,000** and always needs to be higher than the max. jobs available in the monitoring cache.
Save successful grab jobs in the SQL database and Xsquare monitoring cache	When checked, the successful grab jobs are kept in the database and monitoring cache. The default value is **Yes**.

Identification Menu

The table below describes the parameters you can set when you select the Identification menu on the left pane of the Parameters window:

Parameter	Description
Nickname	Allows assigning an nickname to the Xsquare application. When a nickname is assigned, it appears in the title bar of the Xsquare web interface, which makes it convenient to manage several Xsquare applications at the same time.

6. Monitoring

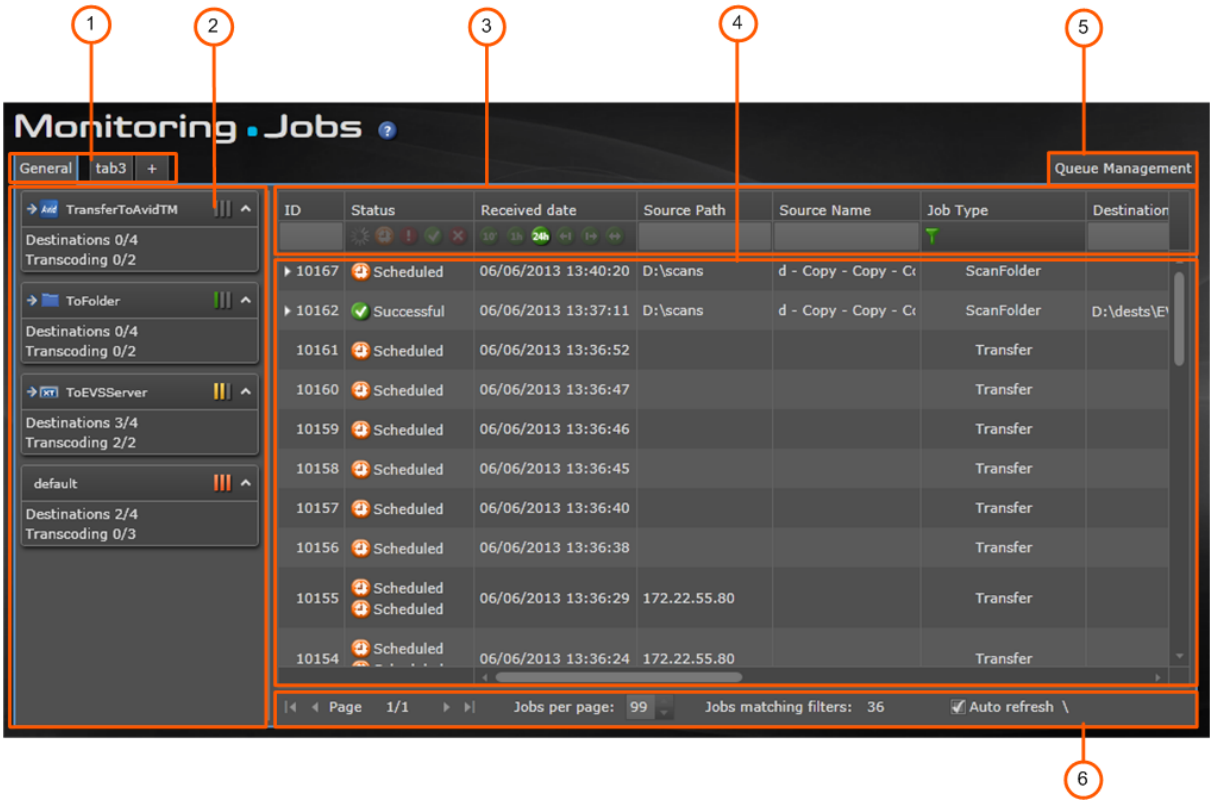
6.1. Job Monitoring

6.1.1. Job Monitoring Window

General Description

From the Job Monitoring window, you can monitor all the operations processed by the various engine clusters. Various filters can be applied to restrict the jobs displayed on screen.

The Job Monitoring window contains the areas highlighted on the screenshot below:



Area Description

The table below describes the various parts of the Job Monitoring window:

Part	Name	Description
1.	View tabs	Each tab corresponds to a monitoring view. By default, the **General** tab only is available. By clicking the  button right of the tabs, and assigning a name to the view, you can add a monitoring view.
2.	Cluster area	It displays the clusters defined in the Orchestration window. By selecting a given cluster, you will display in the Job grid only the jobs handled by the selected cluster. See section "Cluster Area" on page 92 for more information on the displayed information.
3.	Column headers and filters area	It displays the column headers and column filters. See section "Manipulating and Analyzing Monitoring Data" on page 94 for more information on the grid display, sorting and filtering features.
4.	Job grid	Each row of the grid displays information on a given job. See section "Job Grid" on page 90 for more information on the displayed information.
5.	Queue Management tab	It displays the jobs that have not yet been processed, and are still in the queue. It allows you to view all jobs in the queue, and to manage the job order in the queue.
6.	Display Information bar	This bar displays general information on the jobs displayed in the job grid, mainly from left to right: • Number of pages containing jobs that match the defined filter, and buttons to move to the next/previous page and to the first/last page. • Number of jobs displayed on a page. You can directly edit the field value, and the display is automatically adapted accordingly. • Number of jobs matching the defined filters. • Check box to activate / deactivate the automatic information refresh.

6.1.2. Job Grid

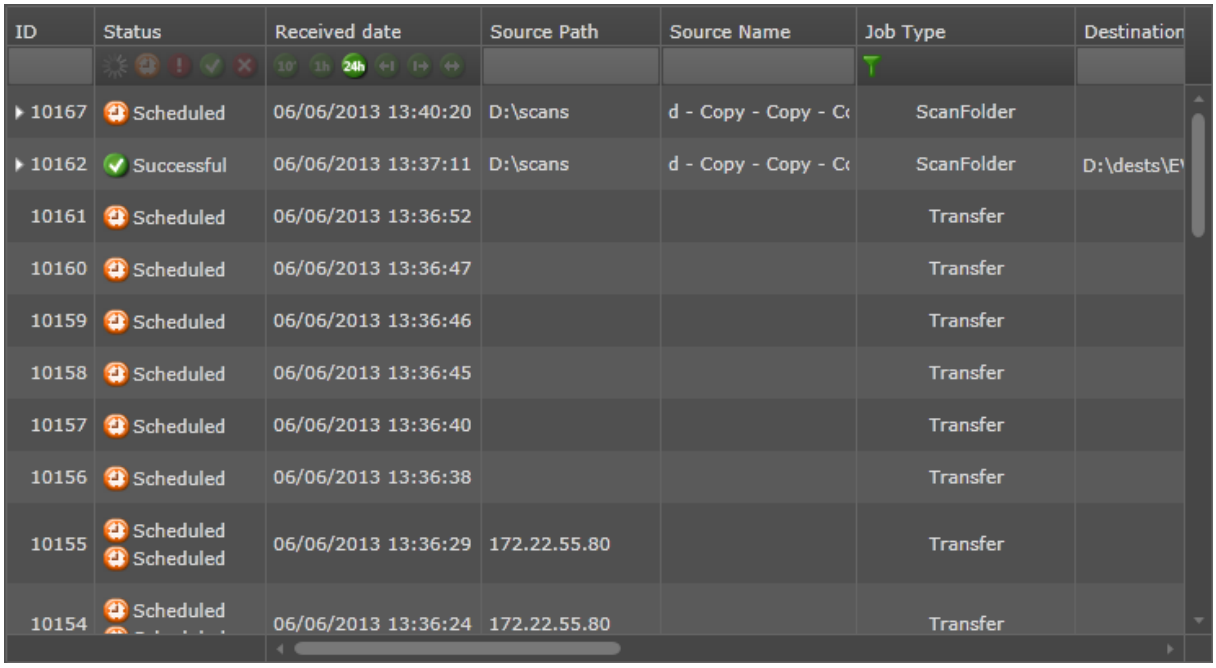
Introduction

The Job Grid area in the Monitoring window shows metadata on the jobs that you are monitoring.

Combinable column filters are available below the column headers.

This section describes the fields in the Job grid, and describe filtering rules.

The screenshot below shows the first general columns in the Job Grid in the Monitoring window:



Field Description

The table below describes the fields available by default in the Job Grid area. If you want to display other fields or hide displayed field, you can right-click a column header and select or unselect the field from the contextual menu.

Field Name	Description
ID	Job identifier in Xsquare. If a job contains sub-jobs, you can click the right arrow in front of the parent job ID to display the associated sub-jobs: 
Status	Status of the job in Xsquare. The following statuses are available:  job in progress  job scheduled  job failed  job successful  job canceled
Received Date	Date and time when Xsquare has received the job request. This is the local date and time on the computer on which the Xsquare application is installed. The following filters can be applied on date fields:  jobs received in the last 10 minutes  jobs received in the last hour  jobs received in the last 24 hours  jobs received before a given date  jobs received after a given date  jobs received between two dates UTC time is used internally. The time zone depends on the client machine configuration (usually local time). You need to restart your browser after changing the computer's time zone.
Source Path	Location of the source material: • In case of an EVS server, the GigE IP address(es) is/are mentioned. • In case of a shared folder, the full path is specified as follows: `\\ComputerName\FolderName`.
Source Name	Name of the source material: • In case of a clip, the LSMID and EVS server number are specified. • In case of a file, the file name and extension are specified.
Job Type	Type of job
Destination	Location where the job output will be stored: • In case of an EVS server, the GigE IP address(es) is/are mentioned. • In case of a shared folder, the full path is specified as follows: `\\ComputerName\FolderName`.

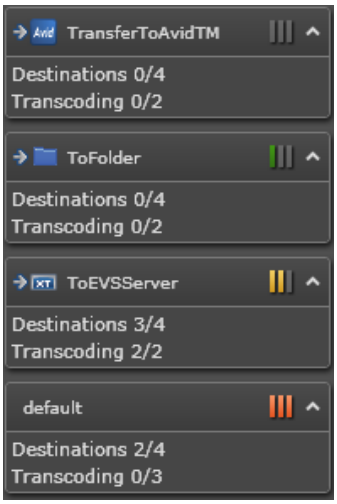
Field Name	Description
Message	Message giving information on the outcome of the job.
Frames/s	Transfer rate in number of frames per second.
MBytes/s	Transfer rate in megabytes per second. This information is not always available.
Cluster	Cluster which has executed the job.
XTA Nickname	Name of the computer on which is installed the engine that has processed the job.

Note
When a job has cancel/retry history, an asterisk is displayed next to the job ID. This means that the displayed job results from a merge of the original job and cancel/retry operations.

6.1.3. Cluster Area

Introduction

In the Monitoring window, the Cluster area provides information on the jobs that are scheduled or processed by a given cluster.



Field Description

The table below describes the various fields of the Cluster area:

Part	Name	Description
1.	Cluster name	Name of the cluster and associated icon as defined in the Orchestration window.
2.	Cluster Load icon	Provides information on the number of jobs scheduled in the cluster, and therefore on the workload on the cluster:  No job is scheduled in the cluster.  From 0 to 6 jobs are scheduled in the cluster.  From 6 to 15 jobs are scheduled in the cluster.  More than 15 jobs are scheduled in the cluster.
3.	Destinations X/Y	Displays the number of destinations being processed by the cluster (X) out of the maximum destinations it can handle (Y). The maximum destinations is defined in the Orchestration window.
4.	Transcoding X/Y	Displays the number of destinations with transcoding being processed by the cluster (X) out of the maximum destinations with transcoding it can process (Y). The maximum destinations with transcoding is defined in the Orchestration window.

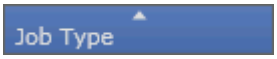
Warning
If the Cluster Load icon is red, it means your cluster receives more jobs than its maximum capacity. It is recommended to modify your cluster definition.

6.1.4. Manipulating and Analyzing Monitoring Data

Sorting Job Grid Items

By clicking a column header, you sort the rows based on the values of this column.

The column header the sorting is based on is highlighted in blue, and a down or up arrow is displayed above the column header to identify the sorting order (ascending/descending):



Filtering Job Grid Items

The field is available below the column header allows you to type or select a search filter for a given column:

The following rules are applicable when you define a filter:

- The filters defined on each column are associated by an AND operator.
- The field values selected in one filter are associated by an OR operator
- The filters based on text entered by the user do not support wildcards.
- When a filter based on selectable values is defined on a column, the icon is green . Otherwise, it is gray .

Changing the Job Grid Display

You can modify the Job Grid display by right-clicking in a column header.

This opens a contextual menu from which you can:

- reset the filters and sorting
- reset the column layout
- select columns to be displayed or hidden
- show all columns or only general columns

Getting Detailed Information on Monitoring Data

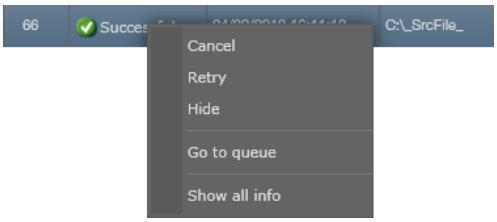
You can get more detailed information on monitoring data by right-clicking a row and selecting **Show all info** from the contextual menu.

You can also view the full error message, by double-clicking the message for a given job in the **Message** column.

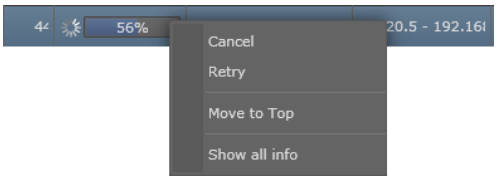
6.1.5. Managing Monitored Jobs

Introduction

Several actions that allow users to manage monitored jobs are available from a contextual menu when you right-click a row in the Job Grid area of the Monitoring window, or in the Queue Management tab. The following screenshots show these contextual menus:



Job Grid contextual menu in Monitoring window



Job Grid contextual menu in Queue Management tab

Available Commands on Monitored Jobs

Menu Item	Description
Cancel	Allows users to cancel a job scheduled or in progress.
Retry	Allows users to retry a failed or canceled job.
Hide	Allows users to hide a job they no longer want to be displayed in the grid. You can apply this to jobs you have already dealt with, for example. It does not purge the job, but only hide it.
Go to queue	Allows users to open the Queue Management tab.
Move to Top	Allows user to move the selected job to the first position in the Queue Management tab, for the job to be processed in priority.
Show all info	Opens a pane with detailed information on the selected job.

6.2. EVS Servers Monitoring

6.2.1. EVS Server Monitoring Window

Introduction

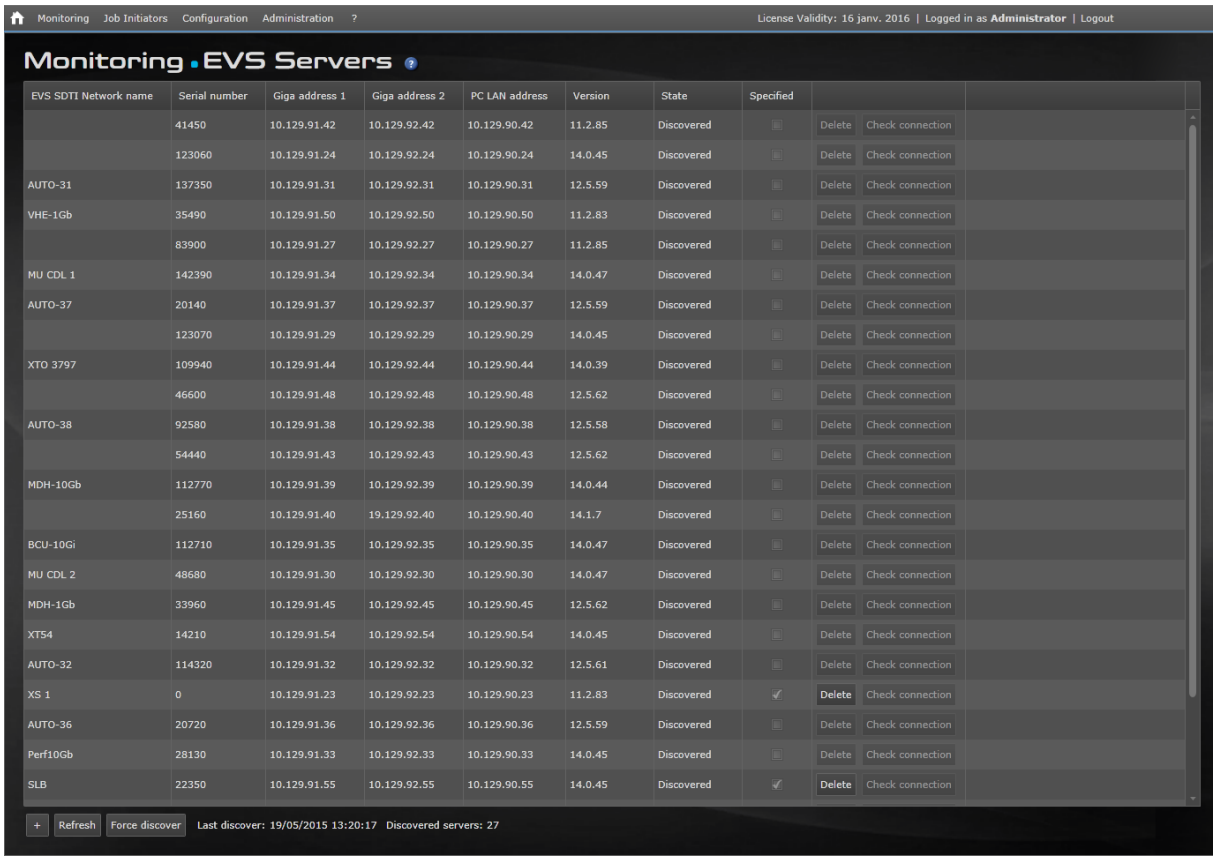
The EVS Server Monitoring window displays the list of EVS servers:

- detected on the network (if located in the same VLAN as Xsquare) or
- added manually (if located in a different VLAN as Xsquare).

This EVS Server Monitoring window window allows you to:

- check that the EVS servers used as destination or source of a job have effectively been identified on the network;
- add manually an EVS server you need to work with and that is located in a different VLAN.

Note
The right to add and remove manually an EVS server is granted by default to the administrator role. Otherwise, it has to be assigned specifically.



Field Description

The table below describes the various fields of the EVS Servers window, from left to right:

Part	Name	Description
1.	EVS Server Name	Name of the EVS Server in the SDTI network. This corresponds to the **Net Name** field displayed in the Server Monitoring page on the EVS Server (SHIFT+F5).
2.	Serial Number	Serial number of the EVS Server. The EVS Server serial number is displayed in the Server Monitoring page on the EVS Server (SHIFT+F5).
3.	Giga address 1	First gigabit IP address of the EVS server. This is defined in the EVS Configuration window, in the Network tab.
4.	Giga address 2	Second gigabit IP address of the EVS server. This is defined in the EVS Configuration window, in the Network tab.
5.	MTPC address	IP Address of the PC LAN of the EVS server. This is defined in the EVS Configuration window, in the Server tab.
6.	Version	Multicam version active on the EVS server
7.	State	Connection status between the EVS server and Xsquare. The following statuses are possible: • **Discovered:** Xsquare has discovered the EVS server but is has not received a job with a source from this XT. • **Discovered / Connected:** Xsquare has received one job with a source from this EVS server (discovered automatically) and has validated the connection. • **Discovered / Not Connected:** Xsquare has received one job with a source from this EVS server (discovered automatically) but the LinX connection has been lost. • **Reachable:** Xsquare has been abled to check the connection with the EVS server, and identified its Multicam version. • **Not Reachable:** Xsquare has not been abled to check the connection with the EVS server. You need to check the server PC LAN. • **Reachable / Connected:** Xsquare has received one job with a source from this EVS server (added manually) and has validated the connection. • **Reachable / Not Connected:** Xsquare has received one job with a source from this EVS server (added manually) but the LinX connection has been lost.
8.	Specified	• Check box unselected if the EVS server has been automatically discovered • Check box selected if the EVS server has been manually added.

Part	Name	Description
9.	Delete	Button to remove an EVS server that has been manually added to the list. It is not available on EVS servers detected automatically.
	Check connection	Button to force an update of the connection with an EVS server added manually when the configuration of the EVS server has been modified.

Status Bar

Every five minutes, Xsquare searches for new EVS servers on the network through the PC LAN connection. The discovered EVS servers are then added to the grid.

The status bar at the bottom of the EVS Server Monitoring window displays the following information on the EVS Server discovery (from left to right):

GUI Element	Description
+	Button to add an EVS server manually when it does not belong to the same VLAN as Xsquare
Refresh	Button to force a refresh of the data displayed on the EVS Server Monitoring window
Force discover	Button to force the discover process without waiting for the next automatic discovery
Last discover	Date and time of the last discovery process
Discovered servers	Number of EVS servers discovered on the network

6.2.2. Managing Monitored EVS Servers

Introduction

This section describes all actions you can perform from the EVS Server Monitoring window:

- Refreshing the information on the monitoring window;
- Triggering manually the automatic discovery process;
- Adding manually an EVS server;
- Removing from the Monitoring window an EVS server added manually.

How to Refresh the Monitoring Information

Click Refresh at the bottom of the monitoring window to refresh the data displayed on the EVS Servers Monitoring window.

How to Trigger Manually the Discovery Process

If EVS servers have been added in the same VLAN as Xsquare, and you want to monitor them in Xsquare without delay, click Force discover to trigger manually the EVS server discovery process.

The discovery process will only discover EVS servers in the same VLAN as Xsquare.

How to Add an EVS Server Manually

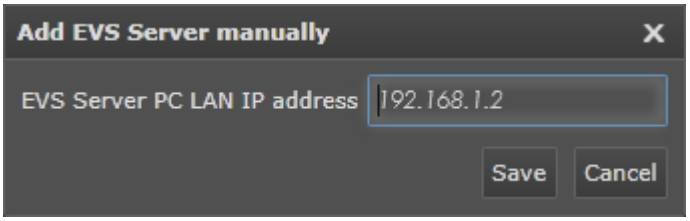
You can work with EVS servers which are not in the same VLAN as Xsquare. To be able to monitor them in Xsquare, you need to add them manually to the EVS Server Monitoring window, as they will not be discovered via the automatic discovery process.

You can also manually add an EVS server in the same VLAN. This will also allow you to remove it afterwards from the monitoring window.

To add an EVS server manually, proceed as follows:

1. In the EVS Server monitoring window, click + at the bottom of the window.

   The dialog box Add EVS Server Manually opens:



2. Type the PC LAN IP Address of the EVS server, and click **Save**.

The EVS server is added to the list. The **Delete** and **Check Connection** buttons are available:

How to Refresh the Data of an EVS Server Added Manually

When an EVS server has been added manually in the EVS Server Monitoring window, you need to refresh the connection status if you change the server configuration (name, IP address, etc.).

Click Check connection to refresh the connection status and data of an EVS server added manually.

How to Remove the EVS Server from the List

If an EVS server has been added manually to the EVS Server Monitoring window in Xsquare, you can remove it from the monitoring list by clicking Delete.

Glossary

G

group
A group of users. A user can belong to one or more groups.

R

role
A set of rights to perform actions or view content in Xsquare. One role has to be assigned to a user.

S

scanFolder
A scanfolder consists in a folder that is scanned by an Xsquare service (ScanFolder service) to check for files to be processed. The folder is scanned when it is defined in an active (started) ScanFolder in Xsquare. When a file with the file extension defined in the ScanFolder configuration is dropped into the scanned folder, the ScanFolder service creates a job to process this source file as defined in the job template. Once the file is processed, it is sent to the destination defined in the job.

scanXML
A ScanXML instruction consists in an XML job definition file (V1 job) stored in a dedicated folder by a client application. The folder is scanned by the ScanXML service of Xsquare when it is defined in an active (started) ScanXML. When the client application drops the XML job file in the scanned folder, the ScanXML service creates a job to process the source file as defined in the job template. When no job template is associated to the ScanXML definition in Xsquare, the instructions contained in the XML job file are taken into account. Otherwise, the instructions are merged based on specific merge rules.

T

target
A target is a destination that the users in the client application can send a source material to. The source material can undergo processing before being sent to the destination. The targets use the Soap V2 jobs.

X

XML job
Job processed by the former interface, which uses XML job definition files. For this reason, these jobs are called XML file jobs (or XML File V1 jobs). Xsquare can control the XML file jobs through the ScanXML service, available in Xsquare as a job initiator. Xsquare therefore remains compatible with the old XTAccess ScanXML feature.

Xsquare job

Job processed by the new interface, which uses the soap protocol. For this reason, such jobs are also called Soap V2 jobs. The Targets, a job initiator you can define in Xsquare, use Xsquare jobs.

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