User's Manual

Version 1.0 - October 2010





Jobs Processing Monitoring Tool



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1. Introduction

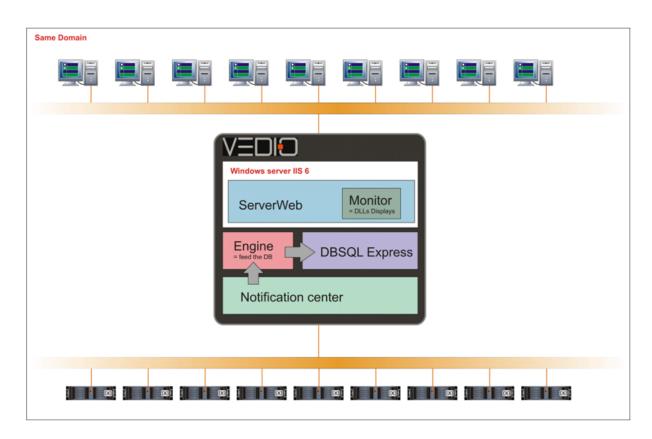
1.1 PURPOSE

VEDIO is a tool designed to centrally monitor all the operations processed by the XTAccess from a production broadcast workflow. Various filters can be applied to restrict the list of operations displayed on screen.

It allows to

- view the number of jobs according to their processing status
- filter and sort the jobs according to their processing status
- filter and sort the jobs according to various job parameters
- filter jobs according to the processor device
- memorize the applied filters and general configuration of the grid.

1.2 VEDIO ARCHITECTURE



The XTAccess send information on the jobs they processed to a Notification Center. This Center communicates with an Engine which feeds the database. The web server can be accessed by several browsers to display the job parameters.

2. Software Installation

2.1 SYSTEM PREREQUISITES

The VEDIO software is installed on a workstation operating under Windows Server.

The following components must be present:

- .NET Framework 3.5 SP1
- IIS 6
- SQL Server Express 2005.

2.2 RECOMMENDED CONFIGURATIONS

The following configurations have been submitted to intensive tests and are strongly recommended for the use of VEDIO:

- XTA 1 = 1U mono-CPU Core i7 3Go RAM RAID1 system
 OS = WIN XP or SERVER 2003
- XTA 2 = 1U Bi-CPU Xeon 6Go RAM RAID1 system
 OS = SERVER 2003
- XTA 3 = 3U mono-CPU Core i7 3Go RAM with swappable Hard Disk Drive
 OS = WIN XP or SERVER 2003
- DB SERVER = 3 U Intel Xeon X3220 2.4Ghz 2Go RAM HDD SAS 146Gb
 OS = SERVER 2003 and SQL 2005 already installed
- XSTORE 2 = 5U SUPERMICRO H8DA2 QUADCORE OPTERON 2.3GHZ 4Go RAM
 - OS = SERVER 2003 and SQL 2005 already installed

2.3 RECOMMENDED WEB BROWSERS

The following web browsers and corresponding versions are recommended:

- Internet Explorer 8
- Firefox 3.0+
- Google Chrome 5.0+

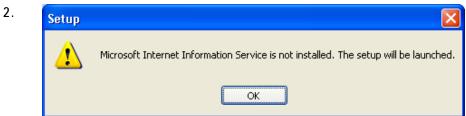
2.4 INSTALLATION

Copy the installshield Vedio_x.xx.xx_Setup.exe in a temp directory (e.g. C:\Install Software\VEDIO\).

2.4.1 IIS AND SQL SERVER INSTALLATION

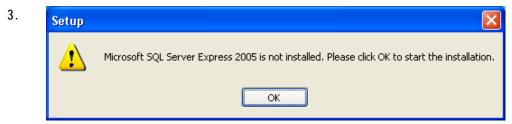
In case you try to install VEDIO while IIS and SQL Server are not present, you will have to install them first.





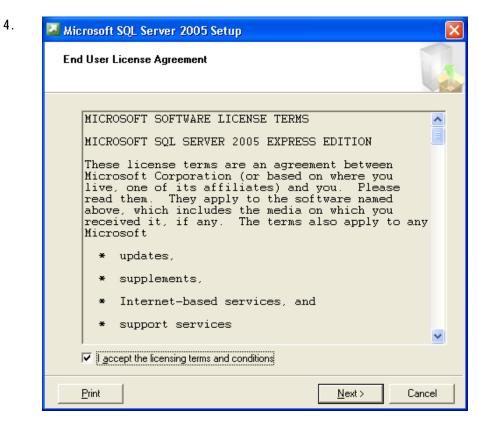
Click OK.

The Windows Components Wizard is displayed while files are copied.

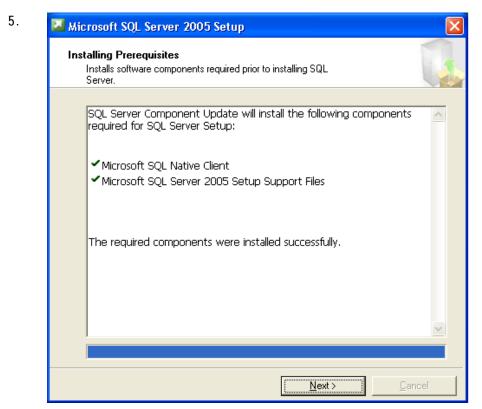


Click OK.

Files are extracted to install SQL Server.



Select I accept the licensing terms and conditions and click Next.



Click Install then Next.

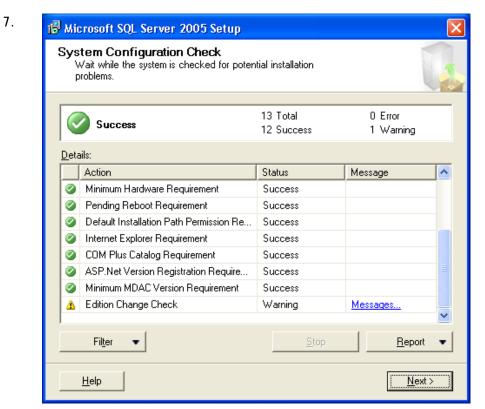
6.

Welcome to the Microsoft SQL Server Installation Wizard

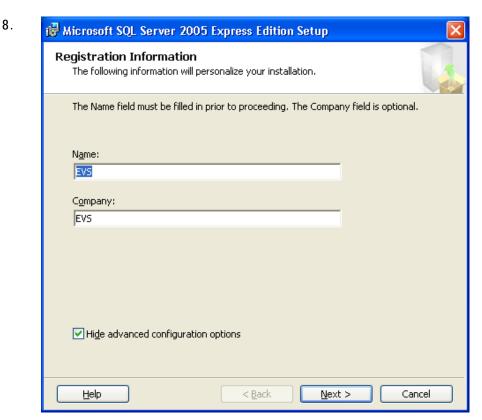
Setup will help you install, modify or remove Microsoft SQL Server. To continue, click Next.

∠ Back Next ➤ Cancel

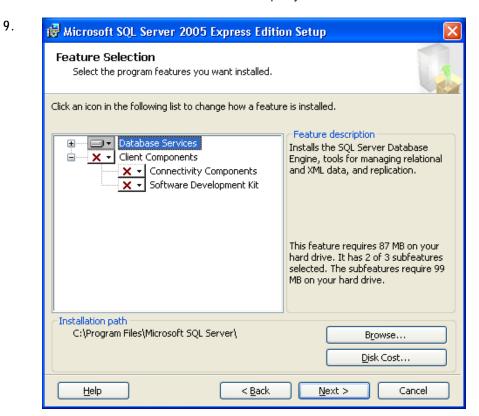
Click Next.



Click Next.



Enter information related to the company and click Next.



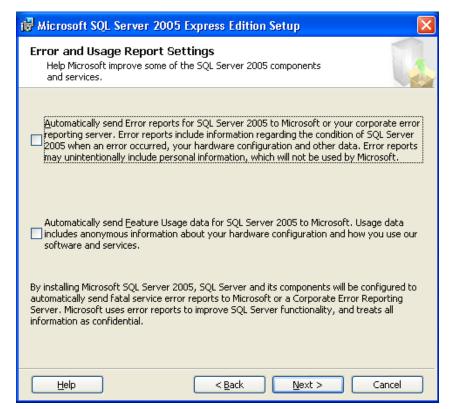
Browse to select the installation path and click Next.

10.

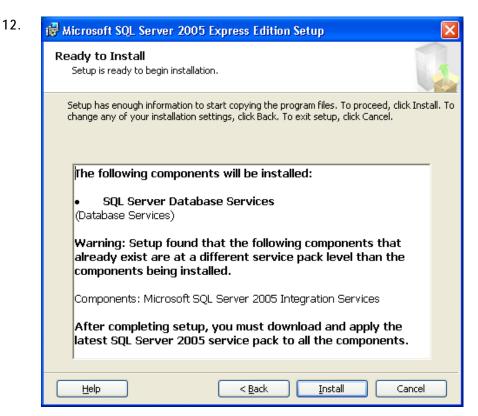
11.

🙀 Microsoft SQL Server 2005 Express Edition Setup **Authentication Mode** The authentication mode specifies the security used when connecting to SQL Server. Select the authentication mode to use for this installation. Windows Authentication Mode Mixed Mode (Windows Authentication and SQL Server Authentication) Specify the sa logon password below: Enter password: **** Confirm password: **** <u>H</u>elp < Back Next > Cancel

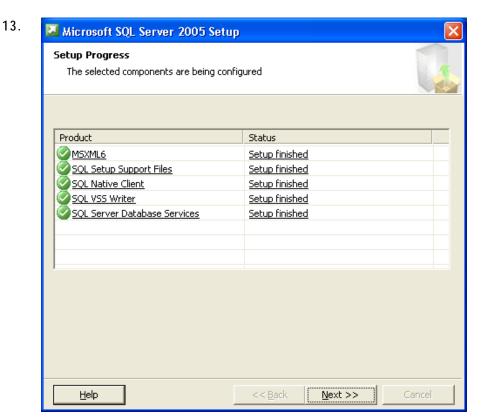
Enter a password for administration tasks and confirm it.



Click Next.



Click Install.



Click Next.

14.



Click Finish.

Potential Error Messages

Two kinds of error messages can be encountered during SQL installation.

1. If the following message is displayed, select Continue running and ignore errors with this snap-in for the rest of the session.

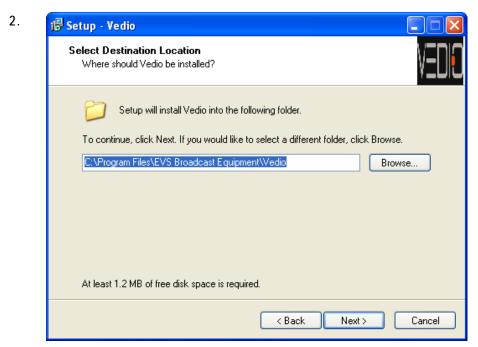


- 2. In case SQL Native Client has previously been installed on the workstation, the installer warms the user that a .msi file is missing. This message is incorrect since this file is present. To solve the problem, proceed as follows:
 - Stop the installation
 - o Go to the Add/Remove programs section of the Control Panel
 - Uninstall SQL
 - Restart VEDIO installation.

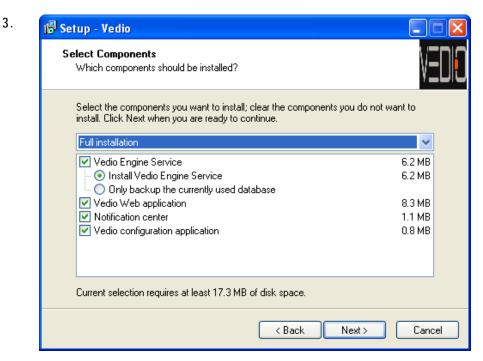
2.4.2 **VEDIO INSTALLATION**



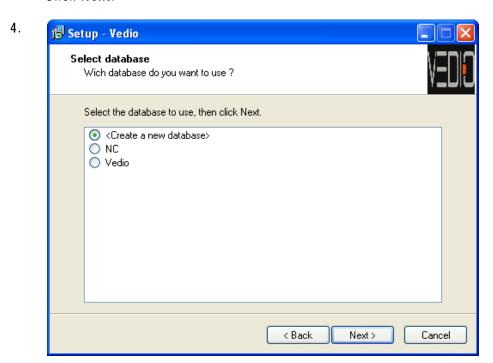
Click Next.



Browse for folder where to install VEDIO and click Next.



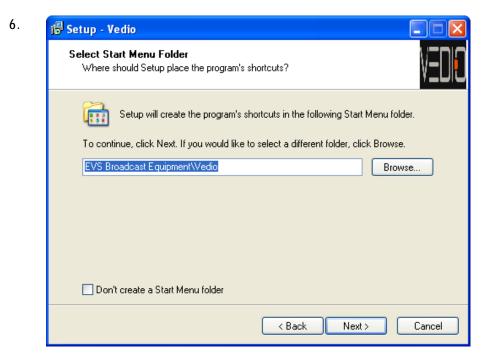
Click Next.



Click Next.



Enter a name for the database and click Next.



Click Next.

Ready to Install
Setup is now ready to begin installing Vedio on your computer.

Click Install to continue with the installation, or click Back if you want to review or change any settings.

Install Vedio Engine Service
Database Information:
Create new database: Vedio
Notification center
Vedio Web application

Destination location:
C:\Program Files\EVS Broadcast Equipment\Vedio

Click Install.



Click Finish.

All the associated services automatically launch, and the system is ready to use.

3. Database Maintenance

3.1 PURPOSE

In case of intensive use of VEDIO, the database used by VEDIO needs to be cleaned up. A tool allows this to be done automatically or manually.

The VEDIO database content can also be backed up.

This tool must be used by an administrator.

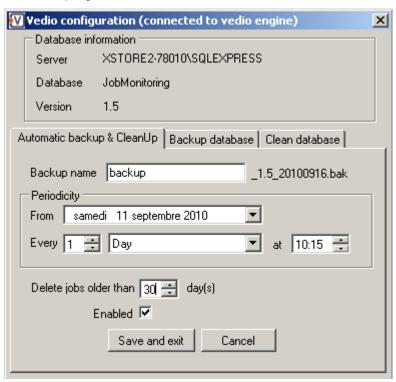
To open the VEDIO Configuration window, click the 🛂 icon.

Three tabs are available for

- automatic backup
- manual backup
- database cleanup

3.2 AUTOMATIC BACKUP

This tab is used to define parameters for automatic backup and automatic database purge.



Backup Name

The backup name is made up of a part you can define and a part based on the

backup date and automatically assigned.

Periodicity

You can define the date from which the automatic backup must take place, its periodicity and the time when it will be done.

Database Purge

Define the number of days beyond which the jobs information will be deleted from the VEDIO database.

Enabled

Select this parameter to activate the autobackup and purge processes.

Save and Exit

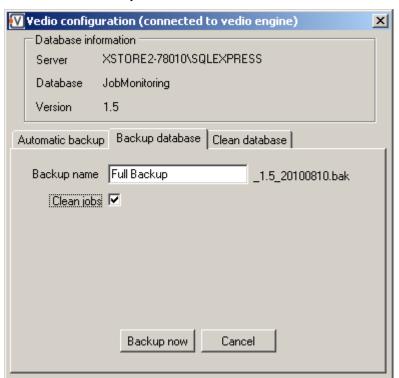
Click this button to save the parameters defined in the tab.

Cancel

Click this button if you do not want to activate the automatic backup.

3.3 BACKUP DATABASE

This tab is used to perform a manual backup and, if required, to clean the information from all jobs.



Backup Name

The backup name is made up of a part you can define and a part based on the backup date and automatically assigned.

Clean jobs

Select this box if you want the jobs information to be deleted from the VEDIO database.

Backup now

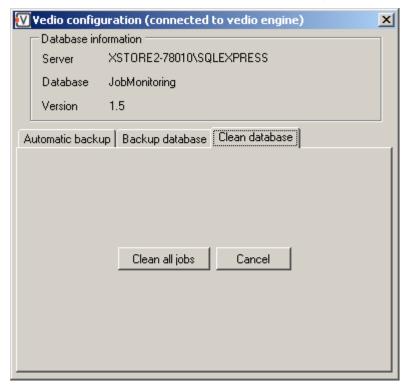
Click this button to start the manual backup and, if selected, to purge the database.

Cancel

Click this button if you do not want to perform the manual backup.

3.4 CLEAN DATABASE

This tab is used to clean the information from all jobs.



Clean all Jobs

Click this button to start the deletion of jobs information from the database.

Cancel

Click this button if you do not want to perform the database purge.

4. User's Manual

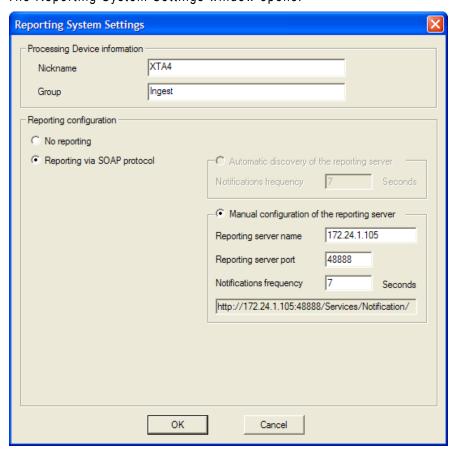
4.1 XTACCESS CONFIGURATION

To enable the communication between XTAccess and VEDIO, the reporting system of each XTAccess must have been activated.

Right-click on the XTAccess title bar and select Reporting System from the contextual menu:



The Reporting System Settings window opens:



This window allows you to activate the reporting system of XTAccess to Vedio.

Command name	Description
Nickname	Allows you to define a nickname for XTAccess
Group	Allows you to define a group to which XTAccess will belong in the Vedio user interface.
Reporting Server Name	Host name or IP Address of the Vedio Notification Server
Reporting Server Port	Port of the Vedio Notification Server
Notification Frequency	Duration between two notifications to Vedio

4.2 USER INTERFACE

To start VEDIO, enter 'VEDIO IP address/Vedio/' in the selected browser.



4.2.1 OVERVIEW OF THE VEDIO WINDOW

The screenshot below shows the various areas of the VEDIO window.



JOB PROCESSORS LIST

This area displays all the XTAccess present on the network provided that the reporting system of each XTAccess to VEDIO has been activated.

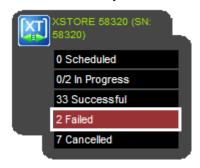
In case groups have been defined in this reporting system, XTAccess will appear under their respective group in the Job Processors List.

Each XTAccess box mentions the number of jobs

- Scheduled
- In progress. In X/Y, X is the number of jobs currently in progress and Y is the maximum number of jobs which can be processed at a time.
- Successful
- Failed
- Cancelled

Error Display

In case of failed jobs, 'Failed' is displayed on a red background.



In case of disconnection from the Notification Center, the whole XTAccess box is displayed in red:



Filters

The Job Processors area can be used to filter the jobs listed in the VEDIO Grid. Refer to section 'Filters on Processors List' on page 32.

STATUS AREA

The Status area gives indication on the status of processors loading.

Information related to connection to the database and to the Notification Center as well as potential errors is displayed in this area.

JOBS GRID

The grid displays parameters and values for jobs in a General tab.

The columns displayed in the grid can be selected, organized and resized. Refer to section 4.3 'Grid Display' on page 23.

Different kinds of filters can be applied to restrict the job list, based on the job status, a period of time and/or a specific parameter. Quick Filters buttons are available but additional tabs corresponding to a specific filter can also be defined. Refer to section 4.4 'Filters' on page 29.

CONNECTION STATUS

The icon displayed at the top right of the grid gives information on the connection status:

Icon	Meaning	
🖵 (green)	Vedio is connected to the engine service.	
== (orange)	Vedio is not connected to the engine service.	
red)	Vedio is connected to the engine service but the service is not connected to the notification center.	
	or	
	Vedio is connected to the engine service but the service is not connected to the jobs database.	

4.2.2 **SETTINGS**

The Settings window is reached by clicking the Settings button at the top right of the VEDIO window.



Jobs per Page

This value defines the number of lines displayed in the grid.

If the number of jobs per page is greater than the numbers of jobs which can be displayed on screen, a vertical scroll bar allows to navigate within the list.

When the jobs number is greater than the selected value, you can move from one page to another

- by entering a page number in the Page field or
- by using the First Page, Previous Page, Next Page or Last Page buttons at the bottom of the grid:



Delay Alert XTA (min.)

This value represents limit of time, in minutes, to alert users in case of disconnection of an XTAccess.

Delay Jobs Auto Refresh (sec.)

This value represents the period of time, in seconds, to execute the Auto Refresh function when it is activated.

The Auto-Refresh is enabled or disabled by clicking the Auto Refresh button at the top right of the grid. By default, it is activated and the button is then green:



Show Dates and Times in GMT

When this box is not selected, dates and times from the PC are associated to jobs.

When the bow is selected, GMT dates and times from the XTAccess are taken into account.

4.3 GRID DISPLAY

The jobs list is displayed in a grid. The various job parameters are presented in columns. Users can select the columns to be displayed. They can also resize the width or reorganize the column order.

The organization of the columns is recalled the next time the user opens VEDIO.

At each time, the grid display can be reset to the default one by clicking the Reset Default button at the bottom of the grid:

Reset default



Note

Cookies must be activated in the browsers so the system remembers the grid layout.

4.3.1 COLUMN ORDER AND WIDTH

A column can be moved by a drag-and-drop operation of its heading.

It can be resized by a drag-and-drop operation of its border.

4.3.2 COLUMNS SELECTION

AVAILABLE COLUMNS

The table below lists all the columns which can be displayed in the grid, their description and the columns displayed by default.

Column Heading	Description	Default
Processing Device	XTAccess name, version number and serial number.	\checkmark
XML Unit	Name of the XML unit used to process the job.	$\sqrt{}$
XML Unit Path	Path of XML folder.	
Source Type	Element type to be processed. Possible values: clip, file, graphical sequence, playlist, timeline, train.	$\sqrt{}$
Source Name	Name of the element to be processed.	
Status	Job processing status. Possible values: Canceled, failed, In Progress, Scheduled, Successful.	$\sqrt{}$
Message Code	Code number associated to a type of message.	

Default Column Heading Description Message Generic message related to the job processing status. A double-click on the message opens a Status Info window which displays more information in case of failed jobs. Example: STATUS INFO Message description For backup / rewraps job, writing a block of data to a file failed. For restore / copy jobs, writing a block of data to a clip on XT failed For backup / rewraps job, check there's enough free disk space on the destination folder. Check the XT has not been rebooted with codec change within this clip. For restore / copy jobs, check the capacity available on XT Extra info Resolve XT Clip Name FAILED!: ftp://evs:evs!@172.22.51.8 /Seq/000710A_!pVXXIIB_!pVXXIIB .CLP JPEGWriter::Initialized FAILED! Target Type Type of the target defined for the job processing. Possible values: AVI, CleanEdit Ref, DV-Diff, EDL, EVS MXF, EVS MXF 2MB, EVS MXF 2MB BAVD, EVS MXF 8MB BAVD, JPEG, MP4, MPEG Elementary Streams, MPEG Program Stream, MPEG Transport Stream, MXF OP1A (Standard SMPTE), MXF OP1A XDCAM, MXF OPAtom AVID, MXF? P2, Quick Time Movie, Quick Time Reference, Raw DV, WAVE, Windows Media, XT, XT FTP. Target Name Name of the target defined for the job processing. Destination Physical destination of the job processing result. $\sqrt{}$ According to Target Type, it could be: Full LSM ID including IP address / Full LSM ID including NetName / TM name / Full File Path. Job Type Code Code number associated to a type of job. Job Type Type of job processed by XTAccess. Possible values: Avid, Backup, BackupPlst, Cancel, Delete, GrabField, PlstRender, Restore, Rewrap, Transcode, Transfer, Update.

Column Heading

Description

Default

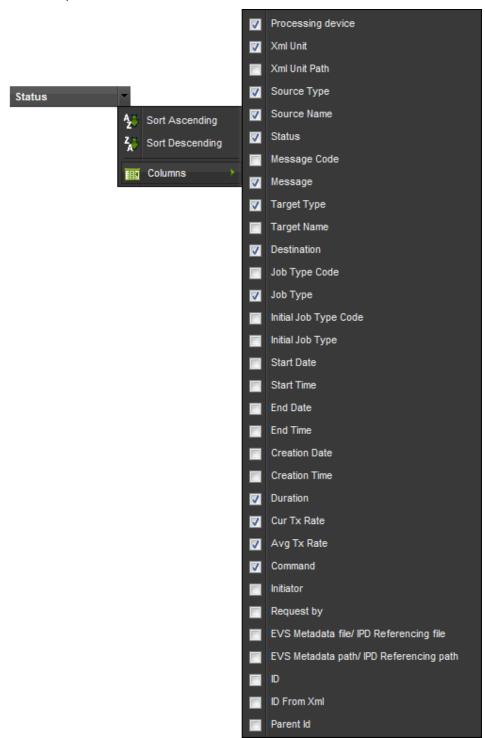
	Description	Derautt
Initial Job Type Code	Code number associated to an initial job type.	
Initial Job Type	Type of job requested to XTAccess. Possible values:	
	Backup Clip from XT to file Backup EDL from XT and/or files to several files (cut) Backup Train from XT to file Cancel Job Copy Clip from file to XT Delete Clip from XT Delete File Grab Field from XT to File Graphical sequence Partial Transfer Clip from XT to Avid Partial Transfer from file to Avid Partial Transfer from file to file Render EDL from XT and/or files to a flatten XT Clip Restore Clip from XT and/or files to a flatten XT Clip Restore Clip from file to XT Short XT Copy Clip from XT to file Short Copy Clip from XT to Avid Transcode Transfer Clip from XT to Avid Transfer from file to file Update Backup Train XT Copy from XT to XT	
Start Date	Date at which the job was initiated.	
Start Time	Time at which the job was initiated.	
End Date	Date at which the job ended.	
End Time	Time at which the job ended.	
Creation Date	Date at which the job was requested. This is the only date displayed for Scheduled jobs.	

Description	Default
Time at which the job was requested. This is the only time displayed for Scheduled jobs.	
Duration of the job processing.	
Instantaneous bit rate during job processing. (MB/sec)	√
Average bit rate to process the job (MB/sec).	
Way the job is initiated.	_
Possible values: Manual, ScanFolder, XML.	
Identification of the requestor of the job, such as IPD, XTA or third parties.	
Filename of the EVS metadata file.	
Folder where the EVS metadata file has been stored.	
Job identification number given by VEDIO. Used for debug.	
Job identification number from the XML file. Used for debug.	
For jobs related to the backup of clips from a playlist, the Parent ID represents the job identification number for the playlist EDL.	
	Time at which the job was requested. This is the only time displayed for Scheduled jobs. Duration of the job processing. Instantaneous bit rate during job processing. (MB/sec) Average bit rate to process the job (MB/sec). Way the job is initiated. Possible values: Manual, ScanFolder, XML. Identification of the requestor of the job, such as IPD, XTA or third parties. Filename of the EVS metadata file. Folder where the EVS metadata file has been stored. Job identification number given by VEDIO. Used for debug. Job identification number from the XML file. Used for debug. For jobs related to the backup of clips from a playlist, the Parent ID represents the job

HOW TO SELECT COLUMNS TO DISPLAY

To select the columns you want to be displayed in the grid, proceed as follows:

Click the black arrow at the right of any column heading.
 A menu opens:



- 2. Select the box(es) corresponding to the columns.
- 3. Click outside the menu to apply the selection and close the menu.

4.3.3 RESULTS SORTING

You can change the sort order of data in a column.

1. Click the black arrow at the right of any column heading to open the following menu:



2. Select Sort Ascending or Sort Descending from the menu.

A little white triangle indicates the sorting order:



3. Clicking the column heading again changes the sorting order from ascending to descending or vice versa:



4.3.4 GRID DISPLAY REFRESH

The Refresh button , at the bottom of the grid, can be used at any time to refresh the grid display.

The Auto Refresh function can be enabled by clicking the top right of the grid. The jobs list will automatically be refreshed according to the period defined in the Settings > Delay Jobs Auto Refresh (sec.).

By default, the Auto Refresh function is enabled and the button appears on a green background:

Auto Refresh

In case the Last 24h filter, activated by default, is disabled, the Auto Refresh function is disabled as well.

4.4 FILTERS

The grid displays all parameters and values for jobs in a General tab.

Different kinds of filters can be applied to restrict the job list, based on the job status, a period of time and/or a specific job parameter.

Additional tabs, corresponding to specific search criteria or to a selected processor, can also be defined and kept to easily apply a filter on the jobs list.



Note

Cookies must be activated in the browsers so the system remembers the defined tabs.

4.4.1 GENERAL TAB

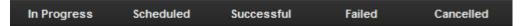
By default, all the jobs for all the processors monitored by VEDIO are displayed in a General tab.

In this tab, the following types of filters can be applied, or a combination of them:

- Quick filter on job status
- Quick filter on jobs from last day or last hour
- Filter on any job parameter from the column headings.

QUICK FILTERS

Filters on Job Status



Five quick filter buttons allow to filter the jobs list on the job processing status. When a filter is enabled, the button appears on a green background:



Filters on Creation Time

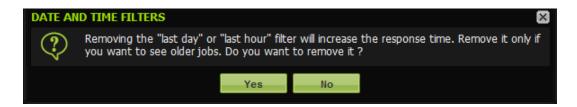


Two quick filter buttons allow to filter the jobs created during

- the last 24 hours
- the last hour:

By default, the Last 24-h button is activated.

Jobs processed within the last 24 hours are stored in the cache. Beyond that, data are stored in the database. So, if you deactivate both the Last 24-h and the Last Hour filters, the following message warns you that the response time could be increased.



Show Grabfield

To avoid overloading the jobs list due to the number of thumbnails which can be generated by some applications, jobs corresponding to the generation of grabfield are not displayed by default in the grid. To display these jobs, click the Show Grabfield button over the grid.

Show Grabfield

When this function is enabled, the button appears on a green background.

By default, it is disabled.

Remove Quick Filter

To clear a filter applied with a quick filter button, click the quick filter button again. The Clear Filters button has no effect on quick filter buttons.

FILTERS ON COLUMN HEADING VALUE

More detailed search operations can be performed on the various job parameters. They allow searches in a specific column.

How to Define a Search Criterion on a Job Parameter

1. The search fields are available from any column by clicking the small black arrow at the right of the cell just under the column heading:



According to the job parameter, different types of search fields can appear. Refer to section 'Search Fields Types' on page 31 for the list of search fields.

- 2. Enter your search criterion/a.
- 3. Click outside the menu to apply the selection and close the menu.

Once defined, the search criterion is displayed in green in the field and the column heading is italicized:



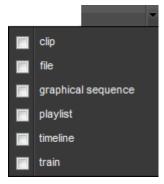
Search Fields Types

According to the job parameter, different types of search fields exist:

• free text field, e.g. Source Name field:

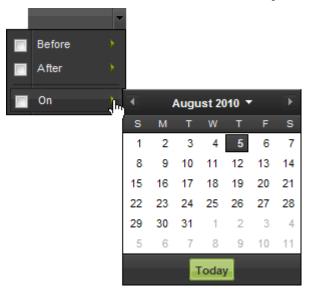


• field with an option list, e.g. Source Type field:



Refer to section 'Available Columns' on page 23 for the list of possible values for each job parameter.

field with a calendar to filter on a date, e.g. Start Date field.



A combination of several date criteria is possible.

field where you can enter a time value, e.g. Start Time field.



A combination of several time criteria is possible.

Clear Filters Defined from Column Headings

The Clear Filters button located at the bottom of the grid removes the filters defined on column heading values, it does not act on the guick filter buttons.

COMBINATION OF FILTERS

Several search criteria can be applied at the same time, for example:

- several quick filters: processing status and/or creation time (last 24h/last h)
- quick filter and filter on column heading
- several filters on column heading

4.4.2 ADDITIONAL TABS

Users can create up to 10 tabs corresponding to specific search filters. So, they have a quick access to customized jobs list.

New tabs are created in one of the following ways:

- by filtering jobs from the processors list
- by saving, in a new grid, a filter you have just defined.

FILTERS ON PROCESSORS LIST

You can restrict the jobs listed in the VEDIO window by applying filters from the Processors List. The jobs list is then displayed in a new tab.

The jobs can be filtered on...

by double-clicking on...

a processing status from one processor a selected processing status in a processor box:



A new tab is automatically created in the grid:



The jobs can be filtered on...

by double-clicking on...

an XTAccess

a selected XTAccess box:



A new tab is automatically created in the grid, listing all the jobs processed by an XTAccess:



a group of XTAccess

A selected group of XTAccess:



A new tab is automatically created in the grid, listing all the jobs processed by all the XTAccess from the group:



New tabs will be kept if you close and re-open VEDIO. However, they can be closed by clicking the small cross next to their name.



Important

You are allowed to apply an additional filter on a job parameter to the list. This filter will remain active in the tab in case you close and open VEDIO. So do not assume that the list displayed in the grid corresponds to the filter mentioned in the tab name and keep in mind that a filter may be enabled on a column heading.

CUSTOMIZED FILTER TAB

Once you have defined filters and search terms, you may want to save them for later use. To do so, proceed as follows:

1. Define your search criteria. This can be a combination of filters, as explained in section 'Combination of Filters' on page 32.

For example, press the Successful quick filter button and select Avid from the Job Type options list.

2. Click the New Grid button at the bottom of the grid:



The New Grid Name window opens:



3. Enter a name for the new tab.

In the example, you can enter 'Successful to Avid'.

4. Click OK.

A new tab entitled as the chosen name appears and list the jobs corresponding to the search criteria selected in step 1.



Important

There is no automatic link between the selected search criteria and the created grid. So, if you modify the search criteria previously saved in a new grid, VEDIO will recall the last selected filter(s), not those defined at the grid creation.

If you clear all the filters defined, you will obtain the same complete list as in the General tab.

Regional Contacts

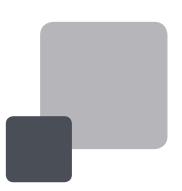
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