

TECHNICAL REFERENCE



IPDirector Remote Installer Version 8.06 December 2024

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User Manuals on EVS Website

The latest version of the user manual and other EVS product documentation can be found on the EVS documentation portal. The documentation portal can be accessed through the VIA Portal on the following webpage: <u>https://viaportal.evs.com/</u>.

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ICONOGRAPHY



What's New?

In the Technical Reference, the icon **NEW!** has been added next to the text to highlight information on new and updated features.

The sections updated to reflect the new and modified features in the Remote Installer manual of IPDirector version 8.06 are listed below.

Workgroup configuration

IPLogger Export Configuration

A new parameter allows you to exclude the link to the media and the recorder trains in the xml file of the automatically exported logsheet.

• See section "IP Logger Export Configuration" on page 141.

SQL compatibility level

The compatibility level of the SQL Engine is shown when configuring the database.

• See section "Configuring the Database" on page 35.

1. Introduction

The Remote Installer allows you to install IPDirector applications and configure all IPDirector workstations on the network from any IPDirector workstation.

The Remote Installer is made of a service and a configuration application.

The service automatically starts with Windows at workstation startup. The green icon P on the Windows taskbar shows that it is working.

The configuration application (the GUI), can be run from the Windows taskbar.

It allows any administrator to remotely manage (configure, start, stop...) all IPDirector workstations on the network. It requires Windows admin rights and IPDirector admin rights.

It can only be run on one workstation at a time for editing. It can also be run in a Read Only mode, which allows the administrator to open the Remote Installer on several workstations at a time.



2. Getting Started

2.1. Starting the Remote Installer Application

Remote Installer Start Modes

The Remote Installer can be opened in an Edit mode or in a Read-only mode.

The Edit mode can only be run on one workstation at one time.

The <u>Read-only mode</u> allows the administrator to open the Remote Installer on several workstations at a time. It gives a limited access: the settings cannot be edited, only viewed.

A \forall icon on the Windows taskbar indicates that the Remote Installer is already open on a workstation of the network.

How to Open the Remote Installer

To open the Remote Installer on a machine,

- 1. Right-click the 💙 icon from the Windows taskbar.
- 2. Select **Open Configurator** from the menu.
 - The workstation may be integrated into an Active Directory domain. In this case, the Remote Installer will automatically open without requesting additional access codes when the user starts it.

The user groups the user belongs to in the Windows domain is linked to a profile in the User Manager. This determines the set of user rights and user settings the user will have in the application. See the User Manager Technical Reference for more information.

• If the workstation is not integrated into an Active Directory domain, a login screen will open where you have to enter your access codes. Go to next step 3.

Login		_	×
IP Director Rei	mote Installer		≡∨s
Windows authentic	cation		
IP Director authent	ication		
Login:			
Password:			
	📃 Read Only		
		Ok	Cancel

This parameter is set in Configure > General. See section "General Parameters Configuration" on page 59.

If you are the administrator and if you log on for the first time, you must use the following login

3. Enter a login and password.

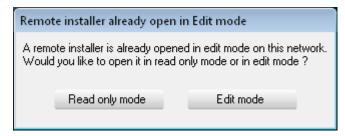
Note for the administrator

Login: administrator

Password: evs

and password (case sensitive):

- 4. (optional) Select **Read Only** to open an instance of the Remote Installer in Read-only mode. This avoids closing a Remote Installer which would already be opened in Edit mode on the network. The Remote Installer opened in Read Only mode gives a limited access. The settings cannot be edited, only viewed.
- 5. Click OK.
- 6. If you did not select **Read Only** while the User Manager is already open on another workstation, a warning message is displayed:





- Click the **Read Only mode** button to open the Remote Installer in Read-only mode.
- Click the **Edit mode** button to close the distant Remote Installer and open the Remote Installer in Edit mode on the current workstation.



The user currently logged on the distant workstation will not be informed.

The Remote Installer icon on the Windows taskbar turns to $\overline{\mathbb{V}}$.

Once started, you can see all the workstations belonging to the network. See section "Overview of the Remote Installer Window" on page 8 for a description of the window areas.

2.2. Making Checks and Solving Issues

Prerequisites

Multiple Network Interfaces

If several network interfaces are connected on the workstation, an IP address must be chosen in order to start the Remote Installer.

Choose Network Interface	
(1.1.180.30] •
	Ok

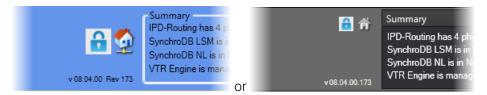
Ethernet Frame Size

In order to work properly, all IPDirector workstations connected to the network must be set to **the same Ethernet frame size**.

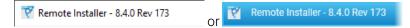
It is recommended to work with standard Ethernet frames (MTU 1500) or Jumbo Ethernet frames (MTU 9000). **Avoid mixing the two sizes.**

Remote Installer Version

On each workstation line, the Remote Installer version number is displayed. As an example:



This information is useful to check if all workstations have the right version of Remote Installer. This version number should correspond to the version number info shown in the upper left corner of the application. As an example:



Solving Potential Issues

No Valid Database has been Restored

If no valid database has been restored, the administrator/evs login/password will not work.

The Database cannot be Reached

If the database cannot be reached due to a network problem or the local database is stopped, the administrator/evs login/password may not work.

Workstation not Connected anymore to the Database

If your workstation is not connected anymore to the last used database, this message is displayed:

Databa	Database server not responding X				
<u>^</u>			n 1.1.64.50 is ange the data	not available. base settings ?	
		Yes	No	Cancel	

Click **Yes**, to open the Database Configuration window.

See section "Setting the Database Information" on page 45 for more information.

Ø

All IPDirector workstations have their own database. In Standalone mode, specify the computer name or the IP address of your workstation.

If you have no Ethernet activity on any network adapter, restart your workstation. The Remote Installer will automatically point to the IP address 127.0.0.1 (which is the Windows default local host address).



Wrong Version of the Database

The **Database** button is orange when a wrong version of database is detected within the workgroup.

• If all workstation were fresh installed, the default value for the database setting is 127.0.0.1 (local host IP address). This address cannot be kept as a valid workgroup database address if the workgroup contains more than one workstation. Only one database on one workstation must be chosen for the workgroup.

Wrong DB version on 127.0.0.1

See section "Configuring the Database" on page 35.

• If the database version is not compatible with the installed IPDirector version, the IP address if the DB server is written on the button. The database version must be upgraded.

Wrong DB version on 10.129.59.41 (example of IP address)

See section "Upgrading the Database" on page 40.

Database Conflict

The **Database** button is red when there is a database conflict within the workgroup:

Database conflict on this WorkGroup

See section "Resolving a Database Conflict" on page 35.

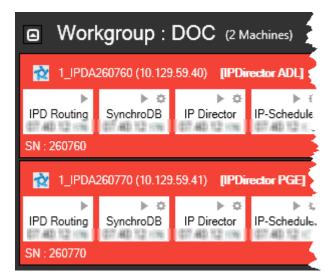
Workstations Network Number Conflict

If several machines have the same network number, a conflict is detected by the Remote Installer.

In this case the background color of theses workstations turns red.

- Workgroup : DOC (2 Machines)			
🙀 1_IPDA	260760 (10.129	.59.40) [IPD i	rector ADL]
IPD Routing SynchroDB IP Director IP-Schedule Rev 176 Rev 176 Rev 176 Rev 176			
SN : 260760			
1_IPDA260770 (10.129.59.41) [IPDirector PGE]			
IPD Routing Rev 176	SynchroDB Rev 176	IP Director Rev 176	IP-Schedule. Rev 176
SN : 260770			

or



On the Status bar, at the lower right corner of the window, the NumUser status is red as well.

NumUser

See section "Setting Network Information for the Workstation " on page 46.

Workstation without a Valid Registered Serial Number

In case a workstation does not have a valid registered serial number, the background color of these workstation is red.



On the Status bar, at the lower right corner of the window, the **Serial Number** status is red also:

Serial Number

See section "Configuring Serial Number" on page 51.



3. Touring the Remote Installer User Interface

3.1. Overview of the Remote Installer Window

The Remote Installer window can be presented according to two themes selected from the File menu. It contains the areas highlighted on the following screenshots.

Dark Theme



The Dark theme is available from version 7.40. However, all the screenshots of the current manual do not show both themes. Only the major differences are presented in the relevant sections.

Classic Theme



From version 7.00, elements of the main window have been reorganized and redesigned. The above screenshot is up-to-date. However, some screenshots in the current manual may still present the previous layout.

Menu Bar (1)

The Menu bar provides a series of buttons and menus options related to Remote Installer exit, restart, and refresh, to specific information display, and to IPBrowse configuration.

See section "Menu Bar" on page 11 and section "Configuring IPBrowse" on page 252.

Workgroup (2)

A workgroup is the association of a series of workstations on the network. A workgroup is represented by a yellow area.

a. Workgroup name and number of workstations in the workgroup.

A contextual menu is available by right-clicking this area. See section "Workgroup" on page 13.

b. Workgroup toolbar:

This area provides a series of buttons to perform actions on the whole workgroup: installing version, starting and stopping applications, configuring the workgroup, launching plugins, managing the database and the ATS database, managing the Indexing Service.

It gives indication on the compatibility between the Multicam versions on the different EVS video servers.

See section "Workgroup" on page 13.

Workstation (3)

Each workstation on the network is represented by a separate line.

The background color of each line gives indication on the workstation status. See section "Workstation" on page 18.

A contextual menu is available by right-clicking the workstation colored area. See section "Workstation" on page 18.

- a. Workstation Type icon representing the workstation type: IPDirector 2, Storage , API Proxy
 Indexing Service , Other . The type is chosen from a contextual menu, available by right-clicking the icon.
- b. Workstation information: computer name, IP address and an optional description.
- c. Workstation services:

Each service is represented by a square. See section "Overview of the Workstation Services" on page 165.

Depending on the workstation type, the number of services varies.

A contextual menu is available by right-clicking each service. See section "Managing Services" on page 165.

The background color of each button gives an indication on its status and role.





In the MediaCeption Signature solution with VIA MAP as PAM Core, when the dedicated installer has been used and the communication with VIA MAP has been configured from the VIA MAP tab (see section "VIA MAP" on page 160), the workstation services appear as follows:



d. Summary: this area provides information about:

Number and type of serial ports configured

Working mode of SynchroDB to manage server(s), number and name of server(s).

Working mode of SynchroDB to manage directory(ies), number and name of directory(ies).

VTR devices managed by the VTR Engine service.

Drives managed by the IP Drive service.

When the **Show VIA UI Components Version** option is selected under the Tools menu, the Summary section of the Remote Installer is replaced by the list of the VIA UI components installed on each workstation, displaying their respective versions:



e. Remote Installer version number

f. Local Workstation icon:

This allows the user to easily locate the local workstation from the list.

g. XSecure icon:

This indicates that XSecure licenses have been installed on the workstation.

Number of machines in the network (4)

This area gives the number of workstations and the number of workgroup present on the network.

Status Bar (5)

The Status bar gives information on the status of some pieces of information by means of color codes.

3.2. Menu Bar

File

Opens a menu with the following options:

Theme

Gives the choice between a Classic theme and a Dark theme (default).

See section "Overview of the Remote Installer Window" on page 8 for an overview of the different themes and the different sections of the manual for a description of the user interface elements.

Exit

Exits the Remote Installer.

Change Network Interface

Used to specify the network interface connected with the database and the other workstations.

Choose Network Interface	
(1.1.180.30] •
	Ok

Select the IP address corresponding to the right interface if you forgot to specify it after installing the Remote Installer setup.



This option appears only if several network interfaces are enabled and connected on the workstation.

In the event of WAN connections, this network interface can have an impact on functions.

Tools

The Tools menu provides the following options:



Monitoring Information

Displays Monitoring Information on each IPDirector workstation when the services (SynchroDB, IP-Routing) are started.

2_IPDA184120 (101201000) [PASC			
IPD-Routing Rev	SynchroDB Rev 144	IP-Director Rev	
SN : 184120 Pc : 0/0 - XT :0/0			

Show Software Player Version

Displays the Software Player version instead of the IPDirector version on the **IPDirector** service button.

Example for version 6.70:

2_IPDA184120 (1012010) [PASCAL			
IPD-Routing 06.70.03 Rev 148	SynchroDB 06.70.03 Rev 148	IP-Director 3.4.15 Rev 159	IP-S 06.7 Rev
SN : 184120			

Show Filters

Displays a Filter area under the Menu bar from which you can filter the workstations based on

- a criteria entered in a Filter field
- machines to be restarted
- errors or conflicts
- started services



Show VIA UI Components Version

Displays the version of each VIA component instead of the Summary area for each workstation.

Example:

VIA MAP UI components version		
VIA Ingest : ^7.1.11	VIA Import : 10.4.0	
VIA Record : ^8.1.1	VIA Trace : ^6.1.0	
VIA Browse : ^3.79.7	VIA Player : ^19.0.0	

Restart All Remote Installer

Used to send a restart command to the of each workstation.

Refresh

Used to refresh the listed workstations detected by the . Refresh is automatically done with a time out.

Open IPBrowse Configurator

Launches a configuration tool which is designed to define some settings for the IPBrowse clients.

See section "Configuring IPBrowse" on page 252.

3.3. Workgroup

Workgroup Contextual Menu

A contextual menu is available when you right-click the Workgroup name.

Rename WorkGroup

Used to edit the name of the workgroup or to select another existing name. All workstations inside the current workgroup will be affected.



It is recommended to change the Workgroup name. This avoids auto-deployment of the Remote Installer when plugging new stations on a existing setup.

• To rename a workgroup:

Global		
ПК	Cancel	
	00.000	
	Global OK	

Enter the new name and click **OK** to apply the modification. Wait a few second or click **Refresh** to display the new name inside the Remote Installer.

• To move the workstations of a workgroup into another workgroup:

If other workgroups exist, they are listed below Rename Workgroup.

Clicking on one workgroup name will move all the workstations within the other one (ex: Global2).

Change DB settings and the Local Machine Number to avoid conflicts inside the destination workgroup.



Populate Host files (network without DNS server)

See section "Populating Hosts Files" on page 220.

Clear Host files (network with DNS Server)

See section "Populating Hosts Files" on page 220.

Get All EVS Logs (Via EVS reporter)

The EVS Reporter tool is used to grab EVS logs from all the workstation members of the workgroup.

You will have to select the Log destination folder. The filename of the log file will be defined by the EVS Reporter tool.

See section "Managing Logs" on page 216.

Get All IPDirector Logs

Used to grab IPDirector logs from all the workstation members of the workgroup.

See section "Managing Logs" on page 216.

Clear All IPDirector Logs

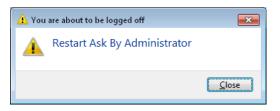
This remote process clears all the C:\EVSLogs/IPDirector folders located on the workstation system disks from the workgroup.

Restart All Machines

This remote process allows restarting all the workstations within the current workgroup.

On distant workstations where a restart order has been remotely given, a warning message is displayed. The users of this workstation can click **Refuse** within the 10 seconds countdown if they want to counter the remote shutdown operation.

After accepting or waiting for 10 seconds, the shutdown process calls a Windows Shutdown command which displays this window for 20 seconds.



Once this message is displayed, users cannot stop the system shutdown command. Please quickly save all work in progress and log off.

Then, the complete Restart All Machine sequences may take more than 30 seconds to begin on distant stations.

Workgroup Toolbar

Workgroup Information and Operations in Edit Mode

In Edit mode, several buttons are available on the top right of the Workgroup area to perform actions on the whole workgroup.

Start all Services Stop all Install version Configure Launch Plugin Indexing Service Protocol : Multicam 15.x DB : 10.129.59.41 - Media ATS DB : 10.129.59.41 - Media

0I				
▶∎Œ ‡ ÷ -	Indexing Service	Protocol : Multicam 15 x	DB : 10.129.59.41 - Media	ATS DB : 10.129.59.41 - Media ATS

Start All Services

Clicking the **Start all Services** or button starts all services on all IPDirector workstations of the workgroup. This means:

- the "mandatory" IPD-Routing and SynchroDB services
- the Remote Installer services set to **Auto Start**. This can be IP-Scheduler, VTR Engine, IP Drive, IP API, Router Control, AbRoll, ATS and EVS Registry.
- the Indexing Service components set to Auto Start.

Start All IPDirector and Services

This option is available when right-clicking the Start All Services button.

It starts all the services as described for the **Start All Services** option, and all the IPDirector of the workgroup.

The IPDirector login screen is displayed when the workstation is not integrated into an Active Directory domain.

Stop All

Clicking the **Stop all** or button stops all running programs and services (IPD-Routing, SynchroDB, IPDirector, IP-Scheduler, VTR Engine, IP Drive, IP API, Router Control, AbRoll, ATS and EVS Registry) on all workstations of the workgroup.

Install Version

Clicking the **Install Version** or **U** button displays a menu with the options to install a new IPDirector package or a new Remote Installer version on the IPDirector workstations within the current workgroup.

Install Package

Select Install Package to install an IPDirector package, an IPBrowse or IPClipLogger (.ipd file).

The package will be imported and automatically activated.

See sections "Installing the IPDirector Package" on page 32 and "Installing IPBrowse or IPClipLogger" on page 250.

Install Remote Installer Version

Select Install Remote Installer Version to force the installation of the current Remote Installer version.

The Remote Installer version will be deployed on all IPDirector workstations within the current workgroup.



As the deployment is an automatic process, be careful if a Remote Installer is open when installing a new station with a newer version. This version will be spread over the whole workgroup.

See section "How to Install the Remote Installer" on page 29.



Deploy Patch

Used to send a patch (a DLL or a zip of DLL) on all the workstations of the workgroup.

The former DLL file will be renamed in "filename.dll.bak". If a bak file already exists, it will not be replaced by a new one.

Deploy VIA UI component

This option is used with the MediaCeption Signature solution, when only the VIA MAP components must be updated. This will deploy the update on all the workstations of the workgroup.

The deployment package is a .zip file. It is saved under C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IP-Director\CurrentVersion\evs-via-ui-ipd.

Configure

Clicking the **Configure** or button displays the Edit Workgroup window to configure all the workstations of the workgroup.

See section "Configuring the Workgroup Parameters" on page 57.

Launch Plugin

Clicking the Launch Plugin or button displays the list of available plugins.

Refer to the Application Note IPDirector [version number] HTA.

Indexing Service

The Indexing Service button has two functions.

- It gives access to the IPDirector Indexing Service web interface used to monitor and manage the Indexing service.
- Its color code gives information on the workgroup Indexing service status:

Indexing Service all services are stopped.

Indexing Service a component displays a warning/error

Indexing Service

a component displays a missing redundancy

ndexing Service a component needs to be started; missing components

Indexing Service services are started

Protocol Multicam [Version]

This icon shows the Multicam version selected via **Configure**. Its color gives indication on the compatibility between the Multicam versions on the different EVS video servers.

Protocol : Multicam 15.x is displayed when all the services are stopped and therefore version compatibility cannot be checked.

Protocol : Multicam 15.x is displayed when all the services are started and all the EVS servers have the Multicam version selected via **Configure**.

Protocol : Multicam14_... is displayed when all the services are started and at least one EVS server has a Multicam version different than the one selected via **Configure**.

DB [IP address] [Database Name]

The **Database** button shows the IP address and the database name. Its color gives indication on database status.

Right-clicking this button displays a menu with different options to configure, backup, restore, clean or upgrade the database, or to execute script.

See section "Maintaining the Database" on page 34.

A left click displays database information.

ATS DB [IP address] [Database Name]

The **ATS DB** button shows the IP address and the name of the database used for the ATS service. Its color gives indication on ATS database status.

When no archiving system is used, this does not have to be configured.

Right-clicking this button displays a menu with different options to configure, upgrade the database.

See section "Configuring the Archive Parameters" on page 235.

A left click displays ATS database information.

Workgroup Information and Operations in Read-Only Mode

Only information about the workgroup is available in Read-only mode.

View Config	i i	ndexing Service	Protocol : Multicam 1	5.x DB :	10.129.59.41 - Media	а	ATS DB : 10.129.59.41	- Media_ATS
or								
\$	Indexing Service	Protocol : Mult	cam 15.x D)B : 10.129.59.4	1 - Media	ATS	DB : 10.129.59.41 - N	/ledia_ATS
								-

A **View Config**, or **W**, button gives access to a read-only view of the Edit Workgroup window, usually accessed from the **Configure** button.

The **Database** and the **ATS DB** buttons do not give access to the configuration options. Only the Database Information window is available.



3.4. Workstation

Workstation Status Color Code

Color codes on the workstation lines give indication on the workstation status.

No Warning

The machine has the same version as the first workstation in the list and no conflict has been detected.

Dark theme



Classic theme

1_IPDA260770 (10.129.59.41) [IPDirector PGE]					
IPD Routing 07.40.12 Rev 176	SynchroDB 07.40.12 Rev 176	IP Director 07.40.12 Rev 176	IP-Schedul- 07.40.12 Rev 176		
SN : 260770					

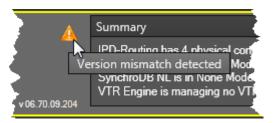
Incompatible Versions on the Workstation

Some IPDirector software components have incompatible versions or some workstations do not have the same version installed.

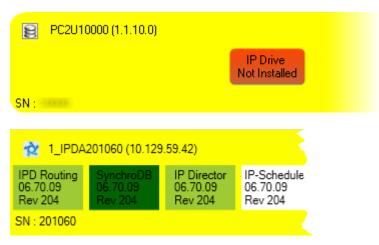
Dark theme



with a warning sign and a tooltip:



Classic theme

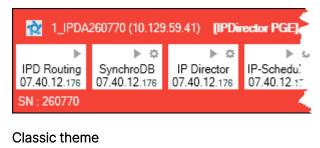


Conflict in Configuration Settings

A conflict has been detected in the configuration settings, for example:

- SynchroDB server management. See section "Configuring SynchroDB" on page 173.
- local machine number. See section "Setting Network Information for the Workstation " on page 46.
- DB configuration. See section "Resolving a Database Conflict" on page 35.
- no serial number defined. See section "Configuring Serial Number" on page 51.

Dark theme





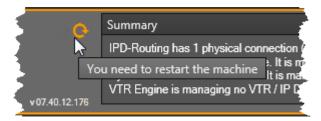


Restart Needed

Dark theme



with a dedicated icon and a tooltip:



A warning is also displayed in the Status bar:

Restart Machine

Classic theme

1_IPDA260770 (10.129.59.41) [IPDirector PGE]					
IPD Routing 07.40.12 Rev 176	SynchroDB 07.40.12 Rev 176	IP Director 07.40.12 Rev 176	IP-Schedul⊾ 07.40.12 Rev 176		
SN: 260770					

Workstation Contextual Menu

A contextual menu is available when you right-click the workstation colored area.

Start All Services

Starts all the following services on the selected workstation:

- the mandatory services: IPD-Routing and SynchroDB
- the Remote Installer services set to **Auto Start**. This can be IP-Scheduler, VTR Engine, IP Drive, IP API, Router Control, AbRoll, ATS and EVS Registry.
- the Indexing Service components set to Auto Start.

See section "Starting Services" on page 168.

Stop All

Stops all services, the Indexing services and IPDirector on the selected workstation.

See section "Stopping Services" on page 171.

Send Version

Sends an IPDirector package on a specific workstation. It allows upgrading an incompatible workstation within a workgroup without stopping all programs on the other members.

See section "Installing the IPDirector Package" on page 32.

Send Current Remote Installer Version

Used to send the current Remote Installer version on a specific workstation.

See section "How to Install the Remote Installer" on page 29.

Send Patch

Used to send a patch (a DLL or a zip of DLL) on a specific workstation.

The former DLL file will be renamed in "filename.dll.bak". If a bak file already exists, it will not be replaced by a new one.

Send VIA UI Component

This option is used with the MediaCeption Signature solution, when only the IPD-VIA components must be updated. This will deploy the update on a specific workstation.

The deployment package is a .zip file. It is saved under C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IP-Director\CurrentVersion\evs-via-ui-ipd.

Configure Database

Used to edit the database configuration on a specific workstation.

It allows modifying database characteristics on a workstation in conflict with its own workgroup.

See section "Setting the Database Information" on page 45.

Configure Network Information

Used to configure the workstation network information: local machine number, workgroup containing the workstation.

It is also used in the case when several machines have the same network number.

See section "Setting Network Information for the Workstation " on page 46.

Configure Serial Communication

Used to define the type of device connected to the workstation serial ports.

See section "Configuring the Serial Ports" on page 47.

Configure Serial Number

Used to define a serial number on all the workstations listed in the Remote Installer.

It is also used in case a workstation does not have a valid registered serial number.

See section "Configuring Serial Number" on page 51.

Configure Auto Logoff

Used to set the level of management of the Auto Logoff function (workstation vs users). When it is set at the workstation level, the period of inactivity before which the user will be logged off from the current workstation is configured with this option.



See section "Configuring the Auto Logoff Setting" on page 54.

View IPD Logs

Used to display the distant EVSLogs\IPDirector folder in a local Explorer window.

As soon as an IPDirector service is started on a workstation, it shares the EVSLogs folder. It allows opening the log folders from any location on the network using its UNC path.

Get EVS Logs (Via EVS Reporter)

The EVS Reporter tool is used to grab EVS logs from one workstation on the network.

You will have to select the Log destination folder. The filename of the log file will be defined by the EVS Reporter tool.

See section "Managing Logs" on page 216.

Get IPDirector Logs

Used to grab IPDirector logs from one workstation on the network.

See section "Managing Logs" on page 216.

Clear IPDirector Logs

This remote process clears the EVSlogs\IPDirector folder located on the workstation system disk.

Restart Machine

This remote process allows restarting a specific workstation from the Remote Installer.

On distant workstations where a restart order has been remotely given, a warning message is displayed. The users of this workstation can click **Refuse** within the 10 seconds countdown if they want to counter the remote shutdown operation.

After accepting or waiting for 10 seconds, the shutdown process calls a Windows Shutdown command which displays this window for 20 seconds.

Once this window is displayed, users cannot stop the system shutdown command. Please quickly save all work in progress and log off.

Then, the Restart Machine sequence may take more than 30 seconds to begin.

Restart Remote Installer

This remote process allows restarting the Remote Installer service on a specific workstation.

The distant workstation displays a tooltip on the Windows taskbar.



Then the Remote Installer icon appears and the workstation tab is again visible within the Remote Installer.

Remote Desktop

This remote process allows using the Remote Desktop Protocol included in the Windows OS. It displays the screen of another computer on your own screen and allows you to control the other computer remotely.

See section "Remotely Accessing a Workstation" on page 224.



4. Installation and Upgrade Operations

4.1. Upgrading the IPDirector Physical Memory

Hardware Upgrade

Minimum 8 GB recommended; 16 GB when the Indexing Service is running on the workstation.

Please contact EVS staff to obtain the proper RAM dedicated for the owned hardware.



Avoid mixing different RAM manufacturer, speed or bandwidth.

Software Upgrade

Memory Test

Once the Hardware Upgrade is done, a memory test is highly recommended. Even if all new memory modules are tested, the RAM should be tested on its motherboard.

The memtest+86 can be launched from any EVS USB Key provided with the EVS workstation. Please contact the EVS Support Staff to obtain one if lost or download it from our website <u>www.evs.com</u> (download/technical area, Third Party Software package)

The memory test must run more than one pass in order to properly test the freshly installed memory modules.

Virtual Memory (Paging File)

On EVS IPDirector workstations, the size of the virtual memory is at least 1.5 times the amount of physical memory. This value is set manually in the Ghost image and must be extended when memory modules are added. The automatic management of the paging file size is forbidden on IPDirector workstations.

Typically, the previous 1GB memory required a 1536Mo paging file size. Now, the 2GB memory requires at least 3GB of virtual memory, the 4GB memory requires 6GB,...

On Windows XP: Open the System Properties window (WIN+Pause).

On Windows 7 and Window 10: Open the System Properties window (WIN+Pause), select in the left menu **Advanced System >Settings**.

Select the Advanced tab.

System Properties
Computer Name Hardware Advanced System Protection Remote
You must be logged on as an Administrator to make most of these changes. Performance
Visual effects, processor scheduling, memory usage, and virtual memory
Settings
User Profiles
Desktop settings related to your logon
S <u>e</u> ttings
Startup and Recovery
System startup, system failure, and debugging information
Seţtings
Enviro <u>n</u> ment Variables

In the Performance zone, click on the **Settings** button.

The Performance Options window pops up. Select the Advanced tab.

Performance Options
Visual Effects Advanced Data Execution Prevention
Processor scheduling Choose how to allocate processor resources,
Adjust for best performance of:
Programs O Background services
Virtual memory
A paging file is an area on the hard disk that Windows uses as if it were RAM.
Total paging file size for all drives: 4498 MB
<u>C</u> hange
OK Cancel Apply

In the Virtual memory zone, check the size of the paging file and click the **Change** button if it must be changed.



The Virtual Memory window is displayed:

Virtual Memory)
Automatically manage paging file size for all drives Paging file size for each drive Drive [Volume Label] Paging File Size (MB)	
C: [5ystem] 4498 - 4498	
R: [Restore] None	
Selected drive: C: [System] Space available: 25887 MB	
<u>C</u> ustom size:	
Initial size (MB): 4498	
Ma <u>x</u> imum size (MB): 4498	
System managed size	
<u>No</u> paging file <u>Set</u>	
Total paging file size for all drives	
Minimum allowed: 16 MB	
Recommended: 4498 MB	
Currently allocated: 4498 MB	
OK Cancel	

Select the Drive C: [System] line (if not selected by default)

The recommended size by Windows shows an ideal size of 1.5 time the amount of RAM.

Choose the **Custom size** option and copy/paste the Recommended size into the **Initial size** and **Maximum size** fields.

Click the Set button.

Close the Virtual Memory, Performance Options and the System Properties windows by clicking **OK**.

Finally, restart the computer.



The paging file has to be configured on the System partition (C:) only. The Restore partition and other storage disks cannot host a paging file.

4.2. Upgrading the Remote Installer, IPDirector and Database Versions

Overview and Prerequisites

From version 7.20 of IPDirector, .NET462 and SHA256 (used for certificate verification) must be installed prior to installing or upgrading the entire IPDirector package.

When a previous version of the Remote Installer is already present on the workstation, .NET462 and SHA256 will be installed from the Remote Installer via the .NET462_SHA256.ipd file.

Otherwise, .NET462 and SHA256 will be installed by executing the .NET462_SHA256.exe file.



Afterwards, the workstation will automatically restart.

Then, you will have to install, or upgrade, the new version of the Remote Installer by executing the Setup.exe file.

Finally, you will install, or upgrade, the IPDirector package from the Remote Installer via the .ipd file.

Steps for the Upgrade of Remote Installer, IPDirector and Database Versions

The upgrade procedure of the Remote Installer and the IPDirector package consists of the following steps:

1. Install the Remote Installer

As the Remote Installer is a tool which deploys version remotely over the network, it should be first updated in order to have its own new features.

See section "How to Install the Remote Installer" on page 29.

2. Start the Remote Installer in Edit Mode

See section "Starting the Remote Installer Application" on page 2.

A few seconds after the Remote Installer is started, all outdated workstations are detected and the Remote Installer is automatically deployed from this workstation to the other workstations in the workgroup.





After upgrade, the distant updated workstations restart and disappear a few seconds from the Remote Installer list.

There is a possibility to install the current Remote Installer version on each workstation separately or manually if a station failed to upgrade automatically. See sections "How to Install the Current Remote Installer Version on all Workstations at Once" on page 31 and "How to Install the Current Remote Installer Version on a Single Workstation" on page 32.

3. Upgrade the IPDirector package

Once all workstations have restarted, are listed again and the serial numbers are defined, the IPDirector package can now be upgraded.

See section "Installing the IPDirector Package" on page 32.

4. Define the settings of each workstation

If the workstations were fresh installed or cleaned, the settings of each workstation have to be entered before upgrading the database. Otherwise, skip this step.

See section "Making Checks and Solving Issues" on page 4 in case warnings are displayed.

5. Upgrade the Database

The database version must be compatible with the installed IPDirector version. If it is not the case, the **Database** button is orange and the database version must be upgraded.

Wrong DB version on 10.129.59.41 (example of IP address)

See section "Upgrading the Database" on page 40.

Restore a Clean Database

If the content of the database does not need to be kept. Skip the upgrade process and restore a clean database.

See section "Restoring the Database" on page 38.

Installing the Remote Installer

How to Install the Remote Installer

Please contact the EVS Account Manager to get the installer.

It is no more required to manually uninstall the Remote Installer before installing a new version as this step is automatically done when executing Setup.exe.

- 1. Unzip the provided archive C:\Install Software\IPDirector.
- 2. Make sure the Routing and SynchroDB services are stopped.
- 3. Double-click the Setup.exe file.

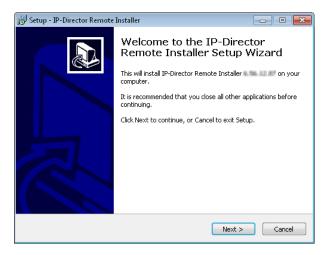
The Setup IPDirector Remote Installer wizard opens.



From version 8.3, another exe is available to install the IPDirectorRemote Installer for use in the MediaCeption Signature solution with VIA MAP as PAM Core: VIAPlaySetup.exe.

This exe must only be used for setups with a clean database, not for setup having been used in IPDirector mode.

4. From the Welcome window, click Next.

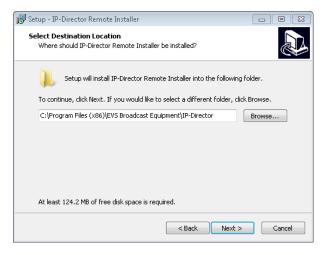




5. From the License Agreement window, select I accept the agreement and click Next.



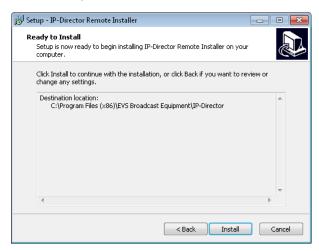
6. In the Select Destination Location window, the installer proposes a default path for the installation C:\Program Files(x86)\EVS Broadcast Equipment\IP-Director:



- a. (optional) Click **Browse** and select another destination directory to install the new software application.
- b. Click Next.

If the folder does not exist yet, you will be prompted to create it.

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



8. Wait until the installation is complete.

The following window will then open:



Click **Finish** to exit the installation wizard.

Services icons are available from the Windows taskbar.



Ø	If several network interfaces are connected on the workstation, an in order to start the Remote Installer.	IP address must be chosen
	Choose Network Interface	
	(1.1.180.30 ▼ Ok	

How to Install the Current Remote Installer Version on all Workstations at Once

- 1. Click the **Install Version** button.
- 2. Select Install Remote Installer Version from the menu.

The IPDirector starts to install the version on all IPDirector workstations of the current workgroup.

A progression bar shows the installation progress on each workstation listed in the Remote Installer.





3. Wait until all progress bars have finished.

The Remote Installer will restart at the end of the installation.

How to Install the Current Remote Installer Version on a Single Workstation

- 1. Right click the workstation area
- 2. Select Send Current Remote Installer Version from the menu.

2 1_IPD/	A184130 (10.	Start All	
IPD-Routing	SynchroDE	Stop All	rive 0.03
Rev Rev SN : 184130	Hev ME	Send Version	148
SN : 184130		Send Current Remote Installer Version	
		Configure Database	
		Configure Network Information	
		Configure Serial Communication	

- 3. Answer **Yes** to confirm the workstation selection.
- 4. Wait until the progress bar has finished and the Remote Installer has restarted.

In order to work properly, all IPDirector workstations connected to the network must be set to the same Ethernet frame size.

It is recommended to work with standard Ethernet frames (MTU 1500) or Jumbo Ethernet frames (MTU 9000). Avoid mixing the two sizes.

Installing the IPDirector Package

How to Install the IPDirector Package Version on all Workstations at Once

- 1. Make sure the Remote Installer version has been installed on every workstation.
- 2. Stop running services on all the workstations of the workgroup by clicking **Stop all**.
- 3. Click the **Install Version** button and select **Install Package** from the menu.

A window opens.

4. Browse to the directory where the IPDirector package file is located (.ipd file).

Usually the package name corresponds to the IPDirector package version.

5. Click Open.

The Remote Installer starts to install the package on all workstations.

A progression bar shows the installation progress on each workstation listed in the Remote Installer.



6. Wait until all progress bars have finished.

After refresh, the blue background of the workstation areas indicates that the version has been successfully installed and that versions are compatible.

All the services are installed with the package installation (IPD-Routing, SynchroDB, IPDirector, IP-Scheduler, VTR Engine, IP Drive, IP API, Router Control, ATS and EVS Registry)

How to Install the IPDirector Package Version on a Single Workstation

- 1. Right click the workstation area.
- 2. Select Send Version.
- 3. Browse to the directory where the IPDirector package file is located (.ipd file).

Usually the package name corresponds to the IPDirector package version.

- 4. Click Open.
- 5. Wait until all progress bar has finished.

EV5

5. Maintaining the Database

5.1. Introduction

Possible Actions on the Database

A right-click on the **Database** button on the top right part of the window gives access to a contextual menu allowing the following actions:

- Defining all database parameters necessary to set up your IPDirector environment
- Backing your database up to a file
- Restoring an empty or a previously backed up database file
- Cleaning the database
- Upgrading automatically the DB to the current version
- Executing scripts (for example, to upgrade an older version of the database to the current DB format or get DB info to identify the restored DB file or version).

Database Status

The background color of the **Database** button gives indication on the database status.

Green

The database configuration was successful.

DB: 101211114 - Media

Orange

This indicates a wrong version of database within the workgroup.

Wrong DB version on III 121 11

See section "Upgrading the Database" on page 40.

Red

This indicates a database conflict within the workgroup.

Database conflict on this WorkGroup

See section "Resolving a Database Conflict" on page 35.

5.2. Resolving a Database Conflict

Context of Use

A red **Database** button highlights a database conflict within the workgroup.

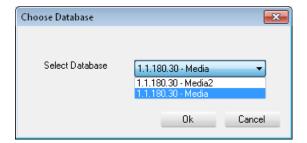
This is the case when one or several workstations point to another database.

Database conflict on this WorkGroup

How to Resolve a Database Conflict

- 1. Make sure all running programs are stopped.
- 2. Right-click the **Database** button.
- 3. Select Configure.
- 4. From the Choose Database window, select your database server, represented by its name or IP address.

Since Version 6, if two DB instances are hosted on the same DB server, the instance name is also displayed to ease the selection.



5.3. Configuring the Database

Context of Use

This step is used to specify the parameters of the database server.

When more than 3 IPDirector workstations are connected together on the same IP Network, the database must be run on a separate dedicated workstation.

The procedure described hereafter is also used when all workstation were fresh installed and the default value for the database setting is taken into account. Then, **Database** button is orange and mentions 127.0.0.1, which is the local host IP address.

Wrong DB version on 127.0.0.1



This address cannot be kept as a valid workgroup database address if the workgroup contains more than one workstation. Only one database on one workstation must be chosen for the workgroup.

How to Configure the Database

To configure your database,

- 1. Make sure all running programs are stopped.
- 2. Right-click the **Database** button.
- 3. Select **Configure** from the menu.

The Database Configuration window opens:

Edit WorkGroup 'PGE' Database Configuration			×
및 ^에 Database		Database	
	IPD Database Information Database Name Server Usemame Password Compatibility Level :	Meda 10 sa m SQL Server 2016 (Supported)	
	Save	Cancel	-

4. Fill in the fields as follows.

Field	Comment
Database Name	By default, the name of the database on the network is Media since IPDirector version 5.
	EVS strongly recommends keeping the default value.
Server	Specify the name of the server where the database is located.
	This server can be the local IPDirector workstation, another IPDirector workstation or a dedicated SQL database server. You may specify the IP address of the workstation or the computer name.
Username	This typically does not change.
	You can change this value, as long as the database Username has also been changed.

	Field	Comment
	Password	This typically does not change.
		You can change this value, as long as the database password has also been changed.
N !	Compatibility Level	The compatibility level of the SQL Engine is displayed as read-only information. It is highlighted in red in case of non supported version.

5. Click Save.

NEW

The **Database** button becomes green to indicate that the DB configuration was successful.

DB : IN REAL HEAD - Media (example of IP address)

How to Check the Database Configuration

• Click the **Database** button.

The Database Configuration window opens.

5.4. Backing up the Database

To create a backup file of your database, the **Database** button must be green.

- 1. Right-click the **Database** button.
- 2. Select **Backup** from the menu.

The Backup Database window opens.

😼 Backup Dat	abase	×
	Backup Database	
	Database Information Server: 1.1.180.30 Database: Media Version: 06	
	Backup Information Backup Name Media_06, .BAK	
	Backup Files MEDIA_06CLEAN.BAK	
	Backup	Cancel

3. Check the Database Information parameters.



If they are not correct, click **Cancel** and select the **Configure Database** from the Database contextual menu to modify them.

See section "Configuring the Database" on page 35.

- 4. Do one of the following actions:
 - a. To create a new backup file, enter a name for the file in the **Backup Name** field.

Default value is the current DB Version Name + Date + .BAK

It is recommended to give a name to the file which describes the contents of the database being backed up.

Example: Media_06_XX_XX_YYMMDD_MyFacilityName.BAK

b. <u>To overwrite an existing file</u>, if any exist for the current database version on the local PC, select it from the Backup Files list.

It is not recommended to overwrite the original DB file that has been delivered with the software and named with a **_Clean** extension.

5. Click Backup

A message will tell you that the database has been successfully backed up.

The backup file is created on the workstation were the backup function is performed and is stored in the C:\Program Files (x86)\EVS Broadcast Equipment\IPDirector\Database folder.

5.5. Restoring the Database

To restore a backup file to your database, the **Database** button must be green.

- 1. Right-click the **Database** button.
- 2. Select **Restore** from the menu.

The Restore Database window opens.

😼 Restore Data	abase	X
	Restore Database	
	Database Information Server: 1.1.180.30 Database : Media Version : 06 Backup Information MEDIA 05 16:40 Media 06 .BAK	
	Restore	Cancel

3. Check the Database Information parameters.

If they are not correct, click **Cancel** and select the **Configure Database** option from the Database contextual menu to modify them.

See section "Configuring the Database" on page 35.

- 4. From the left pane of the Backup Information area, select the database version of the backup file you would like to restore.
- 5. From the right pane of the Backup Information area, select the file you want to restore.

The clean database version is clearly identified with an extension: **Media_06_XX_XX_YYMMDD_ Clean.BAK**.

6. Click Restore.

A warning message will ask for confirmation, as all the data will be lost.

7. Click **Yes** to restore the database.

A message will tell you that the database has been successfully restored.

5.6. Cleaning the Database



All the database content will be removed (Configurations, User Rights, Medias...). The database returns to clean state.

To clean your database, the **Database** button must be green.

- 1. Right-click the **Database** button.
- 2. Select Clean from the menu.

The Clean Database window opens.

🛃 Clean Datal	ase
	Clean Database
	Database Information Server : 1.1.180.30 Database : Media Version : 06
	Clean Cancel



3. Check the Database Information parameters.

If they are not correct, click **Cancel** and select the **Configure Database** from the Database contextual menu to modify them.

See section "Configuring the Database" on page 35.

4. Click Clean.

A warning message will ask for confirmation, as all the data will be lost.

5. Click **Yes** to clean the database.

A message will tell you that the database has been successfully cleaned.

5.7. Upgrading the Database

Context of Use

The required database version depends on the installed IPDirector version.

The system checks the installed database version roughly every 30 seconds. This process cannot be initiated by a refresh.

An orange **Database** button followed by a DB server IP address highlights a wrong version of database within the workgroup.

```
Wrong DB version on 10.129.59.41 (example of IP address)
```

The upgrade process will detect the database version needed regarding the IPDirector version installed, select the appropriated scripts and apply them in the right order.

How to Upgrade the Database

To upgrade the database,

- 1. Make sure all running programs are stopped.
- 2. Right-click the **Database** button.

3. Select Upgrade Database.

The Upgrade Database window opens.

🔝 Upgrade Database		- • •
	Upgrade Database	
	Database Information Server: 1.1.180.30 Database: Media	
	Version : 06	
	Package Information	
	Package version : 06	
	Needed Database version : 06	
	Upgrade Cancel	

4. Check the Database Information parameters.

If they are not correct, click **Cancel** and select the **Configure Database** from the Database contextual menu to modify them. See section "Configuring the Database" on page 35.

5. Click the **Upgrade** button if Database Information parameters displayed are correct.

A window pops up with the list of scripts to be applied.

Example:

Upgrade D a	tabase	×
Number of scrip List of script file 01. Upgrade_0 02. Upgrade_0 03. Upgrade_0 04. Upgrade_0 05. Upgrade_0 Do you want to	88: 16to_ 16to_ 16to_ 16to_ 16to_	.06_ sql .06_ sql .06_ sql .06_ sql .06_ sql .06_ sql
	Yes	No

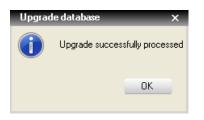


6. Click **Yes** to start the upgrade.

This applies the scripts from the old version to the needed database version. The progress bar is displayed:

😫 Upgrade Dat	abase	- • •
	Upgrade Database	
	Processing Upgrade_05to_06sql	

When the upgrade is done, the system tells you it has been successfully processed:



7. Click OK.

8. From the final report in the Upgrade Database window, check that the message **The database update succeeded** is displayed:

Upgrade Database	
Creating [dbo].[PMI_UF_Definition] Creating primary key [PK_PMI_UF_Definition] on [dbo].[PMI_UF_De The database update succeeded Adding full text indexing to tables Adding full text indexing to columns Table Users is already part of fulltext_indexes Users.Login column is already indexed Table Users is already part of fulltext_indexes Users.Login column is already indexed Dropping foreign keys from [dbo].[Log] Dropping foreign keys from [dbo].[Log] Dropping foreign keys from [dbo].[Logsheet] Altering [dbo].[Storage] Refreshing [dbo].[StorageDirectoryNestedView] Altering [dbo].[StorageDirectoryNestedView] Altering [dbo].[StorageDirectoryNestedView] The database update succeeded	Ē
DROPPING EXTENDED PROPERTIES THE DATABASE UPDATE SUCCEEDED	
4 III >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	

5.8. Executing Database Script

Context of Use

It is highly recommended to apply all the required scripts at once by using the **Upgrade Database** option rather than to execute a script by script upgrade by using the **Execute Script** option. See section "Upgrading the Database" on page 40.

The **Execute Script** feature is now mainly used for applying maintenance technical script(s). These scripts can be provided by the EVS Support team to solve a specific issue on your setup.

How to Execute a Database Script

Before executing any script, be sure your SQL server engine is running on your database server.

To execute SQL script on your database, the **Database** button must be green.

1. Right-click the **Database** button.



2. Select **Execute Script** from the menu.

The Execute Script window opens.

📴 Execute Scri	pt
	Execute Script
	Database Information Server: 1.1.180.30 Database: Media Version: 0 Script
	Execute Cancel

3. Check the Database Information parameters.

If they are not correct, click **Cancel** and select the **Configure Database** from the Database contextual menu to modify them.

See section "Configuring the Database" on page 35.

- 4. Click the **Browse** button to display the list of available scripts.
- 5. Select the script file to execute and click **Open**.

The selected script is displayed in the **Script** field of the Execute Script window.

6. Click **Execute**.

A warning message will ask for confirmation.

7. Click **Yes** to execute the script.

A message will tell you that the script has been successfully executed.

6. Configuring the Workstation Parameters

6.1. Setting the Database Information

Context of Use

This step is used to edit the database configuration on a specific workstation.

It allows modifying database characteristics on a workstation in conflict with its own workgroup without stopping all programs on the other members.

How to Set the Database Information

- 1. Stop all the services on the workstation to edit.
- 2. Right-click the Workstation name.
- 3. Select **Configure Database** from the contextual menu.

The Database configuration window is displayed:

	Database Configuration	×
Database		
	Database	
	IPD Database Information Database Name Server 10.	
	Usemame sa Password Compatibility Level : SQL Server 2016 (Supported)	
	Save Cancel	

4. Modify the Server name (Computer Name or IP address) to specify your new database containing a valid Login/Password.



6.2. Setting Network Information for the Workstation

Context of Use

This step is used to configure the workstation network information: local machine number, selection of workgroup containing the workstation.

It is also used in case several machines have the same network number. Then, a conflict is detected by the Remote Installer and the background color of theses workstations is red.

- Workgroup : DOC (2 Machines)						
🙀 1_IPDA	260760 (10.129	.59.40) [IPDi	rector ADL]			
IPD Routina Rev 176	SvnchroDB Rev 176	IP Director Rev 176	IP-Schedule Rev 176			
SN : 260760						
🗙 1_IPDA	260770 (10.129	.59.41) [IPDi	rector PGE			
IPD Routing SynchroDB IP Director IP-Schedule. Rev 176 Rev 176 Rev 176 Rev 176						
SN : 260770						

On the Status bar, at the lower right corner of the window, the **NumUser** status is red as well.

NumUser

How to Configure Network Information

- 1. Make sure all running programs are stopped.
- 2. Right-click the Workstation name.
- 3. Select **Configure Network Information** from the contextual menu.

The Network Information window is displayed:

Network Information		×
Local machine number		
Workgroup	Global	-
Workstation description		
BROWSER 1		
	Save	Cancel

4. From the Local Machine Number field, select the Local machine number.

The Local machine number field is used to assign an ID to an IPDirector workstation in the network. All workstations in the network must have a different number and must be from 1 to 255.

5. From the **Workgroup** field, select the Workgroup the workstation belongs to.

The Workgroup defines the workgroup name (16 characters maximum) to be used by this IPDirector workstation. Normally all workstations MUST be in the same defined workgroup name. See section "Workgroup" on page 13.

6. In the **Workstation Description** field, enter a description.

This free-text will be displayed beside the Computer Name and IP address of the workstation. As a technical assistance, it can give the identity of a workstation in the workgroup.

Example: The workstation is dedicated for a browsing usage in room 1.

2_IPDA184120 (10.129.59.41) [BROWSER 1]

7. Click Save.

6.3. Configuring the Serial Ports

Context of Use

This step is used to define the type of device connected to the workstation serial ports.

Two kinds of RS422 connections exist:

- AVH-RS422: using an internally mounted EVS USB to RS422 module.
- COM: using a RS422/RS232 port on the station motherboard.

4 AVH-RS422 connections and 6 COM connections are possible. However, only 4 connections may be managed from one IPDirector workstation at any time.

Different types of devices can be connected to a serial port.

- MPlay: This remote is used to control the playout of clips, playlists or graphics. It is designed to simultaneously control up to 4 player channels. Its buttons can be configured, from the IPDirector interface, to perform classic transport functions.
- BEPlay: This remote controller is used for browsing, editing and playing content. It can be configured, from the IPDirector interface, to control selected channels and to send media to predefined destinations.
- VTR: controlled by the VTR Engine service.
- EVS Server (server connection).



• Router Control: controlled by the Router Ctrl service.

The **Router Control** option is displayed provided that a router has been configured and the Router Ctrl service has been configured. It automatically appears next to the right port as soon as it is selected from the Edit [Workstation] Router Control Management window. See section "Defining the Workstation Responsible for the Control of the Router" on page 228.

All parameters are local to the IPDirector workstation and must be set independently on all IPDirector workstations.

How to Configure Serial Communication

- 1. Make sure that all concerned services are stopped.
- 2. Right-click the Workstation name.
- 3. Select **Configure Serial Communication** from the contextual menu.

The Serial Communication Configuration window is displayed:

dit Serial Communication Configuration						2
erial Communication						_
	Serial Co	ommunicatio	n Conf	iguration		
	Serial Communication	-			-	
	AVH-RS422-1	Application Evs Server	•	Settings		
	AVH-RS422-1 AVH-RS422-2	Evs Server		Settings	-	
	AVH-R\$422-3	MPlay		Settings	-	
	AVH-RS422-4	Vtr Engine		Settings	=	
	COM1	[Settings		
	COM2			Settings	-i	
	СОМЗ	[-	Settings	5	
	COM4	[-	Settings		
	COM5		-	Settings		
	COM6		•	Settings		
					_	
		AVH Advanced S	ettings			
	Sa		ncel			
	50	ve La	icei			

4. For each port used, select the hardware type connected to that port from the **Application** menu:

Serial Communication Settings							
COM Port	Application						
AVH-RS422-1	Evs Server	 Settings 					
AVH-RS422-2	MPlay	Settings					
AVH-RS422-3	BEPlay	Settings					
AVH-RS422-4	Vtr Engine Evs Server	Settings					
СОМ1		 Settings 					
COM2		Settinas					

11.111

The **Router Control** option is automatically displayed next to the right port when the port has been associated with a router during router control configuration. See section "Defining the Workstation Responsible for the Control of the Router" on page 228.

Serial Communication Settings					
COM Port	Application				
AVH-RS422-1	Evs Server	•	Settings		
AVH-RS422-2	Evs Server	•	Settings		
AVH-RS422-3	Evs Server	•	Settings		
AVH-RS422-4	Router Control	•	Settings		
COM1		•	Settings		
COM2		-	Settings		

Only 4 connections may be managed from one IPDirector workstation at a time.

Leave the Application field empty if the port is not used.

5. Click the **Settings** button to define the settings for MPlay, BEPlay, Vtr Engine.

The **Settings** button is not available when EVS Server is selected, as no setting is needed.

A Settings window specific to the selected Application opens.

- 6. Select or enter the settings and click **Close**:
 - MPlay: Specify the **Baud rate**, **Data bits**, **Parity** and **Stop bits** of the serial protocol used by the Remote.
 - BEPlay: Specify the **Baud rate**, **Data bits**, **Parity** and **Stop bits** of the serial protocol used by the Remote.
 - Vtr Engine:

Basic Settings:

COM Port: Shows the RS422 port connected to VTR (COM1 to COM6 or AVH-RS422-1 to AVH-RS422-4).

VTR Name: The VTR name is used in the VTR Control Panel in the IPDirector interface.

Description: Enter a description for your facility.



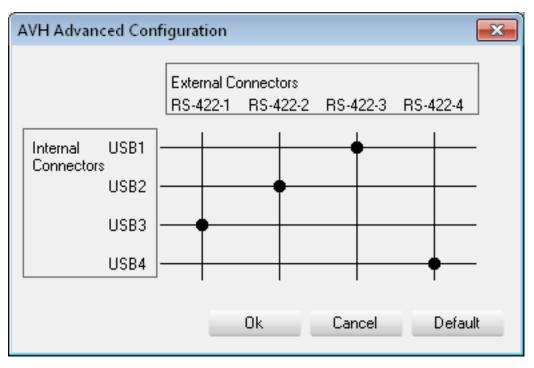
Default Recorder: Select the server Default Recorder connected to the VTR. The VITC of this recorder is taken for ingests.

Advanced Settings:

Specify the **Baud rate**, **Data bits**, **Parity** and **Stop bits** of the serial protocol used by the VTR.

7. Click the **AVH Advanced settings** button to defined the connections between physical external RS-422 connectors and internal associated Windows USB ports.

The AVH Advanced Configuration window opens:



To keep the default parameters, click **Default**.

- 8. Click OK.
- 9. Click **Save** from the Serial Communication Configuration window.

6.4. Configuring Serial Number

Context of Use

This step is used to define a serial number on all the workstations listed in the Remote Installer.

All EVS applications require a serial number in order to generate a unique UmID for clips or files.

In case a workstation does not have a valid registered serial number, the background color of this workstation is red.

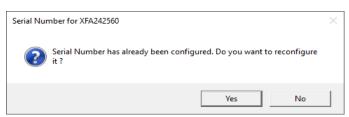
回 1_IPDA	180300 (1.1.180.	30) (Brows	ER 1]			
IPD-Routing	SynchroDB	IP-Director	IP-Scheduler	VTR Engine	IP Drive	IP API
SN : 180300						
E XSTOR	E64580 (1.1.64.5	8)				
			IP Drive			
SN : 64580		_				
🗿 DB6450	0 (1.1.64.50)					
						IP API
SN : 64580						

On the Status bar, at the lower right corner of the window, the **Serial Number** status is red as well:

Serial Number

How to Configure Serial Number

- 1. Right-click the Workstation name.
- 2. Select **Configure Serial Number** from the contextual menu.
 - If a Serial Number is already defined, trying to configure it again displays a pop-up window:



Click **Yes** if you want to continue. Then, the EVS Serial Number Configuration application is launched.

- If a conflict exists on the workstation, the EVS Serial Number Configuration application is launched.
- 3. Answer the question from the EVS Serial Number Configuration window.

Three different cases can come up.



• If a previous Serial Number is found in any configuration settings (file or registry), the application shows this message:

=v= EVS Serial N	umber Configuration - IPD242560	×
≣∨⊑	We have found 242560 as previous EVS serial number on your computer.	
	Ensure that this serial number is unique on the network.	
	Do you want to keep it ?	
	Note : If you are using an EVS computer the above-mentioned serial number must be the same as the hardware EVS serial number. You can find the hardware EVS serial number at the back of your computer.	
V. 01.00.10		
	< Back Finish Cancel	

- i. Check the serial number
- ii. Keep the default value **Yes**
- iii. Click Finish.
- If no Serial Number can be found on the system and the computer is produced by EVS, the application displays a series of questions:

=vs EVS Serial N	umber Configuration - IPD242560	×
≣∨⊑	Are you using an EVS computer ? Yes No (you are using a standard computer not produced by EVS))
V. 01.00.10		
	< Back Next > Cancel	

- i. Keep the default value **Yes**
- ii. Click Next.

EVS Serial Number Configuration - IPD242560	(
Please enter the EVS serial number which is at the back of the computer. Example : 25570	
If you cannot find your serial number: please call the EVS Support	
EVS Serial Number	
Note : The serial number is a multiple of 10 between 10 and 655350	
V. 01.00.10	
< Back Finish Cancel	

- iii. Enter the serial number found on the back (or side) of the computer. The serial number is a number multiple of 10 between 10000 and 655350. The serial number must be unique.
- iv. Click Finish.
- If no Serial Number can be found on the system and the computer is not produced by EVS, the application displays a series of questions:

=v= EVS Serial N	umber Configuration - IPD242560	×
≣∨⊑	Are you using an EVS computer ? • Yes • No (you are using a standard computer not produced by EVS)	
V. 01.00.10		
	< Back Next > Cancel	

- i. Select the non default value **No**
- ii. Click Next.



=v= EVS Serial N	umber Configuration - IPD242560	(
≣∨⊑	Please enter the EVS serial number multiple of 10 between 635000 and 655350 Ensure that the EVS serial number will be unique on the network	
	EVS Serial Number	
V. 01.00.10		
	< Back Finish Cancel	

- iii. Enter a serial number multiple of 10 between 635000 and 655350. The serial number must be unique.
- iv. Click Finish.

Once the Serial Number is configured, an entry in the registry of Windows will be used by any EVS application.

The background color status of the workstation becomes blue in the Remote Installer and the Serial Number is displayed on IPDirector workstation.

6.5. Configuring the Auto Logoff Setting

Context of Use

The Auto logoff parameter can be set at the workstation level or at the users level.

When both have been defined, the setting per workstation will take over the auto logoff management.

The configuration of the Auto logoff setting at the workstation level is done from the Remote Installer.

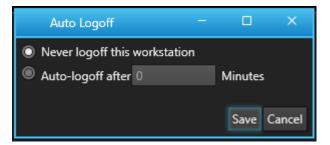
The configuration of the Auto logoff setting at the <u>users level</u> is done from the User Manager.

- If it is set to **Global** in the User Manager, the setting value will be common to all users and the users will not be allowed to change it.
- If it is set to **User** in the User Manager, any user will be allowed to change the setting value for their account from the General settings.

How to Configure the Auto Logoff Setting at the Workstation Level

- 1. Right-click the workstation.
- 2. Select Configure Auto Logoff from the contextual menu.

The Auto Logoff window opens:



- 3. Set the Auto Logoff in one of the following ways.
 - To keep the Auto Logoff parameter set at the users level,

Select Never logoff this workstation.

This is the option selected by default on each workstation.

Then, the setting from the User Manager will be taken into account.

- To set the Auto Logoff parameter per workstation:
 - i. Click the following radio button

Auto-logoff after 0

Minutes

ii. In the field, enter the period of inactivity after which the Auto logoff will happen for this workstation.

Possible values: from **0** (Auto log off per workstation enabled but the user will never be logged off even if inactive) to **720** minutes (maximum period of inactivity before the user be logged off from this workstation).

iii. Click Save.

Summary of the Possible Options for Auto Logoff

Auto Logoff	Remote Installer configuration	User Manager configuration	Behavior
at users level, same	Never logoff this workstation	Global + [0] minutes	The users will never be logged off.
period for all the users	Never logoff this workstation	Global + [1-720] minutes	The users will be logged off after same period of inactivity [1- 720] minutes.



Auto Logoff	Remote Installer configuration	User Manager configuration	Behavior
at the users level, period customized by user	Never logoff this workstation	User + [0-720] minutes (period can be changed by each user from General Settings in IPDirector)	each user will be logged off after user- defined period [0=never to 720] minutes.
at the workstation level	Auto-logoff after 0 Minutes	Global or User + [0-720] minutes	the user logged on this workstation will never be logged off.
	Auto-logoff after 720 Minutes (from [1-720] minutes)	Global or User + [0-720] minutes	the user logged on this workstation will be logged off after [1- 720] minutes of inactivity as defined in Remote Installer.

7. Configuring the Workgroup Parameters

7.1. Introduction

All the parameters necessary to set up the IPDirector environment are configured from the Edit Workgroup [Name] General Parameters window, available by clicking the **Configure** button.

Be sure your database parameters have been correctly defined before configuring all parameters. See section "Configuring the Database" on page 35.

The Edit Workgroup window provides a series of tabs for the configuration of various parameters:

General

- **General Parameters**: parameter configuration used by the application.
- Logsheet Parameters
- Services Configuration defines the user used for logging services.
- LAN/WAN configuration (for advanced network configuration).
- DB Parameters
- Status Polling
- Storage
 - **Storage Priorities** configuration used by the target engine and the software player.
 - SDTI Network configuration (logical server network creation).
 - Near Line Management configuration (defines static directories managed on the network).
 - Ping Exclusions: used to list all the IP addresses or hostnames that must be excluded from ping calls.
- Target
 - **Xsquare**: used to connect to VIA Xsquare, retrieve the list of VIA Xsquare targets from IPDirector applications and set a default template for backup to nearline/restore to XT operations.
 - **XML Units** defines which VIA Xsquare workstations will manage the transfer to targets defined from the Remote Installer.
 - **XML Targets** configuration (standard Send to, AVID TM export, Clean Edit export, server export and Final Cut Pro export).
 - **Avid Targets**: used to configure the Avid targets based on VIA Xsquare templates. Avid catalogs will be available as stream targets from the Channel Explorer and the Ingest Scheduler.



- **Workflow Targets**: used to connect to a workflow engine and to define workflow targets which will be available from the IPDirector interface, based on workflow definition files stored on the workflow engine.
- **Blackbird**: used to configure the parameters required for the integration of IPDirector with Blackbird, used for cloud editing.
- Playlist
 - Behavior
 - **Custom Fields** configuration (defines 6 headers of the playlist element metadata).
- **Thumbnails** configuration (defines the automatic thumbnail creation).
- IPLogger Export Directories: settings linked to Third Party logging export.
- Router Control
 - **Device Management**: used to declare the router to control. See section "Declaring the Router" on page 227.
 - **Channel Configuration**: used to configure the physical connections between a router and a server. See section "Configuring the Physical Connections between a Router and a Server" on page 231.
- VarID Group Management configuration (organizes servers in varID groups).
- As Run Log configuration.
- **Redundancy** configuration (defines master/slave servers for IpEdit and Edit to Air).
- API Configuration (defines general parameters used by all the IP API services).
- Director's Cut Gateways configuration (defines the gateways to be managed).
- Archive Service: used to enable the archive process in IPDirector and to configure the archive system parameters and the archive database information. See section "Configuring the Archive Management Parameters" on page 233.
- **VIA MAP**: used to configure the parameters required for used to configure the integration of VIA MAP and IPDirector in the MediaCeption Signature solution.
- **Plugins**: used to configure the plugins which can be used from the IPDirector user interface and which involve a URL.

7.2. General Parameters Configuration

Overview of the General Parameters Tab

Edit WorkGroup 'Global' General Parar	meters	×
General General General Parameters Logsheet Parameters	General Paramo	eters
Service Configuration LAN./WAN DB Parameters Status Poling Storage Priorities SDTI Network Nearline Management Pring Exclusions Target XSquare XSquare Target Settings XML Units	General Keywords based on 64 characters Automatically archive protect media Use Active Directory Authentication CSV Delimiter SEMICOLON Activate Playlist LiveBit	Max number of Database Explorer4 Max number of IP Logger2 Database connection timeout (in seconds)5 Ping timeout (in milliseconds)000 Number of ping before failure3 Activate lpEdit checksum Activate Auditing tool
XML Targets Avid Targets Blackbird Playtist Behavior Custom Reids Thumbnails	In folder Browse XML File history in folder Browse Purge Frequency (in hours) 48	Auditing Purge Frequency (in days) 31 Multicam version Mul 20.7 V
IPLogger Export Directories Router Control Device Management Channel Configuration Varil Gröup Management As Run Log Parameters As Run Log Parameters As Run Log Merger As Will Run Log Redundancy API Configuration Derector Ch & Gatewase		Max number of items to display in 1000 browser (if activated) Search retention period 7 🖢
	Save Cancel Apply	

General Section

General Keywords based on 64 characters		Max number of Database Explorer 4
Automatically archive protect media	Max number of IP Logger 2	
		Database connection timeout (in seconds) 5
Use Active Directory Authentication CSV Delimiter SEMICOLON ~		Ping timeout (în milliseconds) 200
		Number of ping before failure 3
		Activate IpEdit checksum
Activate Playlist LiveBit		Activate Auditing tool
in folder	Browse	Auditing Purge Frequency (in days) 31
XML File history in folder	Browse	
		Multicam version Mul 20.7 $$
Purge Frequency (in hours) 48		

Keywords based on 64 characters

The IPDirector can work either with 12 characters keywords or with 64 characters keywords.

• In the 12 characters mode:

Keywords are pushed to clips on the servers and are visible in server and IPDirector Interfaces (clip keywords are synchronized between the server database and the IPDirector database).



• In the 64 characters mode:

Keywords can be 64 characters long but are no longer pushed to clips on the server. Keywords assigned to clips defined on the server are only visible in the server interfaces and keywords assigned to clips defined on IPDirector workstations are only visible in the IPDirector interfaces. Log keywords are no longer pushed to the clips associated with the logs. (No keyword synchronization between the IPDirector and the servers).

Default value: cleared. IPDirector normally works in 12 characters mode.



EVS suggests using the 64 characters mode only on major events or facilities where this function is required. It is not possible to return to a 12 characters keyword mode without clearing the IPDirector database.

Automatically archive protect media

If this option is selected, all protect media created for a log sheet will be automatically archived on the machine as default in the settings of the server. The clip always moves to the defined session folder on the station.

Default value: selected.

Authentication Mode

This parameter determines whether the workstation is integrated into an Active Directory domain (**Active Directory**) or not (**IPDirector**).

CSV Delimiter

Allows choosing CSV delimiter in CSV files. You can select Semicolon, Comma, Tab or Space.

Default value: Semicolon



If you intend to import the CSV file into Excel, you should use a delimiter that obeys your regional settings as defined inside Windows. For example: In Belgium the delimiter is Semicolon, whereas in North America the default delimiter is a comma.

Activate Playlist LiveBit

Not available for usage without direct consultation with EVS staff. This mode requires specific software and setup provisions.

XML File history in folder

Allows defining a specific history folder for all the XLM files exchanged by the system with the XML Unit (s).

If no folder is defined, the history folder is located by default in the Jobs Done folder of the first XML Unit.

Purge Frequency (in hours)

The purge frequency of the XML File history folder.

Default Value: 48

Max number of Database Explorer

This parameter limits the number of Database Explorer windows opened simultaneously by the IPDirector users.

It avoids forgotten Database Explorer windows in a complex layout. These windows are forgotten and overload the IPDirector database (thus create database latencies).

Default value: 4

Max number of IPLogger

This parameter limits the number of IPLogger windows open simultaneously by the IPDirector User.

As the previous setting, the aim of this parameter is to avoid unwanted traffic to the database.

Default value: 2.

Database connection timeout

This parameter set the previously hardcoded timeout connection request sent to the IPDirector database (in seconds).

Default value: 5 seconds.

Using a distant network connection, we encountered false database status. Increasing the period between two requests reduces the risk of bad status which freezes the user interface.

Ping timeout

This parameter set the previously hardcoded timeout ping request sent to the IPDirector database (in milliseconds).

Default value: 200 milliseconds.

Number of ping before failure

This parameter set the previously hardcoded number of ping sent to the IPDirector database before considering a failure.

Default value: 3



We recommend you to keep the default values for these last 3 settings.



Activate IpEdit checksum

This parameter sets the IPEdit in a specific verbose mode that displays messages according the synchronization status between server timeline engine and database.

This mode is not intended to be activated under normal operations.

Activate Auditing tool

This option activate the auditing tool.

This tool records deletion operations of clip elements, playlists and edits in the IPDirector database. The audit log will contain, among others, the user ID of the operator, the item name, the deletion date and time, VarID, UmID,...

Default value: disable.

Auditing Purge Frequency

This parameter sets the period of time, in days, after which the audit log is deleted.

Default value: 31

Multicam Version

This parameter is used to select the Multicam version installed on the EVS video servers.

It must be the same on all the servers.

Database Explorer Section



Auto-refresh Mode of the Database Explorer

This parameter automatically refreshes the Database Explorer of IPDirector. This parameter should be deactivated on very large setups (typically when more than 30 workstations are connected together on the same IP network).

This also automatically refreshes the IPBrowse Bins pane.

Default value: selected.

Auto-refresh in filter mode

This parameter automatically refreshes research items in filter mode in the Database Explorer of IPDirector. This parameter should be disabled on very large setups (typically when more than 30 workstations are connected together on the same IP network).

Default value: selected.

Max number of items to display in browser (if activated)

Specify the maximum number of elements (clips, logs, etc.) that can be displayed at any one time in a list in the IPDirector application.

Default value: 1000

Search retention period

This number limits the auto-complete search feature results to the X last days of operation.

Default value: 7 (One week)



7.3. Logsheet Parameters

Edit WorkGroup 'Global' Genera	al Parameters				×
General General Parameters Logaheet Parameters Service Configuration LAN/WAN DB Parameters Status Poling Storage Storage Phonties SDT1 Network Nearline Management Ping Exclusions	Aut Aut Aut	to-associate clips to logs to-associate clips at startup to-associate Keywords to clips to associate Level Rating to clips tfy Associations		Logsheet Parameters	×
Target XSquare XS	Use	e Media instead of Record Train	OFF	Global default value for new logsheets. It can be modified during logsheet creation	
			Save Cancel	Apply	

Auto-associate clips to logs

When this option is selected, clips which include log timecode are automatically associated with those logs. If this option is cleared, the automatic association process between clips and logs is not activated.

Default value: **ON**.

Auto associate clips at start up

If this option is selected, when the SynchroDB service is started, an automatic process will check the association of clips to logs.

Default value: **ON**.

Auto associate keywords to clips

This option allows the logged keywords to be automatically pushed to their associated clips. If this option is cleared, the keywords are disassociated from their corresponding clips.

Note that if the **Keywords on 64 characters** option is selected, the keywords will not be pushed to the clips on the server side, they will only be pushed to clips on the IPDirector side.

Default value: **ON**.

Auto associate level rating to clips

This option allows the logged level rating to be automatically pushed to their associated clips. If this option is cleared, levels rating are disassociated from their corresponding clips.

Default value: **ON**.

Notify associations

When this option is selected, as soon as a clip/log association is created or deleted, a notification is sent to all IPDirector Workstations to refresh their interfaces. If this option is cleared, those notifications will not be automatically sent and a manual refresh should be done in the IPDirector interface to see the clip/log association modifications. It should only be cleared for very large setups when the associations do not have to appear instantly and constantly refreshed. It will lead to less CPU database consumption and will improve the reactivity of the IPDirector interfaces.

Default value: **ON**.

Use Media Instead of Record Train

If this option is selected, when an ingest is associated with a logsheet from Ingest Scheduler, logs created from IPLogger will only be linked to the selected ingests and not to the record trains.

Therefore, in case of overlapping ingests, the logs will only refer to the ingest you are interested in and not to all the ingests.

Default value: **OFF**.



All these parameters are global to all IPDirector workstations on the network. It must only be set once and can be defined on any workstation.



7.4. Services Configuration

The purpose of this function is to allow an administrator to define a different user for the IPDirector services to be started with instead of the default user of DVB. This setting should only be changed with a complete understanding of its impact.

The IPDirector services cannot be logged on as Local System to access network resources. The default user used is DVB. This user is present on every EVS systems to allow exchanges between products.

For example: IP-Scheduler sends XML files to a shared folder, the DVB user must also be present on the workstation to allow these files to be shared easily.

Changing the logon used by the services can have an important impact on file sharing and access between EVS products and other 3rd Party systems.



Login

Enter the login name of the user.

Default value: dvb

Password

Enter the password of the user.

Default value: (blank)

Auto create the user

If this option is selected, a new user is created on all the workstations detected by the Remote Installer (if this user does not already exist).

Default value: Cleared.



All Services (IPD-Routing, SynchroDB, IPDirector, IP-Scheduler, VTR Engine, IP Drive, IP API and Router Control) must be stopped to visualize this tab.



7.5. LAN and WAN Configuration

Edit WorkGroup 'Global' Gene	eral Paramete	rs											×
 General General Parameters Logsheet Parameters 	^	(T IP Add	dresses			LAN/W.	AN Con	nfigurat	tion				
Service Configuration UALVIVAN DB Parameters Status Poling Storage Priorities SOTI Network Nearline Management Pring Exclusions Target XSquare XSquare Target Settings XML Units		S	ierial Number	User ID (LSM ID)	Name	IP Address 1	Port 1	IP Addre	ss 2 Port 2	Login	Password		
XML Targets Avid Targets Workflow Targets	-1	LAN - IP A	Address Ranges		_			WAN - IP /	Addresses	_	_		
Blackbird ⊡ Playlist Behavior Custom Fields		•	Start Address	End Address	Comment			•	Address	Comment			
Thumbnails IPLogger Export Directories Router Control Device Management Channel Configuration VarID Group Management As Run Log Parameters													
As Run Log Merger As Will Run Log Redundancy API Configuration Director's Cut Gatawave	~										Advanced Parame	ters	
				Save		Cancel	Apply						

XT IP Addresses

This box shows the Serial Number, Net number, Name, IP addresses, Ports, Login and Password of the server managed by the SynchroDB services inside the workgroup.

These values are auto-obtained and cannot be edited and are used for the XML processes (Send to / Export) when sending via the Gigabit Ethernet mechanism.

The SynchroDB and IPD-Routing services must be started to visualize the list. It may take some time for this list to appear once the services are started.



The server Gigabit feature allows exporting and sending clips through a TCP/IP network. Your server must be upgraded with a GBX module on the H3X (or HCTX) card. Please contact EVS for more information.

The Gigabit Ethernet settings are set inside the Multicam Configuration, Tab Network (SHIFT+F2, Tab 3 Network) while the application is running and pressing **F8** on a line in the EVS Menu.

Please refer to the Server Software Technical reference manual.

LAN – IP Address Ranges

While local IPDirector workstations inside the LAN utilize Multicast to communicate, distant IPDirector workstations (WAN) communicate by Unicast with the local IPDirector workstations (LAN) inside IP address range(s).

It is desirable to define small range(s) of IP addresses to reduce Unicast communication to a minimum number of addresses.

Default value: (blank)

- LAN - IP Address Ranges

	Start Address	End Address	Comment	
*				
	1			

WAN – IP Addresses

Local IPDirector workstations (LAN) communicate by Unicast with the distant IPDirector workstation(s) defined in the WAN section.

Default value: (blank)

	Address	Comment	
*			

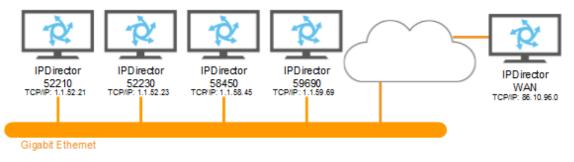


All Services (IPD-Routing, SynchroDB, IPDirector, IP-Scheduler, VTR Engine, IP Drive, IP API and Router Control) must be stopped to edit the LAN – IP Address Ranges, the WAN – IP Addresses and the Advanced Parameters.



For example:

4 IPDirector workstations on an Ethernet network (LAN) and 1 IPDirector accessible by an Internet connection (WAN).



Advanced Parameters

By clicking the **Advanced Parameters** button, you access this window:

Ports				Multicast
lpdComm :	31001	IpDirector Close App :	31006	Routing Service :
Routing Service :	31002	SynchroDB User Interface :	31007	224 14 0 1
Routing Service Udp Server :	31003	IpScheduler User Interface :	31008	Remote Installer (*):
IPWS Server :	31016	VtrEngine User Interface :	31009	224 14 0 2
CMS Search API :	31060	Routing User Interface :	31010	Remote Installer Install (*):
Remote Installer Client (*):	31004	IP Drive User Interface :	31014	
Remote Installer Port (*):	31005	IPWS User Interface :	31015	
Remote Installer Service Port (*): 31046	Software Player port :	31018	
RI Server From to (*):	31020 310	19 IPD Plugin User Interface :	31041	
Monitoring Server from to	31030 310	89 Router Control User Interface :	31042	
SWP range added from to	: 100 110	AbRoll User Interface :	31044	
AbRoll User Service:	8733	License API Port :	14275	
Infrastructure Ports				
Infrastructure Service Administr	ation (web api/ui) :	31051		
Infrastructure Service Administr	ation (discovery) :	31065		
Indexing Crawler (web api) :		31052		
Indexing Pusher (web api) :		31053		
Indexing Pusher (endpoint) :	Indexing Pusher (endpoint) :			
ElasticSearch (http) :		9200		
ElasticSearch (tcp) :		9300		
Zookeeper :		2181		

The LAN/WAN configuration give you the possibility to change ports used by IPDirector Application and all the services:

TECHNICAL REFERENCE

Ports	Default Values
lpdComm:	31001
Routing Service:	31002
Routing Service Udp Server:	31003
IPWS Server	31016
CMS Search API	31060
Remote Installer Client (*):	31004
Remote Installer Port (*):	31005
Remote Installer Service Port (*):	31046
RI Server Fromto	31020, 31029
Monitoring Server fromto	31030, 31039
SWP range added fromto	100, 110
ABRoll User Service	8733
IpDirector Close App:	31006
SynchroDB User Interface:	31007
IpScheduler User Interface:	31008
VtrEngine User Interface:	31009
Routing User Interface:	31010
IP Drive User Interface	31014
IPWS User Interface	31015
Software Player port	31018
IPD Plugin User Interface	31041
Router Control User Interface	31042
ABRoll User Interface	31044
License API Port	14275
Infrastructure Ports	Default Values
Infrastructure Service Administration (web api/ui)	31051
Infrastructure Service Administration (discovery)	31065
Indexing Crawler (web api)	31052
Indexing Pusher (web api)	31053



Infrastructure Ports	Default Values
Indexing Pusher (endpoint)	31061
ElasticSearch (http)	9200
ElasticSearch (tcp)	9300
Zookeeper	2181

Multicast	Default Values
Routing Service	224.14.0.1
Remote Installer (*)	224.14.0.2
Remote Installer Install (*)	224.14.0.3

Inside the LAN, IPDirector workstations communicate by multicast.

(*): To commit these modifications, the Remote Installer service must be restarted.



We recommend you to keep the default values for these settings. Your network administrator provides you the new port numbers or multicast addresses if needed.

7.6. DB Parameters

Edit WorkGroup 'Global' General Parame	ters			×
General General Parameters Logsheet Parameters			DB Parameters	
Service Configuration LAN.WAN Service Configuration LAN.WAN Status Poling Storage Profiles Storage Profiles STI Network Neatrine Management Prog Exclusions Target XSquare Target Settings XML Units XML Units XML Targets Aud Targets Blackbird Playlet Behavior Custon Fields Thumbnals IPLogger Export Directories Route Control Device Management Device Management Device Management Canguet Control Device Management Canguet Control Device Management Canguet Control Device Management Canguet Control Same Control Device Management As Run Log Parameters As Will Run Log Redundancy	Use referenced profiles in exported EDLs Use referenced profiles in exported EDLs for logs Use referenced profiles in XML Files Exclude Bins for Copy GigE Exclude Logs with EDL Use Sentinel Licensing	OFF OFF OFF	Reduces EDL size in case of big Metadata Profiles Reduces EDL size in case of big Metadata Profiles Reduces XML size in case of big Metadata Profiles or with many Subclips Avoid Bin Rules Post Process Execution Don't export Logs when generating an EDL Use Sentinel Licensing system instead of XSecure	
API Configuration Director's Crit Gatewave	Save	Cancel	Apply	

Use referenced profiles in exported EDLs

This setting reduces the EDL size in case of big metadata profiles.

Use referenced profiles in exported EDLs for logs

This setting reduces the EDL size in case of big metadata profiles.

Use referenced profiles in XML files

This setting reduces the size of XML files in case of big metadata profiles or with many sub-clips.

Exclude bins for Copy GigE

When set to ON, this setting avoids post-process execution of bin rules.

Exclude logs with EDL

When set to ON, this setting avoids the export of logs when generating the EDL, for example when a bin is sent as an edit to a target from IPWeb



Use Sentinel Licensing

This setting defines whether you work with the XSecure licensing system (setting OFF) or with the Sentinel / VIA Licensing system (setting ON).

When the **Use Sentinel Licensing** parameter is selected, additional fields are displayed.

VIA Licensing API

In the MediaCeption Signature solution with VIA MAP as PAM Core, this option is automatically selected. So, the system connects to the IP address of the VIA MAP sentinel licensing server configured as described in section "VIA MAP" on page 160.

Use Sentinel Licensing	Use Sentinel Licensing system instead of XSecure
VIA Licensing API	Use VIA MAP Configuration
◯ Sentinel Server	

Sentinel Server

This setting is selected when your IPDirector system works with a Sentinel licensing server rather than XSecure.

Use Sentinel Licensing	Use Sentinel Licensing system instead of XSecure
O VIA Licensing API	Use VIA MAP Configuration
Sentinel Server	Main Sentinel Server Address

In this field, enter the IP address of the server hosting the Sentinel licenses.

7.7. Storage Priorities Configuration

Edit WorkGroup 'Global' General Parameters	X
General General General General Cagheet Parameters Service Configuration LAN/MAN DB Parameters Status Poling Storage	Storage Priorities
Prog Exclusions Prog Exclusions Target XSquare XSquare Targets XML Targets Avid Targets Workflow Targets Blackbird Playkit Behavior Custom Reids Thumbnails IPLogger Export Directories Router Control Device Management Ohannel Control Device Management As Run Log Parameters As Run Log Merger As Will Run Log Redundancy Parametors Configuration Directories Configuration Directories Configuration Directories Configuration Config	Storage Phonty Image Notify 1 Nearline On IRD 2 XT 3 IPDrive Image Notice Strate Image Notify Image Notify Image Notify Image Notify <t< td=""></t<>
	Save Cancel Apply

Storage Priority

Storage	Priority	
	Storage Priority	
► 1	Nearline	
2	XT	
3	IPDrive	
lf you ch	ide open files from transfers loose this option, files that are bei le used in the priority list for transfi	

This parameter sets the priority of the source used by the function **Send to [Target]** or **Backup to Nearline**. When clips contain several elements in the Database Explorer, this priority manages which resources will be sent to the target or the nearline.

For example, a clip owns a high resolution XT clip element and a high resolution nearline clip element. When users request a **Send to [Target]** or **Backup to Nearline**, the priority defines the source (Nearline or XT or IP Drive) used for the operation.

If **Nearline** is set to priority 1, the high resolution file is copied to the target or nearline.

If **XT** is set to priority 1, the high resolution XT clip is backed up to the target or nearline.



If **Nearline** is set to priority 1 and no high resolution file exists in the clip, the second priority is used and the high resolution XT clip is backed up to the target or nearline.

Exclude open files from transfers

Select this option to exclude nearline growing files off the priority storage list. Online clips or closed files are privileged.

Nearline Priority

Nea	arline	Priority
		Nearline Priority
Þ	1	Nearline A
	2	Nearline B
		contains elements on several near lines, ements will be ordered according to NL priority.

This parameter orders the storages used under the **Nearline** item of the previous Storage Priority table.

In a clip, only one high resolution XT clip element should exist but several instances of the same high resolution file may be spread over different Nearline storages.

For transfer performance reasons, storages which have better access bandwidths should be used in priority beside the less efficient ones.

7.8. SDTI Network Configuration

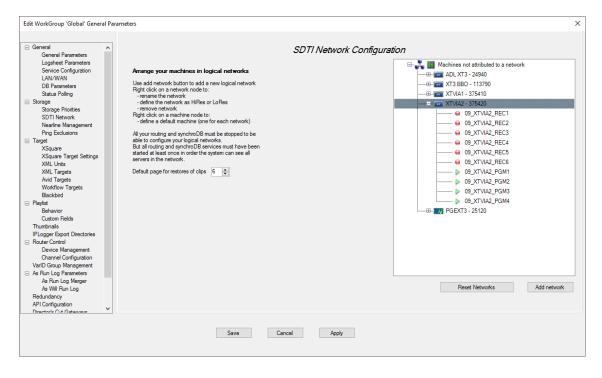
Purpose

The purpose of this tab is to create logical networks for the servers.

This tab is also used to specify the default page and server for restores of Nearline clips.

See section "Nearline Management Configuration" on page 80 for details.

Overview of the SDTI Network Tab



All Service IP API an

All Services (IPD-Routing, SynchroDB, IPDirector, IP-Scheduler, VTR Engine, IP Drive, IP API and Router Control) must be stopped to visualize this tab.

However, the services (IPD-Routing and SynchroDB) must have been started once before to list the servers within the IPDirector database.



How to Add a Network

The right pane of the SDTI Network tab displays all the servers found inside the database. The first time the system is configured , no machine is attributed to a network:

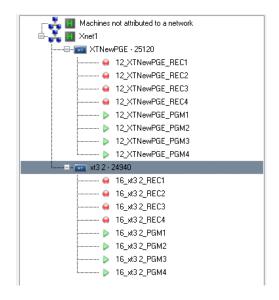
	ot attributed to a network
E 🚾 XTNewF	PGE - 25120
	12_XTNewPGE_REC1
🍚 '	12_XTNewPGE_REC2
😜 '	12_XTNewPGE_REC3
🍚 '	12_XTNewPGE_REC4
····· Þ ·	12_XTNewPGE_PGM1
····· Þ	12_XTNewPGE_PGM2
····· Þ	12_XTNewPGE_PGM3
Þ	12_XTNewPGE_PGM4
=	4940
······ 🍚	16_xt3 2_REC1
	16_xt3 2_REC2
	16_xt3 2_REC3
😜 '	16_xt3 2_REC4
Þ	16_xt3 2_PGM1
······ Þ	16_xt3 2_PGM2
····· Þ	16_xt3 2_PGM3
Þ	16_xt3 2_PGM4

1. Click the Add Network button:

The Add Network window appears:

🦂 Add Network	—
Name	Xnet1
ОК	Cancel

- 2. Enter a new logical network name (default names: Xnet1, Xnet2, Xnet3...).
- 3. Click **OK** to create the network and incorporate the list.
- 4. Repeat the Add Network operation to create all wanted logical networks.
- 5. Drag and drop the servers from the **Machines not attributed to a network** list to the new networks.



Possible Operations

Renaming Network

Right-click the name of a network and select **Rename Network**.

Removing Network

Right-click the name of a network and select **Remove Network**.

Setting the default server and page for restoring near line clips

1. Tag a server as default by right-clicking its name and selecting **Default Machine**.

The default machine is shown with this icon: 🔤 XT[2] 1

2. Select the page for receiving restored clips from the near line storages with the following parameter:

Default page for restores of clips 🧧 🤤

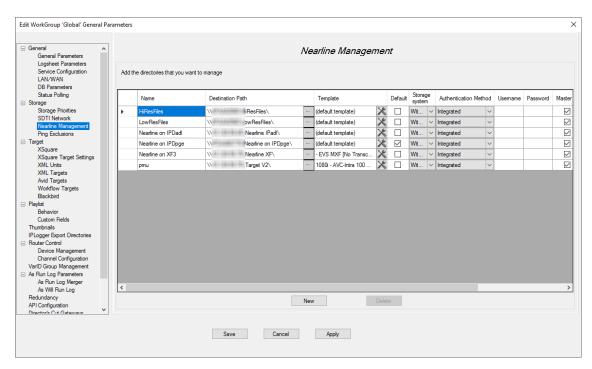


7.9. Nearline Management Configuration

Purpose

This tab is used to define and configure the nearline directories available on the network where clips will be managed by IPDirector.

The aim of the nearline management is to scan directories where clips are stored outside the server and waiting for an eventual restore. The clips are stored on a storage system which is referred to as a nearline directory.



Overview of the Nearline Management Tab

How to Create a New Nearline Directory

1. Click the **New** button to add a configuration line.

A new line is added to the list.

Name	Destination Path	Template		Default	Storag system		Authentication	Method	Username
HiResFiles	\\\\HiResFiles\	 (default template)	×		Wit	•	Integrated	•	
LowResFiles	\\\\LowResFiles\	 (default template)	×		Wit	•	Integrated	-	
Nearline on IPD adl	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 (default template)	×		Wit	•	Integrated	•	
Nearline on IPDpge	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 (default template)	×		Wit	•	Integrated	-	
Nearline on XF3	\\\ \Nearline XF\	 (default template)	×	V	Wit	•	Integrated	-	
1		 (default template)	X		Wit	-	Integrated	-	

2. Click in the Name column and give a name to the directory.

This name will appear in the IPDirector Backup to Nearline menu. It is used to identify the nearline directory in the IPDirector interface.

3. Define a Destination Path:

Select in the list or browse the network to define the folder where the files are sent, scanned or restored from.

This folder should be a UNC path to the network locations where the folder exists.

Be sure this folder is shared with full access rights.



Only UNC DNS name or IP address path are valid. (Ex: \\MachineName\Target\, \\1.1.1100\Target\)

No local path is valid.



It is NOT advised to specify IP Drive disk as a static nearline directory. This is because the management of removable disks is managed dynamically by the IP Drive service.

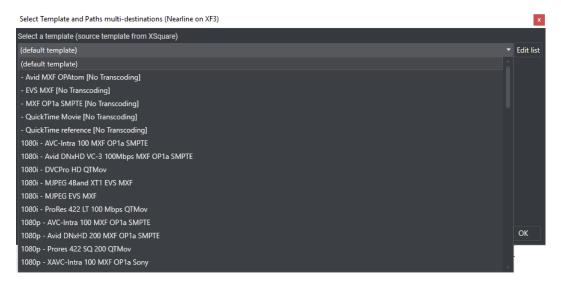


- 4. Select a VIA Xsquare template that will be used for backup to / restore from nearline operations. This can be:
 - the template selected as default template from the VIA Xsquare tab (see section "VIA Xsquare Parameters Definition" on page 90). Then, go to step 7.
 - another VIA Xsquare template: proceed with steps a to e below.
 - a. Click the key button next to the nearline being configured.

The Select Template and Paths Multi-Destinations window opens:



b. Click the arrow next to the **Template** field to display the list of available templates:



c. Select a template.

The selected template is listed in the window, as well as the nearline destination path:

Select Template and Paths multi-d	estinations	(Nearline on XF3)		x			
Select a template (source template	e from XSqu	are)					
- EVS MXF [No Transcoding]				▼ Edit list			
Set associated paths							
Destination Name	Nearline	Destination	Append folder (optional)	Syn			
- EVS MXF [No Transcoding]	V	\\10.129.59.70\Nearline XF\					
				OK			

In case of a multi destinations template, several lines are displayed:

Select Template and Paths multi-dest	inations (Ne	arline on IPDpge)		x				
Select a template (source template fro	om XSquare							
To High Res file + To Low Res file				▼ Edit list				
Set associated paths								
Destination Name	Nearline	Destination	Append folder (optional)	1				
📄 To EVS MXF file (High)	V	\\IPDA260770\Nearline on IPDpge\						
📄 To H264 0.8Mbps TS file (Low)	V	\\IPDA260770\Nearline on IPDpge\						
				_				
1				•				
				OK				

d. (optional) If you want to send the files to a sub-folder, enter the sub-folder name in the **Append folder** field.

In case of a multi destinations template, ilf you want to send a hi-res file and its corresponding lores file to distinct folders, enter the folder names in the **Append folder** fields.

Select Template and Paths multi-destinations (Nearline on IPDpge)								
Select a template (source template fro	om XSquare)						
To High Res file + To Low Res file				▼ Edit list				
Set associated paths								
Destination Name	Nearline	Destination	Append folder (optional)	:				
To EVS MXF file (High)	V	\\IPDA260770\Nearline on IPDpge\	HiRes					
To H264 0.8Mbps TS file (Low)	V	\\IPDA260770\Nearline on IPDpge\	LoRes					
				•				
				ОК				
				OK				

- e. In case of a multi destinations template, to synchronize the backup to nearline operations to one or several destinations,
 - i. In the Nearline column, only keep selected the **Nearline** option the settings of which will be applied to one or several destinations.

A **Synchronized** checkbox becomes available.

Select Template and Paths multi-destinations (Nearline on IPDpge)									
Select a template (source template from XSquare)									
To High Res file + To Low Res file									
Set associated paths	Set associated paths								
Destination Name	Nearline	Destination		Append folder (optional)					
📄 To EVS MXF file (High)	V	\\IPDA260770\Nearline on IPDpge\	HiRes						
To H264 0.8Mbps TS file (Low)		\\IPDA260770\Nearline on IPDpge\LoRes							



ii. Select the **Synchronize** option for the other destinations.

Select Template and Paths multi-destinations (Nearline on IPDpge)								
Select a template (source template free	Select a template (source template from XSquare)							
To High Res file + To Low Res file								
Set associated paths								
Destination Name	Nearline	Destination		Append folder (optional)				
📄 To EVS MXF file (High)	V	\\IPDA260770\Nearline on IPDpge\	HiRes					
📄 To H264 0.8Mbps TS file (Low)		\\IPDA260770\Nearline on IPDpge\LoRes						

The lo-res nearline will then follow the same path hierarchy than the one defined for the hires nearline. The Append folder will be taken into account as well.

The folders will be created as soon as a clip will be backed up to the selected nearline.

f. Click **OK**.

The selected VIA Xsquare template is displayed in the **Template** field for the configured nearline:

	Nearline on IPDadl	\\\10.	.Nearline IPadl\	 (default template)	x		Wit 🗸	Integrated	\sim
•	Nearline on IPDpge	\\IPE	Nearline on IPDpge\	 To High Res file + To L	×	\checkmark	Wit 🗸	Integrated	\sim
	Nearline on XF3	\\10.	.Nearline XF\	 - EVS MXF [No Transc	×		Wit 🗸	Integrated	\sim
	pmu	\\\10.	.Target V2\	 1080i - AVC-Intra 100	×		Wit 🗸	Integrated	\sim

5. (optional) Select the **Default** option if the directory must be defined as the default directory for all workstations.

This default nearline directory will be available from the list in the IPDirector Backup to Nearline menu.

- 6. Define the family of the nearline storage operating system from the Storage System column.
 - **With notifications** for all OS Windows based. An auto-notification of files is received on this kind of storage.
 - **Without notifications** for all other OS (Linux, UNIX...). Manual refresh needed for incoming files and notification only available for transfer.
 - No **scan/notifications**: in this case, there is no scan nor notification; another mechanism is in place, with a referencer to reference the assets.

The auto-notification is not supported with OS non-Windows based.

The EVS SAN storages are considered as Others Storage system if they were not produced or updated with a SAMBA OS version 3.0.33 (or higher). Please contact EVS Staff for further information.

- 7. From the Authentication Method column, define the authentication method used by the SynchroDB to scan and receive notification from the nearline storage.
 - **Integrated**: The IPDirector and nearline network is built with a common user (administrator) on every workstations and storages.
 - **User/Pwd**: The nearline storages have a user and password different than the IPDirector Network. SynchroDB services should be identified on the storage system with this user and password.



The EVS IPDirector workstations are all provided with a common Windows user called DVB (without password and member of the administrator group). It highly simplifies the network sharing. Thus, if the nearline directory is located on EVS storage (XStore, IP Drive...), the Authentication Method should be set to **Integrated**.

8. Specify the username for the authentication method User/Pwd.

If the authentication method is set to **Integrated**, the username is not taken into account.

9. Specify the password for the authentication method User/Pwd.

If the authentication method is set to **Integrated**, the password is not taken into account.

- 10. (optional) Select the **Master** option to generate and update XML Metadata files on the nearline.
 - If selected, the clip metadata are updated on the nearline.
 - If cleared, the clip metadata are modified in the IPDirector database only.



Typically, if two IPDirector workgroups manage the same nearline, one should be Master and the other not, avoiding update conflicts.



11. Set the access rights to the nearline directory.

Groups and user rights must have been defined from the User Manager application.

a. Click in the Access Rights cell on the nearline line



The Nearline Directory Access Rights window opens.

Near line directory access rights				×
Groups				
Group Name		Read	Write	
Stand-Alone Users				
Group A		\checkmark	\checkmark	
Group B				
Group C				
Clear Selection	Save	Car	ncel	

b. Select **Read** or **Write** for each group.

Selecting a **Read** box gives access to the visibility of the directory inside IPDirector (Restoring clips is allowed).

Selecting a **Write** box allows backup of clips from a server to a nearline directory (Reading is automatically allowed).



Select / clear the **Read** or **Write** checkbox at the top of the list to select / unselect all the groups at once.

• Click the **Clear Selection** button to clear all checked boxes.



Administrator accounts can Read and Write in all directories even if the rights are not configured.

12. (optional) Define the Cluster configuration



The Nearline Cluster configuration is designed for Storage Area Network (SAN). The configuration requires information provided by EVS Staff related to each specific project.

By default, keep this configuration window empty.

a. Click the **Cluster** button to open the cluster configuration:

🖳 Nearline Cluster 📃 💌
SAN Nearline postfix : -NL
Please enter here every IP address of servers that compose the cluster, included the one defined in the previous window.
IP Address
192.1
192.
192.
192.1
+ · Save Cancel

b. In the **San Nearline Postfix** field, enter the postfix (for e.g. –NL) which will be added to the nearline shared path name.

A hidden shared path is created on the SAN server in order to disable the cache on client workstations which browse growing files. It avoids browsing problems in the software player with this kind of files.

Thus normal shared path (\\Sanserver\Sharedpath) is used for standard browsing and the hidden shared path (\\Sanserver\Sharedpath-NL) for growing file browsing.

c. Enter the first server IP address in the default field.

The IP addresses list must contain all the server physical IP addresses (members of the SAN Cluster) in order to receive all file notifications.

Once a SAN is built with several servers, a virtual shared path is configured and gives a single common access to the storage. This virtual path is thus entered in the Destination Path field.

The notifications described previously in the Storage System section are only received from one member of the cluster if the all IP addresses are not listed.

- d. Click 🕩 to add a new line and enter the second server IP address.
- e. Repeat the steps till all IP addresses are entered.
- f. To delete a line, select it and click
- g. Click Save.
- 13. Once all nearline directories are configured, click the **Apply** button before configuring another target type.



How to Delete a Nearline Directory

1. Click on the nearline line to select it.

1110 01		Template		Default	Storage system		Authentication Method	Usernar
HiResFiles	\\ HiResFiles\		X		Wit	•	Integrated 💌	
LowResFiles	\\owResFiles\		×		Wit	-	Integrated 🗸	
Nearline on IPDadl	V Jearline IPadl		X		Wit	•	Integrated 💌	
Nearline on IPDpge	\\ Nearline IPDpge\		X		Wit	•	Integrated 🗸	
Nearline on XF3	V Nearline XFV	 - EVS MXF	X	V	Wit	-	Integrated 💌	
and all answed	and the second second	 1.000		~	\sim		~~~	/~/

2. Click the **Delete** button.

The Keep / Delete Archidel window opens:

Keep/delete Archidels	×
What do you want to do with Archidels in this nearline? Keep Archidels Delete Archidels	

- 3. Click one of the buttons:
 - **Keep Archidels**: the reference to the nearline files which have been archived by the HSM on the tape library will be kept. This allows a future restore on nearline in case the nearline storage is made available again later on, or a restore on another nearline.
 - **Delete Archidels**: the reference to the nearline files which have been archived by the HSM will be lost.

7.10. Ping Exclusions

From this tab, you can list all the IP addresses or hostnames that must be excluded from ping calls.

This can be useful when there is a problem during a failover of an XStore component.

7.11. VIA Xsquare Parameters Definition

Context of Use

Targets defined in VIA Xsquare, also called SOAP jobs, are available in IPDirector to send media items to (send to (VIA Xsquare) targets operations triggered from IPDirector).

The backup to nearline or to IPDrive operations, the restore to XT operations and the copy by GigE operations triggered from IPDirector are performed according to VIA Xsquare templates.

All these operations are possible provided that VIA Xsquare has been declared in the Remote Installer and that it is reachable.

The VIA Xsquare targets configuration is done in VIA Xsquare and must fulfill some requirements detailed in the current section.

The nearline configuration, with the selection of an VIA Xsquare template, is described in section "Nearline Management Configuration" on page 80. The configuration of the IPDrive service, with the selection of an VIA Xsquare template, is described in section "Configuring IP Drive" on page 186. The selection of a default template is done from the VIA Xsquare tab.

How to Set VIA Xsquare Parameters and Check the Connection

- 1. Click the **Configure** button to access the Edit Workgroup window.
- 2. Go to the Xsquare tab.

Edit WorkGroup 'Global' General Parameters		×
General Carameters Logsheet Parameters Service Configuration LAN/WAN	XSquare Configuration	
DB Parameters Status Polling Storage	XSquare backend user will be logged on as	
Storage Priorities SDTI Network Nearline Management Ping Exclusions	Login : Administrator Password : ***	
XSource XSource Target Settings XML Units XML Targets And Targets Workflow Targets Blackbrid	XSquare address XSquare Address Check Connection Xsquare Targets Configuration About	
Playlist Behavior	API Version 4.9	
Custom Fields Thumbnails IPLogger Export Directories	Default XSquare Template To MXF OP Atom file (Used for operation Backup to Nearline and IPDrive) Template for copy GigE & restore to XT No template/recommended) v ?	
Router Control Device Management Channel Configuration	Template for flatten to XT No template (recommended) V	
VarID Group Management As Run Log Parameters As Run Log Merger	Automatically import IPD users in XSquare and synchronize their password Automatically import IPD users in XSquare and synchronize their password Automatically import IPD users in XSquare and synchronize their password	
As Will Run Log Redundancy API Configuration Director's Crit Catewayer		
	Save Cancel Apply	

3. Make sure that the login and password correspond to the administrator user.

The default administrator login and password are pre-filled.

4. Enter the IP address of the workstation hosting VIA Xsquare in the **Xsquare Address** field.

5. Check the connection with VIA Xsquare by clicking the **Check Connection** button.

The result is written in the **About** field.

The **API version** information shows the required VIA Xsquare API version. It is written in DB and cannot be edited.

6. (optional) To edit the VIA Xsquare targets set from VIA Xsquare, click the **Xsquare Targets Configuration** button.

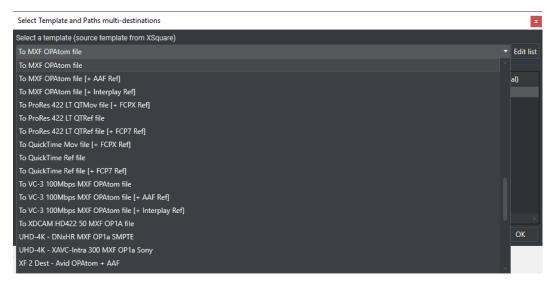
The VIA Xsquare Targets Browser window opens and displays the list of VIA Xsquare targets predefined in VIA Xsquare and published to the user currently logged in the Remote Installer.

xs	Square Targets Browser					- 🗆 X
≞	VIA XSQUARE Tar	gets	D			A ili
Q :			S Add	new		
>	Label		Name	Template		Bandwidth throttl 🔲
>	📗 File	Ľ	Xsquare 3	To EVSMXF file	Ľ	Disabled
>	🔟 Xedio	Ľ	To Xedio CE	- MXF OP1a SMPTE [No Transcoding]	Ľ	Disabled
>	Pr Adobe	Ľ	EVS EDL to FCP X:L f	MXF OP1a SMPTE + Adobe XMP for Win.	Ľ	Disabled
>	📄 File	Ľ	Xsquare 2	1080p - AVC-Intra 100 MXF OP1a SMPTE	Ľ	Disabled
>	📑 File	Ľ	Multi	To High Res file + To Low Res file	Ľ	Disabled
>	📄 File	Ľ	Xsquare 1	- MXF OP1a SMPTE [No Transcoding]	Ľ	Disabled

- 7. Select a VIA Xsquare template that will be used as default template for operations such as backup to nearline / IP Drive. By default, the **Default Xsquare template** field is empty.
 - a. Click the button.

The Select Template and Paths Multi-Destinations window opens.

b. Click the arrow next to the **Template** field to display the list of available templates:





c. Select a template.

The selected template is listed in the window:

Select Template and Paths multi-destinations							
Select a template (source template from XSquare)							
To MXF OPAtom file Edit I							
Set associated paths							
Destination Name	Nearline	Destination	Append folder (optional)				
To AVID MXF OPAtom file (no transcoding)	V	(Nearline/IPDrive Path)					
			ОК				

d. Click Save.

The default VIA Xsquare template is displayed in the **Default Xsquare Template** field:

Default XSquare Template	To MXF OPAtom file	×	(Used for operation Backup to Nearline and IPDrive)
--------------------------	--------------------	---	---

The selected default template will be used for the backup to nearline and to IPDrive operations. If you need to use an other template for a specific nearline/IPDrive, you need to modify the configuration in the Nearline tab (see section "Nearline Management Configuration" on page 80) or in the IPDrive configuration of the local workstation (see section "Configuring IP Drive" on page 186).

- 8. Select a VIA Xsquare template that will be used for operations such as Copy by GigE and restore (from nearline / IP Drive) to XT.
 - a. Click the arrow next to the **Template for Copy by GigE & Restore to XT** field to display the list of available templates:

No template(recommended) 🗸
No template(recommended)
To EVS - HLG to SDR 3DLUT
To EVS - HLG to SDR 3DLUT NBC
To EVS - HLG to SDR Adaptive
To EVS Server clip (Same Codec as source)
To EVS Server clip (Same Codec as target)
To EVS Server clip XAVC 1080i

- b. Select a template.
- 9. Select a VIA Xsquare template that will be used for flatten to XT operations.
 - a. Click the arrow next to the **Template for flatten to XT** field to display the list of available templates.
 - b. Select a template.
- 10. (optional) Select the **Automatically import IPD users in Xsquare and synchronize their password** option so that user names and passwords created in IPDirectorUser Manager are automatically imported into VIA Xsquare when a user logs in to IPDirector.

The user automatically belongs to the **Xsquare users** group in VIA Xsquare and has visibility on the targets published to that group.

In case a user changes the IPDirector password, this will be updated in VIA Xsquare upon logging in to IPDirector.

By default, the option is cleared.

11. Set the parameter Minimum number of targets before grouping in contextual menu.

When the number of VIA Xsquare targets reaches this setting, targets will be grouped in a sub-menu in the Send to menu of the Database Explorer.

Default value: 4

Minimum value: 2

Constraints for the Configuration of Targets in VIA Xsquare

This section describes actions which must be performed in VIA Xsquare to ensure a proper working of VIA Xsquare targets in IPDirector.

Creation of VIA Xsquare Roles

This is done from **Administration > Roles**.

- A VIA Xsquare role must be created for each IPDirector user and defined as follows: _username.
- These roles must be granted the rights to read and modify targets published to the group(s) the corresponding user belongs to.

Creation of VIA Xsquare Groups

This is done from **Administration > Groups**.

• VIA Xsquare group(s), corresponding to the groups created in the User Manager, must be created.

Creation of VIA Xsquare Users

This is done from **Administration > Users & Access**.

• This step must be done if the Automatically import IPD users in Xsquare and synchronize their password option is not selected.

Users must be created in VIA Xsquare, so each IPDirector user has a VIA Xsquare account with the same access codes (login/username and password) in both applications.

- The VIA Xsquare role created for each user must be assigned to the right user.
- Each user must be assigned to the same group of users in the User Manager application and in VIA Xsquare.

Publication of Targets

This is done from **Job Initiators > Targets SOAP Jobs**.



• Each VIA Xsquare target must be published to a group of users to allow them to view the VIA Xsquare target from IPDirector.

7.12. XML Unit Configuration

Purpose of XML Unit

XML units must be defined if you plan to:

- Manually select the destination folder where the clips will be moved to.
- Send a clip to a CleanEdit system.
- Send a clip to an Avid system using the Transfer Manager.
- Send a clip to a Final Cut Pro.
- Send a clip to an EVS video server on another network.



The default archive procedure (send to \rightarrow default archive) from the IPDirector interface, does not use XML unit process.

Overview of the XML Unit Tab

Edit WorkGroup 'Global' Gene	ral Para	meters										×
 General General Parameters 	^				XML Unit C	Configu	uration	7				
Logsheet Parameters Service Configuration LAN/WAN DB Parameters Status Polling Storage Storage Priorities				- the config sess	h is the root folder of xml sca ion, XML tab of the XFile scan dialog box of XT Acces	-	defined in:		tween two XML	File sent (i	n seconds) : 15	÷
SDTI Network Nearline Management			Name	Path			Default	Туре	Fallback		XML File Prefix	View config
Ping Exclusions		•	XML Unit pge	\\\ XML U	nit\		\checkmark	IP v	/ N/A	~		View config
Target XSquare XSquare XSquare Target Settings XVIL Units XML Targets XML Targets Middlow Targets Blackbird Playlist Behavior Custom Fields Thumbnails IIPLogger Export Directories Router Control Device Management Channel Configuration VarID Group Management VarID Group Management As Run Log Parameters As Run Log Management As Run Log Managemen												
Redundancy API Configuration					New			Delete				
Diractor's Cut Gataurane	*			Save Can	cel Apply							

Delay between two XML file sent (in seconds)

This parameter indicates the time (in seconds) between 2 XML files sent to an XML unit from one IPDirector workstation.

What is it used for?



The VIA Xsquare system executes the XML instructions of one XML unit based on their creation time. If one IPDirector workstation on the network sends lots of instructions at one time, it could delay the execution time of other IPDirector instructions.

This parameter allows the system to minimize this kind of bottleneck by spacing the time in which one system can send consecutive instructions to an XML unit.

Default value: 15 Seconds

Types of XML Units

XML unit (type IP) is an XML folder located on the network and scanned by the VIA Xsquare application. VIA Xsquare is designed to manage clip transfers on the network using the server Gigabit feature.

A XML unit (type SDTI) is an XML folder located on one XF workstation where all XML files (corresponding to a backup request, a clip export to a CleanEdit, AVID system, FCP system or Nearline) will be sent.



The SDTI type is no more used. Only VIA Xsquare XML unit (IP type) is validated.

How to Create a XML Unit

1. Click the **New** button to add a new unit.

A new line is added in the unit list.

	Name	Path	Default	Туре	Fallback	XML File Prefix	View config
•				IP 💌			View config
	the second states and second	اللي هذه المناهد ال			man and		and the second
		New		Dele			

2. Click in the **Name** column and give a name to the unit.

This name is mainly for purposes of administration, and defining the XML processing device later in the configuration.

3. Click the **Browse** button in the **Path** column to select the folder where the XML files will be sent.

The Browse for Folder window opens.

This folder should be a UNC path to the network location where the folder exists. Be sure this folder is shared with full access rights.

4. (optional) If the unit is to be defined as the default unit for all workstations, select the box in the **Default** column of the unit.

5. Specify the type of the XML Unit from the **Type** column:



- **SDTI**: Do not use this option anymore.
- **Hybrid**: This mode is not used and will be removed in a future version.
- IP: Use this option if the XML Unit is a VIA Xsquare folder.

Please refer to the VIA Xsquare user manual.

6. (optional) Select another SDTI XML Unit in the **Fallback** column to ensure a failover process if this one is not responding (mostly use to switch from an IP XML Unit to a SDTI XML Unit).



Create first the other XML Units and click **Apply** to add them in the Fallback XML Unit list.



The XML File Prefix parameter is no more used.

7. (optional) Click the **View config** button to check the XML Unit status (**Offline** or **Online**) from the XML Unit Configuration window:

XMLUnit Configuration	—
Description of the functionalit	ies available on the xml unit:
📝 Clip Backup	📝 Grab
📝 Playlist Backup	📝 Stream
🔲 XT Gateway	
Directory Type	Private
Status	Online
	ОК

- 8. Once all XML Units are configured, click on the **Apply** button.
- 9. Once all the XML units are configured, click on the **Apply** button before configuring another target type.

All paths are checked when the configuration is applied. If a path is not reachable, a warning message appears. The configuration is saved anyway.

What is the XML Unit LiveBit?

EVS XML Unit (VIA Xsquare) generates an XML file located on the root of the XML Unit.



This file is refreshed every 30 seconds and updates its status and capabilities.

Before sending an order to an XML Unit, IPDirector can check if this one is online or not and if the wanted job can be done or not.

Example of an VIA Xsquare XML Unit folder:

File Edit View Tools Help								
Organize 🔻 🔭 Open 🛛 Incl	ude in library 👻 Share with 👻 New folde	er		•== •		?		
★ Favorites	Name	Date modified	Туре	Size				
	퉬 History	12/May/2014 12:51 PM	File folder					
📃 Desktop	퉬 Jobs_DeadEnd	12/May/2014 12:44 PM	File folder					
🥽 Libraries	🌗 Jobs_Done	28/May/2014 2:25 PM	File folder					
📑 Documents	Jobs_In_Progress	28/May/2014 2:25 PM	File folder					
👌 Music	Jobs_Incoming	28/May/2014 2:25 PM	File folder					
Pictures	\mu Jobs_Scheduled	28/May/2014 2:25 PM	File folder					
📑 Videos	\mu Jobs_To_Monitor	12/May/2014 12:44 PM	File folder					
DVB	LiveBit_Xsquare_IPDA184130.xml	16/Oct/2014 11:17 AM	XML Document		1 KB			
🖳 Computer 🔹 🔻								

Inside the XML Unit tab, the **View config** button will display this status as long as VIA Xsquare is launched and is scanning the XML Unit folders:

XMLUnit Configuration				
Description of the functionalities available on the xml unit:				
📝 Clip Backup	⊽ Grab			
📝 Playlist Backup	🔽 Stream			
📄 XT Gateway				
Directory Type	Private			
Status	Online			
	ОК			

The status is **Online** or **Offline** and the Directory Type is **Private** or **Load Balancing**. The functionalities available on the XML Unit are shown with selected boxes.



This **View config** feature is just a status window. It cannot be edited or modified.

How to Delete a XML Unit

1. Click on the XML unit line to select it.

View config	XML File Prefix		<	Fallback		Туре	Default		Path	Name	
View config		-	it 1	XML Uni	-	IP	V		\\DB64500\LoadBAL\	LoadBalancing	
View config		-	it 2	XML Uni	-	IP			WXSTORE64580WTAccess_XM	XML Unit 1	
	a materia		1 and						and the second second	المردية المحصور والمراجع	
						-	-				-
	these second second							_	at take as a		
	in	1									
		1			Dele			1	New		-

2. Click the **Delete** button.

If the XML Unit is declared as a Fallback unit in another line, a warning message appears.

- a. Click **Yes** to delete the XML Unit and reset the fallback association in other lines.
- b. Click **No** to keep the XML Unit line and abort the delete order.



7.13. XML Targets Configuration

7.13.1. Overview of the XML Targets Tab

This tab is used to configure all the different targets based on XML unit from the same place.

A XML unit must have been created before configuring any target.

General A General Parameters Logsheet Parameters			Configu	ıration of targets based on	XML Unit		
Service Configuration LAN/WAN DB Parameters	Show All Targets						
Status Polling	Send A/V to: Sea	rch:		Show All			
Storage Storage Priorities	File On Shared Drive	Name	Туре	Destination path/Avid Name	XML Unit	Currently published to	Publish
SDTI Network		To XF3	File	\\1 0\Target V1\	··· Default XML 🗸		Publish
Nearline Management Ping Exclusions	Avid	To CE	CE	V VV 0\HiResFiles	··· Default XML ~		Publish
Target	Final Cut Pro	Target V1	File	V VV Target V1	··· Default XML ~		Publish
XML Targets Avid Targets Workflow Targets Blackbird Playlist Behavior Custom Fields Thumbnails IPLogger Export Directories Router Control Device Management Channel Configuration VarD Group Management	An XT on another network Reference A/V: XML File on Shared Drive Target groups: Group of targets						

Show All Targets

Displays all configured XML targets. Editing of the individual fields is not allowed with the exception of the publish feature which is available.

Send A/V to

- File On Shared Drive: Allows configuring conventional folder targets.
- Avid TM: Allows configuring Avid targets via an AVID Transfer Manager, Web Services or Stand Alone mode.
- Final Cut Pro: Allows configuring dedicated Final Cut Pro targets.
- Clean Edit: Allows configuring Clean Edit targets with A/V material.
- **An XT on another network:** Allows configuring XT (server) export targets.

Reference A/V

• **XML File on Shared Drive:** Allows configuring targets which use a XML file for referencing the backup job.

Target groups

• **Group of targets:** Allows grouping several pre-defined targets into a single one.



Once all targets and groups are configured, click on the **Apply** button in order to validate all the created targets.

If you click the **Show All Targets** button, a target summary is displayed.

7.13.2. File On Shared Drive Configuration

Introduction

This tab is used to pre-configure the destination directories where clips can be sent from the IPDirector interface using the **Send To** option.

Click the **File on Shared Drive** button on the left to access the File on Shared Drive configuration parameters.

File archive targets are usually created in advance from the Remote Installer. However, a new destination target can also be created from the IPDirector interface, from the Send To menu.

How to Create a new File On Shared Drive Target

1. Click the **New** button to add a new folder.

A new line is added in the list.

	Name	HiRes Destinatio path	m	XML Unit		HiRes File Forma	ət	LoRes Path	XML Unit LoRes	XML Metadata file	XML file path	Play Typi
•			•	Default XML	•	EVS MXF	•		N/A 🔻	V		··· Flatte
		den en e	~	مەرىپىي ر دەرىپىي								
•												•
					Ne	w		Delete				

2. Click in the **Name** column and give a name to the target.

This name will appear in the IPDirector Send To menu. It is used to identify the destination target in the IPDirector interface.



3. Define a HiRes Destination Path:

Select in the list or browse the network to define the folder where the HiRes files are sent.

This folder should be a UNC path to the network locations where the folder exists.

Be sure this folder is shared with full access rights.



Only UNC DNS name or IP address path are valid. (Ex: \\MachineName\Target\, \\1.1.1.100\Target\)

No local path is valid.

- 4. Select the XML unit used to perform the HiRes job (using the Gigabit network). Choose one specific unit in the list if the job must be performed by the VIA Xsquare system where this XML unit is located (the XML unit is linked to the destination target).
- 5. Select the HiRes file format among MXF EVS, OP1A MXF XDCAM, QuickTime Movie, QuickTime Reference, Avid MXF OPAtom, DV-DIFF, OP1A MXF SMPTE or Wave format.

It defines the type of files which will be created by the VIA Xsquare system.



The LoRes Path and the XML Unit LoRes are no more used.

6. (optional) Select the XML Metadata File option.

If the box is selected, IPDirector sends XML metadata files linked to clips.

IPDirector includes extended metadata stored in the database. When clips are exported to targets, metadata can be joined in XML files created in the same target clip folder or in a different one.

7. Define the XML file path if you have selected the **XML Metadata File** option.

This is the target folder which receives the XML metadata files. This folder can be the same folder as the Backup Destination Directory or a different one.

Be sure this folder is shared with full access rights.

- 8. Publish the destination target to groups which need visibility to it:
 - a. Click the **Publish** button.

The Publish window pops up.

Publish		,
Available groups		Selected groups
Group 2 Group 3		Group 1
	>	
	<	
		Clear selection
		Publish Cancel

Groups are created in the User Manager application.

- b. Select group(s) in the left side.
- c. Click the arrow > to push group(s) to the right side.
- d. Click the **Publish** button.
- 9. Select the backup type of the playlist:
- EDL and clips: All playlist elements become files and an XML file is created in the same destination folder with the EDL information.
- EDL and flatten file: The playlist is rendered into a single file and an XML file is created in the same destination folder with the EDL information.
- EDL only: An XML file is created in the same destination folder with the EDL information.
- Flatten file only: All playlist elements become files and no XML file is created.
- 10. Once all File on Share Drive targets are configured, click on the **Apply** button before configuring another target type.



How to Delete a File On Shared Drive Target

1. Click on the line header to select it.

	Name	HiRes Destination path	ⁿ XML Unit	HiRes File Form	at LoRes Path	XML Unit LoRes	XML Metadata file	XML file path	Play Typ
Þ	External Backup	\\PC2U1000 •	▼ XML Unit 1 🛛	EVS MXF	•	▼ N/A	-		··· Flatte
a day								and the second second	
< □									

2. Click the **Delete** button.

7.13.3. Avid Configuration

Introduction

This tab must be used to define and configure the different AVID destination target(s) available on the network where clips are to be sent from the IPDirector interface using the **Send To** option

Click the **Avid** button in the left menu:

Send A/V to:			-		ager, web services or a stand-alo				
File On Shared Drive		-			when working with a Transfer M play URI when working with we	-			
Avid		Web services host format: h URI format: interplay://[work		sets					
Final Cut Pro		Name	Target Type		Avid Ingest Device / Web services Host	Workspace Name / Interplay URI	Interplay User	Password	Destination
Clean Edit	•	AVID WebService	Web services	-	http://1.1.10.10:9000/servi	interplay://AvidWG/Incomi	Administrator		\\1.1.10.10\
An XT on		AVID TM	Transfer Manager	-	EVSDevice	From EVS			
another network		AVID StandAlone	Stand Alone	-					\\1.1.10.10\
Reference A/V:									
XML File on Shared Drive									
arget groups:									
Group of targets									
	<								3

There are now three kinds of AVID targets:

- The AVID Transfer Manager
- The AVID Webservices (allows sending playlists and timelines)

• The AVID StandAlone (without checking to an AVID Interplay)



XML Unit creation is required before configuring any AVID target.



Webservices requires the usage of AVID Interplay

How to Create a New AVID Transfer Manager Target

1. Click the **New** button to add a new target. A line is added in the unit list.

	Name	Target Type	Avid Ingest Device / Web services Host	Workspace Name / Interplay URI	Interplay User	Password	Destination p
•		the environment the second second	•				
. Caller	and the second	and the second second	and a state of the state of the		and the state	••••••••••	and the second second
. editor	and the second	and a great	and the second s			·	-

- 2. **Name**: Give a name to the AVID Transfer Manager target. This name will appear in the IPDirector Send To menu. It is used to identify the AVID target in the IPDirector interface.
- 3. Target Type: Select the target type Transfer Manager.

4. Avid Ingest Device (/Webservices Host):

Enter the name of the Ingest Name for the interface with Avid Transfer Manager Server. This information is used by Avid Transfer Manager Server to specify from which ingest device the transfer is initiated.

Default: EVSDevice

5. Workspace Name (/Interplay URI):

Enter the Avid workspace name dedicated to this target (optional). The exported clips could be sorted in different workspaces on the AVID side.

Use of this function requires an Asset Management system on the AVID system like Media Manager or Interplay.

Default: <Blank>

6. Interplay User – Password – Destination path:

These fields are not used and cannot be edited if the target type is Transfer Manager.

7. XML Unit:

Specify the XML unit which will be used to perform the job. This unit should be located on the VIA Xsquare workstation which will dialog with the AVID Transfer Manager Server.



Ø

VIA Xsquare XML Unit can be selected for a Transfer Manager target type.

Please refer also to the VIA Xsquare User Manual for an AVID Transfer Manager configuration.

8. Playlist Backup Type:

This field is not used and cannot be edited if the target type is Transfer Manager.

It is not possible to send playlist or timeline through a Transfer Manager.

9. Publish:

If this destination target must be visible to other groups, click on the **Publish** button and a new window pops up to allow you to publish to different groups. Select group(s) in the left side and click the arrow > to push group(s) to the right side. Finally, click on **Publish**.

Group 2 Group 3		Group 1
	>	
	<	
		Clear selection

How Create a New AVID Web Services Target

1. Click on the **New** button to add a new target. A line is added in the unit list.

	Name	Target Type	Avid Ingest Device / Web services Host	Workspace Name / Interplay URI	Interplay User	Password	Destination
•		in approxime in the second approximent	•				
	A second second		and a state of the second	and the second se			
	مىرى ب	and a second second	and a second		and the state		
	مىسى بى ا	and a great	and the second		and the	• ••••••••	
	مىر بى		and a second			•	
	مىرى بى مەربى						
						•	

2. Name:

Give a name to the AVID Web services target. This name will appear in the IPDirector Send To menu. It is used to identify the AVID target in the IPDirector interface.

3. Target Type:

Select the target type **Web Services**.

4. (Avid Ingest Device) / Webservices Host:

Enter the host address link to the Webservices on the Avid Interplay System. This information is used by VIA Xsquare to connect specific host and ports dedicated to the target.

Default: http://[ip]:[port]/services/Asset

[ip]: IP address of the computer where the Avid Webservices are running.

[port]: The port configured for your Avid Webservices

5. (Workspace Name) / Interplay URI:

Select in the list or browse the network to define the path where the clip/playlist will be seen in the Interplay DB. Sub-folder can be added after the Incoming Media folder.

Default: interplay://[workgroup]/Incoming Media

[workgroup]:the AVID workgroup target.

6. Interplay User:

Enter the name of an AVID user which has the Interplay entry right.

7. Password:

Enter the password of the previously defined Interplay user.

8. Destination path:

Enter the path where the OPAtom files are saved on the AVID Storage.

Default: \\[ip]\Avid Mediafiles\



The AVID Webservices target always sends OPAtom files. There is no file type configuration for this kind of target.



The destination path should match with the Avid MXF OPAtom storage on the AVID system.

9. XML Unit:

Specify the XML unit which will be used to perform the job. This XML unit is located on a VIA Xsquare workstation which interacts with the AVID computer where the Webservices are running.



Only VIA Xsquare XML Unit can be selected for a Web services target type.

Please refer also to the VIA Xsquare User Manual for an AVID Webservices configuration.

10. Playlist Backup Type:

Define the type of the backup for the playlist and timeline.

- EDL and Clips: VIA Xsquare transfers all the clips and create an AVID sequence which references all playlist and timeline elements.
- EDL only: not supported.



• Flatten file only: VIA Xsquare concatenates the playlist or the timeline in a single media file on the AVID storage.

11. Publish:

- a. If this destination target must be visible to other groups, click on the **Publish** button and a new window pops up to allow you to publish to different groups.
- b. Select group(s) in the left side.
- c. Click the arrow > to push group(s) to the right side.
- d. Click Publish.

	×
	Selected groups
	Group 1
>	
<	
	Clear selection
	Publish Cancel

How to Create a New AVID StandAlone Target

1. Click the **New** button to add a new target. A line is added in the unit list.

	Name	Target Type	Avid Ingest Device / Web services Host	Workspace Name / Interplay URI	Interplay User	Password	Destination p
•		🕂 secilita (Anacigado) 🗸 🔻					
. All the second	and the second s	and a grad	and the second of the second s				and the second second
			· · · · · · · · · · · · · · · · · · ·				
•		III					F.
			New	Delete			

2. Name:

Give a name to the AVID StandAlone target. This name will appear in the IPDirector Send To menu. It is used to identify the AVID target in the IPDirector interface.

3. Target Type:

Select the target type **StandAlone**.

4. Webservices Host - Interplay URI - Interplay User - Password:

These fields are not used and cannot be edited if the target type is StandAlone, as there is Interplay referencing engine.

5. Destination path:

Enter the path where the OPAtom files are saved on the AVID Storage.

Default: <u>\\[ip]\Avid</u> Mediafiles\



The AVID Webservices target always sends OPAtom files. There is no file type configuration for this kind of target.



The destination path should match with the Avid MXF OPAtom storage on the AVID system.

6. XML Unit:

Specify the XML unit which will be used to perform the job. This XML unit is located on an VIA Xsquare workstation which interacts with the AVID computer where the Webservices are running.



Only VIA Xsquare XML Unit can be selected for a Web services target type.

Please refer also to the VIA Xsquare User Manual for an AVID Webservices configuration.

7. Playlist Backup Type:

Define the type of the backup for the playlist and timeline.

- EDL and Clips: VIA Xsquare transfers all the clips and create an AVID sequence which references all playlist and timeline elements.
- EDL only: not supported.
- Flatten file only: VIA Xsquare concatenates the playlist or the timeline in a single media file on the AVID storage.

8. Publish:

- a. If this destination target must be visible to other groups, click on the **Publish** button and a new window pops up to allow you to publish to different groups.
- b. Select group(s) in the left side.
- c. Click the arrow > to push group(s) to the right side.
- d. Click on Publish.

Group 2 Group 3		Group 1
	>	
	<	
		Clear selection



How to Delete an AVID Target

1. Click on the line header to select it.

	Name	Target Type		Avid Ingest Device / Web services Host	Workspace Name / Interplay URI	Interplay User	Password	Destination p
	AVID WebService				interplay://AvidWG/Incomi	Administrator		\\1.1.10.10V
	AVID TM	Transfer Manager	Ŧ	EVSDevice	From EVS			
	AVID StandAlone	Stand Alone	-					\\1.1.10.10V
•								Þ

2. Click the **Delete** button.



Once all AVID targets are configured, click on the **Apply** button before configuring another target type.

7.13.4. Final Cup Pro Configuration

Introduction

This tab must be used to define and configure the different Final Cut Pro destination target(s) available on the network where clips are to be sent from the IPDirector interface using the **Send To** option.

Click the Final Cut Pro button in the left menu:

	Name	Destination path	XML Unit	File Format	XML Metadata file	FCP xml	QT Movie Local Path	EDL Path
•	FCP	\\MacPro\Movie\ 🔹	XML Unit 2 🔹	QT Mov 💌	V	1	///Users/EVS/Movie	\\MacPro\E[
۲.								Þ
		N	ew D	elete				



XML Unit creation is required before configuring any FCP target.

How to Create a new Final Cut Pro target

1. Click the **New** button to add a new target. A line is added in the unit list.

	Name	Destination path	XML Unit	File Format	XML Metadata file	FCP xml	QT Movie Local Path	EDL Path
+		•	Default XML Unit 🔹	QT Mov 🔻	V			
•								4
		N	ew D	elete				

2. Name: Give a name to the Final Cut Pro target.

This name will appear in the IPDirector Send To menu. It is used to identify the destination target in the IPDirector interface.

3. **Destination Path**: Select in the list or browse the network to define the folder where the files are sent.

This folder should be a UNC path to the network locations where the folder exists. Be sure this folder is shared with full access rights.



Only UNC DNS name or IP address path are valid. (Ex: \\MachineName\Target\, \\1.1.1.100\Target\)

No local paths are valid.

4. XML Unit: Select the XML unit used to perform the job (using the Gigabit network).

Choose one specific unit in the list if the job must be performed by the VIA Xsquare system where this XML unit is located (the XML unit is linked to the destination target).

5. **File Format**: Choose the QuickTime Movie or QuickTime Reference format.

It defines the type of files which will be created by the VIA Xsquare system.

6. XML Metadata file: If the box is selected, IPDirector sends XML metadata files linked to clips.



IPDirector includes extended metadata stored in the IPD database. When clips are exported to targets, metadata can be joined in XML files created in the same target clip folder.

- 7. **FCP xml**: If the box is selected, IPDirector generates an XML file to be imported into Apple Final Cut Pro. This allows importing EVS custom metadata. Only 6 EVS custom metadata can be imported in Final Cut Pro Project fields:
 - EVS Keyword 1 -> Master Comment 1
 - EVS Keyword 2 -> Master Comment 2
 - EVS Keyword 3 -> Master Comment 3



- EVS Rating -> Master Comment 4
- Clip Number -> Comment A
- Camera ID -> Comment B
- 8. **QT Movie Local Path**: This path is the local path referenced into the XML FCP to point to the Quick Time Movies File. Final Cut Pro only supports local path and the format used is an APPLE UNC Path.



It is mandatory to fill this parameter if the FCP XML box is selected. The path informs the FCP that clips are linked to the received XML metadata files.

9. EDL Path: Select in the list or browse the network to define the folder where the EDL files are sent.

This folder should be a UNC path to the network locations where the folder exists. Be sure this folder is shared with full access rights.



Only UNC DNS name or IP address path are valid. (Ex: \\MachineName\Target\, \\1.1.1.100\Target\)

No local paths are valid.

- 10. Playlist Backup Type: Defines the type of the backup for the playlist and timeline.
 - EDL and Clips: VIA Xsquare transfers all the clips and create an EDL file which references all playlist and timeline elements. The EDL would be loaded in the Apple Final Cut Pro.
 - EDL only: not supported.
 - Flatten file only: VIA Xsquare concatenates the playlist or the timeline in a single media file on the Apple Final Cut Pro storage.
- 11. Publish: If this destination target must be visible to other groups,
 - a. click the **Publish** button and a new window pops up to allow you to publish to different groups.
 - b. Select group(s) in the left side and click the arrow > to push group(s) to the right side.
 - c. Click the **Publish** button.

Group 2 Group 3		Group 1
	>	
	<	

12. **Advanced**: This optional parameters allow forcing the Pad Output to IMX50, selecting Mono/Stereo for audio and selecting the number of audio bits between 16/24.

FCP Advanced Options	
Pad output to IMX 50	
Mono/Stereo	-
Number of Audio Bits	•
Ok	Cancel

13. Pad output to IMX 50: If the box is selected, the metadata of the exported clip flags it with an IMX 50 video codec even if the clip is coded in IMX 30 or IMX 40.

14. Mono/Stereo:

- If the setting is blank, the original audio configuration is not affected.
- If the setting is set to **Mono**, the audio tracks are identified as separated mono tracks.
- If the setting is set to **Stereo**, the audio tracks are identified per pair of stereo tracks.

15. Number of Audio Bits:

- If the setting is blank, the original audio configuration is not affected.
- If the setting is set to **16**, the audio format is converted to 16 bits.
- If the setting is set to **24**, the audio bit format is converted to 24 bits.

How to Delete a Final Cut Pro Target

1. Click on the line header to select it.

	Name	Destination path	XML Unit	File Format	XML Metadata file	FCP xml	QT Movie Local Path	EDL Path
Þ	FCP	\\MacPro\Movie\ 🗸	XML Unit 2 🗸	QT Mov 🔻	V	V	///Users/EVS/Movie	\\MacPro\E[
•						_		P.
			lew D	elete				

2. Click the **Delete** button.



Once all FCP targets are configured, click the **Apply** button before configuring another target type.

7.13.5. CleanEdit Configuration

Introduction

This tab is used to define and configure the different CleanEdit destination target(s) available on the network where clips are to be sent from the IPDirector interface using the **Send To** option.

Click the **CleanEdit** button in the left menu:

_									
	Name	Destination path	XML Unit	XML Unit HiB		at	LoRes Path	XML Unit LoRes	DSN Nam
•	CE	\\XStore64580\HiResFiles\	· XML Unit 1	-	EVS MXF	•	\\XStore64580\LowResFiles\	XML Un 🔻	Clear
	~_/~_/	a constant of	б						
•									F
			New		Delete				



First create XML Unit(s) before configuring the CleanEdit destination target(s) from this tab.

How to Create a New CleanEdit Target

1. Click the **New** button to add a new target. A line is added in the unit list.

	Name	Destination path		th XML Unit HiRes File Form		HiRes File Forma	at	LoRes Path		XML Unit LoRes)SN Varr
•			… Defaul	XML Unit	Ŧ	EVS MXF	•		•	N/A	•	
				and the second se		and the second se						
				1.64	1		Ŧ	and the second sec				
												•

- 2. **Name**: Give a name to the CleanEdit target. This name will appear in the IPDirector Send To menu. It is used to identify the target in the IPDirector interface.
- 3. **Destination Path**: Select in the list or browse the network to define the folder where the HiRes files are sent.

This folder should be a UNC path to the network locations where the folder exists. The path is usually \\HiResFiles. Be sure this folder is shared with full access rights.



Only UNC DNS name or IP address path are valid. (Ex: \\XStoreName\HiResFiles\, (1.1.1.100)HiResFiles)

No local paths are valid.

4. XML Unit: Select the XML unit used to perform the HiRes job.

This unit should be located on the VIA Xsquare system which updates the CleanEdit database.

- HiRes File Format: Choose the MXF EVS, OP1A MXF XDCAM, QuickTime Movie, QuickTime Reference, Avid MXF OPAtom, DV-DIFF, OP1A MXF SMPTE or Wave format. It defines the type of files which will be created by the VIA Xsquare system.
- 6. LoRes Path: No more used.
- 7. XML Unit LoRes: No more used.
- 8. **DSN Name**: Enter a DSN Name (Data Source Name that will allow you to access the CleanEdit Database).

Default: CleanEditDB

9. **DSN User**:Enter the corresponding DSN User to access to CleanEdit Database.

Default: EVS

10. **DSN Password**: Enter the corresponding DSN Password to access to CleanEdit Database.

Default: cleanedit

11. XML Metadata File: If the box is selected, IPDirector sends XML metadata files linked to clips.



IPDirector includes extended metadata stored in the IPD database. When clips are exported to targets, metadata can be joined in XML files created in the same target clip folder or in a different one.

- 12. **XML File path**: Specify the target folder which receives the XML metadata files. This folder can be the same folder as the Backup Destination Directory or a different one. Be sure this folder is shared with full access rights.
- 13. Playlist Backup Type: Defines the type of the backup for the playlist and timeline.
 - EDL and Clips: VIA Xsquare will transfer all the clips and create an EVS EDL file which references all playlist and timeline elements (currently not supported)
 - EDL only: not supported.
 - Flatten file only: VIA Xsquare will concatenate the playlist or the timeline in a single media file on the CleanEdit storage (currently not supported)

14. Publish: If this CleanEdit target must be visible to other groups,

- a. click the **Publish** button and a new window pops up to allow you to publish to different groups.
- b. Select group(s) in the left side and click the arrow > to push group(s) to the right side.
- c. Click the **Publish** button.



Group 2 Group 3		Group 1
	>	
	<	
		Clear selection

How to Delete a Clean Edit Target

1. Click on the line header to select it.

	Name	Destination path	XML Unit		HiRes File Forma	ł	LoRes Path	XML Unit LoRes	DSN Nam	
Þ	CE	\VXStore64580\HiResFiles\		XML Unit 1	Ŧ	EVS MXF	•	\\XStore64580\LowResFiles\ 💌	XML Un 🔻	Clear
	and a second	J++							-	
							l			
1										

2. Click the **Delete** button.



Once all CE targets are configured, click the **Apply** button before configuring another target type.

7.13.6. An XT on Another Network Configuration

Introduction

This tab is used to define and configure the XT targets. With the gigabit feature of the server, it is possible to send clip to another server through a TCP/IP Network.

Click the **An XT on Other Network** button on the left to access the XT on Other Network configuration parameters.



This feature is only available on a server upgraded with a GBX module on the HCTX card. The Xsquare software must be installed on a network computer. Please contact EVS for more information.

	Name	XML Unit		IP Address 1	Port 1	IP Address 2	Port 2	Login	Password	Dest. Page	Metadata referencing path		Keep IDs	P
•	Server on XNET2	XML Unit 1	-	192.168.1.11	21	192.168.2.11	21	evs	evs!	9	\\DB6450			P
			-							-		<u>ر</u>		
								-						

Clips can be transferred from an SDTI network to another one using a TCP/IP Network, even if this second SDTI network is not connected to IPDirector.

Sending a clip through a server target will initialize VIA Xsquare which manages the clip copy between the two servers.

IPDirector sends a XML file to the shared folder scanned by VIA Xsquare (a previously defined XML Unit). This XML file contains source and target information. Xsquare executes the job.

Please refer to the VIA Xsquare and Multicam manuals for more information.

How to Create a New XT (server) Target

1. Click the **New** button to add a new server target.

A new line is added in the list.

	Name	XML Unit	IP Address 1	Port 1	IP Address 2	Port 2	Login	Password	Dest. Page	Metadata referencing path	Keep IDs	Pu
•		Default XM 🔻										Pu
pass		and the second s	a gent an		ta a fina a sua	<i>,</i> ~~	~~~	an git ag		~~~	<u></u>	
•												•
				New			Delete					

2. Click in the Name column and give a name to the server target.

This name will appear in the IPDirector Send To menu.

- 3. Select the XML unit used which will be used to perform the job.
- 4. Enter the IP address of the first destination server Gigabit port in the IPAddress1 column.
- 5. Enter the FTP port number corresponding to the first server gigabit port in the Port 1 column.



Default: 21.

- 6. Enter the IP address of the second destination server Gigabit port in the IPAddress 2 column.
- Enter the FTP port number corresponding to the second server gigabit port in the Port 2 column. Default: 21.
- 8. Enter the login username of the FTP server in the Login column.

Default: evs

9. Enter the login password of the FTP server in the Password column.

Default: evs!



The H3X (or HCTX) Gigabit connection settings are set inside the Multicam Setup Configuration (SHIFT+F2, Tab 3 Network).

Please refer to the Server Software Technical reference manual.

10. In the Dest. Page column, specify a destination page on the target server to receive exported clips.

Value: 0-9

11. Specify the target folder which receives the Metadata Referencing files in the Metadata Referencing Path column.

This feature is typically used to send IPDirector metadata from a network to another one.

If the XT (server) target is used to transfer clips from an SDTI network to another one using a TCP/IP Network and if the both network are connected on two different IPDirector workgroup, then the clip metadata has to be exported to the IPDirector target workgroup. This workgroup will ingest the clip metadata and associate it with the transferred file.



A dedicated job must be added within the IP-Scheduler on the target workgroup.

See section "Configuring IP-Scheduler" on page 180 for details.

12. (optional) Select the Keep IDs option.

If the box is selected, the clip is transferred with the same UmID and VarID on the distant server.

- 13. Publish the XT (server) target to groups which need visibility to it:
 - a. Click the **Publish** button.

The Publish window pops up.

ailable groups		S	elected groups
Group 2 Group 3			Group 1
	>		
	<	:	
			Clear selection

Groups are created in the User Manager application (see User Manager manual).

- b. Select group(s) in the left side.
- c. Click the arrow > to push group(s) to the right side.
- d. Click the **Publish** button.
- 14. Once all XT (server) targets are configured, click on the **Apply** button before configuring another target type.

How to Delete an XT (server) Target

1. Click on the line header to select it.

	Name	XML Unit	IP Address 1	Port 1	IP Address 2	Port 2	Login	Password	Dest. Page	Metadata referencing path	Keep IDs	Pu
Þ	Server on XNET2	XML Unit 1 🛛 🔻	192.168.1.11		192.168.2.11					\\DB6450		Pu
		and a	ليعين	-	-	1.1		لى الاستى	- 4444	<i></i>	l genetet	
	New Delete											

2. Click the **Delete** button.

7.13.7. XML File on Shared Drive Configuration

Introduction

This tab is used to define and configure the different XML File on Shared Drive target(s) available on the network and where XML files can be sent from the IPDirector interface using the **Send To** option.

Click the **XML File on Shared Drive** button on the left to access the XML File on Shared Drive configuration parameters.

	Name	XML file path	Publish
•	CE Direct Access	\VXSTORE64580\Reference\	Publish
	and the second second	ى مىسىرى بى بى بى بى يى ي	<u>~</u>
	New	Delete	

This kind of target is mainly used to send clip information on a system which is able to grab the clip by itself from the Server Network (XNet) or through the Server Gigabit Network.

How to Create a New XML File Target

1. Click the **New** button to add a new server target.

	Name	XML file path F	Publish
•			Publish
	and the second		
	New	Delete	

A new line is added in the list.

2. Click in the Name column and give a name to the target.

This name will appear in the IPDirector Send To menu. It is used to identify the XML file target in the IPDirector interface.

3. Define a XML File Path:

Select in the list or browse the network to define the folder where the XML files are sent.

This folder should be a UNC path to the network locations where the folder exists.

Be sure this folder is shared with full access rights.



Only UNC DNS name or IP address path are valid. (Ex: \\MachineName\Target\, \\1.1.1.100\Target\)

No local path is valid.

- 4. Publish the XML File target to groups which need visibility to it:
 - a. Click the **Publish** button.

The Publish window pops up.

Publish		×
Available groups		Selected groups
Group 2 Group 3		Group 1
	>	
	<	
		Clear selection
		Publish Cancel

Groups are created in the User Manager application (see User Manager manual).

- b. Select group(s) in the left side.
- c. Click the arrow > to push group(s) to the right side.
- d. Click the **Publish** button.
- 5. Once all XML File targets are configured, click on the **Apply** button before configuring another target type.



How to Delete an XML File Target

1. Click the line header to select it.

	Name	XML file path	Publish
Þ	CE Direct Access	\VXSTORE64580\Reference\	··· Publish
	New		

2. Click the **Delete** button.

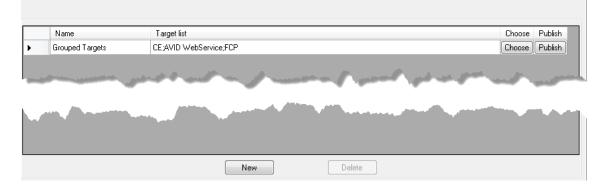
7.13.8. Group of Targets Configuration

Introduction

This tab must be used to define and configure the different Group of targets available on the network where XML files are to be sent from the IPDirector interface using the **Send To** option.

This king of target is a list of previously defined targets. It allows, in one operation, to send clips to several targets.

Click the Group of Targets button in the left menu:



This kind of target is a list of previously defined targets. It allows, in one operation for the IPDirector operator, to send clips to several targets.



Target creations are required before configuring any Group of targets.

How to Create a New Group of Targets

1. Click the **New** button to add a new group.

A new line is added in the list.

	Name	Target list	Choose	Publish
•			Choose	Publish
	ana ang ang ang ang ang ang ang ang ang	and the set of the set	uter	
		New Delete		

2. Click in the Name column and give a name to the group of targets.

This name will appear in the IPDirector Send To menu. It is used to identify the target in the IPDirector interface.

The **Target list** field displays a summary of the chosen targets, it cannot be edited.

3. Select the targets:

Í

a. Click the **Choose** button.

The following window opens:

Targ	et choice	.
	Туре	Name
	File	External Backup
	File	ihgh
	CE	CE
	Avid	AVID StandAlone
	Avid	AVID TM
	Avid	AVID WebService
	FCP	FCP
	ХT	Server on XNET2
	XML ref file	CE Direct Access
		Save Cancel



- b. Check boxes in front of each target you want.
- c. Click Save.
- 4. Publish the group of targets to groups which need visibility to it:
 - a. Click the **Publish** button.

The Publish window pops up.

vailable groups		Selected groups
Group 2 Group 3		Group 1
	>	
	<	
		Clear selection

Groups are created in the User Manager application (see User Manager manual).

- b. Select group(s) in the left side.
- c. Click the arrow > to push group(s) to the right side.
- d. Click the **Publish** button.

How to Delete a Group of Targets

1. Click the line header to select it.

	Name	Target list	Choose	Publish
Þ	Grouped Targets	CE;AVID WebService;FCP	Choose	Publish
		the particular of the second s		
		New Delete		

2. Click the **Delete** button.

7.14. Avid Targets Configuration

Overview of the Avid Targets Tab

This tab is used to configure the Avid targets based on VIA Xsquare templates.

Then, Avid catalogs will be available as stream targets from the Channel Explorer and the Ingest Scheduler.

Edit WorkGroup 'Global' Gener	al Para	meters				×
General General Parameters Logsheet Parameters	^		Configuratio	on of targets to Avid	d Catalog based on X ² Templates	5
Service Configuration LAN/WAN DB Parameters Status Polling Storage Storage Priorities Storage Priorities Storage Promities Storage Target Network Nearline Management Programs XSquare XSquare Targets XML Units XML Targets Aud Targets Hackbird Playlist Behavior Custom Relds Thumbnails IPLogger Export Directories Router Control Device Management Channel Configuration VarID Group Management Channel Configuration		Name Avid target 2 Avid target 1	Template Avid OPAtom + Proxy + AAF Avid OPAtom + Interplay		Root Catalog / Interplay URI interplay./[[Vlorkgroup]/Incoming Media/ interplay./[[Vlorkgroup]/Incoming Media/	Publish Publish Publish
Redundancy API Configuration Director's Cut Gatewave	~			New	Delete	
			Save	Cancel Apply		

Prerequisites

- VIA Xsquare templates for Avid must have been configured in the VIA Xsquare application (Interplay IP address and credentials).
- The VIA Xsquare IP address must have been provided in the Xsquare tab.
- The Interplay Avid Agent must be started on the workstation from which transfers to Avid will be done.

Limitation

• Only one root catalog can be set per target, even in case of a multi destinations template.



How to Create an Avid Target Based on an Xsquare Template

1. Click the **New** button.

The following line is displayed:

Name	Template	Root Catalog / Interplay URI	Publish
	No template selected		Publish

2. In the **Name** field, enter a name for the target.

This name will appear in the IPDirector interface.

- 3. Select an VIA Xsquare template that will be used for the 'Stream to Avid catalog target' operations.
 - a. Click the button.

The [target name] - Set Template window opens:

Avid target 3 - Set te	emplate		×
Select a template List limited to templa	ates from Xsquare defined with at least one Avid destinal	tion	
		•	Edit list
Please select a temp	late		
Destination Name	Destination	AafPath	
			OK

b. (optional) To edit an VIA Xsquare template, click the **Edit list** button.

The VIA Xsquare Template Browser window opens from which you can edit a template and save it under another name. Refer to the VIA Xsquare user manual for more information.

c. Click the arrow next to the **Select a template** field to display the list of VIA Xsquare templates with at least one Avid destination:

Avid target 3 - Set template	×
Select a template	
List limited to templates from Xsquare defined with at least one Avid destination	
	▼ Edit list
Avid OPAtom + AAF	
Avid OPAtom + Interplay	
Avid OPAtom + Proxy + AAF	
Avid OPAtom + Proxy + Interplay	
Avid OPAtom XDCAMHD + AAF	
Avid OPAtom XDCAMHD + Interplay	
Avid OPAtom XDCAMHD + Proxy + AAF	
Avid OPAtom XDCAMHD + Proxy + Interplay	
To MXF OPAtom file [+ AAF Ref]	
To MXF OPAtom file [+ Interplay Ref]	
To VC-3 100Mbps MXF OPAtom file [+ AAF Ref]	
To VC-3 100Mbps MXF OPAtom file [+ Interplay Ref]	
XF 2 Dest - Avid OPAtom + AAF	- ОК

d. Select a template.

The selected template is listed in the window:

Avid target 3 - Set template		×
Select a template List limited to templates from Xsquar	re defined with at least one Avid destination	
Avid OPAtom + Interplay		▼ Edit list
Set paths to each associated destin	ation	
Destination Name	Destination	AafPath
Avid MXF OPAtom + Interplay		
		OK

In case of a multi-destinations template, several lines are displayed:

Avid target 3 - Set template		×
Select a template List limited to templates from Xsquar	e defined with at least one Avid destination	
XF 2 Dest - Avid OPAtom + AAF		✓ Edit list
Set paths to each associated destin	ation	
Destination Name	Destination	AafPath
Avid MXF OPAtom + AAF		
🛲 Backup - Avid MXF OPAtom +		
		· · ·
		ОК

- e. In the **Destination** field, enter the destination path where the OPAtom files will be saved on the AVID Storage.
- f. (optional) If you want to transfer the MXF OPAtom metadata files to a different destination, enter the path in the **AafPath** field. Otherwise, they will be sent to the same destination as the media files.
- g. Click OK.
- 4. In the **Root Catalog / Interplay URL** field, enter the path where the clip/playlist will be seen in Interplay DB.

This field can be automatically filled with the information set in the Xsquare template.

Default: interplay://[workgroup]/Incoming Media

where [workgroup] is the AVID workgroup target.

Only one root catalog can be set per target, even in case of a multi destinations template.



- 5. Publish the destination target to groups which need visibility to it:
 - a. Click the **Publish** button.

The Publish window opens and lists the groups created in the User Manager application (Refer to the User Manager manual).

- b. Select group(s) from the Available Groups column.
- c. Click the arrow > to push group(s) to the Selected Groups column.
- d. Click the **Publish** button.

7.15. Workflow Target Configuration

Context of Use

A Workflow Engine is integrated with IPDirector to enable more complex workflows, such as the archive/restore process to/from an Amazon S3, or the publication of media items (clips, playlists) to one or several social media (Facebook, Youtube) or to a generic Content Management System.

For the configuration of the S3 archiving process, see section "Configuring the Archive Parameters" on page 235.

The workflow definition is the blueprint of your workflow. It lists and defines the different tasks within the workflow and specifies how these are linked to each other and in which order they have to be executed. It also describes the input parameters of the workflow and the input and output parameters of each task.

The workflow definition files are stored on the Workflow Engine.

Workflow targets are configured from the Remote Installer and can be used from the IPDirector interface such as any other target. Selecting a workflow target will trigger the execution of the workflow. The selected media items will then go through the process defined in the workflow definition file.

Overview of the Workflow Target Tab

This tab is used to configure the Workflow targets that will be available from the IPDirector interface.

Edit WorkGroup 'Global' General Para	meters			×
General Arameters Logsheet Parameters Service Configuration LAN/AWAN DB Parameters Status Poling Storage Storage Priorities SDTI Network Nearine Management Prig Exclusions Target XSquare Target Settings XML Targets Avd Targets Bickbird Playlat Defense	Workflow Engine Host Name/FQDN		kflow targets	Manage tokens Check connection
	Name	Workflow		
VarID Group Management A Run Log Parameters As Run Log Parameters As Will Run Log Redundancy API Configuration Directoric C.4 Gateware V		New Warning: All services and applications n	Delete must be restarted to take modifications into	account.
		Save Cancel Ap	sply	

Prerequisites for Workflow Targets

• A workflow engine must have been installed on a standalone IPDirector workstation or a dedicated management EVS machine. Refer to the VIA Flow for IPDirector installation and configuration manual.



- Tokens have been created in case authorization is required to send items on a platform used in a workflow. They can also be managed via the **Manage Tokens** button.
- See the PUBLIS Add-On for IPDirector installation and configuration manual for additional prerequisites needed for the creation and use of workflow targets.



All the workflow targets created with a previous version of PUBLISH Add-On for IPDirector must be deleted before creating new workflow targets.

How to Create a Workflow Target

- 1. In the **Host Name/FQDN** (Full Qualified Domain Name) field, enter the name of the machine hosting the VIA Flow you want to use, followed by the domain recognized by the certificate.
- 2. Check the connection with the workflow engine by clicking the **Check Connection** button.

The result is displayed next to the Check Connection button. It should be

3. Click the **New** button.

The Create New Target window opens.

🕅 Create new target				
⊺arget Configuratio	n			
∼ General	Name * Workflow Please select a workflow Workflow Version Please select a workflow version Schedule Date & Time usercan			
I	Directly			
		[Cancel	Create

You can also quickly create a workflow target by copying an existing workflow target and all its parameters.

1. Click the **Copy** button next to the workflow target to be copied.

A new workflow target is created and all the parameter fields are pre-filled.

2. Click the **Configure** button next to the new workflow target and edit the parameters as described hereafter.

TECHNICAL REFERENCE

3. Select the picture to be associated with your workflow target. This picture will appear in IPDirector.

This can be a picture corresponding to the social media you want to use (), a generic picture for a generic workflow target (CMS) (, or a picture for the workflow target to multi-destinations (

- 4. Enter a name for the workflow target in the **Name** field. This name will appear in IPDirector.
- 5. Select the workflow that will be executed.
 - a. Click the **Workflow** field.

A menu shows the list of workflow definitions which are available from the selected VIA Flow.

b. Select a workflow.

The Create New Target window expands and display the list of parameters from the selected workflow.

- 6. (optional) Select another version of the workflow. By default the "Last Published" version is selected.
- 7. Set the schedule date and time for the workflow to be run. By default, Directly is selected.
 - **Directly** (default): the workflow will run immediately when selected from the IPDirector interface.
 - **Today at**: a **Time** field will be displayed.

Click on it and select a time.

The workflow will be scheduled and start at the selected time.

• Next day at: a Time field will be displayed.

Click on it and select a time.

The workflow will be scheduled and start at the selected time the day after.

• Date and Time: a Date field and a Time field will be displayed.

Click on them and select a date and a time.

The workflow will be scheduled and start at the selected date and time.

- 8. Configure the workflow parameters. Refer to the PUBLISH Add-On for IPDirector installation and configuration manual for more details on each parameter..
- 9. Define which parameters could be edited from the IPDirector interface when a user will send an item to the workflow target.
 - If the checkbox next to a parameter is ticked (user can edit), the user will be allowed to modify the parameter value from the IPDirector interface before executing the workflow.
 - If the checkbox next to a parameter is not ticked (user can edit), the user will not be allowed to modify the parameter value from the IPDirector interface before executing the workflow.



10. Click Create.

The workflow target is displayed on the Workflow Target tab. It will be available from the IPDirector interface.

I. Facebook (Clip only) publis	ishing-facebook	Configure Configure	Publish	Сору		
Tutte (Elgrady) adds		Configure	Dublish			
Country (2000 and 1)	Address of the other		Publish	Сору		
Youtube (Clin.oph)	and the second se	Configure	Publish	Сору		
. routube (Clip only) public	ishing-youtube	Configure	Publish	Сору		
CMS - target & ftp - (with logo - BI Gene	ericCMS	Configure	Publish	Сору		
Facebook (with logo - BI - BO) publis	ishing-facebook	Configure	Publish	Сору		
Tuble (will lage (8) (83) public	Address a feature	Configure	Publish	Сору		
Youtube (with logo - BI - BO) publis	ishing-youtube	Configure	Publish	Сору		
Youtube (with logo - BI - BO)-Copy publis	ishing-youtube	Configure	Publish	Сору		
and the second					1. gr-8- a-8	

- 11. Publish the workflow target to groups which need visibility to it:
 - a. Click the **Publish** button.

The Publish window opens and lists the groups created in the User Manager application (see User Manager manual).

- b. Select group(s) from the Available Groups column.
- c. Click the arrow > to push group(s) to the Selected Groups column.
- d. Click the **Publish** button.

How to Update a Workflow Target

- 1. Select the workflow target from the list.
- 2. Click Configure.

The Configure Target window, similar to the Create New Target window, opens.

- 3. Do the requested changes.
- 4. Click Save.

How to Delete a Workflow Target

- 1. Select the workflow target from the list.
- 2. Click Delete.

7.16. Blackbird Target Configuration

Context of Use

Blackbird is a cloud editing system which can be integrated with IPDirector.

From the IPDirector Database Explorer, a **Send to Blackbird** option is available to send clips or growing clips present in a bin to Blackbird. Actually, they are sent to an IPDirector nearline mounted on a Blackbird Edge server. XT clips will first be backed up to the nearline as hi-res files. Then, they are transcoded to a Blackbird proxy and referenced in the Blackbird cloud.

Once the editor has created an edit in the Blackbird cloud and renders it, an EDL file is sent back to the Blackbird Edge server. An hi-res edit is rendered from the EDL and dropped in the IPDirector nearline. It is named as defined in the XML companion file.

Some configuration must be done from the Blackbird tab in the Remote Installer.

Prerequisites

- An IPDirector nearline must have been mounted on a Blackbird Edge server which has access to the nearline files.
- The username in Blackbird matches the username of the IPDirector operator that has editing rights.

Overview of the Blackbird Tab

Edit WorkGroup 'Global' General Parameters			×
General General Parameters		Blackbird	
Control Parameters Service Configuration LAN/WAN DB Parameters Satus Poling Storage Storage Photilies SDT1 Network Nearline Management Prip Exclusions Target XSuare Target Settings XML Unts XML Unts XML Unts XML Unts XML Unts XML Unts Avid Targets Biackbird Playkat Behavior Custom Fields Thumboals IPLogger Export Directories Route Control Device Management As Will Run Log Redundancy API Configuration VarID Group Management As Will Run Log Redundancy API Configuration VarID Configuration VarID Configuration	Enable Blackbird Integr API Information API Base Url API Client ID API Client Secret Ingest Information Account Name Storage group ID Workflow Name (optional) Integration Information Blackbird Render Location	Intips://staging.cloud.blackbird.video/api/ evs_ipd_demo_soc 1652707535-000000-c4h-0000 360 288 16:9 Source Workflow no dupes check	
	Save	Cancel Apply	



Enable Blackbird Integration

Select this option to enable the Blackbird integration with IPDirector.

API Information

Enter the information to be able to communicate with Blackbird.

API Base Url

URL path to connect to the Blackbird cloud.

API Client ID

API ID on the Blackbird cloud.

API Client Secret

Password for identification to the API on the Blackbird cloud.

Ingest Information

Enter the information of the Blackbird account that will be used with IPDirector.

Account Name

Account name for the connection to the Blackbird tool.

Storage group ID

Storage name of the IPDirector nearline mounted on the Edge server.

Workflow Name (optional)

Name of the Blackbird workflow to be used for transfers to Blackbird.

Integration Information

Blackbird rendered location

Output location for the file rendered in Blackbird.

7.17. Playlist Configuration

Behavior Tab

Edit WorkGroup 'Global' Gener	al Param	eters			×
General General Parameters Logsheet Parameters Service Configuration	^			Playlist Parameters	
LAN/WAN DB Parameters Status Polling		Gang EVS Server Clips upon insertion in ganged	Playlists OFF	When inserting clips into ganged playlists, clips using the same Varld will be linked	
Storage Priorities SDTI Network Nearline Management Ping Exclusions		Check Low Res on Playlist backups	OFF	Prevents Playlist backup if it contains Low Res Files	
Target		Technical Parameters			
XSquare XSquare Target Settings		Offline Playlist Lifetime in Memory (minutes)	30 🜩	Limits SynchroDBMaster memory consumption (Min : 1 - Max : 30)	
XSquare Target Settings XML Units					
XML Targets		Maximum Offline Playlist kept in Memory	200 🜩	Limits SynchroDBMaster memory consumption (Min : 30 - Max : 500)	
Avid Targets Workflow Targets Blackbird		☑ Time delay between revision checks (ms)	100 🜩	Can group multiple editions in one check (Min : 50 - Max : 500)	
 Playlist Behavior Custom Fields 		AbRoll Parameters			
Thumbnails		Enable MOS Gateway Resync feature			
IPLogger Export Directories		Display Auto Assign button in ABRoll Panel			
Device Management Channel Configuration		Disable flashing border in case of desynchron	nisation		
VarID Group Management As Run Log Parameters					
As Run Log Merger					
As Will Run Log					
Redundancy API Configuration					
Director's Cit Gatewave	~				
		Save	Cancel	Apply	

Gang EVS Server Clips upon Insertion in Ganged Playlists

This setting is used to automatically link clips with the same VarID as soon as one of the clips is added to a ganged playlist.

Check Low Res on Playlist Backups

When set to ON, this setting prevents playlist backup if it contains lo-res files.

Offline Playlist Lifetime in Memory (minutes)

This parameter sets the period of time, in minutes, the Master SynchroDB must keep an offline playlist in memory.

Possible values: 1 - 30. The default value is 30.

Maximum Offline Playlist kept in Memory

This parameter sets the number of offline playlists kept in memory.

Possible values: 30 - 500. The default value is 200.



Time Delay Between Revision Checks

This parameter sets the period of time, in miliseconds, between 2 commands sent to the Playlist engine related to insert/delete/update commands on playlist elements.

Possible values: 50 -500. The default value is 100.

Enable MOS Gateway Resync Feature

This parameter allows you to resynchronize an ABRoll playlist with the NRCS rundown through the MOS communication. This is only possible with the VIA MOS Gateway.

Default value: OFF (cleared).

Display Auto Assign Button in ABRoll Panel

This parameter enables the Auto Assign feature with Manual ABRoll studios. It is only available with a Multicam 20.7 version.

When it is selected, the **Auto Assign** button is displayed and the **Auto-assign elements from this position** option is available from the playlist element contextual menu.

Default value: OFF (cleared).

Disable Flashing Border in Case of Desynchronisation

This parameter specifies if a blinking orange border will be displayed, or not, around the playlist elements grid to warn the users when the **MOS** icon is orange.

Default value: OFF (cleared).

Custom Fields Tab

This tab is used to define up to 6 custom fields for third party usage in a Playlist.

Edit WorkGroup 'Global' General	Parameters		×
General General Parameters Logsheet Parameters Service Configuration LAN/WAN DB Parameters		<i>Playlist Custom Fields</i> ader of the playlist element metadata.	
Status Polling Storage Storage Priorities SDTI Network	These heade	r will be common to all playlist interfaces of all IP Director workstations.	Don't repeat if unchanged
Nearline Management Ping Exclusions Target	Header 1	CustomField1	0
XSquare XSquare Target Settings	Header 2	CustomField2	0
XML Units XML Targets Avid Targets	Header 3	CustomField3	0
Workflow Targets Blackbird Playlist	Header 4	CustomField4	0
Behavior Custom Fields	Header 5	CustomField5	0
Thumbnails IPLogger Export Directories Router Control	Header 6	CustomField6	0
Device Management Channel Configuration VarID Group Management			Clear
 As Run Log Parameters As Run Log Merger As Will Run Log 			
Redundancy API Configuration	,		
Director's Out Gatewave		Save Cancel Apply	

These settings are designed for a third party usage of the playlist metadata. The external Media Asset Management systems (MAM) import playlist in the IPDirector database using the EVS-to-DB job (IP-Scheduler) or the Webservices (IP-API). In these imports mode only, playlists can receive 6 custom fields.

• This tab allows you to define the headers of up to 6 playlist element metadata.



The playlist custom fields cannot be edited or created within the main interface of IPDirector. It is limited to a third party usage only!

• Don't repeat if unchanged:

When the column of a Custom Field is displayed in the Playlist grid, you can choose to see the Custom Field value for each element or to only display the value once when it is the same for several successive elements.



Once the Playlist settings are configured, click on the **Apply** button before configuring another tab.

7.18. Thumbnails and Grab Configuration

Introduction

Purpose

This must be configured if you plan to have thumbnails created automatically as clips, logs and playlists are created. It is also used to configure the Grab function.



Conditions

- Thumbnails and Grabs will physically be created by VIA Xsquare workstations. You need at least one VIA Xsquare on the Ethernet network to use this function.
- The EVS Registry service must be started for the thumbnails and grabs to be processed properly.

Overview of the Thumbnails Tab

General General General General Parameters Logsheet Parameters Service Configuration LAN/WAN DB Parameters Status Poling		kimum number of retries for thumbna ting effective after SynchroDB mas			ning no retry) :	Thumbnails Configuration
Storage		Grab Type		Thumbnails	Path	
Storage Priorities SDTI Network	•	Grab to file	~	\\1	.Thumb\	
Nearline Management		Thumbnails for Clips	~	\\1	.Thumb\	
Ping Exclusions Target		Thumbnails for Logs	~	\\1	.Thumb\	
XSquare		Thumbnails for Playlist elements	s ~	\\1	.Thumb\	
XSquare Target Settings XML Units XML Targets Avid Targets Workflow Targets Blackbird						New Delete
Playlat Behavior Playlat Behavior Custom Fields Truntralis Plooger Export Directories Router Control Device Management Channel Configuration VarID Group Management 48 Run Los Parameters	1	bnails for Clips - Enabled for EVS Server Trains EVS Server Clips Files				

How to Create a New Thumbnail or Grab Unit

At least one Thumbnail unit must be defined to activate the automatic thumbnail creation process.

Thumbnails are created for clips/trains/files, logs and playlists. One configuration line is needed for each grab type.

Maximum 4 lines of configuration can be added in this tab.

1. For the thumbnails for clips or logs, set the **Maximum number of retries for thumbnail creation**. The default value is 5.

It can be set to 0 if you do not want any retry to be processed.

2. Click on the **New** button to add a configuration line.

A new line is added in the unit list.

_		
Γ	Grab Type	Thumbnails Path
	Grab to file 🗾 🔻	
	 مەمىمىي مىلى قەش	the set of the second second and the second s
		New Delete

3. Select the type of configuration from the **Grab Type** column.

Grab Type	
Thumbnails for Clips	~
Thumbnails for Clips	
Grab to file	
Thumbnails for Logs	
Thumbnails for Playlist elements	

Only one type of each grab type can be defined.

- Thumbnails for Clips to send thumbnail requests for clips. 0
- Grab to file to send grab requests. 0
- Thumbnails for Logs to send log thumbnail requests. 0
- Thumbnails for Playlist elements to send thumbnail requests for playlist elements. 0
- 4. In the **Thumbnail Path** column, define the directory (with its full path) where the thumbnail files (.jpg) will be stored. Proceed in one of the following ways:
 - Enter the UNC path in the text field 0

application.

Click the **Browse** button to select the destination folder.

No Path is needed for a Grab to file grab type.
The path for grab files is defined by users from the IPDirector interface (Tools > Settings >
Image Capture) or by the administrator in the Settings Tab inside the User Manager

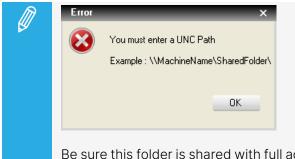
Only UNC DNS name or IP address path are valid.

(Ex:\\servername\sharedfolder\, \\1.1.10.100\sharedfolder\)

No local paths are valid. It is required to use an IP Address when working with IPDirector workstations connected in a WAN configuration as they may not be able to resolve the UNC Host Name of the computer.

A message appears if the selected path is not valid:





Be sure this folder is shared with full access rights. EVS recommends this directory should be located on the database server in the \thumbnails directory.

5. From the Thumbnails for Clips area, select the elements for which you want thumbnails to be created when the **Thumbnails for Clips** type has been configured.

Thumbnails can be created for trains and/or clips and/or files.

This may help to reduce the required bandwith and not to overload the system.





Thumbnail and Grab paths are global to all IPDirector workstations on the network. They should only be defined once and can be defined from any workstation.

6. Once all the paths are configured, click on the **Apply** button.

How to Delete a Thumbnail or Grab Unit

1. Click on the unit line to select it.

	_		
 Grab Type		Thumbnails Path	
Grab to file	•	\\ treester to Thumb\	
Thumbnails for Clips	•	\\ .Thumb\	
Thumbnails for Logs	•	\\ .Thumb\	
Thumbnails for Playlist elements	-	\\ .Thumb\	
Second Street		and the second of the second of	and the strength of the strength of
		New Delete	

2. Click the **Delete** button.

The unit is deleted.

7.19. IP Logger Export Configuration

Introduction

This tab should be used to define and configure the Log Export directories available on the network where logs, logsheets and modifications are sent as XML files.

Select the IPLogger Directories tab.

Edit WorkGroup 'Global' General Par	ameters		×
General A General Parameters Logsheet Parameters		IPLogger Export Directories	
Service Configuration LAN/WAN DB Parameters Status Polling	Automatically export all logsheet to	3rd party directories ciated recorders/medias in exported logsheets)	
 Storage Storage Priorities SDTI Network Nearline Management Ping Exclusions 	Name	Directory path	T/C Offset
Target XSquare XSquare Target Settings XML Units XML Targets Avid Targets Workflow Targets			
Blackbird □ Playlist Behavior Custom Rields Thumbnails IPLogger Export Directories			
Router Control Device Management Channel Configuration VarID Group Management As Run Log Parameters As Run Log Merger As Will Run Log			
Redundancy API Configuration		New Delete	
		Save Cancel Apply	

Automatically export all logsheets to 3rd party directories:

This option is used to automatically export all logging operations done on every new log sheet that will be created in the IPDirector workgroup.

Automatically export all logsheet to 3rd party directories



If this option is cleared and the Export Destination Directory is defined, the IPDirector operator manually decides which logsheet will be exported. During the logsheet creation, this option is available inside the Step 1 of its properties. Once the logsheet creation is completed, the option cannot be changed.

Please refer to the Logsheet Creation chapter in the IPDirector user manual.



Please contact EVS staff for additional information about third Party features.



NEW! Ignore Linked Media (remove associated recorders/media in exported logsheets)

This option only works with the Auto export feature, meaning when the **Automatically export all logsheets to 3rd party directories** option has been selected.

The xml file of the exported logsheet will not contain the link to the media and the recorder trains.

• XML file with option cleared (linked media included):



• XML file with option selected (linked media ignored):

	xml version="1.0" encoding="UTF-8"?
-	- <logsheet db_guid="acaae232-3c84-4067-a4de-0f67bb8bc0b0" dbversion="1" guid="d24a6674-7ad1-4c84-95da-984074b3647c" version="2.0.1"><</logsheet>
	<pre></pre>
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
	<tctable>0</tctable>
	<cliplogassociation>1</cliplogassociation>
	<description></description>
	<owner>pge</owner>
	- <metadatadefinition version="2.0.1"></metadatadefinition>
	- <logsheetprofiles></logsheetprofiles>
	- <logsheetprofile guid="90962e3ad9cb443ea869124b7b44cbb2"></logsheetprofile>
	<name>Winter Show</name>
	<description></description>
	< <u>LogsheetProfile_GUID="977c4eaffbd041808b1dc09afe074614">Show</u>
	<automatickeywordprofile guid="da89e56e86274f858c200d8890848f91">Show_log MD</automatickeywordprofile>
	- <profiles></profiles>
	- <profile guid="da89e56e86274f858c200d8890848f91"></profile>
	- <header></header>
	<name>Show_log MD</name>
	<description></description>
	- <userfields></userfields>
	- <userfield></userfield>
	<header>Artist Name</header>
	<type>COMBO</type>
	<pre><pre>cpescription/></pre></pre>
	- <values ufset="specific"> <values a<="" artist="" th="" values<=""></values></values>
	<value>artist a<value> <value>artist B<value></value></value></value></value>
	<value>Artist C/value> </value>
	<pre></pre>
	<t< th=""></t<>

How to Create a New IPLogger Export Directory

1. Click the **New** button to add a new directory.

A new line is added in the unit list.

	Name	Directory path	T/C Offset	Version					
•			+00:00:00:00	Current 💌					
	ى مىرمىن كىيە	and the second	and the second second second						
		New Delete							

- 2. Click in the **Name** column and give a name to the IP Logger Export Directory.
- 3. Click the **Browse** button in the **Directory Path** column to select the folder where the XML files will be sent to Third Party systems or to other IPDirector workgroups.

The Browse for Folder window opens.



Only UNC DNS name or IP address path are valid. (Ex: \\ThirdParty\LOGfromEVS\, \\1.1.1.100\LOGfromEVS\)

No local paths are valid.



The directories must be shared with full access control.

4. In the T/C Offset column, enter a valid Timecode value.

All logs exported in the specific directory will be updated with the new offset timecode.

The aim of this parameter is to allow exporting logs on an external setup which is located on a different time zone.

Default value: +00:00:00:00 (Original log Timecode is kept)

If the TC value entered is not correct, an error is displayed:						
Error	×					
\bigotimes	You must enter a valid offset					
	Example : +00:00:02:14					
	04					
	OK					

5. From the version column, select the export version between **Current** and **Legacy**.



- Since IPDirector V5&6, the logging XML format has changed. This new standard is the **Current** one. The old standard is the **Legacy** one.
- If it is planned to export log with an IPDirector V4 destination setup, it is mandatory to select **Legacy**.
- For an IPDirector V5 destination setup, it is strongly recommended to select Current.

The Current version of logging XML files contains XML version tags:

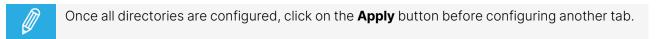


How to Delete an IPLogger Export Directory

1. Click on the line header to select it.

	Name	Directory path	T/C Offset	Version
Þ	Logs> External IPD Setup	\\DB64500\ThirdParty\EVS_T0_DB\EVS_T0_T0D0\	+00:00:00:00	Current 🔻
	s. s.	الروب المنا المستحدين الموارق		مى مىسىرى
		New Delete		

2. Click on the **Delete** button.



7.20. VarID Groups Configuration

The VarID Management tab should be used to organize the EVS servers into different VarID groups. These groups delimit the server zone where a duplicated clip can be found in order to find a best element for a playlist.

An engine is running as a background task and is always optimizing playlists in order to play a maximum of local online elements. It also discovers restored clip and replaces virtual playlist elements matching by the VarID. Thus, it could be necessary to define server groups to delimit the engine search.

Edit WorkGroup 'Global' Gene	ral Par	ameters			×
 General General Parameters Logsheet Parameters 	^	Organize the servers into varID group When a clip is restored, the system w	ill automatically associate the clip	VarID Group Management	^
Logsneet Parameters Service Configuration LAN/WAN DB Parameters		to all virtual elements in playlists loca Other servers in other groups will not		ADL XT3	
Status Polling		do not define any group.	ar crips, playinsis or unreinles,	XT3 BBO	
Storage Priorities SDTI Network		Use "Add Group" to add a group Right Click on a group to rename or	remove a group	XTVIA1	
Nearline Management Ping Exclusions Target		When associating clips to	• •	PGEXT3	
XSquare XSquare Target Settings		 priority to varID 	Priority to element ID		Add Group
XML Units XML Targets Avid Targets Workflow Targets		Enable automatic VarlD format (Clips a VarlD - Format String. This string is use	and Edits) :	new clip window is not displayed.	
Blackbird ⊟ Playlist Behavior Custom Fields Thumbnails		%CDAY = Creation Day (DD) %CMONTH = Creation Month (MM) %CYEAR = Creation Year (YYYY)	 		0 / 32
IPLogger Export Directories Router Control			is used when the new ingest/new clip windo	ow is displayed. It acts as a prefix.	
Device Management Channel Configuration VarID Group Management As Run Log Parameters As Run Log Merger		%CDAY = Creation Day (DD) %CMONTH = Creation Month (MM) %CYEAR = Creation Year (YYYY)	~		0 / 32
As Will Run Log Redundancy API Configuration Director's Cut Gateways	~	Alpha Length: 3 - Value:	Counter	Numeric Counter	
			Save Cancel	Apply	

When associating clips with playlist elements, give:

• Priority to VarID

The engine replaces distant clips in playlists by local clips regarding the VarID inside one of the defined groups.

• Priority to element ID

The engine gives priority to the element ID within playlists when replacing a virtual element by a clip. VarID is no more used.

This mode is the default behavior.

When associating clips to playlist elements, give

O priority to varID

In the priority to element ID



Define VarID Groups

VarlD Group Management	
Machines not attributed to a network	
ADL XT3	
XT3 BBO	
PGEXT3	
Ado	Group

This zone is used for create and manage VarID groups.

By default, the logical networks (defined in the XT Networks tab) are listed in the **Server not Attributed to Any Group** branch. All servers are thus considered as belonging to the same VarID group.

How to Create a New VarID Group?

1. Click the Add Group button.

This window pops up:

	×
Ok	Cancel
	Ok

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

How to Insert a Server in a VarID Group?

- 1. Open the logical network branches to display the servers.
- 2. Select the server and drag & drop it on the VarID group name.

r Group1	
⊟ Xnet1	
AUXSRC 5	

Once all servers are attributed to groups, the **Server not Attributed to Any Group** branch is no more displayed.

How to Remove a Server from a VarID Group?

- 1. Right-click on the server name.
- 2. Select Remove XT from group.

⊟⊷ Group1	
	Remove XT from group

The server is brought back to its original position in the Server not Attributed to Any Group branch.

How to Rename a Group?

- 1. Right click the group name.
- 2. Select Rename group



A window pops up.

- 3. Edit the name.
- 4. Click OK.

How to Remove a group?

- 1. Right click the group name.
- 2. Select **Remove group**



The group is no more displayed and all servers are brought back to their original places.

Automatic VarID Format (Clips and Edits)

Enable automatic VarID format (Clips and Edits) :		
VarID - Format String. This string is used to autoname Va	rID when the new ingest/new clip window is not displayed.	
%CDAY = Creation Day (DD) %CMONTH = Creation Month (MM) %CYEAR = Creation Year (YYYY)	×	0 / 32
	new ingest/new clip window is displayed. It acts as a prefix.	
%CDAY = Creation Day (DD) %CMONTH = Creation Month (MM) %CYEAR = Creation Year (YYYY)	▲	0 / 32
Alpha Counter	Numeric Counter	
Value.		



Enable Automatic VarID Format (Clips and Edits)

When this parameter is selected, the format defined in the **VarID Format String** and in the **VarID Prefix Format String** fields will be applied for the generation of the clips and edits VarID.

This applies to:

- clips created from IPDirector, IPD Xedio Plugin.
- clips referenced from the nearline (no xml file or xml without VarID information).
- edits created from IPMOSBrowser if no rule for VarID generation has been defined in IPMOSGateway.

If VarID generation rule has been defined in IPMOSGateway, it will be taken into account.

• clip created from IPBrowse.

VarID Format String

This field is used to define a format string, up to 32 characters, for the VarID of clips and edits.

VarID Prefix Format String

This field is used to define a format string, up to 32 characters, for the VarID prefix when the New Ingest or the New Clip window is displayed. So, the VarID will begin with the same set of characters.

Regular expressions supported:

- %CDAY: Creation Day ("DD")
- %CMONTH: Creation Month ("MM")
- %CYEAR: Creation Year ("YYYY" eg : 2020)
- %CYY: NEW Creation Year ("YY" eg : 20 for 2020)
- %ACOUNTER: Alpha Counter

Length: Min 2 / Max 20. Represents the number of alphabetic characters of the counter.

Value: eg : AAA (Upper Case forced). Represents the start value of the counter.

%COUNTER: Numeric Counter

Length: Min 1 / Max 10. Represents the number of numeric characters of the counter.

Value: eg : 000. Represents the start value of the counter.

%ORIGIN: Origin Application

This string gives information about the application/process which initiated the creation of the clip/edit/placeholder. It is hardcoded in DB. The string length is based on a fixed 6 character length for %ORIGIN string in DB (truncated if longer).

TECHNICAL REFERENCE

	Origin of the request	resolved %ORIGIN string
IPDirector (clip, edit)		E
CleanEdit		E
IPDirector ingest		ING
VIA Xsquare scan folder %IPDIRECTOR mus	t have been set in the template definition:	XSQ
File on nearline	MXF only - no EVS.XML	XSQ
	MXF only - no EVS.XML If the VarID is available in the header file, the VarID from the header is taken.	keep VarID from header
	MXF + EVS.XML If VarID is empty in EVS.XML Even if the VarID is available in the header file, the VarID from the header is not taken into account .	XSQ
	MXF + EVS.XML if VarID exists in EVS.XML	keep VarD from EVS.XML
VTR		VTR



	Origin of the request	resolved %ORIGIN string
NRCS	<image/>	MINEWS
	Create placeholder from IPMOSBrowser (ActiveX) through IPDirector API directly A space must be entered.	MINEWS
API	for CreateEdit only with the IPMOSGateway	MINEWS
	for other API calls than CreateEdit	E

How to Define a Format String

To add an item to the format string,

1. Double-click the item from the list of VarID format string.

It is added to the field:



- 2. (optional) Repeat step 1 to add other items.
- 3. (optional) Double-click items from the list of VarID prefix format string.

7.21. As Run Log Parameters

As Run Log Merger

Purpose

This tab defines the parameters necessary for retrieving, formatting and storing the As Run Log file.

Edit WorkGroup 'Global' General Par	rameters		\times
General A General Parameters	As Run Log	.og Merger	
Logsheet Parameters Service Configuration LAN/WAN DB Parameters	XT Parameters Working folder : C:\XT parameters\	Modify Location where the As Run Log Merger will download asrunlog files cenerated by Multicam	
Status Polling Storage Storage Priorities	FTP User Name : evsData FTP Password :	Thes generated by Multicam	
SDTI Network Nearline Management Ping Exclusions	Output Parameters		
□ Target XSquare XSquare Target Settings XML Units	Format : Generic Format File Extension : Csv		
XML Units XML Targets Avid Targets Workflow Targets			
Blackbird Playlist Behavior			
Custom Fields Thumbnails IPLogger Export Directories			
Device Management Channel Configuration VarID Group Management			
 As Run Log Parameters As Run Log Merger As Will Run Log 			
Redundancy API Configuration Director's Cut Gatewave			
	Save Cancel Ac	Apply	

As Run Log Merger Parameters

XT Parameters

Working folder

Enter the folder path on the local workstation where the As Run Log retrieved from the EVS server will be stored.

FTP User Name / FTP Password

Enter the credentials of the FTP user to be able to connect to the EVS server.

Output Parameters

Format

Choose the format according to which the information will be displayed in the formatted As Run Log file.

File Extension

Enter the file extension of the formatted As Run Log file: txt, csv.



ABRoll Specific Parameters

Depending on the selected format, additional fields can be displayed on screen.

ABRoll Specific Parameters		
As Run Log Parameters		
Output Default Path :	Modify Create subfolder with studio name	
Story Custom Field :	CustomField 1 V	

Output Default Path

Enter the folder path on the local or distant storage where the As Run Log formatted according to the selected format will be stored.

Create subfolder with studio name

Select this option if you want to create a subfolder per ABRoll studio.

Story Custom Field

Select some custom fields to fill the formatted file.

As Will Run Log Configuration

Purpose

This tab is used to configure the As Will Run Log feature. The process, once activated per player channel, generates text file(s) containing elements that are about to be played.

General General A General Parameters Logsheet Parameters	As Will F	'un Log
Service Configuration LAN/WAN DB Parameters Status Polling I Storage Storage Priorities SDTI Network Nearline Management Ping Exclusions	Select the XTs for which to active the generation of the file describing playlist elem One file will be generated per play channel. The file lists the on air element and the Maximum number of elements listed in each file : 250 - File refi	
Target	Root folder for all files. Each activated XT will have a subfolder	Browse
XSquare XSquare Target Settings		
XML Units	Play Channel	Click to active as
XML Targets		will run log
Avid Targets	01_ADL XT3_PGM1	
Workflow Targets Blackbird	01_ADL XT3_PGM2	
Plavlist	01_ADL XT3_PGM3	
Behavior	01_ADL XT3_PGM4	
Custom Fields	07 XTVIA1 PGM1	
Thumbnails IPLogger Export Directories	07_XTVIA1_PGM2	
Router Control		
Device Management	07_XTVIA1_PGM3	
Channel Configuration	07_XTVIA1_PGM4	
VarID Group Management	09_XTVIA2_PGM1	
As Run Log Parameters As Run Log Merger	09_XTVIA2_PGM2	
As Will Run Log Redundancy		

Maximum number of elements listed in each file:

Define the maximum number of future elements that will be played on each PGM. This limitation avoids filling files with an infinite number of lines due to a playlist containing an infinite loop.

Once an element is finished, it is removed from the list.

Default: 250 (lines)

File refresh interval:

Adjust the interval time (in seconds) between two updates of files.

Default: 15 (seconds)

Root folder for all files:

Define here the folder on the network where files are created and updated or click on the **Browse** button to select the folder.

This folder should be a UNC path to the network locations where the folder exists.

Be sure this folder is shared with full access rights.



Only UNC DNS name or IP address path are valid.

No local paths are valid.

A message appears if the selected path is not valid.

A subfolder is created per server:

XXXXX (XXXXX=Server Serial Number)

A file is created for each monitored PGM within the subfolder of its server.

XXXXX_PGM**Y**.TXT (XXXXX=Server Serial Number and Y=PGM Number)

Selection of PGM monitored by the As Will Run Log:

Select PGM boxes to activate the process.

	Play Channel	Click to active as will run log
1	01_ADL XT3_PGM1	
	01_ADL XT3_PGM2	
	01_ADL XT3_PGM3	

Once the As Will Run Log settings are configured, click on the **Apply** button before configuring another tab.

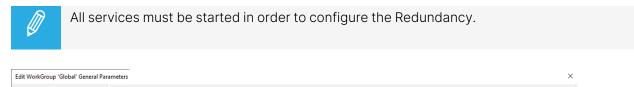


7.22. Redundancy Configuration

This tab should be used to configure the redundancy between two EWP servers.

On 6 channel server only, IPEdit can operate an Edit While Playout mode. Basically, PGM1&2 are used for playing the timeline live and the PGM3&4 for editing. The REC1&2 (or just REC1) are used to ingest feeds and clips.

The redundancy engine reproduces timelines, clip creations and all edits made on the Master server to the Slave server. The recording feeds REC 1&2 should be the same on both servers (Master & Slave).



Ip Edit – Edit To Air – Master/Slave Redundancy

• Master Server:

This list shows all 6 channels servers (not XS or XT 4 channels).

All lines are available except the ones that contain server used as slave in another line. In this case, the line is greyed out.

Slave Server:

Select in the drop down menu the desired Slave server for redundancy.

All 6 channels servers are listed except the ones already assigned slave in other lines.

• Rec1&2:

Define if recorders 1&2 of the server (Cam A&B) must be synchronized in term of clip re-creation.

Once a recorder is defined, the two servers used for redundancy should receive the same feed for this channel.

How to assign a slave server to a master server?

Choose the line with the desired Master server, and assign it its slave companion. Select then the recorder channels which receive the same feed on both servers.

	Master Server	Slave Server		Rec1	Rec2
•	AUXSRC 5	NONE	~		
	XT 1.4	NONE XT 1.4		 Image: A start of the start of	
	XT 2.1	XT 2.2			
	XT 2.2	XT 2.1	*	~	~

Only non-paired servers are listed in the Slave server list.

Once a server is selected as a Slave one, its line is greyed out.

How to unassign a slave server from a master server?

Re-open the Slave server drop down list and select NONE.



Once the Redundancy settings are configured, click on the **Apply** button before configuring another tab.



7.23.API Configuration

This tab is used to configure the API Webservices and the Auto-Complete engine.

Edit WorkGroup 'Global' General F	Parar	meters X	<
General General Parameters		API Configuration	
Logsheet Parameters Service Configuration LAN/WAN D8 Parameters Status Poling Storage Phonties Storage Phonties SDTI Network Nearline Management Ping Exclusions Target XSquare		Global Configuration Parameters Proxy Address Check Activate Virtual IP mechanism By Activating this option, you will stat a leader election between all API in proxy mode and the leader one will receive, as virtual address, the API proxy IP address defined. About Valid address Warning: This mechanism is not compatible with DHCP mode is activated, the configuration will be witched to static P Address. Remark: Setting taken into account at auto-Complete API Services restart - Be sure that there is no other virtual IP mechanism on the setup (ike EveDblp). Remark: AI API Proxy need to be restarted to take parameter into account.	
XSquare Target Settings XML Units XML Units XML Targets Avid Targets Blackbird Playist Behavior Custom Fields Thumbnals IPLogger Export Directories Custom Fields Thumbnals IPLogger Export Directories Channel Configuration VarD Group Management Channel Configuration VarD Group Management As Run Log Parameters As Run Log Parameters As Run Log Marger As Will Run Log Redundancy API Configuration Directoric Dir Gateurase			
		Save Cancel Apply	

Proxy Address

Enter the Proxy address and validate it by clicking the **Check** button.

By default, the database IP address is configured. It corresponds to 99% of cases since the proxy is usually installed on the database.

If the API-Proxy is installed on dedicated workstation, change the IP address.

This configuration is not taken into account if only one IP-API service is running in server mode without any proxy workstation.

Max Auto-Complete Results

This value defines the maximum number of proposals to be displayed by the autocomplete service when a search string is entered in a search field.

Maximum value: 100.



Once the IP-API settings are configured, click on the **Apply** button before configuring another tab.

7.24. Director's Cut Configuration

Introduction

L

This tab is used to configure the Director's Cut Gateway, Cerebrum or a VSM system (broadcast control and monitoring system), which will enable IPDirector to work with all the switchers supported by those systems.

Edit WorkGroup 'Global' General Par	rameters		×
LAN/WAN A DB Parameters Status Poling Storage	Director's (Cut Gateways	
Storage Priorities SDTI Network Nearline Management	Add the gateways that you want to manage		
Ping Exclusions Target	Name IP Address F	Port Type Offset for cuts (in ms)	
XSquare XSquare Target Settings	VSMDirector's Cut 192.168.0.200 56	50000 DC100 V -2000	
XML Units XML Targets Avid Targets Workflow Targets Blackbird Playlet Behavior Custom Rields Thumbnails IPLogger Export Directories Router Control Device Management Channel Configuration VarID Group Management As Run Log Parameters As Run Log Parameters As Run Log Parameters As Run Log Parameters As Run Log Reger As Will Run Log Redundancy APL Configuration Orrector's Cut Gatewaye Archive Service			
VIA MAP Plugins	New	Delete	
	Save Cancel Apply		

The DC-100 is the hardware gateway between the switcher and the IPDirector.

It will offer a generic XML protocol that will allow the IPDirector to speak one language that virtualize any switcher protocol.

The DC-100 is connected to an IPDirector workstation through an Ethernet link.

0		0
0		
0	RESETO COM2	0

The Switcher Gateway can be monitored from the Monitoring Management tool. See section "Monitoring Services" on page 194.



How to Add a New Gateway

1. Click on the **New** button to add a new Gateway.

An empty line is displayed .

Add the	s gateways that you want to manage					
	Name	IP Address	Port	Туре	Offset for cuts (in ms)	
•				DC100 -	0	
h.,	1 marine and the marine	at a gra	all wat	-		
		Vew	Delete			

- 2. Enter the name of the Gateway in the **Name** column.
- 3. Enter the IP Address of the gateway (Cerebrum, VSM or DC-100) in the **IP Adress** column.

In case of a DC-100, this address is set on the LCD screen of the DC-100 and requires a restart of the unit.

4. Enter the port number of the gateway (Cerebrum, VSM or DC-100) in the Port column.

In case of a DC-100, the port number value can be found in the DC-100 configuration web page. Open a web browser (like Internet Explorer), enter the IP address of the DC-100. The DC-100 Home Page will be displayed:

∎Ųs			Model 340. DC-388 Software You: 6.470.2 Social Posts: 4	Secial NO. 494988 Label DC-09 OPL-070_3132		Lane
Protocol Assignment	<u>GP1 GP0</u>	Event Notification	Event Definitions	Action Definitions	Event Monitoring	Syntem
IF Configuration IP Adarss Suburt Mark Garway	30.11.11.40 255.0.0 30.0.1					
Default Value:	50000.					

The port must be unique between all the configured gateways.

- 5. Select the gateway type:
 - Cerebrum
 - VSM

4

• DC-100

6. (optional) Set an offset value for the cuts to reduce or cancel the offset generated by the communication between the switcher, the gateway and the EVS system.

Default value: 0 ms.

The value must be negative with a maximum of 4 digits.

7. Click **Save** to validate the whole IPDirector configuration.



Please refer to the DC-100 User Guide to configure the gateway unit or to the Cerebrum user manual.

How to Delete a Gateway

1. Click on the line header to select it.

dd the	galeways that you want to manage				
	Name	IP Address	Port	Туре	Offset for cuts (in ms)
1	/SMDirector's Cut	192,168,0,200	50000	VSM 🔻	-2000
	grand and and the second		and the second second		and the state

2. Click on the **Delete** button.



7.25. VIA MAP

Overview of the VIA MAP Tab

In the MediaCeption Signature solution, some VIA MAP apps are integrated into the IPDirector user interface.

This tab is used to configure the communication between VIA MAP and IPDirector, to choose the VIA MAP apps available from IPDirector, and to set the default role that will be assigned to new users.

Edit WorkGroup 'Global' General Parameters	Х
LAN/WAN A DB Parameters	VIA MAP
Status Poling Storage Storage Priorities SDTI Network Nearine Management Prig Exclusions Target XSquare XSquare XSquare Target Settings XML Units XML Units	VIA MAP Address : https:// v product-lab-via.eng.evs.tv VIA MAP Admin API Key : The API Key can be created on the VIA MAP "My Account Settings" page Components VIA Import : V VIA Import : V VIA Ingert : V Hide IPD Ingest Scheduler ?
Avid Largets Avid Targets Workflow Targets Bia-kklorid Playket Behavior Custom Relds Thumbnalis IPLoger Export Directories Router Control Device Management Channel Configuration VarD Group Management	User Settings Default role for new users : Content Acquisition Refresh
As Run Log Parameters As Run Log Merger As Will Run Log Redundancy API Configuration Director's Cut Gateways Archive Service VIX NUSP Plugins V	
	Save Cancel Apply

VIA MAP Address

Enter the address of the workstation hosting VIA MAP

VIA MAP Admin API Key

Paste here the API key that you would have generated and copied from the VIA MAP settings.

This is used by IPDirector to display and use VIA MAP apps.

Components

VIA MAP import, VIA MAP Record and/or VIA MAP Ingest

Select the VIA MAP apps that will be available by default from the IPDirector interface for all the users. Would this needs to be adapted per user, this must be done from the VIA MAP settings.

Hide IPD Ingest Scheduler:

When you use VIA MAP Ingest, you can choose to hide IPD Ingest Scheduler from the IPDirector interface.

User Settings

This setting defines the default role that new users will get once they log in VIA MAP. Would this role must change afterwards, this will be edited from VIA MAP.

The menu lists all the roles defined in VIA MAP.



7.26. Plugin Management

This tab is used to configure the plugins which can be used from the IPDirector user interface and which involve a URL.

Edit WorkGroup 'Global' Gener	al Para	meters													×
LAN/WAN DB Parameters Status Polling	^				Plugin	Ma	nager	ment							
Status Poling Storage Storage Priorities SDTI Network		Add th	e plugins you want to see in	IPDirector											
Nearline Management Ping Exclusions			Module Name	URL	In Toolbar	lcon	Min SizeX	Min SizeY	Max SizeX	Max SizeY	Default SizeX	Default SizeY	Legacy Mode	Access Rights	
Target		•	MyPlugin	https://evs.com			100	100	1920	1000	1024	800			
XSquare XSquare Target Settings			Xsquare	http://		×	100	100	1920	1000	1024	800			
XML Units XML Targets Avid Targets Biackbird Playlist Behavior Custom Fields Thumbnalis IPLogger Export Directories Router Control Device Management Charnel Configuration VarID Group Management As Run Log Parmeters As Run Log Parmeters As Run Log Marger As Will Run Log Redundancy API Configuration Director's Cut Gateways Archive Service VIA MAP Flugne	*				New			Delete							
				Save Cancel	A	pply									

Module Name

Enter the plugin name as it will appear in IPDirector.

URL

Enter the plugin address.

In toolbar

Select the check box if you want the plugin to be available from the IPDirector toolbar.

Clear the check box if you do not want the plugin to be available from the IPDirector toolbar.

lcon

Click in the cell to browse and select an image to associate with the plugin name in the interface.

Min Size X

Enter the minimum width of the plugin window.

Min Size Y

Enter the minimum height of the plugin window.

Max Size X

Enter the maximum width of the plugin window.

Max Size Y

Enter the maximum height of the plugin window.

Default Size X

Enter the default width of the plugin window.

Default Size Y

Enter the default height of the plugin window.

Legacy Mode

Select the check box if you want the plugin to open in Internet Explorer.

Clear the check box if you want the plugin to open in Edge.

Access Rights

Select the groups who will have access to the plugin.

- No group selected: no visibility for any user/group (except Admin users).
- Group(s) selected: visibility limited to selected groups.



See also the Plugins Management section in the General Functions user manual.

7.27. Plugin - Import IPD Users in VIA Xsquare

Context of Use

This plugin is designed to import the IPDirector users created in IPDirector User Manager into VIA Xsquare, with or without the groups they belong to.

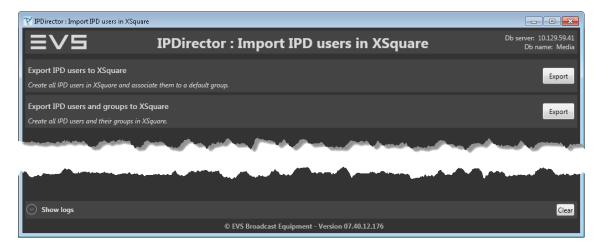


You can access it by clicking the Launch Plugin / button and then clicking Launch next to IPDirector - Import IPD users in Xsquare.

The following users should never be modified to ensure that this works properly:

- administrator,
- the credentials entered in the Xsquare tab for connection to VIA Xsquare. See section "VIA Xsquare Parameters Definition" on page 90.

Possible Options



Export IPD users to Xsquare

This option creates all the IPDirector users in VIA Xsquare, provided that they do not exist yet. Users already present in VIA Xsquare are not modified.

The same temporary password is associated with all the users imported in VIA Xsquare. As soon as a user logs in to IPDirector with the credentials set in User Manager, the password will be updated in VIA Xsquare.

All the users imported in VIA Xsquare are assigned to the same group: VIA Xsquare users. Then, an VIA Xsquare administrator will have to assign imported users to groups and publish targets to groups.

Export IPD users and groups to Xsquare

This option creates all the IPDirector users in VIA Xsquare, provided that they do not exist yet. Users already present in VIA Xsquare are not modified.

The same temporary password is associated with all the users imported in VIA Xsquare. As soon as a user logs in to IPDirector with the credentials set in User Manager, the password will be updated in VIA Xsquare.

The IPDirector groups the imported users belong to are imported as well in VIA Xsquare with the following naming convention: IPDirector_[Name of the group].

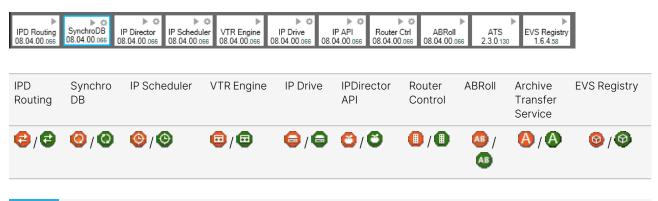
8. Managing Services

8.1. Overview of the Workstation Services

Workstation Services

All the services are Windows services loaded at the Windows start up.

Each service is represented by a button on the Workstation area and by an icon on the Windows taskbar. They are not displayed in the same order in both places.



Version number displayed in the screenshot is for information only. This must not be taken as a reference.

A right-click on a **Service** button gives access to several options to start, stop, monitor the service or to edit the service configuration.

The icon color gives an indication on the application state: orange: stopped, green: started, dark green: started as Master (when applicable).

IPD-Routing Service

This service establishes communications between IPDirector stations and EVS servers.

This service starts automatically on IPDirector workstations.

SynchroDB Service

The SynchroDB is a service running on every IPDirector workstation. All SynchroDB services on the network will manage database synchronization between the IPDirector SQL database and the XNet database. These SynchroDB services will manage all servers, and the configured nearline directories.

This service starts automatically on IPDirector workstations.

The Archive Service (AS), used in the Archive and Restore to nearline process, is managed by the Synchro DB service. It receives the requests from IPDirector and communicates with the ATS service.



Only one SynchroDB manages jobs in a workgroup (the SynchroDB running with the Master role). Declaring more than one SynchroDB as a Master Candidate is allowed and brings you failover functionality.

The blue border indicates that XSecure licenses have been installed on the workstation.

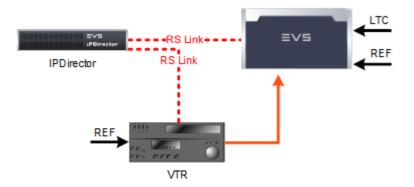
IP-Scheduler Service

This service manages jobs in a workgroup. This is only the case for the IP-Scheduler running as the MASTER. Starting more than one IP-Scheduler is allowed and brings failover functionality.

This service can be started automatically if configured to do so. Otherwise it starts manually on IPDirector workstations.

VTR Engine Service

VTR Engine allows you to manage VTR (maximum 4 by workstation) with the unused RS422 connections of the IPDirector workstation.



This service can be started automatically if configured to do so. Otherwise it starts manually on IPDirector workstations.

IP Drive Service

IP Drive allows you to auto detect external drives connected to IPDirector, XF or XSquare workstations (or other PC with external disks). Those drives can be managed by a SynchroDB and recognized as a nearline directory inside IPDirector.

See section Directory Sharing Configuration in "Configuring SynchroDB" on page 173 and "Nearline Management Configuration" on page 80.

IP Drive can be installed on another workstation. XF, XStore, Xsquare and other storage computers are able to run an IP Drive.

This service can be started automatically if configured to do so. Otherwise it starts manually on IPDirector workstations.

IP API Service

An integrated API is provided with the IPDirector package. It is installed on each workstation and mainly dedicated to search queries (Autocomplete Indexer)

IPWS is a SOAP Web Service enabling IPDirector to act as a Web Service server and to handle requests from the API clients.

An API client that wants to send a request to the IPDirector IPWS API can connect to any IPDirector where the Web Service is started. However, to use only one point of contact and be able to use the processing power of multiple Web Services, a Web Service Proxy can be installed on a gateway server (i.e. the DB Server). This proxy will route the requests to a "Web Service Farm" composed by all Web Services started in the IPDirector workgroup. This Proxy function adds load balancing and redundancy capabilities to the IPDirector IPWS API.

For details, please refer to the document **IPDirector_API_HowTo.pdf** provided with the release notes.

IP API can be installed on another workstation. Typically, database computers are able to run an API Proxy.

See section "Installing and Configuring IP Drive and API Proxy" on page 247.

The Auto-Complete search feature available in the IPDirector GUI is based on an engine which is hosted by the IPWS API service.

The Auto-Complete engine can only be started in an IP API service in Server mode (not in Proxy mode). It responds to the Auto-Complete requests. The Auto-Complete engine usually consumes a lot of memory and receives lots of requests. So it only starts on machines where this configuration is specified.

It is therefore possible to find a setup where no machine handles the Auto-Complete feature if no IP API service is started or configured for it.

Router Control Service

This service manages communication with a video router.

This service can be started automatically if configured to do so. Otherwise it starts manually on IPDirector and API Proxy workstations.

See section "Defining the Workstation Responsible for the Control of the Router" on page 228 for more information on the service configuration.

AB Roll

This service manages the AB Roll engine and allows the use of the AB Roll Playlist module.

If the service is not started, users will not be able to set the player channels of a studio in AB Roll mode, to link a studio to the AB Roll interface, to preload a playlist on this interface, or to use the transport functions.



ATS

This service receives the requests from the AS service and communicates with the HSM archive system. If it stops working, the ATS service from another workstation will take the Master role. In such cases when different ATS services have been involved in a job processing, both workstations will be referenced in the Transfer Monitoring window.

See section "Configuring the Archive Management Parameters" on page 233.

EVS Registry

This service is used to register the AS and ATS services.

It must also be started to allow the grabs and thumbnails to be processed properly.

It is installed with the IPDirector package.

This service can be started automatically if configured to do so. No other configuration is required. No Master role is involved.

The Status bar gives information on the status of the EVS Registry service by means of color code.

Service Registry : no service registry is started in the workgroup

Service Registry : at least one service is started on the workgroup

It is recommended to start the EVS Registry service on 3 workstations for security reasons, no more, not to overload the database.

8.2. Starting Services

Prerequisites

SynchroDB and IPDirector services must have been configured before start.

Manually Starting a Service

Any service can be individually and manually started on a workstation in one of the following ways:

- Use the start option of the workstation Service:
 - With the Classic theme, right-click the corresponding **Service** box and select **Start** from the contextual menu.



- With the Dark theme, click the [>] button on the **Service**.
- Right-click the corresponding **Service** icon on the Windows taskbar and select **Start Service** from the contextual menu.

IPDirector can be manually started on a workstation in one of the following ways:

- Use the start option of the workstation Service:
 - With the Classic theme, right-click the **IPDirector** box and select **Start** from the contextual menu.

IP Director 07.40.12 Rev 176	
	Start
	63

- With the Dark theme, click the [>] button on the **IPDirector** square.
- Select the IPDirector option from Start Menu > Programs > EVS Broadcast Equipment > IPDirector
- Double-click the desktop icon:



When starting an IPDirector application on a workstation which is not integrated into an Active Directory domain, the Login screen is displayed.



It has no sense to start or auto start a VTR Engine on a workstation which is not connected to a VTR.

It has no sense to start or auto start an IP Drive on a workstation which is not supposed to receive external drives.

Automatically Starting a Service

How to Set a Service to Auto-Start

A setting is available to set an Auto Start option on some services and make them automatically start in some conditions.

The **Auto Start** option is available for IP-Scheduler, VTR Engine, IP Drive, IP API, Router Ctrl, AB Roll, ATS and EVS Registry services.

To set a service to Auto Start,

- 1. Right-click the **Service** button.
- 2. Select **Auto Start** from the contextual menu.



How to Start "All" Services of the Workgroup

Click the Start All Services or button on the workgroup toolbar.

This starts the following services on the workgroup:

- the "mandatory" IPD-Routing and SynchroDB services
- the Remote Installer services set to **Auto Start**. This can be IP-Scheduler, VTR Engine, IP Drive, IP API, Router Control, AbRoll, ATS and EVS Registry.
- the Indexing Service components set to Auto Start.

How to Start "All" Services of a Workstation

• Right-click a workstation area and select Start All Services from the contextual menu.

This starts the following services on the workstation:

- the "mandatory" IPD-Routing and SynchroDB services
- the Remote Installer services set to **Auto Start**. This can be IP-Scheduler, VTR Engine, IP Drive, IP API, Router Control, AbRoll, ATS and EVS Registry.
- the Indexing Service components set to Auto Start.

How to Start IPDirector and all the Services

- 1. Right-click the **Start All Services** or **b** button on a workgroup.
- 2. Select the Start All IPDirector and Services option.

This starts IPDirector and all the services started with the Start All Services option.

How to Start All Indexing Services

Indexing Services can be started from the Indexing Service window. Refer to section "Managing and Monitoring the Indexing Service" on page 197.

They can also be started from the main Remote Installer window:

- 1. Right-click the **Indexing Service** button of the workgroup from the main Remote Installer window.
- 2. Select the Start all Indexing Services option.

Display of Services Started

When a service is started, its button has a green background.

The **Service** icon becomes green on the Windows taskbar of the workstation where the service is started.

Example for IPD-Routing: 🔁 -> 🔁

8.3. Stopping Services

Services must be stopped to be able to edit their configuration.

The **Stop** option will close properly the IPDirector application, the running services and the Indexing Services.

The **Kill** option will stop the IPDirector process. The **Kill** option must be used as a last resort if the service cannot be stopped.

How to Stop One or Several Services

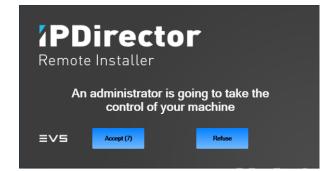
- 1. Any service can be manually stopped on a workstation in one of the following ways:
 - Use the stop option of the workstation Service:

With the Classic theme, right-click the corresponding **Service** box and select **Stop** from the contextual menu.

IP API 07.40.12 Rev 176					_
		Kill			
		Stop			
			43		

With the Dark theme, click the button on the **Service**.

- Right-click the corresponding **Service** icon on the Windows taskbar and select **Stop Service** from the contextual menu to stop the service on the current workstation
- Click the **Stop All** or button to stop all the programs from the workgroup.
- Right-click a workstation area and select **Stop All** from the contextual menu to stop all the programs from the selected workstation.
- 2. On distant workstations where a stop order has been remotely given, a warning message is displayed.





(optional) The users of this workstation can click **Refuse** within the 10 seconds countdown if they want to counter the operation.

How to Stop Indexing Services

Indexing Services can be stopped from the Indexing Service window. Refer to section "Managing and Monitoring the Indexing Service" on page 197.

They can also be stopped from the main Remote Installer window:

- 1. Right-click the **Indexing Service** button of the workgroup from the main Remote Installer window.
- 2. Select the Stop all Indexing Services option.

How to Kil Services

The **Stop** options will properly close the corresponding application or service while the **Kill** option will stop the corresponding service process. The **Kill** option must be used as a last resort if the service cannot be stopped.

• Right-click the **Service** box corresponding to a service of the workgroup and select **Kill** from the contextual menu.

Display of Services Stopped

When a service is stopped, its box has a white background.



or

► ►	o ► 0	► ¢	►	▶ ♦	⊳ ¢	⊳ ¢	►	►	►
IPD Routing Synchrol	B IP Director	IP Scheduler	VTR Engine	IP Drive	IP API	Router Ctrl	ABRoll	ATS	EVS Registry
08.04.00.066 08.04.00.	66 08.04.00.066	08.04.00.066	08.04.00.066	08.04.00.066	08.04.00.066	08.04.00.066	08.04.00.066	2.3.0.130	1.6.4.58

The **Service** icon becomes orange on the Windows taskbar of the workstation where the service is started.

Example for IPD-Routing: 🔁 -> 🔁

8.4. Configuring Services

8.4.1. Configuring IPD-Routing

There is no more configuration done on the IPD-Routing service.

However, the following conditions must be met to ensure a proper working:

• The Network Information must have been configured. See section "Setting Network Information for the Workstation " on page 46.

• The Serial Communication must have been configured. See section "Configuring the Serial Ports" on page 47.

8.4.2. Configuring SynchroDB

Purpose

It is important to specify which server, XStore, XF and directory will be managed by which SynchroDB.

All parameters are local to the IPDirector workstation and must be set independently on all IPDirector workstations.

Limitations and Constraints

- Only one SynchroDB service should manage one server, XStore, XF or directory at a time on the network. Otherwise, a conflict is detected by the Remote Installer. In this case the color of involved machines turns red.
- If one server is not managed by any SynchroDB on the IPDirector workstations, it will not appear in the Channel Explorer of the IPDirector application.

SynchroDB Configuration Window

The SynchroDB service is configured from the SynchroDB Configuration window.

To open the SynchroDB Configuration window in Edit/Configuration mode,

- 1. Make sure the SynchroDB service is stopped.
- 2. With the Classic theme:
 - a. Right-click the **SynchroDB** box.
 - b. Select **Edit Config** from the contextual menu.

With the Dark theme,

Click the [©] button on the service box.



The SynchroDB Configuration window opens:

Edit IPDA260760 SynchroDB Configuration	
SynchroDB	
SynchroDB Config	uration
Lsm Sharing Configuration Restricted Stand-Alone (RSA) Synchro DB will only manage XT servers which are specified in the list Network Synchro DB will automatically share the management of the XT not managed in the routing table None Synchro DB will not manage any XT	Lsm Serial Number List Serial Number : Add 24940 Remove Remove All
Directory Sharing Configuration	Directory List ♥ HiftesFiles ♥ LowResFiles ♥ Neatine on IPDadl ■ Neatine on XF3 ♥ Neatine on XF3
Save Cancel	

LSM Sharing Configuration

Lsm Sharing Configuration	Lsm Serial Number List
Restricted Stand-Alone	Serial Number : Add
SynchroDB will only manage XT servers which are specified in the list	33660
Network	
SynchroDB will automatically share the management of the XT not managed in the routing table	
🔘 None	
SynchroDB will not manage any XT	Remove Remove All

Restricted Stand-alone

This option allows you to spread the management of servers between many IPDirector workstations by statically defining the server serial numbers.

Be sure that one server is only managed once on the IPDirector network SynchroDB services.

Specify the serial numbers of the servers the SynchroDB will manage on the XNet network.

- 1. Enter the serial number of the server in the **Serial Number** field.
- 2. Click on the **Add** button.

The server is added to the list.



If the XNet network is already running, a convenient place to gather all the server serial numbers is from the **SHIFT + F4** screen on any of the Multicam user VGA stations.

Network

Use this option to automatically assume the management of servers amongst different SynchroDB mainly for emergency purposes.

For example if a SynchroDB of one workstations stops, another SynchroDB can take the duties and manage the servers which were originally managed by the SynchroDB that has stopped.

Edit WorkGroup 'Global' General Parameters		×
General General General Parameters Service Configuration LAN/WAN SynchroB Load Blancing DB Parameters Status Poling Storage Priorities Storage Priorities SDTI Network Nealine Management	SynchroDB Load Balancing Configuration Network Number of IP Client 1.10 Number of XT 1.5 V	
Ping Exclusions Target XSquare XML Lints XML Targets Avid Targets Workflow Targets Trumbnals IPLogger Export Directories Router Control Device Management Channel Configuration VarID Group Management As Will Run Log Pisylat Custom Fields Redundancy API Configuration Director's Cut Gateways Archive Service	✓ Use Default Parameters Max Non SDTI Max SDTI Optimum Non SDTI 5	
	Save Cancel Apply	

In the case of a complete SynchroDB management using the network mode, you need to set the basics parameters comparing to your setup size.



It is strongly recommended to keep the parameters by default.

None

Select this option to indicate that no server will be managed by the local SynchroDB of this IPDirector workstation. After reviewing the SynchroDB configuration, you may notice that a selection of **None** will appear as a Restricted Stand-Alone mode with an empty list. This is identical to selecting **None**.



Directory Sharing Configuration



Restricted Stand-alone

This option allows you to spread the management of the static Nearline directories between many IPDirector workstations.

Be sure that one directory is only managed once on the IPDirector network SynchroDB services.

Force the Nearline directory to be managed by this SynchroDB by selecting the box in front of its name.

The Nearline directories must have previously been defined in the Remote Installer / Configure / Near Line Management tab. See section "Nearline Management Configuration" on page 80.

Network Nearline and IPDrive

Use this option to automatically assume the management of Nearline directories and IPDrives amongst different SynchroDB. This is mainly used for managing new drives detected by the IP Drive service.

See section "Configuring IP Drive" on page 186.

If a SynchroDB of one workstation stops, another SynchroDB can take the duties and manage the directories which were originally managed by the SynchroDB that has stopped.

Network Nearline only

Use this option to manage only the nearline directories.

If a SynchroDB of one workstation stops, another SynchroDB can take the duties and manage the directories which were originally managed by the SynchroDB that has stopped.

Network IPDrives only

Use this option to manage only the IPDrives.

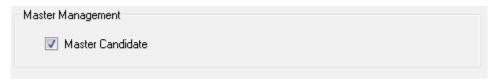
If a SynchroDB of one workstation stops, another SynchroDB can take the duties and manage the IPDrives which were originally managed by the SynchroDB that has stopped.

None

Select this option to indicate that no directories will be managed by the local SynchroDB of this IPDirector workstation.

After reviewing the SynchroDB configuration, you may notice that a selection of **None** will appear as a Restricted Stand-Alone mode with an empty list. This is identical to selecting **None**.

Master Management



Only one SynchroDB manages jobs in a workgroup: the SynchroDB running with the Master role.

It is mandatory to declare at least one SynchroDB as a Master Candidate even if it is a standalone workstation. This workstation may consume more CPU resources.

Declaring more than one SynchroDB as a Master Candidate is allowed and brings you failover functionality. Then, the SynchroDB with the lowest routing number assumes the Master role.

The SynchroDB with the Master role manages the following jobs:

- Thumbnails creation
- Backup and restore status
- Target status
- LTC distribution
- Ingest scheduling
- Near Line directory status
- Warning management.

The Master role is clearly identified with a dark green status within the Remote Installer.

🗙 1_IPDA	260770 (10.129	9.59.41) [IPDi	rector PGE]		
IPD Routing 07.40.12 Rev 176	SynchroDB 07.40.12 Rev 176	IP Director 07.40.12 Rev 176	IP-Schedul [,] 07.40.12 Rev 176		
SN: 260770					
or 1_IPDA260770 (10.129.59.41) [IPDirector PGE]					
IPD Routing SN : 260770	SynchroDB	IP Director	IP-Schedul•		



8.4.3. Configuring IPDirector Service

Assigning a Channel to a Video Display

Purpose

This step is used to associate a player channel of a specific server to a Video Display (Video Board).

Prerequisites

- A physical connection exists from the required video source (player channel) on the server to the input of the IPDirector workstation video card.
- The Serial Communication must have been configured.
- The SynchroDB service must have been configured.
- The IPD-Routing and SynchroDB services must be started.
- The IPDirector application must be stopped.

If the application is running, the **View Config** option is available instead of the **Edit Config** option and no edition can be done from the window.

How to Assign a Channel to a Video Display

- 1. With the Classic theme:
 - a. Right-click the IPDirector Service box on the Workstation area.
 - b. Select Edit Config from the contextual menu.

With the Dark theme,

Click the ⁴ button on the service box.

Edit IPDA260770	IP-Director	Configuration					×
				IP-Director	Configuration		
	Channel M	lanagement					
	Linked	Channel			Video Display		
			13_PGEXT3_PGM1				~
			13_PGEXT3_PGM2			1 - AVH Capture Board	~
			13_PGEXT3_PGM3 13_PGEXT3_PGM4				<u> </u>
			10, 42,110, 41,11				
	Software	Player parameters					
	Enat	le 4K Browsing					
				Close			

The IPDirector Configuration window opens:

- 2. Select the box in the **Linked** column corresponding to the player channel you want to link to the video display.
- 3. Select which video display device it must be linked to from the drop down list in the **Video Display** column.



The linked box can be selected without being linked to a Video Display. For example, this is used when an external monitor is connected to your workstation.

- 4. Click Save.
- 5. Repeat steps 1 to 5 for all IPDirector workstations as these parameters are local to the IPDirector workstation.

Enabling 4K Browsing

Context of Use

4K media need sufficient resources to be properly processed.

An option is available to enable 4K values to be taken into account. When the option is not selected, HD values are taken into account for browsing.



It is not recommended to browse 4K media on management workstation.



Software and Hardware Requirements

The following conditions must be met to be able to browse 4K media.

- The workstation must have at least 16 GB RAM.
- At least Windows 10 must be used.

How to Enable 4K Browsing

- 1. With the Classic theme:
 - a. Right-click the IPDirector Service box on the Workstation area.
 - b. Select Edit Config from the contextual menu.

With the Dark theme,

Click the [©] button on the service box.

The IPDirector Configuration window opens.

- 2. Tick the Enable 4K Browsing option.
- 3. Click Save.

8.4.4. Configuring IP-Scheduler

Prerequisites

- The Serial Communication must have been configured.
- The SynchroDB service must have been configured.
- The IPDirector service must have been configured.
- To automatically start IP-Scheduler with the IPDirector application, select Auto Start from the IP-Scheduler box contextual menu.

Master Role

Definition

Within a workgroup, an IP-Scheduler service can run as Master or Slave.

- The Master is the only IP-Scheduler service which manages jobs in the workgroup. There is only one Master per workgroup.
- The Slave(s) bring(s) failover functionality and has/have a Waiting status.

Setting

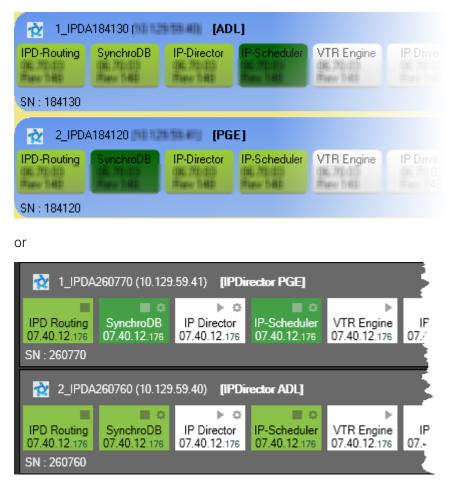
If only one IP-Scheduler service is started in the workgroup, it automatically runs as Master.

When more than one IP-Scheduler are started on a workgroup, the service with the lowest routing number takes the Master role.

In case the Master stops working, the slave IP-Scheduler with the lowest routing number takes the Master role in the workgroup.

Display

The Master role is clearly identified with a dark green status within the Remote Installer. The Slave(s) has/have a light green status.



IP-Scheduler Configuration Window

The IP-Scheduler service is configured from the IP-Scheduler Configuration window.

To open the IP-Scheduler Configuration window in Edit/Configuration mode,

- 1. Make sure the IP-Scheduler service is stopped.
- 2. With the Classic theme:
 - a. Right-click the **IP-Scheduler** box.
 - b. Select Edit Config from the contextual menu.



With the Dark theme,

Click the ⁴ button on the service box.

The IP-Scheduler Configuration window opens:

Edit configuration	
IP-Scheduler	
	IP-Scheduler Configuration
	Status Name Period Value (in sec.) Edit Characteristics
مستعري	and the second sec
	New Delete
	Save Cancel

How to Add a Job

Creating a new job is mainly useful for managing external information systems like a stats feed or other data coming from an XML managed system.

1. Click the **New** button.

A new line is added in the list.

		IP-Scheduler C	onliguration			
	L					
•	Status	Name EVS_T0_DB - EVS Logging System		Period Value (in sec.) 5	Edit Characteristics Edit	
į,			مو کر بر		- 4 ¹	
	·····			·····		
		New	Delete			

2. Set the status of the job from the Status column: it can be active or inactive.

Once a job is configured, it is possible to stop it temporally without having to delete it and loose its characteristics.

- 3. From the Name column, select the type of job you want to create:
 - EVS_TO_DB EVS Logging System
 - MoveFileTo Move every files to another directory

4. Select the periodicity of the IP Scheduler polling process. The IP Scheduler will poll into one incoming directory, searching for new XML files.

Enter a value in the Period Value column.

Default value: 5 seconds

5. Click the **Edit** button in the Edit Characteristics column to define the different directories involved in the job process from the Edit Job Characteristics window.

Every job has different characteristics.

- For EVS_TO_DB EVS Logging System, go to step 6.
- For MoveFileTo Move every files to another directory, go to step 7.
- 6. EVS_TO_DB EVS Logging System.

This type of job runs when the IPDirector is interfaced with an external logging system or stats system. This external application will send XML files corresponding to logsheets, logs and/or keyword grids which will be inserted in the IPDirector database.

This job also includes the Clip Creation feature and ingest of the metadata referencing XML file.

The processed information is then available for browsing purposes in the IPDirector interfaces.

Edi	it job characteristics		×
	Job characteristics		
	EVS_TO_TODO:	\\DB64500\ThirdParty\EVS_T0_DB_EVS_T0_T0D0	Browse
	EVS_TO_TREATED:	\\DB64500\ThirdParty\EVS_T0_DB_EVS_T0_TREATED	Browse
	EVS_FROM_TODO:	\\DB64500\ThirdParty\EVS_T0_DB_EVS_FROM_T0D0	Browse
	EVS_FROM_TREATED:	\\DB64500\ThirdParty\EVS_T0_DB_EVS_FROM_TREATED	Browse
	RETRY_DURATION:	1	minutes
	INTERVAL_BETWEEN_FILE	0	seconds
~	and the second	مى مەرىمەن ۋە مەركى ئال	gentles generally and gen
h			and the second
		Accept Cancel	

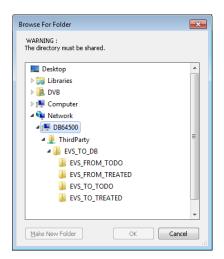
The IP Scheduler will poll on the EVS_TO_TODO directory to find all jobs (XML files corresponding to logsheets, logs and/or keyword grids) which must still be treated, and insert the corresponding data in its database. When the EVS system has treated the job, the XML file will be moved into the EVS_TO_TREATED directory.

The third party system will poll on the EVS_FROM_TODO directory to find all jobs (xml files) which must still be treated and process the information. When the third Party system has treated the job, the xml file must be moved into the EVS_FROM_TREATED directory.

a. Click the **Browse** buttons in front of the characteristics to define the corresponding directories.



Directory Name	Directory content
EVS_TO_TODO	Data to be treated from third party system to EVS system
EVS_FROM_TODO	Data to be treated from EVS system to third party system
EVS_TO_TREATED	Data treated from third party system to EVS system
EVS_FROM_TREATED	Data treated from EVS system to third party system



 $\underline{\land}$

The directories must be shared with full access control.

b. Set the **Retry Duration**.

Default value: 1 minute.

c. Set the Interval Between File.

This parameter is used to define a time interval between the process of the XML file related to a clip creation and the XML file related to the logsheet creation and clip protection. This is to avoid an error in case the second one is processed before the first one is not done yet.

Default value: 0 seconds.

- d. Click Accept to validate the new job characteristics.
- 7. MoveFileTo Move every files to another directory.

This job is used to zip the content of a source folder and move the zipped file to another destination directory.

Edit job characteristics		×
Job characteristics		
SOURCE_DIRECTORY:	\\DB64500\Fiches\	Browse
TARGET_DIRECTORY:	\\XFile64480\TARGET\	Browse
سور الاسی بی	and the second secon	at a second
	Accept	

a. Click the **Browse** buttons next to the characteristics to define the corresponding directories.

SOURCE_DIRECTORY: the content of this directory is zipped and copied to the destination directory.

TARGET_DIRECTORY: this directory receives the zipped files containing the files found inside the source directory.



The directories must be shared with full access control.

b. Click Accept to validate the job characteristics.

How to Delete a Job

To delete a job, simply select the job by clicking on the header line.

Then, click on the **Delete** button.



frmEditConfig											×
IP-Scheduler											
				IP-	Schedu	ler (Config	urati	ion		
		Status	Name			Period Value	Unit		Last Execution	Next Execution	Edit Characteristics
	I	ACTIVE	▼ EVS_TO_DB · E	VS Logging System	•	1	minute	-	18/10/2012 12:45:41	18/10/2012 12:45:41	Edit
						1					
					New			Dele	ete		
					Save		Cancel				

8.4.5. Configuring VTR Engine

There is no more configuration done on the VTR Engine service.

However, the following conditions must be met to ensure a proper working:

- The Serial Communication must have been configured. See section "Configuring the Serial Ports" on page 47.
- The SynchroDB and IP-Scheduler services must have been configured. See sections "Configuring SynchroDB" on page 173 and "Configuring IP-Scheduler" on page 180.
- To automatically start VTR Engine with the IPDirector application, select Auto Start from the VTR Engine button contextual menu.

8.4.6. Configuring IP Drive

Prerequisites

- At least one SynchroDB service should be in Network Mode when using IP Drive in order to automatically manage the detected drives.
- The Serial Communication must have been configured. See section "Configuring the Serial Ports" on page 47.

- The SynchroDB and IP-Scheduler services must have been configured. See sections "Configuring SynchroDB" on page 173 and "Configuring IP-Scheduler" on page 180.
- To automatically start IP Drive with the IPDirector application, select **Auto Start** from the **IP Drive** button contextual menu.

IP Drive Configuration Window

The IP Drive service is configured from the IP Drive Configuration window.

To open the IP Drive Configuration window in Edit/Configuration mode,

- 1. Make sure the IP Drive service is stopped.
- 2. With the Classic theme:
 - a. Right-click the **IP Drive** box.
 - b. Select Edit Config from the contextual menu.

With the Dark theme,

Click the [©] button on the service box.

The IP Drive Configuration window opens:

🍸 Ip DriveView Configu	iration			- 0	×
		IP DriveView Ser	vice Configuration		
detection(system dr	rune time, network dri	tomatic drive ives and system drives Excluded drives A: B: C: D: E: F: G: H: I: J: K: L: M: N: O:	Access Rights Group Name Stand-Alone Users Group A Group B Group C Settings Associated XSquare Template (default tem) Disable Thumbnail creation IPDrive clean-up on removal Remove Bin information from XML companion file when connecting IPDrives Network used (Default network	Clear Sele	Vrite
		P:			
		Save	Cancel		

See the sections below for a description of all the window areas.

3. (optional) Repeat previous steps for all IPDirector workstations as these parameters are local to the IPDirector workstation.



General

The aim of the General setting is to exclude known drive(s) from the auto detection and especially ones which do not contain relevant media files.

As it is impossible to keep a fixed letter drive in Windows OS, IP Drive has to monitor all letter drives to assume the auto detection. Typically, system drives should be excluded (A, B, C, and R).

Available drives D:	Exc	luded drives
E: F: G: H: J: K: L: M: D: P: Q: S: T: U: V: X: Y: Z:	B: C: R:	

Select the letter in the Available drives list to be excluded from the detection and click > to add it in the Excluded drives list (most EVS hardware will recommend excluding at least C:System, R:Restore and floppy A: / B: drives).

To remove it from the Excluded drives list, select it and click < to add it in the Available drives list.

Access Rights

As seen in the Near Line Management Configuration chapter, rights must be defined for drives detected on the workstation where IP Drive is activated.

Once group and user rights are defined inside the User Manager application, the drive access rights can be defined.

Group Name	Read	Write
Stand-Alone Users		
Group 1		
Group 2		
Group 3		

Select all wanted Read or Write boxes for each group.

Read

Selecting a Read box gives access to the visibility of the drive inside IPDirector (Restoring clips is allowed).

Write

Selecting a Write box allows performing a backup of the clips from a server to a drive (Reading is automatically allowed).

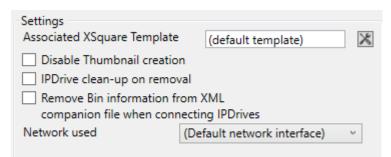


Administrator accounts can Read and Write in all drives even if the rights are not configured.

Clear Selection

Click the button to clear all checked boxes.

Settings



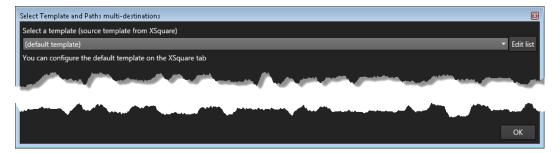
Associated Xsquare Template

- 1. Select a VIA Xsquare template that will be used for backup to / restore from nearline (IP Drive) operations. This can be:
 - the template selected as default template from the Xsquare tab (see section "VIA Xsquare Parameters Definition" on page 90). Then, go to step **7.**
 - another VIA Xsquare template: proceed with step **a.** to **e.** below.

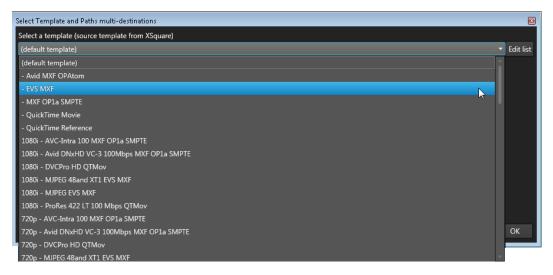


a. Click the kould button next to the nearline being configured.

The Select Template and Paths Multi-Destinations window opens:

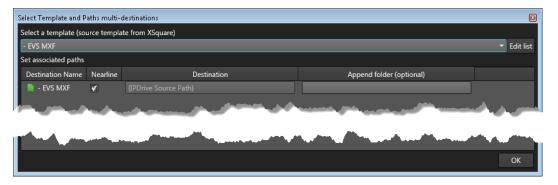


b. Click the arrow next to the **Template** field to display the list of available templates:



c. Select a template.

The selected template is listed in the window:



d. Click Save.

The selected VIA Xsquare template is displayed in the **Associated Xsquare Template** field:

Settings		
Associated XSquare Template	- EVS MXF	×

Disable Thumbnail Creation

This option is used to disable the creation of thumbnails for the IPDrive elements.

If the checkbox is selected, the thumbnail will only be created when the IPDrive clip is added into a playlist or when the **Recreate all thumbnails** option is selected from the IPDirector Tools menu.

If the checkbox is cleared (default), the thumbnails for the IPDrive elements will always be created.

IPDrive Clean-up on Removal

This option is used to remove any reference to the elements stored on the IPDrive after the IPDrive as been removed.

1. Select this option.

The following field is displayed:

✓ IPDrive clean-up on removal		
Clean-up IPDrive Offline since more than	24	hour

2. Enter the time (hours) after which the IPDrive elements seen as offline will be cleaned.

Remove Bin Information

This option is used to remove any information about bin which could come from the XML companion file when an IPDrive is plugged.

If the checkbox is selected, media will be imported from IPDrive without the bin metadata.

Network Used for Transfer

This option allows you to select the network which will be used for transfer when IPDrive is detected.

8.4.7. Configuring IP API

Prerequisites

- At least one SynchroDB service should be in Network Mode when using IP Drive in order to automatically manage the detected drives.
- The Serial Communication must have been configured. See section "Configuring the Serial Ports" on page 47.
- The SynchroDB, IP-Scheduler and IP Drive services must have been configured. See sections
 "Configuring SynchroDB" on page 173 "Configuring IP-Scheduler" on page 180. and "Configuring IP
 Drive" on page 186.
- The ISA service must be started.
- To automatically start IP API with the IPDirector application, select **Auto Start** from the **IP API** button contextual menu.



Master Role

The IP API with the lowest routing number takes the Master role.

This IP API is in charge of the API Notifications and usually consumes a lot of memory.

Other IP API started in the workgroup has a Waiting status (Only as an automatic failover for the IP API).

The Master role is clearly identified with a dark green status within the Remote Installer.

🗙 1_IPDA	260770 (10.129	.59.41) [IPDi	rector PGE]							
IPD Routing 07.40.12 Rev 176	SynchroDB 07.40.12 Rev 176	IP Director 07.40.12 Rev 176	IP-Scheduler 07.40.12 Rev 176	VTR Engine 07.40.12 Rev 176	IP Drive 07.40.12 Rev 176	IP API 07.40.12 Rev 176	Router Ctrl 07.40.12 Rev 176	AbRoll 07.40.12 Rev 176	ATS 2.3.0 Rev 114	EVS Registry 1.4.24 Rev 21
SN : 260770										
or										
험 1_ipda	260770 (10.125).59.41) [IPD	irector PGE]							
IPD Routing 07.40.12.176 SN : 260770	SynchroDB 07.40.12.176	P Director 07.40.12.176	► IP-Scheduler 07.40.12.176	VTR Engine 07.40.12.176	P Drive 07.40.12.176	IP API 07.40.12.176	► ¢ Router Ctrl 07.40.12.176	AbRoll 07.40.12.176	ATS 2.3.0.114	EVS Registry 1.4.24.21

IP API Configuration Window

The IP API service is configured from the IP API Configuration window.

To open the IP API Configuration window in Edit/Configuration mode,

- 1. Make sure the IP API service is stopped.
- 2. With the Classic theme:
 - a. Right-click the **IP API** box.
 - b. Select **Edit Config** from the contextual menu.

With the Dark theme,

• Click the 🍄 button on the service box.

The IP API Configuration window opens:

Edit WorkGroup 'Global' General Para	ameters	×
General A General Parameters	API Confi	iguration
Logsheet Parameters Service Configuration LAN/WAN DB Parameters Status Poling Storage Priorities Storage Prioritaties Storage P	Global Configuration Parameters Proxy Address Check About Valid address About Valid address Max Auto-Complete Results 100 Remark: Setting taken into account at auto-Complete API Services restart	By Activating this option, you will start a leader election between all API in praxy mode and the leader one will receive, as virtual address, the API proxy IP address defined. Warning: - This mechanism is not compatible with DHCP mode, if DHCP mode is activated, the configuration will be swhoch to static IP Address. - Be sure that there is no other virtual IP mechanism on the setup (like EvsDbip). Remark: All API Proxy need to be restarted to take parameter into account.
Acquirer Target Settings XSquare Target Settings XML Lints XML Targets Avid Targets Backbind Playlet Bahavior Custom Relds Thrumbnais IPLogger Export Directories Roter Control Device Management Charme Configuration VarID Group Management As Run Log Marger As Run Log Marger As Run Log Marger As Run Log Marger A Run Log Marger		
	Save Cancel Apply	

See the sections below for a description of all the window areas.

3. Repeat previous steps for all IPDirector workstations as these parameters are local to the IPDirector workstation.

Global Configuration Parameters

Global Configuration P	aramete	ers		
Proxy Address		Check		
About				
Max Auto-Complete Results	0		A V	

This section cannot be edited from the IP API service configuration.

It is accessible from the IP API tab in the Remote Installer configuration only. See section "API Configuration" on page 156.



8.4.8. Configuring AB Roll Service

There is no configuration required for the AB Roll service.

The AB Roll service with the lowest routing number takes the Master role.

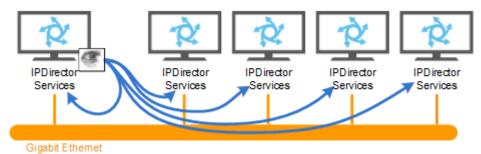
In case an AB Roll service with a lower routing number starts afterward, the first one remains Master. If the Master stops or fails, the AB Roll service with the lowest routing number will then take the Master role.

The Master role is clearly identified with a dark green status within the Remote Installer.

8.5. Monitoring Services

Context of Use

It is possible to remotely monitor all services from any workstation on the network using one common interface.





The monitoring interfaces are designed for technical assistance. The delivered information is dedicated to skilled users in contact with the EVS support staff.

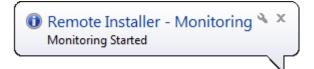
Starting the Monitoring Management Tools

Monitoring Management tool

To launch the Monitoring Management tool, proceed in one of the following ways. The service can be stopped or started.

- Right-click any of the **Service** buttons on a workstation area and select **Monitor** from the contextual menu.
- Right-click the **Remote Installer** icon or any **Service** icon on the Windows taskbar and select **Monitor Status**.

The Monitoring Management tool contacts all the workstations on the network and finally displays a tooltip above the Windows taskbar.



The Monitoring Management window is displayed.

Advanced Monitoring Manager tool

To launch the Monitoring Manager tool for the advanced monitoring of a service, proceed in one of the following ways. The service must be started.

- Right-click the **Service** button on a workstation area and select **Advanced Monitor** from the contextual menu.
- Hold the CTRL key and right-click the Service icon on the Windows taskbar. Then, select Monitor Status.

The Monitoring Manager window is displayed.

Overview of the Monitoring Management Window

Host 1120		al Information Workgroup: Doc DA184120 (1.1.53.100 Routing J6.56.12.087) SynchroDB 06.56.12.087	IPScheduler 06.56.12.087	IPDirector VTREngine 06.56.12.087 06.56.12.08		n IPDirector API 06.56.12.087
Routing	_	SynchroDB	IP Scheduler	VTR Engine	e Drive Detection	IPDirector API	Switcher Gateway
eral Pi	C Link XT Link	Applications Errors					
Workgr			-0	ount			
workgr	roup			Count	LIP		
		2		Count	UP		
Rou	uting ID	2		PC 1	0		
Rou	uting ID	2 Doc					
Rou Wor	uting ID			PC 1	0		
Rou Wor	uting ID rkgroup		Host ID	PC 1	0		
Rou Wor	uting ID rkgroup	Doc		PC 1 XT 1	0		
Rou Wor	uting ID rkgroup I ections Port	Doc RS Port		PC 1 XT 1	0	_	E
Rou Wor	uting ID rkgroup I ections Port Serial1	Doc RS Port COM1		PC 1 XT 1	0		
Rou Wor	uting ID rkgroup ections Port <u>Serial</u> Serial2	RS Port CDM1 CDM2		PC 1 XT 1	0		
Rou Wor	uting ID rkgroup ections Port Serial Serial2 Serial3	RS Port COM1 COM2 COM3		PC 1 XT 1	0		
Rou Wor	uting ID rkgroup I ections Port Serial1 Serial2 Serial3 Serial4	RS Port COM1 COM2 COM3 COM4		PC 1 XT 1	0		
Rou Wor	uting ID rkgroup II ections Port Serial1 Serial2 Serial3 Serial4 Serial5	RS Port COM1 COM2 COM3 COM4 COM5		PC 1 XT 1	0		
Rou Wor	uting ID rkgroup I ections Port Serial Serial Serial Serial Serial Serial Serial Serial Serial Serial	RS Port COM1 COM2 COM3 COM4 COM5		PC 1 XT 1	0		

Monitored Host (1)

This zone shows the workstation to monitored. All the workstations discovered by the Remote Installer are available for selection in the drop-down list.



General Information (2)

This zone displays the workgroup name, the database IP address and status, and status (started or not) and versions of all services for the monitored workstation.

Service Buttons (3)

This zone is used to select the workstation service to monitor.

The Switcher Gateway button is used to monitor the connected devices used with Director's Cut.

Service Monitoring Zone (4)

This zone shows the monitoring information for the selected service on the selected workstation. Depending on the monitored service, different tabs are displayed.

The values displayed are grabbed when the monitoring is started or when the workstation is selected. The display is not dynamic. To display accurate values, click the **Refresh** button.

This screenshot shows an IP-Routing monitoring example:

	uting ID 1	ilobal	C	PC 1 XT 1	UP 0 1	
Conne	ections					
	Port	RS Port	Host ID	Watchdog	Status	<u>^</u>
•	Serial1	COM1				E
	Serial2 Serial3	COM2 COM3				-
	Serial3 Serial4					
	Serial4 Serial5	COM4 COM5				
	Serial6	COM6				*
_	nks CP Lost Link rial Lost Link	0				



The information shown in the service monitoring zone is also available from the advanced monitoring of each service.

9. Managing and Monitoring the Indexing Service

9.1. General Description

Introduction

The Indexing Service is a system used by the API to perform searches and to synchronize a SQL DB with an ElasticSearch DB.

It is made of several components called Crawler, Pusher, ElasticSearch and Zookeeper.

A web interface is used to manage the Indexing Service components and to monitor their proper working. See section "Managing and Monitoring the Indexing Service Components" on page 198.

The Indexing Service can run on one or several workstations. The workstation may be dedicated to other major tasks, or be entirely dedicated to indexing service. Such a workstation is declared by right-clicking the **Workstation Type** icon and selecting Indexing Service:



Then, the icon displays 🔍.

On a workstation configured as Indexing Service, ElasticSearch is configured to work with 2/3 of the workstation RAM (with a maximum of 31 GB) towards 1/3 for Elasticsearch started on a workstation configured as IPDirector.

The workload may be distributed across the services from the different machines.

The system may provide redundancy. When a machine stops running, another one takes over, so the system is always ready to work.

See section "Workgroup" on page 13 for more information on the **Indexing Service** button and its status color code.

Indexing Service Components

ElasticSearch

ElasticSearch is the document oriented database used by the Indexing service.



Crawler

This synchronization service checks the updates done in IPDirector SQL database, transforms data into a form usable by ElasticSearch, and send them to the Pusher.

Pusher

This synchronization service sends data received from the Crawler to ElasticSearch.

Zookeeper

This service selects the Crawler and Pusher services with Master/Leader role when services are started on several workstations, and manages redundancy if a service fails.

Master/Leader Management

The Master/Leader management does not require any user intervention and is automatically managed by the Zookeeper service.

Each component acting as Master/Leader is identified by the 🚺 icon.

9.2. Managing and Monitoring the Indexing Service Components

9.2.1. Overview of the IPDirector Indexing Service Window

To access the IPDirector Indexing Service window,

Click the Indexing Service button of the workgroup
 Indexing Service

The IPDirector Indexing Service window has a display similar to the main Remote Installer window. Each workstation is represented by a separate line and the different workstations are grouped under their respective workgroup.



Workgroup (1)

Workgroup Information (1a)

From left to right:

• Global status icon for all the IS services of the workgroup.

This status is communicated to the Remote Installer and displayed with the same color code on the workgroup **Indexing Service** button. See section "Workgroup" on page 13.

- Workgroup name
- Overall status icon for the Crawler service(s) from the workgroup
- Overall status icon for the Pusher service(s) from the workgroup
- Overall status icon for the ElasticSearch service(s) from the workgroup
- Overall status icon for the Zookeeper service(s) from the workgroup

The color code for the status icons is given at the bottom of the window.

Workgroup Toolbar (1b)

The toolbar provides a series of buttons to control and to monitor the workgroup IS components. See section "Workgroup and Workstation Toolbar Options" on page 203.

Search and Filter Options (1c)

This area provides several options to perform searches among the list of workstations or to filter the list based on started IS services. Buttons are available to start or stop specific services among the filtered list of workstations.

See section "Search and Filters Options" on page 210.



Workstation (2)

Workstation Information (2a)

Name, IP address and an optional description for the workstation.

Status for the Workstation IS Services (2b)

This information is only displayed when the workstation line is collapsed.

v IPDA260760 (10.1 29.59.40 | #2 | IPDirector ADL) 🚖 Crawler Pusher ElasticSearch Zookeeper

These icons represent the status for the workstation IS components.

The color code for the status icons is given at the bottom of the window.

Workstation Toolbar (2c)

The toolbar provides a series of buttons to control and to monitor the workgroup IS components. See section "Workgroup and Workstation Toolbar Options" on page 203.

Indexing Service Components (2d)

Each Indexing Service component is represented by a colored box. The color corresponds to the status of the component. The color code meaning is given at the bottom of the window.

The following buttons are available for each component.

Button	Description
⊳ Start	Start button: starts the IS service component.
	The button switches to the Stop button.
🗌 Stop	Stop button: stops the IS service component.
	The button switches to the Start button.

Key (3)

This area provides the explanation of the different status colors and the different icons which can be displayed.

9.2.2. Guidelines for the Size of Indexing System

Purpose

A tool is available to provide guidelines about the recommended number of machines to be used for indexing ElasticSearch based on your setup.

Overview

To open the tool,

- 1. Right-click the **Indexing Service** button of the workgroup from the main Remote Installer window.
- 2. Select the Indexing Setup Sizing Tool option.

The Indexing Sizing Tool window opens:

🗹 Indexing Sizing Tool						
IP Director database information						
DB Name : Media		Hostnam	e: 10.129.59.4	1 Database version : 07.20.28.353		
Indexing estimation						
Database items will be indexed in ElasticSearch. The information below provides an estimation of the indexing size based on a standard setup and may vary according to data.						
	Database items	Estimated unit size (Kb)	Total size			
Edits	4	1.1	4.40 KB			
Logs	6	1.9	11.40 KB			
Logsheets	2	7	14.00 KB			
E Bins	18	0.4	7.20 KB			
MediaAssets	316	14	4.32 MB			
MediaResources	304	1.7	516.80 KB			
Total indexes size : 4.86 MB						
Indexing configuration						
Type of hardware used for indexing : EVS Workstation 16GB 🔹						
Indexing service only :						
Indexing replication :	1	No replication \bullet				
Recommendation						
1 machines are recommended for indexing						
	_		_			



IPDirector Database Information

This area is for information only. It shows the database name, IP address and version.

Indexing Estimation

This area is for information only.

The Database Items column shows the number of items of each type stored in the database.

The Estimated Unit Size column gives an estimation of the size (Kb) for a single item of each type.

The Total Size column gives the estimation of the size occupied by all the items of each type stored in the database, based on the actual number of items and the estimation of their size.

Indexing Configuration

From this area, you have to specify some parameters of your system.

Type of hardware used for indexing

In this field, specify the installed memory (RAM) of the hardware that will be used for indexing:

- 16 GB of RAM
- 64 GB of RAM

Indexing service only

Tick the checkbox if the machine which will be used for indexing will only be used for indexing purpose.

Clear the parameter if the machine is also used for management.

Indexing replication

In this field, specify the type of replication of your system:

- **No replication** (no redundancy: ElasticSearch indexed once)
- **1 replica** (simple redundancy: ElasticSearch indexed twice)
- **2 replicas** (double redundancy: ElasticSearch indexed three times).

See section "Workgroup Settings" on page 204 for more details about this parameter.

Recommendation

This area gives you the recommended number of machines based on the parameters above.

9.2.3. Workgroup and Workstation Toolbar Options

Workgroup Options

The toolbar is located on the top of a workgroup area.

The following table gives a description of the buttons available from the toolbar.

Button	Description		
⊳ Start all	Starts all the workstation IS services set to Auto Start.		
	On machines configured "without index", only ElasticSearch starts (see section "Workstation Settings" on page 209).		
🔲 Stop all	Stops all the workgroup IS services.		
Q •	Warning button.		
	In case of warning, the number of alerts is displayed next to the Warning button and a warning message is available.		
	Q <mark>1</mark> -		
	APPSRVA248520 : Disk usage has reached a major threshold : 76%		
	See section "Potential Issues and Warnings" on page 213		
0	This button gives access to the About window with information about the Indexing Service version number and support phone numbers.		
Settings	Workgroup Settings button: when the IS workgroup monitoring information is displayed, this toggle button gives access to the IS workgroup settings.		
	See section "Workgroup Settings" on page 204.		
😔 Monitoring	Workgroup Monitoring button: when the IS workgroup settings are displayed, this toggle button gives access to the IS workgroup monitoring information.		



Workstation Options

The following buttons are available for each workstation.

Button	Description
⊳ Start all	Starts all the workstation IS services, even those not set to Auto Start.
	On machines configured "without index", only ElasticSearch starts (see section "Workstation Settings" on page 209).
📋 Stop all	Stops all the IS services on the workstation.
🏽 Settings	Workstation Settings button: when the IS workstation monitoring information is displayed, this toggle button gives access to the IS workstation settings.
😡 Monitoring	Workstation Monitoring button: when the IS workstation settings are displayed, this toggle button gives access to the IS workstation monitoring information.

9.2.4. Workgroup Settings

How to Access the Settings

To access the different settings, click the Settings button.

Three tabs are available to set the workgroup parameters.

To exit the Settings display and go back to the IS components monitoring, click the button.

😔 Monitoring

AutoStart Tab



From this tab, you can enable or disable the AutoStart option for each IS component individually.

The IS services set to Auto Start are automatically started.

Maintenance Tab

	Maintenance
-	nchroDB Master to update schedule settings tions: schedule the maintenance during off-peak hours and 15min before SQL DB maintenance at 01 - 123 -
Save	Restore default

From this tab, you set the frequency of the ElasticSearch maintenance jobs.

Default value: Everay day at 01:23.

1. Select the frequency in the **Every** field.

Possible values: minute, hour, day, week.

- 2. Select the time.
- 3. Click Save.



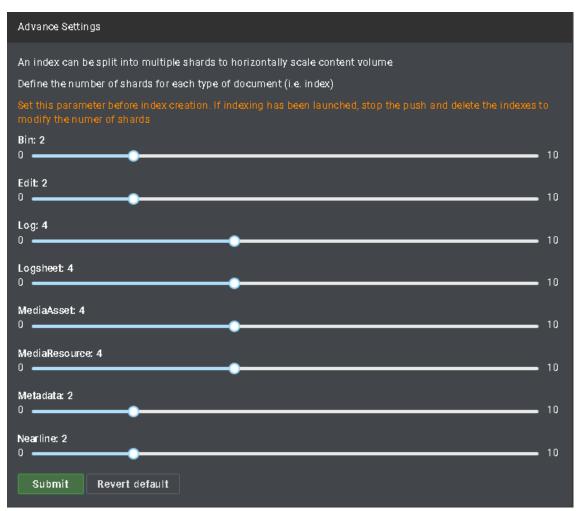
Restart the Master SynchroDB service when your modification has been saved to take the new schedule into account.

The **Restore default** button can be used to restore settings from the current tab to the default ones, if needed.



ElasticSearch Settings Tab

Advanced Settings Sub-Tab



From this tab, you set the number of shards the index for each media item will be split into.

This is particularly useful in case of big database.

It is recommend to keep the default values, or to modify these values under EVS support advice.

MediaAsset corresponds to the definition of a clip in the IPDirector user manual.

A clip is a logical entity that contains A/V media and can include several physical resources (XT clips and/or files).

MediaResource corresponds to the definition of a nearline file in the IPDirector user manual.

A nearline file is a XT clip which has been sent, for backup purpose, to a physical storage used as nearline, such as IP drive (or XF drive).



Ì

These parameters must be set before index creation.

If the index creation has started yet, first follow steps 1 to 3. Otherwise, go to step 4.

- 1. Stop the Pusher service but keep the ElasticSearch service running on the workstations indexed with ElasticSearch.
- 2. In the Delete Index sub-tab, click **Delete**.
- 3. Wait until a message is displayed to confirm that the index has been deleted.
- 4. Set the number of shards by clicking on each bar or by dragging the bullet over each bar.

Possible values: [1-10].

5. Click Submit.

The **Restore default** button can be used to restore settings from the current tab to the default ones, if needed.

Replication Sub-Tab

Replication
Define how many times indexes are replicated.
Set this parameter before index creation. If indexing has been launched, stop the pusher and delete the indexes to modify the number of replicas
Current replication : 1 0 3
Submit Revert default

From this tab, you set the number of ElasticSearch replications, for redundancy purpose.

Possible values: **0** (no redundancy: ElasticSearch indexed once), **1** (simple redundancy: ElasticSearch indexed twice), **2** (double redundancy: ElasticSearch indexed three times), **3**.



This parameter must be set before index creation.

If the index creation has started yet, first follow steps 1 to 3. Otherwise, go to step 4.

- 1. Stop the Pusher service but keep the ElasticSearch service running on the workstations indexed with ElasticSearch.
- 2. In the Delete Index sub-tab, click Delete.
- 3. Wait until a message is displayed to confirm that the index has been deleted.
- 4. Set the number of replicas by clicking on the Replicas bar or by dragging the bullet over the Replicas bar.

When all the services will be restarted, the indexation will be completed with the number of replica set.



Thesaurus File Sub-Tab

Thesaurus file
Thesaurus file 💿
Browse No file selected.
Submit

This tab gives the possibility to upload a new synonyms file or a thesaurus file.

You will be allowed to work with one single file (.txt) at a time.

1. From the Thesaurus File tab, click the **Browse** button.

The File Upload window opens.

- 2. Browse to the file to upload.
- 3. Click **Open**.
- 4. Click **Submit** in the Thesaurus File tab.

Delete Index Sub-Tab

Delete index
 ▲ Delete index will stop all the pushers ▲ At least one elasticsearch must be launched
Delete index

This tab gives the possibility to delete the index. This must be used cautiously.

The operation will stop all the Pusher services on the workstations indexed with ElasticSearch. ElasticSearch service must be running on the indexed workstations.

- 1. In the Delete Index tab, click **Delete**.
- 2. Wait until a message is displayed to confirm that the index has been deleted.

Deleting index	×
Deleting index completed.	
c	Close

3. Click Close.

All the services restart.

 Indexing Service
 stanted
 too (2)
 Crawler
 Pusher
 ElastosBearch
 Zookeeper
 > Start all
 Stop all
 0 +
 Settings
 ©

 *
 Search
 Machines (p.)
 Routage number (Name
 ×
 pushel
 * elastosBearch
 Sockeeper
 ×
 > Start all
 0 +
 Settings
 ©

 *
 IPDA260770 (10 129:59.41 | el | IPDirector PGE)

 > sockeeper
 > sockeeper
 > Sockeeper
 > Start all
 Stop all
 > Stop in filtered list > Stop in

Then, the ElasticSearch service rebuilds the index when it is started.

9.2.5. Workstation Settings

How to Access the Settings

To access the workstation settings, click the Settings button above the corresponding workstation.

Settings display as follows:

∧ IPDA260770 (10.129.59.41 #1 IPDirector PGE)		© Monitoring
円 ★ Crawler (7.50.24.244)	🏳 🛨 Pusher (0.5.19)	🏳 ElasticSearch (6.2.2)
CO Auto Start	C Auto Start	CO Auto Start
		C Machine with index
		Allocated memory : 5425mb (Recommanded : 5425mb) 1627 13020
		⊐ Zookeeper (3.4.11)
		C Auto Start

To exit the Settings display and go back to the IS components monitoring for the workstation, click the Setting button above the corresponding workstation.

Auto Start

From this view, you can enable or disable the AutoStart option for each IS component individually.

The IS services set to **Auto Start** are automatically started.

ElasticSearch Settings

Machine with Index

This parameter is only available for the ElasticSearch component.

By default, it is enabled. So, ElasticSearch is indexed on all the workstations.



You may want to index ElasticSearch on 2 workstations and use a third machine as witness in case one of the indexed machines falls. ElasticSearch will be installed on it but not indexed. Then, the **Machine** with Index parameter must be disabled on the machine used as witness.

Allocated Memory

This parameter is only available for the ElasticSearch component.

It corresponds to the proportion of RAM used.

Do no modify the default value.

9.2.6. Search and Filters Options

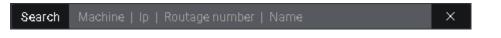
Expand Workstations List Button

Click the button to expand all nodes and display the services for all the workstations of the workgroup.

Collapse Workstations List Button

Click the button to collapse all nodes and hide the services for all the workstations of the workgroup.

Search Field



To restrict the list of workstations displayed, enter a search string in the **Search** field.

IS Components Filters

This area allows you to filter the list of workstations based on one or several IS components which are started on the workstations.

By default, all the components are selected and the list displays all the workstations with at least one component started.



How to Filter on a Single IS Component

To remove filters and filter the workstations on a single IS component,

• Click the cross next to all the other IS services and keep, for example, the ES filter.

Only the workstations with ES started is displayed:

A Crowler A Durker Electic Secret Zeckener	× elasticsearch	× -			
		🛨 Crawler	🛧 Pusher	ElasticSearch	Zookeeper

How to Add Filters

To add filters,

1. Click the arrow next to the Filter field.

The list of non-applied filters is displayed:

× elasticsearch	×	•
crawler		
pusher		
zookeeper		

2. Select the IS service on which you want to apply a filter, for example Zookeeper.

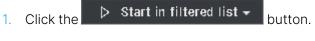
The search returns the list of workstations with one service OR the other started.

× -				
🛧 Crawler	🛨 Pusher	ElasticSearch	Zookeeper	
Crawler	Pusher	ElasticSearch	Zookeeper	
Crawla	- Guildi	LIGGGGGGGG	Zoondupur	

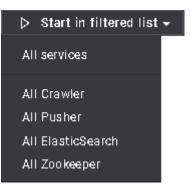


Start in Filtered List Button and Menu

This option is used to start all the IS services or some of them on the workstations from the list currently filtered and displayed.



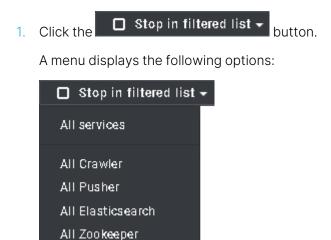
A menu displays the following options:



2. Select an option from the menu.

Stop in Filtered List Button and Menu

This option is used to stop all the IS services or some of them on the workstations from the list currently filtered and displayed.



2. Select an option from the menu.

9.2.7. Potential Issues and Warnings

Log File

Everytime an alert is raised, this can be retrieved in the following log file: C:\EVSLogs\IP-Director\IndexingService\Administration\ Indexing.Administration.MachineError.log

ES RAM Usage or Disk Space Usage over the Threshold

Default Threshold Values

ES RAM usage

The factory values for the default threshold are:

- Major: 80%
- Critical: 90%

The default threshold values cannot be modified.

Disk Space usage

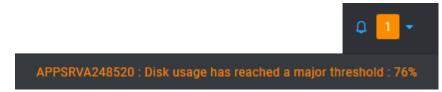
The default threshold are:

- Major: 70%
- Critical: 80%

The default threshold values cannot be modified.

Warning Display

- If the ES RAM usage or the Disk space usage of the workstation reaches the threshold set as <u>major</u> for more than 30 seconds, the following warning information is displayed:
 - The number of alerts is displayed next to the **Warning** button on an orange background. Click on it to see the warning message.





• An orange **Warning** icon is also displayed next to the workstation name and next to the ElasticSearch component. A tooltip is available when hovering over the icon.



- If the ES RAM usage or the Disk space usage of the workstation reaches the threshold set as <u>critical</u> for more than 30 seconds, the following warning information is displayed:
 - The number of alerts is displayed next to the **Warning** button on a red background. Click on it to see the warning message.
 - A red **Warning** icon is also displayed next to the workstation name and next to the ElasticSearch component. A tooltip is available when hovering over the icon.

In that case, the Crawler and the Pusher components are paused until the value falls back below the critical threshold.



If the crawler and the pusher services are paused, the synchronization between LivePAM DB and ES is interrupted. This means that the results of the last operations (creation, update, delete) are not indexed in ElasticSearch, and then the search does not provide a right view of LivePAM DB.

Other Warnings

ES Does not Work Properly

If there is a disk space problem or if a cluster does not start, the ES component will be red.

If another workstation ensures replication, the ES component will be yellow.

\equiv V \equiv Indexing Service	missing-component-redur	ndancy DOC (2)	Crawler Pu	usher ElasticSearch	Zookeeper	⇒ Start all	Stop all	
								🗸 💿 Settings
× × Search Ma		me 💙	< x pusher x e	lasticsearch 🗶 zookeeper	× orawler	× 🔹 👂 Start	in filtered list -	□ Stop in filtered list -
PDA260770 (10.129.59.41	#1 IP Director PGE)						🔈 Start all 🗌	Stop all 🕸 Settinge
🏳 🛨 Crawler) Stop	🏳 🛧 Pusher (0.		🗆 Stop	부 🗅 Elast	icSearch (6.2.2)	🗌 Stop
Bin		→ Bin → Log		✓ Edit ✓ Logsheet		₽ Zooke	eper (3.4.11)	C Stop
Log	Logsheet	✓ MediaAs:	 Kongerica, MediaAsset ✓ File MediaResource ✓ Server MediaResource ✓ Metadata Profile ✓ Nearline 					
MediaAsset	File MediaResource							
Server MediaResource								
Metadata Profile	Nearline							

Disconnected Workstation

In case of workstations which cannot communicate anymore,

• The number of alerts is displayed next to the **Warning** icon on a red background. Click on it to see the warning message.

	Q 4 -	
IPD01 : Last state received from node on 5/23/2018 5:1	17:54 PM	
IPD02 : Last state received from node on 5/23/2018 5:1	17:57 PM	
IPD16 : Last state received from node on 5/23/2018 5:1	17:48 PM	
APPSRVA248520 : Disk usage has reached a critical the	reshold : 92%	

• The whole workstation is displayed on a red background:

✓ IPD01 (10.129.180.101 #101 MDC)	Crawler	Pusher	ElasticSearch	Zookeeper
✓ IPD02 (10.129.180.102 #102) ▲	Crawler	Pusher	ElasticSearch	Zookeeper
✓ IPD16 (10.129.180.116 #116 LES)	Crawler	Pusher	ElasticSearch	Zookeeper

10. Managing Logs

Introduction

As soon as an IPDirector service is started on a workstation, the EVSLogs folder is created on the system disk root and shared on the network with full access rights. This allows remote processes to grab logs and create a zipped file of logs which could then be sent to appropriate support people.

Options are available from the Workstation contextual menu and from the Workgroup contextual menu to grab the logs either from a specific workstation or from each workstation member of the workgroup.

Different options are available to grab logs from the entire EVSLogs folder, or to specifically collect the logs related to IPDirector.

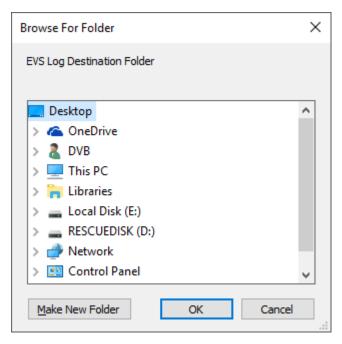
The collection of EVS logs is managed by the EVS Reporter tool.

The collection of IPDirector logs is managed by the Remote Installer.

Getting EVS Logs

How to Get Workgroup EVS Logs

- 1. Right-click the Workgroup name.
- 2. Select Get All EVS Logs (Via EVS Reporter) from the contextual menu.
- 3. Select a destination folder where the zip files will be created.



4. Click OK.

5. Wait for the creation of zipped files on each workstation by the EVS Reporter tool. A progress bar is displayed per workstation.

Running EVS Reporter

6. Collect the zip files created in the destination folder. The filename of the zip file is managed by the EVS Reporter tool.

For example: EVSreport_20190107_170343177_(7HF3)_SN260770_IPDA260770.

How to Get Workstation EVS Logs

- 1. Right-click the Workstation name.
- 2. Select Get EVS Logs (Via EVS Reporter) from the contextual menu.
- 3. Select a destination folder where the zip files will be created.

Browse For Folder	×
EVS Log Destination Folder	
E. Desktop	^
> 🝊 OneDrive	
> 🤱 DVB	
> 💻 This PC	
> 🐂 Libraries	
> 👝 Local Disk (E:)	
> 👝 RESCUEDISK (D:)	
> 💣 Network	
> 🖭 Control Panel	~
Make New Folder OK Cancel	

- 4. Click OK.
- 5. Wait for the creation of zipped files on each workstation by the EVS Reporter tool. A progress bar is displayed per workstation.

Running EVS Reporter

6. Collect the zip files created in the destination folder. The filename of the zip file is managed by the EVS Reporter tool.

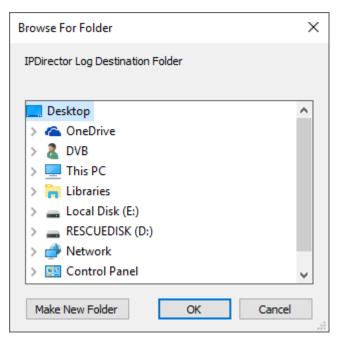
For example: EVSreport_20190107_170343177_(7HF3)_SN260770_IPDA260770.



Getting IPDirector Logs

How to Get Workgroup IPDirector Logs

- 1. Right-click the Workgroup name.
- 2. Select Get All IPDirector Logs from the contextual menu.
- 3. Select a destination folder where the zip files will be created.



- 4. Click OK.
- 5. Wait for the creation of zipped files on each workstation. A progress bar is displayed per workstation.

Zipping Logs

6. Collect the zip files created in the destination folder. The zip files created are named **IPDAXXXXXX – IPDLogs.zip** (XXXXX is the workstation serial number).

How to Get Workstation IPDirector Logs

- 1. Right-click the Workstation name.
- 2. Select **Get IPDirector Logs** from the contextual menu.

ኛ Zip Path				>
	'SLogs > IP-Director >	~ Ū	Search IP-Director	م ر
Organize 👻 New fold	er		::== :==	- ?
This PC ^	Name		Date modified	Туре
E Desktop	AbRoll		27/Sep/2018 4:30	File folde
Documents	Archive Transfer Service		 8/Jan/2019 12:15	File folde
👆 Downloads	AutoComplete		27/Sep/2018 4:30	File folde
Music	ClipLogging		29/Oct/2018 4:11	File folde
Pictures	🔤 CmsApi		6/Nov/2018 8:15 P	File folde
Videos	IndexingService		28/Sep/2018 4:48	File folde
System (C:)	IPBrowse		30/Oct/2018 11:22	File folde
RESCUEDISK (D	IPBrowseConfigurator		27/Sep/2018 11:57	File folde
	IP-Director		27/Sep/2018 11:58	File folde
🔜 Local Disk (E:)	IP-Scheduler		27/Sep/2018 4:29	
🐂 Libraries 🛛 👻	<			>
File <u>n</u> ame: IPDA	260770 - IPDLogs.zip			`
Save as type:				
∧ Hide Folders			Save	Cancel

3. Select a destination folder where the zip files will be created.

4. Wait for the creation of zipped file. A progress bar is displayed.

Zipping Logs

5. Collect the zip file created in the destination folder. The zip file created is named **IPDAXXXXXX – IPDLogs.zip** (XXXXX is the workstation serial number).



11. Populating Hosts Files

Introduction

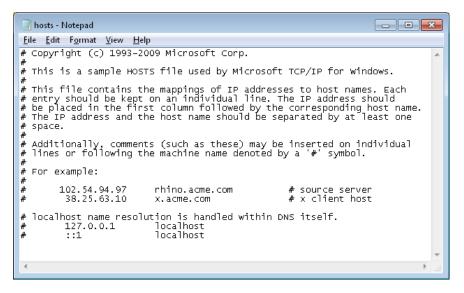
The **Populate Hosts Files** feature reduces IPDirector latencies due to LAN communications without DNS management.

IPDirector needs quick responses in name resolution. When a DNS sever is not installed on your network, the easiest way to configure the correspondence between Computer Names and IP Addresses is to edit the HOSTS file inside your operating system.

The HOSTS file is located in C:\Windows\system32\drivers\etc

🚱 🕞 🗢 🔰 « Windows 🕨 System	132 ► drivers ► etc	 ✓ ✓ Search etc 	(<u>×</u>	
<u>Eile E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp					
Organize 👻 Include in library 👻	Organize 🔻 Include in library 🔻 Share with 👻 New folder 🛛 🔠 💌 🗍 🔞				
🌗 config	▲ Name	Date modified	Туре	Size	
cs-CZ da-DK de-DE Dism drivers en-US cc DMDF DriverStore el-GR	 hosts imhosts.sam networks protocol services 	10/Jun/2009 10:39 10/Jun/2009 10:39 10/Jun/2009 10:39 10/Jun/2009 10:39 10/Jun/2009 10:39	File File	1 KB 4 KB 1 KB 2 KB 18 KB	
5 items					

The Windows original HOSTS file can be opened with Notepad.exe:



The entries (127.0.0.1 / ::1 local host) are written by default in this file.

Windows first consults this local file cache before sending its request to the DNS Sever. Without DNS Server or Hosts files, Windows introduces latencies inside our application when trying to resolve hostnames.

How to Populate New Hosts Files

There is a feature within Remote Installer that helps you to create and populate a common HOSTS file on all the IPDirector workstations, Databases or Targets used inside the IPDirector workgroup.

1. In the Remote Installer, right-click on the Workgroup name.

- Work@	aroup : De	Rename WorkGroup	all	Install
	4184130 (10.12	Populate Hosts files (network without DNS server)		
IPD-Routing	SynchroDB	Clear Hosts files (network with DNS Server)	기 0.03 148	Route 06.70 Rev
10000 0000	Index Late	Got All EVS Look	140	nev

2. Select Populate Hosts files (network without DNS server) from the menu.

A popup window appears:

Popula	ate Hosts files (network without DNS server) X
<u> </u>	You will use Hosts files as name resolution reference. The file will be deployed to all the [IP] Director and targets in your workgroup. This process could take a few minutes to complete.
	Please be aware that this file is static and will not reflect any IP address or Computer name modification. Please populate your Hosts files with the Remote Installer again if you change you workgroup configuration (add/remove [IP] Director or target, change IP address or computer name) Incorrect information in the Hosts file could have major impact on [IP] Director performances
	OK

3. Click OK.

The following window opens:

Populate Hosts files for workgroup : global	
Hostname	IP Adress
IPDA180300	1.1.180.30
XSTORE64580	1.1.64.58
DB64500	1.1.64.50
	Save Cancel

A list is automatically created including all workstations belonging to your Workgroup. This process could take a few minutes to complete.

4. Click **Save** to populate the HOSTS file.



Manual entries are allowed:

Enter the hostname (computer name), the IP Address is automatically resolved.

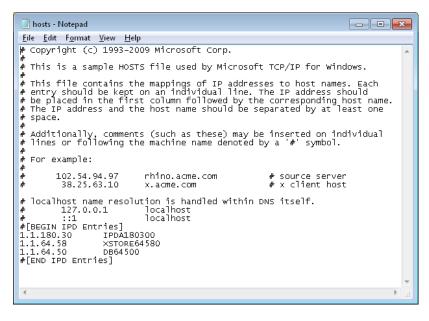
Enter the IP address, the hostname is automatically resolved.

Enter both hostname and IP address.



If using a Mirrored database, the Virtual address will be populated into the list, but may not resolve a hostname. This is OK to leave blank as the virtual will never be used via a hostname lookup.

After population, the IPDirector, SQL Databases and devices will have the same HOSTS file showing the new common entries:



Ø

Entries done by the Remote Installer are inserted between these two tags: #[BEGIN IPD Entries] - #[END IPD Entries]. This section allows for replacement and deletion of this group by the remote installer at a later time.

These entries can also include database, target computer, or third Party computer present in the workgroup configuration.

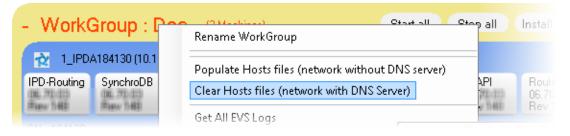


Some Antivirus programs and settings block the ability to propagate the Host file to all workstations.

How to Clear Populated Hosts Files

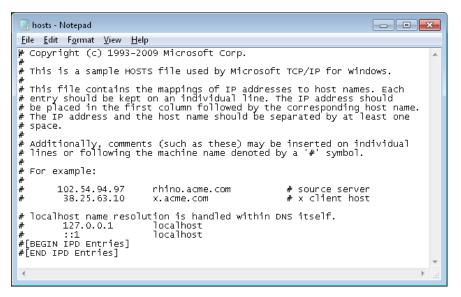
If a DNS Server is installed on your network, the HOSTS files must be cleared.

1. In the Remote Installer, right-click on the Workgroup name.



2. Select **Clear Hosts files (network with DNS server)** to remove IPDirector entries inside the workstation HOSTS files.

All HOSTS Files are cleared:



All entries inserted between tags # [BEGIN IPD Entries] - # [END IPD Entries] are deleted. If you insert manual entries in your HOSTS files for other IT application, write them outside the IPD Entries tags.



It is strongly recommended to clear the HOSTS files before dismantling your setup.

12. Remotely Accessing a Workstation

Context of Use

An option is available to use the Remote Desktop Protocol included in the Windows OS and display the screen of another computer on your own screen. The program allows you to use your mouse and keyboard to control the other computer remotely.

The Remote Desktop feature is not a viewer. It switches off the Windows session on the distant workstation to open it on the local one.

How to Check the Workstation Configuration for Remote Connections

The distant workstation must be configured to accept Remote connections. Our IPDirector stations are delivered with this option enable.

- 1. Click [WIN]+[Pause/Break] to open the System window.
- 2. Go to the **Advanced system settings** and select the Remote tab to check the configuration:

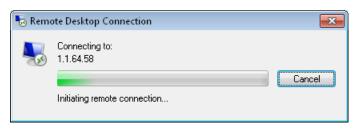
System Properties					
Computer Name Hardware Advanced System Protection Remote					
Remote Assistance					
Allow Remote Assistance connections to this computer					
What happens when I enable Remote Assistance?					
Advanced					
Remote Desktop					
Click an option, and then specify who can connect, if needed.					
Don't allow connections to this computer					
Allow connections from computers running any version of Remote Desktop (less secure)					
 Allow connections only from computers running Remote Desktop with <u>N</u>etwork Level Authentication (more secure) 					
Help me choose Select Users					
OK Cancel Apply					

How to Remotely Access a Workstation

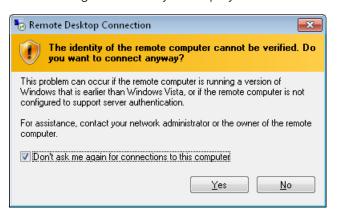
- 1. Right-click the Workstation name of the workstation you want to remotely access.
- 2. Select **Remote Desktop** from the contextual menu.

_ 8 ×

3. Wait for connecting the distant IPDirector workstation:



4. The first time you connect from an IPDirector Station Windows 7 to an IPDirector with another OS, the following window may be displayed:



Select the **Do not ask me again for connections to this computer** option and the message will not be displayed next time.

Your screen turns black and a tab appears at the top of your desktop:

1.1.59.94

5. In the Log On window, enter DVB as User name, no password and click **OK**.



EVS workstations are delivered with DVB/(no password) as a default user.

If you installed IPDirector on non-EVS hardware, use the custom user name and password.

The distant desktop is open on the local one.

To close the connection, click **Close** on the top tab:

```
🖉 1.1.59.94 🗕 🗗 🗙
```

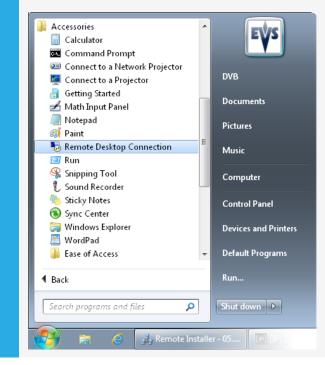




This Remote Desktop feature can be used on any Windows based workstation, even if IPDirector is not installed.

The connection can be launched from the Windows start menu.

Select Start/Programs/Accessories/Remote Desktop Connection



13. Configuring a Router Control

13.1. Context of Use

Video routers can be used with IPDirector to increase the number of incoming feeds manageable by EVS server recorder channels and/or the number of output channels able to play out the media from a player channel, depending on the configuration of the installation.

The router ports must be physically connected to the server channels.

The configuration of the router control is done from the Remote Installer.

The supported routers are those working with one of the following protocols:

- Miranda NV9000
- Probel SW-P-08
- Jupiter ES-Switch

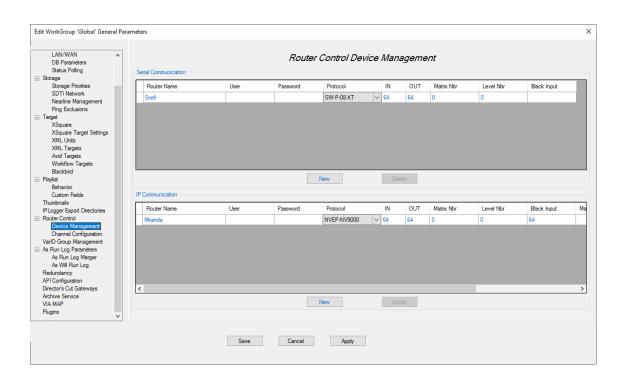
Nevertheless, rather than communicating directly with a router, it is possible to communicate with a Cerebrum system (broadcast control and monitoring system). Then, IPDirector will be able to work with all the routers supported by the Cerebrum.

13.2. Declaring the Router

This step is done from the Router Control tab of the Edit Workgroup window.

- 1. Click **Configure** to access the Edit Workgroup window.
- 2. Select the Router Control tab.
- 3. Click the **New** button from the Serial Communication area or from the IP Communication area, depending on the type of connection between the router and the workstation controlling it.
- 4. Enter a name for the router.
- 5. Select the protocol type:
 - Serial Communication: SW-P-08-XT (Probel) or Jupiter ES-Switch.
 - IP Communication: NVEP-NV9000 for use with Miranda routers, or SW-P-08 for use with a Cerebrum or VSM system.





13.3. Defining the Workstation Responsible for the Control of the Router

Prerequisites

- The router devices must have been declared from the Router Control tab of the Edit Workgroup window. See section "Declaring the Router" on page 227.
- To automatically start the Router Ctrl service with the IPDirector application, select **Auto Start** from the **Router Ctrl** button contextual menu.

Master Role

Only one Router Ctrl service controls a router in a workgroup: the Router Ctrl service running with the Master role.

It is mandatory to declare at least one Router Ctrl service as a Master Candidate even if it is a standalone workstation. This workstation may consume more CPU resources.

Declaring more than one Router Ctrl service as a Master Candidate is allowed and brings you failover functionality. Then, the Router Ctrl service with the lowest routing number assume the Master role.

The Master role is clearly identified with a dark green status within the Remote Installer.



How to Configure the Router Control Service

The Router Ctrl service is configured from the Router Control Management window.

1. Click the **Edit Config** icon on the **Router Ctrl** service button of the workstation controlling the router.

▶ ċ

The Router Control Management window opens.

- 2. For each router to control, from the Router Sharing Management area,
 - a. Select the Router name.
 - b. Set if it is used as main or backup.
 - c. Select the serial port of the workstation connected to the router.

This step only applies to routers connected to serial ports.

- d. (optional) Click **Resync** if you need to resynchronize the router labels into the database.
- e. Click Add.
- 3. Repeat previous steps for each workstation controlling a router.
- 4. Select **Master Candidate**, from the Master Management area, for the workstation service in charge of coordination.

The Monitoring area automatically displays the connection status between all the routers and the workstations.



	Router Contr	ol Management	
Router Sharing Management			
Snell	Main AVH-RS422-1	- Remove Rem	ayınc 😂
Miranda	Backup Main		
Miranda	Backup	- Remove Res	tync 💈
			Add
Monitoring			Add
Monitoring Vietual Router	Main Machine	Backup Machine	Add
	Main Machine Po-A191300	Backup Machine	Add
Virtual Router	IPD-A191380		Add
Virtual Router Snell			Add
Virtual Router Snell	IPD-A191380		Add
Virtual Router Snell	IPD-A191380		Add
Virtual Router Snell	IPD-A191380		Add
Virtual Router Snell	IPD-A191380		Add
Virtual Router Snell Miranda	IPD-A191380		Add
Virtual Router Snell Miranda Master Management	IPD-A191380		Add
Virtual Router Snell Miranda	IPD-A191380		Add

The background color of the workstation name is:

- green when it controls the corresponding router
- orange when the connection has been set but it does not have the control of the router
- red when there is a problem with the connection.

The serial port selected under Router Sharing Management is automatically associated with the **Router Control** option in the Serial Communication Configuration window. See section "Configuring the Serial Ports" on page 47.

COM Port	Application	
AVH-RS422-1	Evs Server 🗸	Settings
AVH-RS422-2	Evs Server 💌	Settings
AVH-RS422-3	Evs Server 💌	Settings
AVH-RS422-4	Router Control	Settings
СОМ1		Settings
COM2		Settings

13.4. Configuring the Physical Connections between a Router and a Server

This step is done from the Router Control Channels tab of the Edit Workgroup window. Click **Configure** to access the Edit Workgroup window and then select the Router Control Channels tab.

The router devices must have been declared from the Router Control tab of the Edit Workgroup window and the Router Ctrl service must have been configured. See sections "Declaring the Router" on page 227 and "Defining the Workstation Responsible for the Control of the Router" on page 228.

- 1. For each router OUT port, select the server recorder channel it is physically connected to, if any.
- 2. For each router IN port, select the server player channel it is physically connected to, if any.

LAN/WAN A DB Parameters		Router Control	Channel Configuration	
Status Polling Storage	* Maximum Switch Latency	(in ms) : 🗣 1000	* Switches History (in days)	: ₽7
Storage Priorities		tive after the restart of router contr		
SDTI Network Nearline Management	XT Channels/Router Ports association			
Ping Exclusions				
Target	Define which XT Channel is physica			
XSquare	If a XT Channel is not linked to a ro	uter port, simply select <none></none>		
XSquare Target Settings XML Units	Router OUTs - XT Record		XT Players - Router INs	
XML Targets	(None)	02_XT1.2_RE 02_XT1.2_RE	In the second se	• (90)
Avid Targets		02 YT1 2 DE 02 YT1 2 DE		
Workflow Targets Blackbird	<none></none>			vec vec
Playlist	Router Snell-XT3DREC1	02_XT1.2_RE 02_XT1.2_RE		uter Snell-XT6SPGM3
Behavior	Router Snell-XT3DREC2	- 02_XT1.2_RE CAM4	04_XT1.4_PGM XT14_PLAYOU	vne) 🗸
Custom Fields Thumbnails	Router Snell-XT6DREC1	04_XT1.4_RE XT14_INGEST	02_XT1.2_PGM 02_XT1.2_PGM	- <90
IPLogger Export Directories	Router Snell-XT6DREC2	U4_XT1.4_RE XT14_INGEST	02_XT1.2_PGM 02_XT1.2_PGM Bo	ter Snel-XT3SPGM2 -
Router Control				
Device Management Channel Configuration				
VarID Group Management				
As Run Log Parameters				
As Run Log Merger				
As Will Run Log Redundancy				
API Configuration				
Director's Cut Gateways				
Archive Service				
VIA MAP				
Plugins				



3. (optional) Set the Maximum Switch Latency.

When an ingest is scheduled in Ingest Scheduler application from a router IN port different than the port currently associated with the recorder channel, the system must switch to the right router IN port before recording the scheduled ingest.

The **Maximum Switch Latency** setting defines the period of time when the system will switch to the new IN port before the recording starts.

When using the Jupiter ES-Switch protocol, it is not allowed to change the association between a recorder channel and a router IN port during the recording of an ingest. This **Maximum Switch Latency** setting also defines the period of time during which the association is locked before and after the recording of the ingest.

Default value: 1000 ms.



When using a VSM system, use a Maximum Switch Latency value of 5000 ms.

4. (optional) Set the Switches History.

Switches between router IN ports linked to a specific router OUT port are drawn in the Ingest Scheduler tracks.

The **Switches History** setting defines the period of time during which they will be kept.

Default value: 7 days.

14. Configuring the Archive Management Parameters

Archive and Restore Environment

Archive HSM Systems

Thanks to Archive services, IPDirector communicates with a third party hierarchical storage management system (HSM) and LTO tape library for files archiving from a nearline storage and files restoring to a nearline storage.

The HSM system can be Oracle DIVA Archive or SGL flashnet. This is configured from the Archive Service tab of the Remote Installer.

Several services are involved in the Archive and Restore to nearline process. They are started from the Remote Installer.

- AS, managed with the Synchro DB service, receives the requests from IPDirector and communicates with the ATS service. If it stops working, the job waits for the Master failover.
- ATS, individual service, receives the requests from the AS service and communicates with the HSM. If it stops working, the ATS service from another workstation will take the Master role. In such cases when different ATS services have been involved in a job processing, both workstations will be referenced in the Transfer Monitoring window.

A database is specifically dedicated to the ATS.

Amazon S3 System and Wasabi Cloud Storage

The archive / restore process to/from Amazon S3 or Wasabi Cloud Storage is managed by the Archive Add-On for IPDirector based on VIA Flow.

Closed files are archived from a nearline storage or files are restored (full restore) to a nearline storage.

VIA Flow for IPDirector and the Archive Add-On for IPDirector must have been installed. The connection to the cloud requires authentication through access and secret keys.

The configuration is done from the Archive Service tab of the Remote Installer.



Managing the ATS Service

About the ATS Service

When no archiving system is used, or when it is based on Amazon S3 or Wasabi Cloud Storage, the ATS service can be disabled.

When you use an HSM as archiving system, the ATS service must be enabled by workstation.

The ATS service is displayed as a Service button on each workstation area.



It can be manually or automatically started, stopped or killed, as described in sections "Starting Services" on page 168 and "Stopping Services" on page 171.

The first ATS service started on a workgroup takes the Master role.

If the Master stops or fails, the ATS service which had started after the Master will take the Master role.

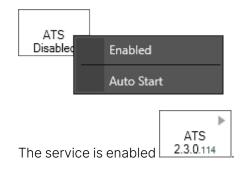
The Master role is clearly identified with a dark green status within the Remote Installer:



How to Enable the ATS Service

This step is used to enable the archiving process in IPDirector when it is based on a HSM system.

- 1. Right-click the **ATS** box.
- 2. Select **Enabled** from the contextual menu.



Configuring the Archive Parameters

How to Access the Archive Service Tab

To access the Archive Service window:

- 1. Make sure all running programs are stopped (Stop all).
- 2. Do in one of the following:
 - Click the ATS DB button, at the top right corner of the Remote Installer window, or
 - Click the **Configure** or 😟 button from the workgroup toolbar, and select the Archive Service tab.

Edit WorkGroup 'Global' General Para	ameters	>	×
 General General Parameters Service Configuration LAN/WAN SynchroDB Load Balancing DB Parameters Status Poling Storage Storage Priorities SDTI Network Nearline Management Ping Exclusions Target XSQuare XML Units XML Targets Avid Targets Wolfdlow Targets Wolfdlow Targets Wolfdlow Targets Thumbinals IIPLogger Export Directories Router Control Device Management Channel Configuration VarID Group Management As Will Run Log Playlist Custom Fields Redundancy API Configuration Director's Cut Gateways Archive Sarvice 	Archive Type (None)	Archive Service Becing An Archive Type allows you to start or modify to contextual menus in IPD. However a valid license is curied to use these features. Becing "None" Archive Type disables the archive contextual menus in IPD. However a valid license is curied to use these features. Becing "None" Archive Type disables the archive can be cactivated without re-entering the config information.	
	Save Cancel	Apply	

Configuring the Archive Parameters for DIVA or SGL

When hosting ATS database on EVS Mirrored DB servers, the following actions must be applied after creation:

- Create mirroring on ATS database
- Add a dedicated virtual IP address on ATS database mirroring
- Replace the Server IP address by the newly created virtual IP address
- Configure a witness
- Install the latest maintenance jobs on both DB servers



How to Configure the Archive Parameters

To configure your ATS parameters and create the ATS database from the Archive Service window,

1. From the Archive Type menu, select the DIVA or the SGL option.

The fields become available.

Edit WorkGroup 'Global' General Par	ameters		×
LAN/WAN DB Parameters Status Polling Storage Storage Priorities	Archive Type SGL	Archive Service	
Storage Promites SDTI Network Nearline Management Ping Exclusions	HSM Address	Isalmet /// : 8199 Selecting An Archive Type allows you to st the archive configuration. It also enables the dis archive contextual menus in IPD. However a var required to use these features.	splay of all
XSquare XSquare Target Settings XML Units XML Targets	Archive Group	Selecting "(None)" Archive Type disables buthe configuration is not erased. So Archive re-activated without re-entering the config inform	can be
Avid Targets Workflow Targets Blackbird	Archive Transfer Service Databa	Meda_ATS	
 Playlist Behavior Custom Fields Thumbnails 	Server	10. Remark: When hosting ATS database on EVS Minored DB servers actions must be avoided after creation:	a, the following
IPLogger Export Directories Router Control Device Management Channel Configuration VarID Group Management	Usemame Password	actions must be applied after creation: - Grade address of ATS database	
A Run Log Parameters A Run Log Merger A Will Run Log Redundancy API Configuration Director's Cut Gateways Archive Service VIA MAP Plugins ⊻		All ATS and SynchroDB of the workgroup need to be stoped before changing the configuration	
		Save Cancel Apply	

2. In the **HSM** field, enter the parameters of the storage management system (HSM) in the following format: [HSM provider]://[HSM IP address]:[HSM port].

Ex: flashnet://10.10.10.10:8199

- 3. In the **Archive Group** field, enter the name of the LTO tape library where your media items will be archived, as it is set in the HSM.
- 4. In the **ATS Database Name** field, enter the name of the ATS database.
- 5. In the **Server** field, enter the IP address of the machine hosting the ATS database.
- 6. In the **Username** and **Password** fields, respectively enter the username and password for the ATS database.
- 7. Click Create DB to create the ATS database on the selected workstation.
- 8. Click Save.

The **ATS DB** button appears on the top right of the window if it was not yet displayed.

ATS Database Status

The background color of the **ATS DB** button gives indication on the ATS database status. It is only displayed when the ATS service has been enabled and the Archive parameters have been configured.

White

The archiving process has been enabled but the ATS database information has not been configured yet.

ATS DB : -

Red

The archiving process is enabled but the ATS database has not been installed yet on the local workstation, or on the workstation set as ATS DB server during the configuration.

ATS DB not installed

Green

The archiving process is enabled and the ATS database configuration was successful.

ATS DB : 10.129.59.41 - Media_ATS

• Orange

The archiving process is enabled but the ATS database is not the right version.

Wrong ATS DB version on 10.129.59.41

Right-click the **ATS DB button** and select **Upgrade** to upgrade the ATS DB scripts.

Configuring the Archive Parameters for Amazon S3 or Wasabi Cloud Storage

Prerequisites

- Install VIA Flow for IPDirector and ARCHIVE Add-on for IPDirector.
- Configure the workflow engine from the Workflow Target Configuration tab. See section "Workflow Target Configuration" on page 129.



How to Configure the Archive Parameters

In the Archive Service window,

1. From the Archive Type menu, select the Amazon S3 or the Wasabi Cloud Storage option.

The fields become available.

	Archi	ive Service
Archive Type Amazon S3	~	
Archive S3 S3 Address Access Key Secret Key Regional endpoint	s3 :// [address	Selecting <i>An Archive Type</i> allows you to start or modify the archive configuration. It also enables the display of all archive contextual menus in IPD. However a valid license is required to use these features. Selecting <i>"(None)" Archive Type</i> disables the archive but the configuration is not erased. So Archive can be re-activated without re-entering the config information.
Workflow Engine		·
Host Name/FQDN		Remark:
		To modify the workflow engine hostname, please refer to "Target/Workflow Targets" section.
	Save Cancel App	by

or

Archive Type Wasabi Cloud Archive S3	Storage 🗸 🗸
S3 Address Access Key	s3 :// address
Secret Key Regional endpoint	Wasabi US East 1 (N. Virginia) V
Workflow Engine Host Name/FQDN	

- 2. Fill in the fields as follows:
 - S3 Address: S3://[bucket-name]/[path]
 where bucket-name is the name of the bucket in the S3 archiving system
 where path is the tree inside the bucket.
 - Access Key: access key used to authenticate on the server.
 - Secret Key: secret key used to authenticate on the server.
 - **Regional endpoint**: regional endpoint that you use to make your requests.
 - **Workflow Engine Hostname/FQDN** (read-only): the workflow engine is configured in the Workflow Target Configuration tab.
- 3. Click Save.



15. Configuring a VTR Control

Purpose

The aim of this procedure is to describe how to configure a VTR Control.

From the IPDirector interface, a VTR Control Panel allows to control external VTRs serially linked to free RS422 ports on IPDirector workstations.

The features are:

- Remote (Shuttle, play, stop, rewind, forward, record, eject)
- Clip creation (Batch list, auto edit)

The procedure shows technical configuration steps. For operational information, please refer to the IPDirector VTR Control Panel User Manual.

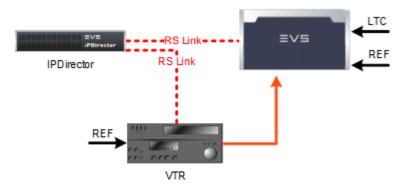
Checklist

• Connect a serial link between an IPDirector workstation and the VTR.

Use an identical link as connecting a server with an IPDirector.

Plug this cable on a free serial port (AVH or MOXA port) on an IPDirector workstation. On the other side, plug it in the serial remote port of the VTR (DB 9pins female connector).

- The ingesting server must receive a LTC Timecode from some source. Free-run mode (on the EVS server) is not allowed.
- Connect a video cable between a VTR SDI/HDSDI clean output and the server recorder channel ingesting the VTR feed.



IPD Parameters (Remote Installer)

To configure the serial link used for the VTR control:

- 1. Open the Remote Installer.
- 2. Make sure services are turned off.

3. Right-click the workstation (Stop the service if it is running) to display the contextual menu and select **Configure Serial Communication**.

munication					
	Serial Co	ommunicatio	n Cont	guration	
	- Serial Communication	n Settings			
	COM Port	Application			
	AVH-RS422-1	Evs Server	-	Settings	
	AVH-RS422-2	Evs Server	-	Settings	
	AVH-RS422-3	MPlay	•	Settings	
	AVH-RS422-4	Vtr Engine		Settings	
	COM1		-	Settings	
	COM2		-	Settings	
	COM3		-	Settings	
	COM4		-	Settings	
	COM5		-	Settings	
	COM6		-	Settings	
		AVH Advanced S	ettings		

The Serial Communication Configuration window is displayed:

- 4. In the Application drop down list, select **Vtr Engine** for the workstation port connected to the VTR.
- 5. Click the **Settings** button to edit the Serial link characteristics.

Serial Communication	n Settings			—		
Basic Settings			Advanced Settings			
COM Port :	AVH-RS422-3		Baud rate :	38400 👻		
VTR Name :	VTR1		Data bits :	8 🔹		
Description :			Parity :	Odd 🔹		
Default Recorder :	22_XT[2] 2_REC1	•	Stop bits :	One 🔻		
		Close				

- a. Enter a VTR name. This name will appear in the Channel Explorer.
- b. Description is not mandatory.
- c. Select the server recorder channel ingesting the VTR feed.
- d. Adjust the Advanced Settings corresponding with the VTR.

Try first with the default parameters. Please refer to the Technical VTR manual for more information.

- e. Click **Close** to save the settings.
- 6. Click **Save** in the Edit Serial Communication Configuration window.
- 7. Restart the VTR Engine service.



Server Parameters

In the Multicam application, open the SHIFT+F2 menu on the server VGA screen, press to display Advanced Mode, use to reach the Timecode Settings:

		CONFIGU		2.SPOTBOX		NING		Za
1.SERVER 2.	CHANNEI	S 3.NETWORK	4.MONIT(ORING 5.P	ROTOCOL (5.GPI 7.	OPERATION 6/7 Advanced	Mode
Fimecode se							o, i navanooa	
cama Camb	LTC LTC LTC	User Hanc LTC Hanc VITC	Primary LTC USER	TC				
SMPTE 334M		: management						
Decoding	PGM1	PGM2	PGM3	PGM4	CAMA Yes	CAMB Yes		
Encoding	No	No	No	No	163	163		
Custom 1 Custom 2					No No	No No		
SD OUT Encoding	No	No	No	No				
ALT+A:Apply	, F3 :Bas	:ic/Advanced	Esc:Quit	t PgUp∕Pg	Dn :Change	e page	F1 :	Help

Two TC tables are recorded. You can record VITC (HANC LTC or HANC VITC for HD) and LTC Timecode on the same recording train but in two different tables. The settings impact only the OSD display of the server recorder and player channels.

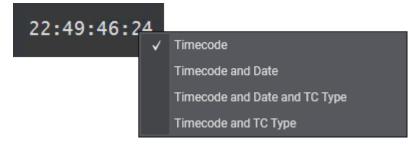
It is **mandatory** to fill the USER TC table with the wanted embedded VITC Timecode (HANC LTC or HANC VITC for HD).

The Time Code Settings can be edited to monitor the incoming VITC on the server OSD. If **Prim.TC** is set on USER and USER table records VITC (HANC LTC or HANC VITC for HD), the Incoming VITC (HANC LTC or HANC VITC for HD) is displayed on the OSD screen.

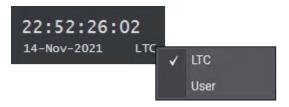
This choice can also be done from the Control Panel within the workspace of IPDirector.

1. Right-click the **Timecode** field.

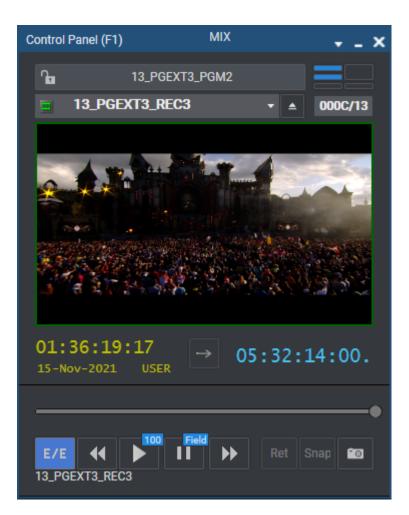
A contextual menu with the following options is displayed:



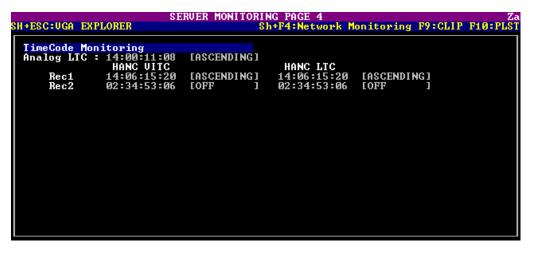
- Timecode
- Timecode and Date
- Timecode and Date and TC Type
- Timecode and TC Type
- 2. Select one of the last two options to display the TC Type.
- 3. When the TC type is displayed, right-clicking it in the **TC Type** field allows to shift from one TC type to the other (**LTC** or **user**).







- 4. When the date is displayed, clicking it in the **Timecode** field opens a calendar for date selection.
- Press **SHIFT+F5** when Multicam is running. Then press once to display the Server Monitoring PAGE 4. This monitoring page displays all running Timecodes for all the recorders of the server.



The recorder channel which receives the video feed must have an ASCENDING status and growing Timecode on both Analog LTC and the selected VITC (HANC LTC and/or HANC VITC) lines.



The TAPE must be recorded with a continuous VITC (HANC LTC or HANC VITC for HD).



Check also the VTR is synchronized on the external video reference which must be the same as the server.

BVW Protocol Settings in the VTR

In the Sony BVW protocol, three timecode values are sent from a VTR serial port to the connected device:

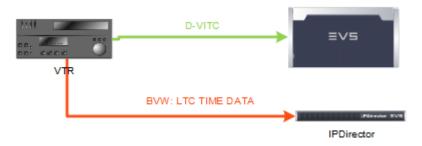
- Timer1
- LTC
- VITC

The IPDirector VTR engine only reads the BVW LTC timecode and considers it as the reference with the corresponding video recorder intra timecode. This ensure frame accurate clipping.

The IPDirector VTR engine does not read the BVW Timer1 or VITC from the BVW protocol.

SD (D-VITC)

The VTR must be set to send the tape D-VITC timecode as LTC on the BVW serial port.



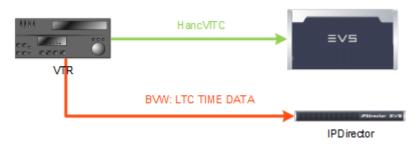
EVS Server Recorder settings:

RECORDER			
USER PRIMARY			
D-VITC	LTC		



HD (HancVITC)

The VTR must be set to send the tape HancVITC timecode as LTC on the BVW serial port.

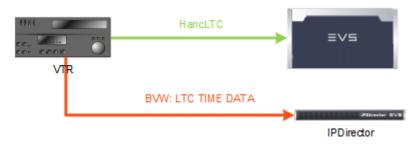


EVS Server Recorder settings:

RECORDER			
USER PRIMARY			
HancVITC	LTC		

HD (HancLTC)

The VTR must be set to send the tape HancLTC timecode as LTC on the BVW serial port.



EVS Server Recorder settings:

RECORDER			
USER	PRIMARY		
HancLTC	LTC		

16. Installing and Configuring IP Drive and API Proxy

Purpose

The aim of this procedure is to describe step by step how to install:

• An IP Drive service on a VIA Xsquare or a non-IPDirector workstation.

IPDirector manages the Nearline directories on a network. It can also manage removable hard drives plugged in a workstation. As this workstation might not be an IPDirector, it is mandatory to install the IP-Drive service on all workstations managing drives.

• An API Proxy service on a Database or a non-IPDirector workstation.

A Web Service Proxy can be installed on a gateway server. This Proxy function adds load balancing and redundancy capabilities to the IPDirector IPWS API. Databases are perfectly designed for this role, especially with its virtual IP address on redundant systems.

How to Install and Configure IP Drive and API Proxy

1. Install the Remote Installer

See section "How to Install the Remote Installer" on page 29.

- 2. Delete the User Manager and IPDirector icons created on the desktop.
- 3. Start the Remote Installer. See section "Starting the Remote Installer Application" on page 2. Once started, you can see all the workstations belonging to the network.
- 4. Set the workstation type.

The workstation appears without any workgroup installed. All the services appear in red as **Not installed**.

😰 Remote Installer - 8.4.0 Rev 66					
File Change Network Interface Tools Restart All Remote Installers Open IP Browse Configurator					
Workgroup : Global (2 Machines)	🕨 🖬 🕑 🔅 🔥 🚺 Indexing	Service Protocol : Mul 16.6 & 20.5	DB : 18.125	13841 - Media	ATS DB : Media_ATS
LPDA200776 (PDece PD Rating PD Potential P Detect P Standard VTR Engine PD Potential PD Potent	ATS EVS Registry		0 n	SynchroDB LSM is in N SynchroDB NL is in Ne	
2, POLASSING ■ Polassing IPO ADA1 PD: France Polassing P Social PD: France P Decide P Social SN: 20070 SN: 20070	ATS EVS Registry			SynchroDB LSM is in N SynchroDB NL is in Ne	
Workgroup : Not Installed (1 Machine)	▶ ■ ④ ✿ 赤 <mark>Indexing</mark>	Service Protocol : Unknown	C	B: -	
IV XxFA2560 (REUSER IN) PD Routing Synchrol@ IPD Routing Synchrol@ IPD Routing IPD Routing Xx12050 (REUSER IN) IPD Routing	ATS EVS Registry Disabled		A U	SynchroDB NL is in No	sical connection ISA Mode. It is managing no XT ne Mode. It is managing no NL g no VTR / IP Drive - All drives are included.

a. Right click on the **Workstation Type** icon on the top left corner of the Workstation area



b. Select **Storage** or **API Proxy** from the contextual menu.



The icon changes from 旕 to ≡ (for Storage) or 🍯 (for API Proxy).

• All IPD modules are hidden except IP Drive (for Storage)

Workgroup : Not Installed (1 Machine)	▶■ⓒሑ	Indexing Service	Protocol : Mul 16.6 & 20.5	DB : -
XFA242560 (10.129.59.70)) = =			🛦 O ^{Summ}
Not Installed SN : 242560				vC IP Driv

• All IPD modules are hidden except IP API (for API Proxy)

Workgroup : Not Installed (1 Machine)	🕨 🔳 🕼 🏟 📩 Indexing Service 🛛 Protocol : Unknown 🛛 🛛 🛛 🗠
XFA242560 (10.129.59.70) IP API Not installed SN : 4294967295	

- 5. Install the IPDirector package:
 - a. Install the IPDirector package in one of the following ways:
 - Right click the Workstation area to open the contextual menu and click the **Send Version** option to send a package of IPDirector.

See section "Workstation" on page 18.

- Click Install Version in the Workgroup (Not Installed) menu and select Install Package.

See section "Installing the IPDirector Package" on page 32.

The workstation joins the Global workgroup by default and creates a Database conflict.

- b. (optional) Click **Refresh** in the main menu if the workstation appears yellow after installing the package.
- c. Right click the workstation area and select **Configure Database** from the contextual menu.

See section "Setting the Database Information" on page 45.

d. (optional) To put the workstation into another workgroup, right click the workstation area and select **Configure Network Information** from the contextual menu.

See section "Setting Network Information for the Workstation " on page 46.

Then, reconfigure once again the database settings to match the workgroup settings.

See section "Setting the Database Information" on page 45.

- 6. Configuring the selected service:
 - IP Drive workstation: see section "Configuring IP Drive" on page 186.
 - IP API workstation: see section "Configuring IP API" on page 191.

EVE

17. Installing IPBrowse or IPClipLogger and Configuring IPBrowse

17.1. Installing IPBrowse or IPClipLogger

Possible Ways of Installation

IPBrowse and IPClipLogger are stand-alone applications based on the IPDirector framework.

Each of them is self contained and do not require the deployment of the whole IPDirector package.

They are mostly aimed at running on corporate desktop PCs where a traditional Remote Installer installation might not be possible. So, an installer is available for each application. This installer can be run in Silent or VerySilent mode for an easy corporate deployment.Refer to the IPBrowse and the IPClipLogger user manuals.

It is however possible to install any of these stand-alone applications from the Remote Installer, would it be on a workstation hosting IPDirector or not. See section .

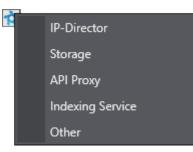
How to Install IPBrowse or IPClipLogger from the Remote Installer

The IPBrowse and IPClipLogger packages (.ipd) are available for deployment from the Remote Installer.

- 1. First install the Remote Installer on all the machines. See section "Upgrading the Remote Installer, IPDirector and Database Versions" on page 27.
- 2. Configure the Remote Installer.
- 3. Define the workgroups and set the workstations as follows, according to the setup required.

Setup where IPDirector and the small apps will be deployed on the same workstation:

• Click the **Workstation** icon and select **IPDirector**.



Setup where only small app(s) will be installed on the workstation, and not the IPDirector package:

- a. All small apps workstations must be in a workgroup different than the IPDirector workgroup. This workgroup must point to the same database as the main IPDirector workgroup.
- b. For the workstation hosting the small app, click the **Workstation** icon and select **Other**.



Setup where some workstations need to have only IPClipLogger and others only IPBrowse:

- a. Each small app must be in a separate workgroup. Each workgroup must point to the same database as the main IPDirector workgroup.
- b. For each workstation hosting a small app, click the Workstation icon and select Other.
- 4. Install the package in one of the following ways:

To install the package on all the workstations of the workgroup:

- a. Stop running services.
- b. Click the Install Version button.
- c. Select Install Package.
- d. Browse to the directory where the IPBrowse or IPClipLogger .ipd file is located

The Remote Installer begins to install the package on all workstations of type **IPDirector** and **Other**.

To install a package on a single workstation (IPDirector type or Other type):

- a. Right-click the workstation area (blue).
- b. Select Send Version.
- c. Browse to the directory where the IPBrowse or IPClipLogger .ipd file is located.

It is not necessary to stop services prior to install a small app on a single machine.

17.2. Selecting the IPBrowse Mode

IPBrowse Modes

IPBrowse can be used with or without the Indexing Service. This is set from the Remote Installer, by executing a script dedicated to the desired mode.



How to Enable or Disable the Indexing Service Mode for IPBrowse

- 1. Right-click the **Database** button in the workgroup toolbar.
- 2. Select Execute Script.

The Execute Script window opens.

🛃 Execute Scri	pt	×		
	Execute Script			
	Database Information Server: 1.1.180.30 Database: Media Version: 0			
	Script			
	Execute Cancel			

- 3. Click the **Browse** button is to display the list of available scripts.
- 4. From the C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Scripts folder:
 - a. Select one of the following script files:
 - IPBrowseWithIndexingService_Disable: to work without the Indexing Service
 - IPBrowseWithIndexingService_Enable: to work with the Indexing Service
 - b. Click Open.

The selected script is displayed in the **Script** field of the Execute Script window.

5. Click **Execute**.

A warning message will ask for confirmation.

6. Click **Yes** to execute the script.

A message will tell you that the script has been successfully executed.

17.3. Configuring IPBrowse

Introduction

The IPBrowse Configurator tool is designed to configure the IPBrowse interface for client stations.

The configuration relates to the selection of columns displayed in the Elements grid, to the Advanced Search fields displayed by default, and other display settings.

The IPBrowse application does not allow users to select the columns to display like the Database Explorer does it in IPDirector.



A configuration already exists by default in the database. This default configuration is displayed when the tool is opened for the first time.



The IPBrowse configurator always connects and applies settings to the workgroup database where the Remote Installer is launched.

Always launch the Configurator tool from an IPDirector station member of the same IPDirector - IPBrowse workgroup.

Opening the IPBrowse Configurator Tool

There are two ways for opening the configuration tool:

- From the Windows taskbar
 - a. Right-click the Remote Installer icon \mathbb{V}/\mathbb{V} from the Windows taskbar.
 - b. Select **Open IPBrowse Configurator** from the contextual menu.
- From the Remote Installer menu bar
 - Click the Open IPBrowse Configurator button.

The login window pops up:



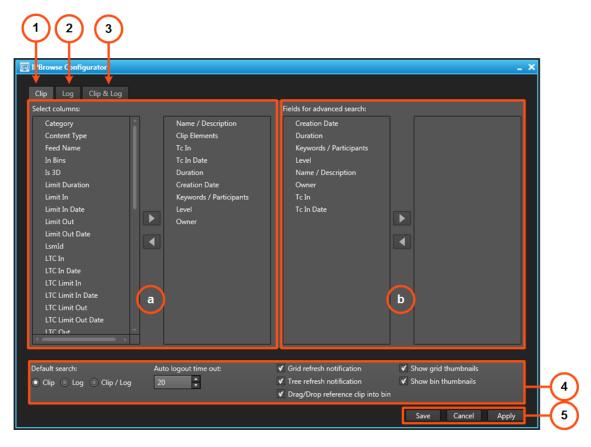
In order to access to the IPBrowse configuration stored in the IPDirector database, credentials must be entered. Only administrator users can log in the tool.



Overview of the IPBrowse Configurator Tool

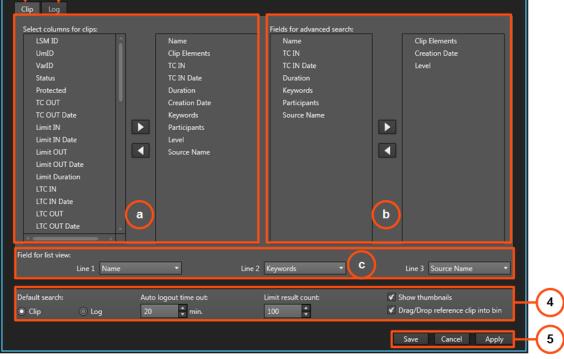
Depending on whether the Indexing Service mode has been enabled or disabled for IPBrowse, the IPBrowse Configurator window will slightly differ.

Indexing Service Mode Enabled



2 1 e Configurato Clip Log Fields for advanced search Select columns for clips LSM ID Name Name UmID Clip Ele VarID TC IN Date Status TC IN Date Duration Protected Keywords Creation Date Source Name TC OUT Date Keywords Limit IN Participants

Indexing Service Mode Disabled



Clip tab (1), Log tab (2) and/or Clip & Log tab (3)

Select Columns for Clips/Logs (a)

This area is used to select the columns to display in the Elements grid of the IPBrowse window.

If a column is not added to displayed column list, the IPBrowse user will not be able to see it. Thus, the user will only be allowed to organize the selected columns.

- Select the tab corresponding to the type of Elements grid view you want to configure (clip, log or clip 1. & log).
- 2. To select the column(s) you wish to add to the grid, do one of the following actions:
 - in the left part of the area, double-click the column(s) you wish to add to the view 0
 - select them in the left part of the area and click the right arrow. 0

Fields for Advanced Search (b)

This area is used to select the Advanced Search fields displayed by default on the IPBrowse window either for clips, for logs, or for the clips & logs view.

Nevertheless, the IPBrowse user will be able to select other fields to display in the IPBrowse Advanced Search pane.

1. Select the tab corresponding to the type of Elements grid view you want to configure (clip, log or clip & log).



- 2. To select the Advanced Search fields you wish to display by default, do one of the following actions:
 - in the left part of the area, double-click the name(s) of the fields you wish to add to the Advanced Search pane,
 - select them in the left part of the area and click the right arrow.

Fields for List View (c)

This area is only available when the Indexing Service mode is disabled.

It is used to select the metadata displayed by default in the IPBrowse window when the Elements list is selected, either for clips or for logs.

Settings zone (4)

Indexing Service Mode Enabled:

Default search: Clip O Log O Clip / Log	Auto logout time out:	 Grid refresh notification Tree refresh notification Drag/Drop reference clip into bin 	 Show grid thumbnails Show bin thumbnails

Indexing Service Mode Disabled:

Default search:		Auto logout time out:	Limit result count:	🖌 Show thumbnails
O Clip	🔘 Log	20 🗘 min.	100 🗘	Drag/Drop reference clip into bin

Default search:

This option defines the type of items (All Clips, Logs or Clips & Logs) displayed by default in the IPBrowse window when opening the client IPBrowse software.

Clip / Log is only available when the Indexing Service mode is enabled.

Default value: Clip

Auto logout time out:

This option defines the number of minutes without activity before automatically logging off the user.

Default value: 20 min

Grid Refresh notification

This parameter is only available when the Indexing Service mode is enabled.

If the Grid Refresh Notification option is selected, an icon will be displayed on the Refresh button at the

top of the IPBrowse Elements grid to warn the users of the need of a manual refresh:

Tree Refresh notification

This parameter is only available when the Indexing Service mode is enabled.

If the **Tree Refresh Notification** option is selected, an icon will be displayed on the **Refresh** button at the top of the IPBrowse Tree view to warn the users of the need of a manual refresh:

Show grid thumbnails:

This parameter is only available when the Indexing Service mode is enabled.

It is used to display the thumbnails in the Elements grid.

Default value: Selected

Show bin thumbnails:

This parameter is only available when the Indexing Service mode is enabled.

It is used to display the thumbnails in the Bins pane.

Default value: Selected

Limit Result Count:

This parameter is only available when the Indexing Service mode is disabled.

It defines the maximum number of items (Clips or logs) listed in each view. This setting reduces the impact of each search on the database performances.

Default value: 100 items

Show thumbnails:

This parameter is only available when the Indexing Service mode is disabled.

It is used to display the thumbnails in the IPBrowse window.

Default value: Selected

Drag/Drop reference clip into bin:

This parameter defines whether, when an existing clip is added into a bin without modifying its boundaries, a new clip is created or a reference is made to the original clip.

Default value: Cleared

Possible values:

- **Selected** (default): when a clip is sent unchanged to a bin, a reference to the original clip is created in the bin.
- **Cleared**: when a clip is sent unchanged to a bin, a new clip is created.

Saving the Configuration Buttons (5)

Save: records the configuration and exits the configurator.

Cancel: exits the configurator without saving changes.

Apply: records the configuration and keeps the configurator open.



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