# **Technical Reference**

Version 6.10 - April 2013



# **IP**•MOSGateway





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The address and phone number of the EVS headquarters are usually mentioned in the Help > About menu in the user interface.

You will find the full list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or at the following page on the EVS website: <u>http://www.evs.com/contacts</u>.

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## What's New?

In the Technical Reference Manual the icon has been added on the left margin to highlight information on new and updated features.

The changes linked to new features in version 06.10.90 are listed below.

### New EVS Logo has been added to the IPMOSGateway Main Window

### **Default Startup Mode is Visible**

See section "How to Launch and Start IPMOSGateway" on page 5

### XSecure License Check Added with XSAdd32.dll (0.0.66.0)

• See section "Installing IPMOSGateway" on page 3.

#### Edits are Placed in Edits Bin in IPDirector

- See section "IPDirector Tab" on page 24
- See section "IPDirector Subkey" on page 31.

### Placeholder Planned Duration and Description are Added to the Edit Description

See section "IPDirector Tab" on page 24.

### Add Thumbnail Reference to MosObject (in objProxyPath)

- See section "MOS Object Tab" on page 21.
- See section "MOS Object Subkey" on page 42.

### Publish Only Online Clips as MOS Objects

- See section "MOS Object Tab" on page 21.
- See section "MOS Object Subkey" on page 42.

mosObjectCreate Messages with the objType 'Undefined' are Also Accepted



# 1. Introduction

# 1.1. About IPMOSGateway

IPMOSGateway enables the integration between EVS' content production management software IPDirector and newsroom computer systems (NCS) through the MOS protocol.

IPMOSGateway has the following features:

- Enables IPDirector to push messages to the NCS about media objects. These
  messages contain a pointer to the media objects as well as descriptive metadata.
- Enables IPDirector to send messages to the NCS containing real-time status information about media objects. For example, messages are sent when clips are created, updated, deleted, assigned to playout channels, cued and played.
- Enables journalists to search for media objects stored on the EVS media servers from within the NCS using the IPMOSBrowser ActiveX plug-in. The media objects can be searched on metadata including names, rankings, keywords, dates and timecodes.
- Enables journalists to preview a proxy version and more detailed metadata of a media object from within the NCS using the IPMOSBrowser ActiveX plug-in.
- Enables journalists to add pointers to existing and virtual media objects stored on the EVS media servers into stories in running orders.
- Enables journalists to request the creation of 'virtual elements' in IPDirector using a single click in the running order. EVS will create the virtual element, publish it to the NCS as a pointer, where it will be automatically added as a reference to the relevant story.
- Enables the NCS to build and control playlists on the EVS media servers.
- Enables the NCS to send messages to IPDirector containing real-time status information about running orders. For example, messages are sent to insert, replace, delete, or otherwise resequence the playlist.

IPMOSGateway is compatible with IPDirector 06.10.90.

IPMOSGateway is compatible with the following newsroom computer systems:

- Avid iNews ® 06.10.90
- ENPS ® 6.00.0029
- Dalet ® 2.00.002
- Annova OpenMedia ® 3.6.2.1425
- Octopus ® 6.0

# 1.2. About the MOS Protocol

The Media Object Server (MOS) protocol is an XML-based protocol for transferring information between newsroom computer systems (NCS) and Media Object Servers such as video servers, audio servers, still stores, character generators, automation servers and prompters.

It enables the exchange of the following types of messages:

- Descriptive Data for Media Objects: The Media Object Server pushes descriptive information and pointers to the NCS as objects are created, modified, or deleted in the MOS. This allows the NCS to be aware of the contents of the MOS and enables the NCS to perform searches on and manipulate the data the MOS has sent.
- **Playlist Exchange:** The NCS can build and transfer playlist information to the MOS. This allows the NCS to control the sequence that media objects are played or presented by the MOS.
- Status Exchange: The MOS can inform the NCS of the status of specific clips or the MOS system in general. The NCS can notify the MOS of the status of specific playlist items or running orders.
- MOS Object Creation: The NCS can request the Media Object Server to create a
  placeholder or virtual element.

IPMOSGateway is compatible with the MOS protocol version 2.8.3.

## 1.3. Workflow

The schema below illustrates the communication between IPDirector and the NCS through IPMOSGateway.





# 2. Installing IPMOSGateway

IPMOSGateway can be installed on the following devices:

- IPDirector server (not preferred)
- Separate server with minimally Microsoft Windows XP running on it.

To install the IPMOSGateway on the server where you will operate it, proceed as follows:

- Manually create the following directory: C:\Program Files\EVS Broadcast Equipment\IPMOSGateway.
- 2. Copy the file IPMOSGateway.exeto this directory.
- New!
- Check if the file XSAdd32.dll (min. version 0.0.63.0!) is present on the EVS machine. If not, please add the provided dll to the application folder of IPMOSGateway.
- 4. If needed, create a shortcut of this application on the desktop and/or in the startup menu.
- 5. Right-click the IPMOSGateway shortcut on the desktop.



The IPMOSGateway Properties window appears.

- 6. (Optional) In the Shortcut tab do one of the following:
  - Add the option -v to the shortcut in the Target field to start the IPMOSGateway in Visible Mode: "C:\Program Files\EVS Broadcast Equipment\IPMOSGateway\IPMOSGateway.exe" -v.



 Add the option -h to the shortcut in the Target field to start the IPMOSGateway in Hidden Mode: "C:\Program Files\EVS Broadcast Equipment\IPMOSGateway\IPMOSGateway.exe" -h.

IPM05Gateway Properties				
Security	Details	Previous Versions		
General Shortcut Con		Compatibility		
IPMOSGateway				
Target type: Application				
Target location: IPMOSGateway				
Target:ipment\IPMOSGateway\IPMOSGateway.exe" -h				

 Add the option -s to the shortcut in the Target field to start the IPMOSGateway in Setup Mode: "C:\Program Files\EVS Broadcast Equipment\IPMOSGateway.exe" -s.

IPMOSGateway	Properties		×
Security	Details	Previous Versions	Ì
General	Shortcut	Compatibility	ΞÌ,
IPMOSGateway			
Target type: Application			
Target location: IPMOSGateway			
Target: Jipment\IPMOSGateway\IPMOSGateway.exe" -			

# 3. Launching and Starting IPMOSGateway

# 3.1. How to Launch and Start IPMOSGateway

To launch IPMOSGateway, double-click the IPMOSGateway shortcut on the desktop of the server hosting IPMOSGateway.





In Visible Mode, the main window opens. Depending on the settings, IPMOSGateway will automatically start after a predefined time interval, or you will have to manually start the application. This is the default start-up mode.

Stop	IPMOSGateway		
MOS Active Rundowns	≡vs (	IPDirector Main Ac - no playlist - (NONE)	ctive Playlist 🗖
		IPDirector Active	XT Servers
		Main 01_XT 01 Backup 02_XT 02	34400 online 83880 online
05-04-13 16:47:14 Info : Application started 05-04-13 16:47:21 Info : IPWS Global connected 05-04-13 16:47:21 Info : IPWS Main connected 05-04-13 16:47:21 Info : IPWS Backup connected 05-04-13 16:47:21 Info : IPWS Object connected 05-04-13 16:47:21 Info : Mos listener "IPD_EVS.M 05-04-13 16:47:21 Info : Mos listener "IPD_EVS.M	405" started on 172.2:	3.5.16	
05-04-13 16:47:21 Info : listening on inwer pr 05-04-13 16:47:21 Info : Mos RO update status pr 05-04-13 16:47:21 Info : Mos Gateway started	oft 10540 rocess started		

In the notification area, at the far right of the Windows taskbar an icon appears.



- In Hidden Mode, the main window does not open. It remains hidden. Only the icon appears in the notification area. Double-click the icon to open the main window.
   Depending on the settings, IPMOSGateway will automatically start after a predefined time interval, or you will have to manually start the application.
- In Setup Mode, the main window opens, but IPMOSGateway does not start automatically. You have to click the Start button.

# 3.2. Troubleshooting Launch and Start Issues

### **Errors When Launching the Application**

When launching IPMOSGateway, the following error messages can appear:

Error Message	Solution
Error : [IPWSSoap] : Exception when calling "Connect_V01_01" : Unable to load WSDL File/Location: http://IPDIRETCOR:31016/IPWS?wsdl. Error [Empty document]	Check the IPWS Soap settings or check that the IPD API is running and can be reached. See section "IPWS Tab" on page 12 and section"Starting an IP API Service on IPDirector" on page 78
Error : Could not connect to the IPWS Soap server. Please check the Soap login settings.	Check the IPWS Soap settings or check that the IPD API is running and can be reached. See section "IPWS Tab" on page 12 and section"Starting an IP API Service on IPDirector" on page 78
Error : could not load license dll.	Check that the license dll "XSAdd32.dll" is on the machine and can be loaded.
Warning : NO LICENSE FOUND!	Check that there is a valid license for the IPMOSGateway installed on the machine.
Warning: LICENSE IS NOT VALID!	Check that there is a valid license for the IPMOSGateway installed on the machine.
Error: server "SERVER_NAME" with serial xxxxx could not be set as online	If the server mention is not to be used by this IPMOSGateway the error can be ignored.
Error : Log File error: Cannot open file "C:\EVSLogs\IPMOSGateway\IPMOSGateway_ yyyymmdd_hh00.log". The process cannot access the file because it is being used by another process [1]	Check that the log file location exists, and that the log file is not opened by another process.



### **Errors When Starting the Application**

When starting IPMOSGateway, the following error messages can appear:

Error Message	Solution
Error : error starting the mos agent: 10049: [10049] Can't assign requested address.	Check the MOS Local Settings and make sure the MOS local host address and ports are correct. See section "MOS Tab" on page 14 for more information.
Error : Status Mos client not connected to ncs "NCS_ID" (NCS IP)	Check the MOS NCS Settings and make sure that the NCS is running and can be reached. See section "MOS Tab" on page 14 for more information.
Error : Objects Mos client not connected to ncs "NCS_ID" (NCS IP)	Check the MOS NCS Settings and make sure that the NCS is running and can be reached. See section "MOS Tab" on page 14 for more information.
Error : Status All Mos client not connected to ncs "NCS_ID" (NCS IP)	Check the MOS NCS Settings and make sure that the NCS is running and can be reached. See section "MOS Tab" on page 14 for more information.
Error: Status Mos Secondary client not connected to ncs "STATUS_ NCS_ID" (STATUS NCS IP)	Check the Secundary MOS Status Settings and make sure that the Secundary Status NCS is running and can be reached. See section "MOS Extended Tab" on page 16 for more information.
Error : Objects Mos Secondary client not connected to ncs "STATUS_NCS_ID" (STATUS NCS IP)	Check the Secundary MOS Status Settings and make sure that the Secundary Status NCS is running and can be reached. See section "MOS Extended Tab" on page 16 for more information.
Error : Status All Mos Secondary client not connected to ncs "STATUS_NCS_ID" (STATUS NCS IP)	Check the Secundary MOS Status Settings and make sure that the Secundary Status NCS is running and can be reached. See section "MOS Extended Tab" on page 16 for more information.

Error Message	Solution
Error : Status MosAgent : Failed to connect Buddy ncs (BUDDY NCS IP) lower port	Check the ENPS Buddy Server Settings and make sure that the Buddy Server is running and can be reached. See section "MOS Extended Tab" on page 16 for more information.
Error : Status MosAgent : Failed to connect Buddy ncs (BUDDY NCS IP) upper port	Check the ENPS Buddy Server Settings and make sure that the Buddy Server is running and can be reached. See section "MOS Extended Tab" on page 16 for more information.
Error : ERROR: failed to subscribe IPWS Notification Server to event type "01/01/2001 10:00:00 - EventObserverNotAccessible - The observer client does not respond."	Check the IPWS Notification Host and Port settings. See section "IPWS Tab" on page 12 for more information.



# 3.3. Main Window Overview

### **General Description**

The main window of IPMOSGateway allows you to monitor the communication (object and running order status updates, playlist information, media object information) between the newsroom computer system (NCS) and the EVS playout system and troubleshoot if errors occur.

It displays the running orders that have been published in the NCS (if any), the playlist that has been loaded on the EVS XT/XS playout server (if any) and the status (online/offline) of the main and backup XT/XS server (if any).

It also gives access to the Settings window which allows you to configure IPMOSGateway.

### Illustration

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



## Area Description

Part	Name	Description
1.	Toolbar	The toolbar allows you to manually start and stop IPMOSGateway, open the Settings window and close or minimize the main window. It also allows you to check the software version. The toolbar is highlighted in red if there is no valid licence for IPMOSGateway.
2.	IPDirector Main Active Playlist Pane	This pane displays the name and VarID of the playlist that is loaded on the main XT/XS playout server (if any).
3.	IPDirector Active XT Servers Pane	This pane displays the XT/XS servers (main/backup) that have been set in the settings as 'active'. It shows if the servers are online or offline. When offline, they are highlighted in red.
4.	Logs Pane	The Logs pane lists the application events (= logs) and can be useful. The date and time of each event is displayed. These logs are also saved in the log files.
5.	MOS Active Rundowns Pane	This pane displays the name and ID of the running orders that have been published to IPDirector by the NCS.

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

# 4. Configuring IPMOSGateway

# 4.1. Configuring IPMOSGateway (EVS Side)

## 4.1.1. Settings Window

### How to Open the Settings Window

To open the Settings window, proceed as follows:

- If IPMOSGateway has been launched in Setup Mode, click the Settings button to open the Settings window.
- If IPMOSGateway has been launched in Hidden Mode, double-click the IPMOSGateway icon in the Windows notification area to open the main window. If IPMOSGateway has been configured to start automatically, click the **Stop** button first, and then click the **Settings** button to open the Settings window. If not, just click the **Settings** button.
- If IPMOSGateway has been launched in Visible Mode and it has been configured to start automatically, click the Stop button first, and then click the Settings button to open the Settings window. If not, just click the Settings button.

## **Overview Setup Categories**

The Settings window contains the following setup categories:

- IPWS
- MOS
- MOS Extended
- MOS Object
- XT Servers
- IP Director
- Processing
- Logging

For each setup category a tab is provided.

### **IPWS** Tab

The IPWS tab allows you to configure the communication with the IPDirector SOAP API.

		Settings				
	Extended MOS Ro	MOS Object	XT Servers	IP Director	Processing	Logging
IPWS Server Host:	172.23.20.2	WSDL:	http://172.23.20.	2:31016/IPW	S?wsdl	
IPWS Login:	administrator		Test IPWS Con	action		
IPWS Password:	***		Test IFW3 Com	lection		
Notification Host:	172.23.1.100	-				
Notification Port:	30677					
	Capcel	1	Sal	/e & Evit		
		J	- 38			

Setting	Description		
IPWS Server Host	The IP address or name of the server that hosts the IPDirector SOAP API service.		
	If you enter this address, the service address of the hosted IPDirector Web Services WSDL is automatically generated. To test the IPDirector Web Services WSDL address, click it.		
IPWS Login	The login name used to log into the IPDirector SOAP API. The login name must be that of a valid IPDirector user having the rights to create playlists and list the clips on the EVS server system.		
IPWS Password	The password used to log into the IPDirector SOAP API. The password must be the password associated to the user that was created in IPDirector.		



Setting	Description
Notification Host	The hostname or the IP address of the local computer hosting the IPMOSGateway. This will be the location of a locally started service to receive notifications from the IPWS. By default, this is the hostname of the local computer.
Notification Port	The TCP port used for the locally started service that will receive notifications from the IPWS. The default notification port number is '30677'.

To test the connection with the IPDirector SOAP API service, click the Test IPWS Connection button. If the connection was successful, the message 'connection succeeded' will appear. If the connection was not successful, because the login information or the WSDL address is not correct, an error message will appear.



### Тір

If you have changed something in the IPDirector SOAP API login name or password, save your settings and restart the IPMOSGateway application before going to the other settings.

### **MOS Tab**

The MOS tab allows you to configure the MOS link between the NCS (Newsroom Computer System) and the IPMOSGateway.

	Settings
	tended MOS Ro MOS Object XT Servers IP Director Processing Logging
Local MOS Server	
Mos ID:	IPD.EVS.MOS
Mos Local Host:	172.23.5.16
Mos Local Port Lower:	10540
Mos Local Port Upper:	10541
Remote NCS Server	
Ncs Type:	ENPS -
Ncs ID:	BEBRWENPS
Ncs Remote Host:	172.23.5.11
Ncs Remote Lower Port:	10540
Ncs Remote Upper Port:	10541
L	
	Cancel Save & Exit

### Local MOS Server

In the Local MOS Server group box you have to enter the data the NCS needs to be able to communicate with IPMOSGateway. The table below describes the various settings:

Setting	Description
Mos ID	The name used to identify your IPMOSGateway in the NCS. The default MOS ID is 'IPD.EVS.MOS'.
Mos Local Host	The IP address of the server on which IPMOSGateway is installed. It is used to communicate with the NCS.
Mos Local Port Lower	The default TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Mos Local Port Upper	The default TCP/IP port on which MOS will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.



### **Remote NCS Server**

In the Remote NCS Server group box you have to enter the data IPMOSGateway needs to be able to communicate with the NCS.

Setting	Description
NCS Type	Defines the type of NCS that IPMOSGateway is communicating with. This is used to change some variables which are specific to each system.
NCS ID	The name used to identify the NCS.
NCS Remote Host	The IP address of the computer that hosts the NCS.
NCS Remote Lower Port	The TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
NCS Remote Upper Port	The TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.



If you change the NCS type, you will be notified that some settings will be automatically changed.



If the current NCS ID is not the default NCS ID, you will be notified about this.



### **MOS Extended Tab**

The MOS Extended tab contains settings that only apply when a secondary NCS server or an ENPS Buddy Server is used in the setup.

	Setting	gs	
	xtended MOS Ro MOS Object	t XT Servers IP Director Processir	
– Secondary Mos Status Up	odate Enabled 📃		
Ncs ID:			
Remote Host:			
Remote Upper Port:	10541		
	Cancel	Save & Exit	

The settings to configure an ENPS Buddy Server only appear if you selected ENPS as NCS type in the MOS tab. See section "MOS Tab" on page 14.

	Settings	
IPWS MOS MOST	xtended MOS Ro MOS Object XT Servers IP Director Processing Logging	١
-Secondary Mos Status U	idate Enabled 📃	
Nes ID:		
Remote Host:		
Remote Upper Port:	10541	
ENPS Buddy Server Enal	led 🔲 -	
Nes ID:		
Remote Host:		
Remote Lower Port:	10540	
Remote Upper Port:	10541	
·		l
	Cancel Save & Exit	



### Secondary Mos Status Update

The Secondary Mos Status Update Enabled group box is used when it is necessary to update a secondary server with the playout status of the IPMOSGateway. To activate the settings, select the corresponding check box. If activated the roltemStat messages send to the NCS will also be sent to this secondary configured server

The table below describes the various settings:

Setting	Description
NCS ID	The name used to identify the secondary server.
Remote Host	The IP address of the server that hosts the NCS.
Remote Upper Port	The TCP/IP port on which the MOS will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.

### **ENPS Buddy Server**

The ENPS Buddy Server Enabled group box is used in case of an ENPS system when an ENPS Buddy server is used for backup purposes. To activate the settings, select the corresponding check box.

Setting	Description
NCS ID	The name used to identify the buddy server.
Remote Host	The IP address of the backup server that hosts the NCS.
Remote Lower Port	The TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Remote Upper Port	The TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.

### MOS RO Tab

Settings
IPWS MOS MOS Extended MOS Ro MOS Object XT Servers IP Director Processing Logging
Mos Break Code: BREAK
Mos No Page Code:
roItemStat No Channel Value: -
Send statusses for all rundowns:
Use objSlug as objID if empty:
Story Replace done as Insert First: 🔟
r Enable RO ID Cleanup 🗹
RO ID Dismiss Prefix: BEBRWENPS;P_SYSTEM\\W;
RO ID Dismiss Postfix:
RO ID Take Last: 35 🛫 chars. Remove punctuations: 🔽
Cancel Save & Exit

The MOS RO tab contains settings that apply to the Running Order in the NCS.

Setting	Description
Mos Break Code	If an "empty" story, i.e. a story with no video item attached to it, has the Mos Break Code string (default " <b>—BREAK—</b> ") in its Story Slug, it will be converted into a break and seen as a comment in the IPDirector playlist. This setting is used if the NCS MOS Gateway does send empty stories.
Mos No Page Code	This setting only applies to iNews. If no page code has been entered for a story in iNews, this has to be reflected in the playlist in IPDirector. The <b>Page</b> <b>Code</b> playlist custom field in the IPDirector playlist has to remain empty. In the <b>Mos No Page Code</b> field you can enter the value (by default "NO PAGE") that will be used by IPMOSGateway to notify that no page code has been entered in iNews for a story and so that no page code has to be displayed in the IPDirector playlist.



Setting	Description
roltemStat No Channel Value	Once a clip in a playlist has been played out on a particular server channel, it is no longer assigned to this channel. In the <b>roltemStat No Channel Value</b> field a value can be entered that should be displayed in the RO (Running Order) of the NCS to indicate that clip is not assigned to a channel. The default value is
Send statuses for all rundown	If enabled, IPMOSGateway will send the status (READY, NOT READY) of the items for all the rundowns that are published in the NCS. If disabled, IPMOSGateway will only send statuses for the playlists actively loaded on the main XT server. In both cases, the statuses for the actively loaded playlist will also include PLAY, STOP, PAUSE,
Use objSlug as objID if empty	If the NCS system passes a RO with an object that does not contain an ObjectID value, the IPMOSGateway can be enabled to utilize the Object Slug as the varID for the playlist element. By default, this setting is not enabled.
Story Replace Done as Insert First	Defines if a story replace is translated in a "delete old story" then "insert new story" (if option is not enabled) or a "insert new story before the old one" then "delete the old story". By default, this setting is not enabled.
Enable RO ID Cleanup	Enables the RO ID Cleanup settings or not.
RO ID Dismiss Prefix	Truncates the RO ID sent by the NCS by removing the defined prefix and only keep the rest as the playlist VarID. This is useful if the RO ID has more than 32 characters. This setting is mainly necessary for ENPS and iNews to cut off the NCS ID. Example: BEBRWENPS;P_SYSTEM\\W;

Setting	Description
RO ID Dismiss Postfix	Truncates the RO ID sent by the NCS by removing the defined postfix and only keep the rest as the playlist VarID. This is useful if the RO ID has more than 32 characters. This setting is mainly necessary for iNews to cut off the "RUNDOWN".
RO ID Take Last	Takes only the given number of last characters of the RO IDs. This is necessarry if the RO ID is longer then 32 characters and that the relevant unique ID is at the end of the RoID.
	This setting is mainly necessary for ENPS. By default, this is set to 35 characters.
	Example: BEBRWENPS;P_SYSTEM\W;8BEBA3EE- 4422-44FA-B280495484F0B681 (= [NCS SERVER]; [FOLDER];[GUID])
	Last 35 = GUID = 8BEBA3EE-4422-44FA- B280495484F0B681
	Remove punctuations = 32 character Playlist VarID = 8BEBA3EE442244FAB280495484F0B681
Remove Punctuations	If enabled, the punctuation ('-',', ",…) will be removed from the RO ID after dismissing all parts in previous settings if configured.



## **MOS Object Tab**

|--|

The MOS Object tab contains settings that relate to the management of MOS objects.

Setti	ngs
IPWS MOS MOS Extended MOS Ro MOS Obje	ect XT Servers IP Director Processing Logging
Enable MOS Object Management	
Only Clips Of Active XT Servers:	
Send All Objects When Started:	
- Include ObjPaths in objects:	
Enable ObjPath Translation:	
Ord. Original Path	Translated Path Active
<no data="" t<="" td=""><td>o display &gt;</td></no>	o display >
	- adpro y ×
Cancel	Save & Exit

Setting	Description
Enable MOS Object Management	If this settings is enabled, IPMOSGateway sends the clip object definition to the NCS. This settings is not used with iNews. This setting is useful with ENPS.
Only Clips of Active XT Servers	If this settings is enabled, only the status of clip objects for the servers defined and activated in the IPMOSGateway XT Servers tab will be communicated. This settings is useful when there are more XT servers on the SDTI network that need to be ignored.
Send All Objects When Started	If this settings is enabled, IPMOSGateway will pass the information for all online clips to the NCS at start-up. Offline files are not published as MOS objects. This is useful when the NCS system can accept the clips into its database for user searching.
Include ObjPaths in objects	If this setting is enabled, the path to the high- and low-resolution video files and the path to the thumbnail is included in the object definition. If the video files do not exist, the object path will be empty. In the NCS it will be possible to play back the video files.
Enable ObjPath Translation	If this setting is enabled, you can translate the UNC path of the video file that is linked to an object to an HTTP or FTP path. This setting especially applies to ENPS. These settings are only available with IPDirector version 6.

### **XT Servers Tab**

			5	ettings		
IPWS	MOS MOS Exter	nded MOS Ro	MOS	Object XT	Servers IP Director Processing	Logging
Serial	Name	Туре	#Ch	Channels	Playlist Bin	Active
98590	07_BEBRPR07	Main	4	EFGH	\IPMOSGateway\2_Backup	✓
97940	08_BEBRPR08	Backup		ABCDEF	\IPMOSGateway\1_Main	
₩ • ▶)	+ + - ▲ ✓ ×	4				Þ
XT Serve	er:				- Add - R	emove
Enable XT	Server Monitoring:	<b>V</b>				
		样 Cancel			Save & Exit	

The XT Servers tab allows you to add XT servers and activate them.

### Adding an XT Server

To add an XT server to the XT Servers tab, proceed as follows:

 In the XT Server list at the bottom of the window, select the desired XT server and add it to the server list.

The name and serial number are automatically entered. This information comes from the IPDirector API.



If a server is missing or if you find nothing in the list, verify that the server is seen by IPDirector and verify you connections to the API.

- 2. Select the type of server: Main or Backup.
- 3. Define the number of playout channels where the rundown will be played:
- 1 : If the rundown will be loaded in a Playlist panel.
- **2->6**: If the rundown will be loaded in the AB Roll Playlist panel (depending on the ABRoll configuration).
- Define the channel name letters associated to the playout channels in the NCS. Choosing 'A' will define the stating letter, and sequence through based on the channel number defined.
- 5. Select the existing IPDirector bin where the rundown playlist will be put upon creation.
- 6. Activate the server.



If checked the rundown will be created on the server. If unchecked, the server is disabled and playlists will not be created or updated on the server.

### **Enable XT Server Monitoring**

If this setting is enabled, IPMOSGateway will monitor if the XT servers are running or not. If an XT server is no longer running, IPMOSGateway will no longer update the playlists on the XT server that has stopped.

### **IPDirector Tab**

Settings	
IPWS MOS MOS Extended MOS Ro MOS Object XT Servers IP Director Processing Logging	•
Default Playlist Element Values	1
Default VarID:PLACEHOLDER	
Default Tc In: 00:00:000	
Default Tc Out: 00:01:00:00 Timecode System: sys25 (PAL)	
Set Start Mode: 🗾 AutomaticallyStartMode 💌	
Set Still Mode: 🗾 NoStillMode 🗾 00:00:01:00	
Add Placeholders As Comment: Color: Black V Font Color: White V	-
	7
Aspect Ratio: 16:9	
Audio Type:	
Video Standard:	
Conversion Type:	
Edit Bin:	
	1
Cancel	

### **Default Playlist Element Values**

Setting	Description
Default VarID	The VarID used in the virtual element associated to empty stories. This value can be defined as <b>PLACEHOLDER</b> or whatever value you want to be displayed for the user.
Default TC In	The default TC In used in the virtual element associated to empty stories.
Default TC Out	The default TC Out used in the virtual element associated to empty stories.



Setting	Description
Timecode System	Must match the Timecode base being used in the facility.
Set Start Mode	<ul> <li>Is set if the IPMOSGateway must explicitly specify the start mode for each playlist element. You can choose between the following start modes:</li> <li>GPIStartMode</li> <li>AutomaticallyStartMode</li> <li>ManuallyStartMode</li> <li>This setting only applies for single playout, not for ABRoll playout.</li> </ul>
Set Still Mode	<ul> <li>Is set if the MOS gateway must explicitly specify the still mode for each playlist element. You can choose between the following still modes:</li> <li>StopOnLastFrame</li> <li>NoStillMode</li> <li>StopOnFirstFrame</li> <li>StopOnTransitionTimer</li> <li>For the StopOnTransitionTimer still mode a time interval can be set after which the next element in the playlist may start.</li> <li>This setting only applies for single playout, not for AB Roll playout.</li> </ul>

### Add Placeholders As Comment

If the option **Add Placeholders As Comment** is selected, an empty story in the RO is not replaced by a virtual element in the IPDirector playlist, but by a playlist comment. You can select the background color of the comment and the font color of the comment text.

### **Default Edit Values**

In the Default Edit Values area you can set a number of default edit info values. IPMOSGateway will automatically select these values when creating a new edit in IPDirector. IPMOSGateway will create a new edit when receiving a MOS Object Create command from the NCS.

The default value of the following edit metadata fields can be set:

- Aspect Ratio
- Audio Type
- Video Standard
- Conversion Type



In the **Edit Bin** field you can select the IPDirector bin where the edits have to be placed. Note that the bin first has to be created in IPDirector. See section "(Optional) Creating an IPMOSGateway Bin " on page 84 for more information. IPMOSGateway will add the planned duration and a description to the **Description** field of the Edit.

Database Explorer - Bins\JPMO	5Gateway∖0.									+ _ ⊟ X
👫 🛛 View 🗸 🗍 🗳 🗍 Brov			💿 🕢 Tools 🕶 Assign							
) Clips 🕢 ) Playlists	Clip	s Playlists	Timelines Edits							
<ul> <li>Timelines</li> <li>Edits</li> </ul>	ρ.								• ? ×	Clear ALL 🗙
⊿ Bins	Position	Name	VarID	Durat	Video Standard	Aspec	Conversion Type	Creation Date	Description	
			1d7caa819c3c499698bfc50db3fe59a7					05-Apr-2013 13:47:23	dur.: 00:00:00:00 -	desc.:
<ul> <li>IP2Archive</li> <li>IPMOSGateway</li> </ul>			4cb00a8f2a05488bb78151bcf21b1022							desc.:
📕 01_Main		KBR EDIT	49b4633737d342cbb57447ae25c98f92					05-Apr-2013 15:52:54	dur.: 00:00:00:00 -	desc.:
02_Backup			a3dc61d7b61845f5939626685b7ad93e					10-Apr-2013 09:46:35	dur.: 00:00:00:00 -	desc.:



## **Processing Tab**

 Settings

 IPWS
 MOS
 MOS Extended
 MOS Ro
 MOS Object
 XT Servers
 IP Director
 Processing
 Logging

 Auto Start Enabled:
 Image: Delay:
 Image: Delay:

The Processing tab allows you to configure some automatic processing tasks.

Setting	Description
Auto Start Enabled	Select this setting if you want the communication with the IPMOSGateway automatically started a few seconds after the application start-up.
Delay	In this field you can set the amount of time between the application start and the MOS communications autostart.

## Logging Tab

This Tab allows the EVS representative to enable and elevate logging status of the application during testing and install.

	Settings	5	
IPWS MOS MOS Extended	MOS Ro MOS Object	XT Servers IP Director	Processing
Show Log Panel On Startup: 🛛 🗸			
Extended Log Files:			
Log Trace Files			
Trace MOS Listener:			
Trace MOS RO Status Client:			
Trace MOS Object Client:			
Trace IPWS Playlist Comm.:			
Trace IPWS Object Create Comm.:			
Trace IPWS Status Comm.:			
Trace IPWS Clip Comm.:			
Trace IPWS Notifications:			
	Cancel	Save & Exit	

Setting	Description
Show Log Panel on Startup	If selected, the Log panel will be displayed at start-up.
Extended Log Files	If selected, more detailed logs will be displayed in the Log panel.
Trace MOS Listener	If selected, the Running Order commands originating from the NCS will be displayed in the Log panel.
Trace MOS RO Status Client	If selected, the communication between the NCS and IPMOSGateway about the status of the Running Order will be displayed in the Log panel.
Trace MOS Object Client	If selected, the communication between the NCS and IPMOSGateway about created and updated MOS Objects will be displayed in the Log panel.
Trace IPWS Playlist Comm.	If selected, the communication between IPDirector and IPMOSGateway about the creation of playlists in IPDirector will be displayed in the Log panel.
Trace IPWS Object Create Comm.	If selected, the communication between IPDirector and IPMOSGateway about the creation of edits in IPDirector will be displayed in the Log panel.



Setting	Description
Trace IPWS Status Comm.	If selected, the communication between IPDirector and IPMOSGateway about the playout status of playlists will be displayed in the Log panel.
Trace IPWS Clip Comm.	If selected, the between IPDirector and IPMOSGateway about clip information will be displayed in the Log panel.
Trace IPWS Notifications	If selected, the notifications of the IPDirector SOAP API will be displayed in the Log panel.

# 4.1.2. Registry

### Introduction

On a 32-bit machine you can find the registry settings of IPMOSGateway in the registry key HKEY\_LOCAL\_MACHINE\SOFTWARE\EVS BroadcastEquipment\IPMOSGateway.

On a 64-bit machine you can find the registry settings of IPMOSGateway in the registry key HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\EVS BroadcastEquipment\IPMOSGateway.

The registry key IPMOSGateway has the following subkeys:

- IPDirector
- IPWS
- Logging
- MOS
- MOS Extended
- MOS Object
- MOS RO
- Processing
- XT Servers


## **IPDirector Subkey**

💒 Registry Editor			
File Edit View Favorites Help			
IPDirector 🔺 Name	Туре	Data	
IPWS 🛛 🕹 (Default)	REG_SZ	(value not set)	
Logging ab Default Timecode In	REG_SZ	00:00:00:00	
MOS 🕹 Default Timecode Out	REG_SZ	00:01:00:00	
MOS Extended ab Default VarID	REG_SZ	PLACEHOLDER	
MOS Object Bill Aspect Ratio	REG_DWORD	0x0000001(1)	
MOS RO 📖 Edit Audio Type	REG_DWORD	0x00000000 (0)	
Processing ab Edit Bin Guid	REG_SZ	75481472-ae6f-40b6-	
Edit Conversion Type	REG_DWORD	0x00000000 (0)	
MediaManager Bill Video Standard	REG_DWORD	0x00000000 (0)	
TOM Max Title Length	REG_DWORD	0x00000040 (64)	
FileZilla 3	REG_DWORD	0x00000000 (0)	
FileZilla Client 📖 📖 Placeholder Comment Backgi	round Color REG_DWORD	0x00000000 (0)	
🕀 🚺 Google 🗰 Placeholder Comment Font C	Color REG_DWORD	0x00ffffff (16777215)	
🗉 📔 IM Providers 🛛 🕮 Playlist Element Start Mode	REG_DWORD	0x00000000 (0)	
🕀 🛺 Intel 🛛 🕹 Playlist Element Start Mode T	Timer REG_SZ	00:00:01:00	
😟 🛄 IrfanView 🧮 🐯 Playlist Element Still Mode	REG_DWORD	0x00000000 (0)	
🕀 🎍 JavaSoft 🛛 🕹 Playlist Element Still Mode Tir	ner REG_SZ	00:00:01:00	
JreMetrics 🗰 Set Playlist Element Start Mo	de REG_DWORD	0x00000000 (0)	
🕀 🕌 KasperskyLab 🗰 Set Playlist Element Still Mod	e REG_DWORD	0x00000000 (0)	
🗈 📕 Khronos 📰 Timecode System	REG_DWORD	0x0000001(1)	

Registry Value	Description
Default Timecode In	The default TC In used in the virtual element associated to empty stories.
Default Timecode Out	The default TC Out used in the virtual element associated to empty stories.
Default Varld	The VarID used in the virtual element associated to empty stories. This value can be defined asPLACEHOLDER or whatever value you want displayed for the user.
Edit Aspect Ratio	<ul> <li>The default aspect ratio of an edit created by IPMOSGateway in IPDirector.</li> <li>0 = 4:3 Letter Box</li> <li>1 = 16:9</li> </ul>
Edit Audio Type	<ul> <li>The default audio type of an edit created by IPMOSGateway in IPDirector.</li> <li>0 = All stereo</li> <li>1 = 5.1 + 5x stereo</li> <li>2 = 2x 5.1 + 2x stereo</li> </ul>
Edit Bin Guid	The GUID of the IPDirector bin where the edits are placed.
Edit Conversion Type	The default conversion type of an edit created by IPMOSGateway in IPDirector. • 0 = 16/9> 4/3 (LB) • 1 = 16/9> 4/3 (PS)
Edit Video Standard	<ul> <li>The default video standard for an edit created by IPMOSGateway in IPDirector.</li> <li>0 = PAL SD 625i</li> <li>1 = NTSC SD 525i</li> </ul>

Registry Value	Description		
Max Title Length	The maximum title length of a playlist element.		
Placeholder As Comment	Enables or disables the setting <b>Add Placeholders As</b> <b>Comment</b> . If enabled, an empty story in the running order is not replaced by a virtual element in the IPDirector playlist, but by a playlist comment.		
Placeholder Comment Background Color	The background color of the placeholder comment.• 0 = black• 1 = maroon9 = red• 2 = green10 = lime• 3 = olive11 = yellow• 4 = navy12 = blue• 5 = purple13 = fuchsia• 6 = teal14 = aqua• 7 = gray15 = white• 8 = silver		
Placeholder Comment Font Color	The font color of the placeholder comment text.• 0 = black• 1 = maroon9 = red• 2 = green• 10 = lime• 3 = olive• 11 = yellow• 4 = navy• 12 = blue• 5 = purple• 13 = fuchsia• 6 = teal• 14 = aqua• 7 = gray• 15 = white• 8 = silver		
Playlist Element Start Mode	Is set if the IPMOSGateway must explicitly specify the start mode for each playlist element. • 0 = AutomaticallyStartMode • 1 = GPIStartMode • 2 = ManuallyStartMode		
Mode	<ul> <li>s set if the IPMOSGateway must explicitly specify the still mode for each playlist element.</li> <li>0 = NoStillMode</li> <li>1 = StopOnLastFrame</li> <li>2 = StopOnFirstFrame</li> <li>3 = StopOnTransitionTimer</li> </ul>		
Playlist Element Still Mode Timer	Defines when the next element in the playlist may start after the previous element has stopped. The default value is 1 second.		



Registry Value	Description	
Set Playlist Element Start Mode	Enables or disables the Playlist Element Start Mode setting.	
Set Playlist Element Still Mode	Enables or disables the Playlist Element Still Mode setting.	
Timecode System	<ul> <li>Must match the Timecode base being used in the facility.</li> <li>0 =undefined</li> <li>1 = sys25 (PAL)</li> <li>2 = sys29.97 (NTSC)</li> <li>3 = sys30 (NTSC No Drop)</li> </ul>	

## **IPWS Subkey**

This subkey contains the registry values IPMOSGateway uses to configure the communication with the IPDirector SOAP API.

Edit       View       Favorites       Help         Image: State of the state	🚮 Registry Editor			
B-       INSIO       Name       Type       Data         IP MOS Gateway       IPDirector       REG_SZ       (value not set)         IPWIS       Soap API Server Host       REG_SZ       172.23.20.2         MOS       MOS       Soap API Server Port       REG_SZ       administrator         MOS       MOS       Soap API Server Port       REG_SZ       172.23.1.100         MOS Object       MOS RO       Soap Notification Server Port       REG_DWORD       0x00007928 (3016)         Processing       XT Servers       REG_SZ       172.23.1.100       0x0000705 (30677)         MADFiling       MediaAanvraag       TOM       REG_SZ       1XpzKkjvBK4GHx2H0KwhUw==         MADFiling       MADFiling       REG_SZ       1XpzKkjvBK4GHx2H0KwhUw==         MADFiling       MediaAanvraag       TOM       REG_SZ       1XpzKkjvBK4GHx2H0KwhUw==         NX TArccess       FileZila Client       FileZila Client       Soap Reset Token Delay Minutes       REG_DWORD       0x0000000a (10)         P       Ghisler       Ghisler       Mosing       Notification Server Port       REG_NORD       0x0000000a (10)	<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>H</u> elp			
Image: Definition of the MOS Gateway       Projector       Projector <th>INSIO</th> <th>Name</th> <th>Туре</th> <th>Data</th>	INSIO	Name	Туре	Data
E Google	P MOS Gateway     PDirector     Diffector     Digging     MOS     Diget     MOS Extended     MOS Diject     MOS RO     Diffector     Di	(Default)     Soap API Server Host     Soap API Server Port     Soap Notification Server Host     Soap Notification Server Port     Soap Operation Timeout Seconds     Soap Password     Soap Reset Token Delay Minutes	REG_SZ REG_SZ REG_DWORD REG_SZ REG_DWORD REG_DWORD REG_SZ REG_DWORD	(value not set) 172.23.20.2 0x00007928 (31016) administrator 172.23.1.100 0x000077d5 (30677) 0x0000000a (10) 1XpzKkjvBK4GHx2H0KwhUw== 0x0000000a (10)

Registry Value	Description
Soap API Server Host	The hostname or the IP address of the local computer hosting the IPMOSGateway.
	This will be the location of a locally started service to receive notifications from the IPWS. By default, this is the hostname of the local computer.
Soap API Server Port	The TCP port used by the IPWS to send notifications. The default port number is '31016'.
Soap Login	The login name used to log into the IPDirector SOAP API. The default value is 'administrator'.
Soap Notification Server Host	The hostname or the IP address of the server hosting the service that will receive notifications from the IPWS.
Soap Notification Server Port	The TCP port used for the locally started service that will receive notifications from the IPWS. The default notification port number is '30677'.



Registry Value	Description
Soap Operation Timeout Seconds	Specifies the amount of time, in seconds, IPMOSGateway will wait for a response of the IPDirector API before giving a timeout. The default value is '10'.
Soap Password	The password used to log into the IPDirector SOAP API. The password must be the password associated to the user that was created in IPDirector.
Soap Reset Token Delay Minutes	Specifies the amount of time, in minutes, after which the SOAP authentication token is reset. The default value is '10'.

## Logging Subkey

This subkey contains the registry values IPMOSGateway uses to configure the logging of the various communication processes.

💣 Registry Editor				
<u>File Edit View Favorites H</u> elp				
	*	Name	Туре	Data
HKEY_CURRENT_USER     HKEY_COLAL_MACHINE     BCD0000000     HARDWARE     SECURITY     SECURITY     SOFTWARE     DOFTWARE     DOTTWARE     DOTTW	Ш	All (Default)     Extended Log On Screen     Extended Log On Screen     Extended Logging Enabled     Log File Cleanup Delay Days     Log File Cleanup Enabled     Log Trace IPWS Olip Communication Enabled     Log Trace IPWS Olip Communication Enabled     Log Trace IPWS Olipict Create Communication Enabled     Log Trace IPWS Playlist Communication Enabled     Log Trace IPWS Status Communication Enabled     Log Trace IPWS Status Communication Enabled     Log Trace Mos Clients Objects Communication En.     Log Trace Mos Clients Objects Communication En.     Log Trace Mos Listener Communication Enabled     Log Trace Mos Listener Communication Enabled     Log Trace Mos Listener Communication Enabled     Logging Directory	REG_SZ           REG_DWORD           REG_DWORD	(value not set) 0x0000000 (0) 0x0000000 (0) 0x0000001 (1) 0x0000001 (1) 0x0000001 (1) 0x0000000 (0) 0x0000000 (0) 0x000000 (0) 0x0000000 (0) 0x000000 (0) 0x000000 (0) 0x0000
MOS Object MOS RO Processing TOM TOM Mos Ro Mos	•	Max Log Lines on Screen	REG_DWORD	0x00000100 (256)
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\EVS Broadcast Equipment\JP MOS Gateway\Logging				

Registry Value	Description
Extended Log On Screen	Enables or disables the display of extended logs on screen. By default, this option is disabled.
Extended Logging Enabled	Enables or disables the display of detailed logs in the log files. By default, this option is disabled.
Log File Cleanup Delay Days	Specifies the time interval, in days, after which the log files are automatically deleted from the logging directory. The default value is '32'.
Log File Cleanup Enabled	Enables or disables the automatic clean up of the log files from the logging directory. By default, this option is enabled.
Log Shown At Startup	Enables or disables the display of the Log pane at start-up. By default, this option is enabled.
Log Trace IPWS Clip Communcation Enabled	If enabled, the communication between IPDirector and IPMOSGateway about clip information will be displayed in the Log panel. By default, this option is disabled.
Log Trace IPWS Notification Server Enabled	If enabled, the notifications of the IPDirector SOAP API will be displayed in the Log panel. By default, this option is disabled.
Log Trace IPWS Object Create Communciation Enabled	If enabled, the communication between IPDirector and IPMOSGateway about the creation of edits in IPDirector will be displayed in the Log panel. By default, this option is disabled.



Registry Value	Description
Log Trace IPWS Playlist Communication Enabled	If enabled, the communication between IPDirector and IPMOSGateway about the creation of playlists in IPDirector will be displayed in the Log panel. By default, this option is disabled.
Log Trace IPWS Status Communication Enabled	If enabled, the communication between IPDirector and IPMOSGateway about the playout status of playlists will be displayed in the Log panel. By default, this option is disabled.
Log Trace Mos Clients Objects Communication Enabled	If enabled, the communication between the NCS and IPMOSGateway about created and updated MOS Objects will be displayed in the Log panel. By default, this option is disabled.
Log Trace Mos Clients Status Communication Enabled	If enabled, the communication between the NCS and IPMOSGateway about the status of the RO will be displayed in the Log panel. By default, this option is disabled.
Log Trace Log Listener Communication Enabled	If selected, the RO commands originating from the NCS will be displayed in the Log panel. By default, this option is disabled.
Logging Directory	The directory where the log files are stored. The default directory is C:\EVSLogs\IP Mos Gateway\.
Logging Enabled	If enabled, log files are created and kept.
Max Log Lines On Screen	The maximum number of lines retained by the Log pane. The default value is '256'.

## MOS Subkey

This subkey contains the registry values IPMOSGateway uses to configure the communication between IPMOSGateway and the NCS.

📸 Registry Editor				
<u>File Edit View Favorites H</u> elp				
	*	Name	Туре	Data
		ab (Default)	REG_SZ	(value not set)
► 🏭 BCD0000000		ab Local Mos Listening Host Address	REG_SZ	172.23.5.16
► → → → → → → → → → → → → → → → → → → →		Re Local Mos Listening Port Lower	REG_DWORD	0x0000292c (10540)
SECURITY		Bill Local Mos Listening Port Upper	REG_DWORD	0x0000292d (10541)
SOFTWARE		Mos Response Checks Delay Milliseconds	REG_DWORD	0x00000014 (20) 0x00000064 (100)
Classes	Ε	Remote Ncs Host Address	REG_SZ	172.23.5.11
Dients		ab Remote Ncs ID	REG_SZ	BEBRWENPS
EVS Broadcast Equipment     IP MOS Gateway		Remote Ncs Port Lower	REG_DWORD	0x0000292d (10540)
IPDirector		Remote Ncs Type	REG_DWORD	0x00000002 (2)
IPWS				
MOS				
MOS Extended				
MOS Object				
Processing				
I				
▶ -]] Intel				
Computer/HKEY LOCAL MACHINE/SOFTWARE/EVS Broadcast E	auin	ment\IP MOS Gateway\MOS		
compared intel <sup>2</sup> counter and the products equipment in two dateway (into a				

Registry Value	Description
Local Mos ID	The name used to identify your IPMOSGateway in the NCS. The default MOS ID is 'ipd.evs.mos'.
Local Mos Listening Host Address	The IP address of the server on which IPMOSGateway is installed. It is used to communicate with the NCS.
Local Mos Listening Port Lower	The TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Local Mos Listening Port Upper	The TCP/IP port on which MOS will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.
Mos Response Checks Delay Milliseconds	The time interval, in milliseconds, after which IPMOSGateway will check for a response of the NCS. The default value is '20'.
Mos Response Max Checks	The maximum number of times IPMOSGateway will check for a response of the NCS. The default value is '100'.
Remote NCS Host Address	The IP address of the server that hosts the NCS.
Remote NCS ID	The name used to identify the NCS.



Registry Value	Description
Remote NCS Port	The TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port.
Lower	The default port number is '10540'.
Remote NCS Port	The TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port.
Upper	The default port number is '10541'.
Remote NCS Type	Defines the type of NCS that IPMOSGateway is communicating with. This is used to change some variables which are specific to each system.

## MOS Extended Subkey

The MOS Extended subkey contains registry values that only apply when a secondary NCS server or an ENPS Buddy Server is used in the setup.

💣 Registry Editor				- • •
<u>File Edit View Favorites H</u> elp				
File     Edit     Yiew     Fayorites     Hep	^	Name (Default) (Defa	Type REG_SZ REG_DWORD REG_SZ REG_DWORD REG_DWORD REG_DWORD	Data (value not set) 0x0000000 (0) BERWENPS-BUDDY 192.168.55.31 0x0000292c (10540) 0x0000292d (10541) 0x0000090 (0)
All Itechnologies     Classes     Evis Broadcast Equipment     Evis Broadcast Equipment     Pipmector     Director     Director     Director     Director     WOS     MOS Extended	E	Secondary IKS ID Secondary IKS ID Secondary Remote Host Address Secondary Remote Port Upper	REG_SZ REG_SZ REG_DWORD	BERWENPS-SUDDY 192.168.55.31 0x0000292d (10541)
MOS Object MOS Object MOS RO Processing TOM Difference Total Control of the control of the second se	-	4 m		

Registry Value	Description
Buddy Enabled	Enables or disables the settings that relate to the use of a ENPS Buddy Server for backup purposes. By default, this setting is disabled.
Buddy NCS ID	The name used to identify the buddy server itself.
Buddy Remote Host Address	The IP address of the NCS MOS Gateway.
Buddy Remote Port Lower	The default TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Buddy Remote Port Upper	The default TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.
Secondary Mos Status Update Enabled	Enables or disables the update of a secondary server with the playout status of the IPMOSGateway.



Registry Value	Description
Secondary NCS ID	The name used to identify the secondary server itself.
Secondary Remote Host Address	The IP address of the backup server that hosts the NCS.
Secondary Remote Port Upper	The TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.

## MOS Object Subkey



This subkey contains the registry values that relate to the management of MOS objects.

Ene         Ear         Yew         Tayontes         Help	*				
<ul> <li>HARDWARE</li> <li>ARDWARE</li> <li>SCURTY</li> <li>SOFTWARE</li> <li>Classes</li> <li>Classes</li> <li>Clients</li> <li>EVS Broadcast Equipment</li> <li>PMOS Gateway</li> <li>IPDirector</li> <l< th=""><th>E</th><th>Name (Default) () Include ObjPaths In Mos Objects () Mos Object Management Enabled () Mos ObjRatin Spaces () ObjPath Translation Enabled () OhjPath Translation Enabled () OhjPath Cather XT Objects () Send All Mos Objects At Startup</th><th>Type REG_SZ REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD</th><th>Data (value not set) 0x0000001 (1) 0x00000001 (1) 0x00000001 (1) 0x00000001 (1) 0x00000001 (1)</th><th></th></l<></ul>	E	Name (Default) () Include ObjPaths In Mos Objects () Mos Object Management Enabled () Mos ObjRatin Spaces () ObjPath Translation Enabled () OhjPath Translation Enabled () OhjPath Cather XT Objects () Send All Mos Objects At Startup	Type REG_SZ REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD	Data (value not set) 0x0000001 (1) 0x00000001 (1) 0x00000001 (1) 0x00000001 (1) 0x00000001 (1)	
⊳-jji Intel	-	٠ ( III ) III / I			

Registry Value	Description
Include ObjPaths in Mos Objects	If this setting is enabled, the path to the high- and low-resolution video files and the path to the thumbnail are included in the object definition. If the video files do not exist, the object path will be empty. In the NCS it will be possible to play back the video files. This setting is not used with iNews.
Mos Object Management Enabled	If this settings is enabled, IPMOSGateway sends the clip object definition to the NCS. This settings is not used with iNews.
Mos ObjID Retain Spaces	If enabled, the trailing spaces before and after the MOS objectID will be retained. If disabled, the spaces will be removed.
ObjPath Translation Enabled	If this setting is enabled, you can translate the UNC path of the video file that is linked to an object to an HTTP or FTP path. This setting especially applies to ENPS.
Only Active XT Objects	If this settings is enabled, only the status of clip objects for the servers defined in the IPMOSGateway XT Servers tab will be passed on. This settings is useful when there are more XT servers on the SDTI network that need to be ignored.
Send All Mos Objects At Startup	If this settings is enabled, IPMOSGateway will pass the information for all online clips to the NCS at start-up. Offline clips are not published as MOS objects. This is useful when the NCS system can accept the clips into its database for user searching.



## MOS RO Subkey

🖉 Registry Editor			
Eile Edit View Favorites Help			
Evs	Name	Type	Data
🖃 🎍 Evs Broadcast Equipment	ab (Default)	REG_SZ	(value not set)
Common	ab Break Recognition Code	REG_SZ	BREAK
EVSCommonSNMPAgent	ab Mos No Page Code	REG_SZ	
EvsMXF IdGen	ab Mos Page Slug Separator	REG_SZ	-
INSIO	ab Mos RoItemStat No Channel Value	REG_SZ	12 C
IPMOSGateway	Mos Statusses Send For All Rundowns	REG_DWORD	0x00000000 (0)
IPDirector	Mos Story Field Element Name	REG_DWORD	0x00000000 (0)
IPWS	Mos Story Slug In First Position	REG DWORD	0x00000001(1)
Logging	RO ID Cleanup Enabled	REG DWORD	0x00000001(1)
MOS Extended	ab RO ID Dismiss Postfix	REG_SZ	
MOS Object	ab RO ID Dismiss Prefix	REG SZ	BEBRWENPS;P_SYSTEM\\W;
MOS RO	RO ID Remove Punctuation Characters	REG DWORD	0x00000001(1)
Processing	RO ID Take Last Chars	REG_DWORD	0x00000023 (35)
XT Servers	RO Object Use ObjSlug As ObjID if Empty	REG DWORD	0x00000000 (0)
MADFiling	RO Story ID Cleanup Enabled	REG_DWORD	0x00000001(1)
MediaAanvraag	RO Story ID Remove Punctuation Characters	REG DWORD	0x00000001(1)
том	RO Story ID Take Last Chars	REG DWORD	0x00000023 (35)
	RO Story Replace As Insert First	REG DWORD	0x00000000 (0)
E 🔂 XSecure			
🕀 🖳 FileZilla 3			
🕀 🎍 FlashFXP	· •		Þ

This subkey contains the registry values that apply to the Running Order in the NCS.

Registry Value	Description
Break Recognition Code	If a story has the stringBREAK in its Story Slug it will be converted into a break and seen as a comment in the IPDirector playlist. This setting is used if the NCS MOS Gateway does not send empty stories and does not send real rundown breaks.
Mos No Page Code	This setting only applies to iNews. If no page code has been entered for a story in iNews, this has to be reflected in the playlist in IPDirector. The <b>Page</b> <b>Code</b> playlist custom field in the IPDirector playlist has to remain empty. In the <b>Mos No Page Code</b> field you can enter the value (by default "NO PAGE") that will be used by IPMOSGateway to notify that no page code has been entered in iNews for a story and so that no page code has to be displayed in the IPDirector playlist. The default value is 'Q'.
Mos Page Slug Separator	The default separator used in the Story ID in the Story Slug received trough the MOS protocol from the NCS between the Page Code (iNews) / Segment (ENPS) and Story Slug. The default value is '-'.
Mos RoltemStat No Channel Value	Once a clip in a playlist has been played out on a particular server channel, it is no longer assigned to this channel. In the <b>roltemStat No Channel Value</b> key a value can be entered that should be displayed in the Running Order of the NCS to indicate that clip is not assigned to a channel. The default value is '-'.

Registry Value	Description
Mos Statusses Send for All Rundowns	If enabled, IPMOSGateway will send the status (READY, NOT READY) of the items for all the rundowns that are published in the NCS. If disabled, IPMOSGateway will only send statuses for the playlists actively loaded on the main XT server. In both cases, the statuses for the actively loaded playlist will also include PLAY, STOP, PAUSE,
Mos Story Slug In First Position	If enabled, IPMOSGateway will treat the element before the separator in the Story ID in the Story Slug received trough the MOS protocol from the NCS as the actual Story Slug. If disabled, it will the treat the element after the separator as the Story Slug. For ENPS, this setting is enabled, for iNews it is disabled.
RO ID Cleanup Enabled	Enables the RO ID Cleanup settings or not.
RO ID Dismiss Postfix	Truncates the RO ID sent by the NCS by removing the defined postfix and only keep the rest as the playlist VarID. This is useful if the RO ID has more than 32 characters. This setting is mainly necessary for iNews to cut off the "RUNDOWN".
RO ID Dismiss Prefix	Truncates the RO ID sent by the NCS by removing the defined prefix and only keep the rest as the playlist VarID. This is useful if the RO ID has more than 32 characters. This setting is mainly necessary for ENPS and iNews to cut off the NCS ID. Example: BEBRWENPS;P_SYSTEM\\W;
RO ID Remove Punctuation Characters	If enabled, the punctuation ('-','.', '',) will be removed from the RO ID after dismissing all parts in previous settings if configured.
RO ID Take Last Characters	Takes only the given number of last characters of the RO IDs. This is necessarry if the RO ID is longer then 32 characters and that the relevant unique ID is at the end of the RoID. This setting is mainly necessary for ENPS. By default, this is set to 35 characters. Example: BEBRWENPS;P_SYSTEM\W;8BEBA3EE-4422- 44FA-B280495484F0B681 (= [NCS SERVER];[FOLDER]; [GUID]) Last 35 = GUID = 8BEBA3EE-4422-44FA-
	B280495484F0B681 Remove punctuations = 32 character Playlist VarID = 8BEBA3EE442244FAB280495484F0B681
RO Object Use ObjSlug As ObjID if Empty	If the NCS system passes a RO with an object that does not contain an ObjectID value, the IPMOSGateway can be enabled to utilize the Object Slug as the varID for the playlist element. By default, this setting is not enabled.



Registry Value	Description
RO Story Cleanup Enabled	Enables the Story ID Cleanup settings or not.
RO Story ID Remove Punctuation Characters	If enabled, the punctuation ('-','.', ",) will be removed from the RO Story ID.
RO Story ID Take Last Characters	Takes only the given number of last characters of the story IDs. This is useful if the story ID is rather long and always has the same length prefix.
	This setting is recommended for ENPS. By default, this is set to 35 characters.
	Example: Story ID: BEBRWENPS;P_SYSTEM\W\R_ 8BEBA3EE-4422-44FA-B280495484F0B681;469E75B5- 31A3-4030-AFF9F3695746BE0B (= [RO_ ID];[GUID])
	Last 35 = GUID = 469E75B5-31A3-4030- AFF9F3695746BE0B
	Remove punctuations = 32 character Playlist Elem Third Party ID = 469E75B531A34030AFF9F3695746BE0B
RO Replace As Insert First	Defines if a story replace is translated in a "delete old story" then "insert new story" (if option is not enabled) or a "insert new story before the old one" then "delete the old story". By default, this setting is not enabled.

## **Processing Subkey**

This subkey contains the registry values used to configure some automatic processing tasks.

🍰 Registry Editor				
File Edit View Favorites Help				
😑 🌗 Evs Broadcast Equipment		Name	Туре	Data
Common		ab (Default)	REG_SZ	(value not set)
EVSCommonSNMPAgent		Auto Start Delay Seconds	REG_DWORD	0x0000000a (10)
EvsMXF IdGen		Auto Start Enabled	REG_DWORD	0x00000000 (0)
		100 Mos Update Object Delay Milliseconds	REG_DWORD	0x00000064 (100)
IPMOSGateway		Mos Update Object mosObj Send Delay Milliseconds	REG_DWORD	0x000001f4 (500)
IPDirector		100 Mos Update Status All Rundowns Delay Seconds	REG_DWORD	0x0000001e (30)
IPWS		Mos Update Status roItemStat Send Delay Milliseconds	REG DWORD	0x00000032 (50)
Logging		Mos Update Status Rundowns Delay Milliseconds	REG_DWORD	0x00000064 (100)
MOS		Mos Update Status Rundowns Sync Delay Seconds	REG DWORD	0x00000000 (0)
MOS Extended			-	
MOS PO				
Processing				
XT Servers				
MADFiling				
MediaAanvraag				
том				
E Martie JobDevices				
E XSecure				
TAccess	_			
🕀 🕌 FileZilla 3				
ElashFXP				
🕀 🎍 GEAR Software				
🕀 🎍 Ghisler				
Hewlett-Packard				
IDM Computer Solutions				
ImgBurn				
Impact				
TD®Warkal V9 Dalahi Edition				
IF Works! V8 Delphi Edition		L		
Tanview	•	<b>▲</b>		F

Registry Value	Description
Auto Start Delay Seconds	The amount of time between the application start and the MOS communications autostart. The default value is '5'.
Auto Start Enabled	If enabled, the communication with the IPMOSGateway automatically starts a few seconds after the application startup. By default, this setting is enabled.
Mos Update Object Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will process IPWS events. The default value is '100'.
Mos Update Object mosObj Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will send Object updates to the NCS. The default value is '500'.
Mos Update Status All Rundowns Delay Seconds	The frequency, in seconds, with which IPMOSGateway will update the status of the items in the rundowns that are not actively loaded on the main XT server. The default value is '30'.



Registry Value	Description
Mos Update Status roltemStat Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will send RO Item status updates to the NCS. The default value is '50'.
Mos Update Status Rundowns Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will send an update of all loaded rundowns. The default value is '500'.
Mos Update Status Rundowns Sync Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will send an update of all rundowns to the NCS. This should be set to '0' for ENPS.

## **XT Servers Subkey**

B Registry Editor			
<u>File Edit View Favorites H</u> eip			
HKEY_CLASSES_ROOT	Name	Туре	Data
HKEY_CURRENT_USER	ab (Default)	REG_SZ	(value not set)
A HKEY_LOCAL_MACHINE	3 XT Server Monitoring Enabled	REG_DWORD	0x00000001 (1)
▶ - <b>BCD0000000</b>	-		
SAM			
ATT Technologie			
Classes			
Classes			
A B EVS Broadcast Equipment			
IP MOS Gateway			
IPDirector			
IPWS			
MOS			
MOS Extended			
MOS Object			
Processing			
XT Servers			
ТОМ			
🕨 🏭 Intel			
Microsoft			
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\EVS Broadcast Equip	ment\IP MOS Gateway\XT Servers		

Registry Value	Description
XT Server Monitoring Enabled	If this setting is enabled, IPMOSGateway will monitor if the XT servers are running or not. If an XT server is no longer running, IPMOSGateway will no longer update the playlists on the XT server that has stopped. By default, this value is enabled.



# 4.2. Configuring for IPMOSGateway (ENPS Side)

## 4.2.1. Creating a New Group/Program

To create a folder in ENPS in which MOS Object messages from IPMOSGateway will be stored, proceed as follows:

 In ENPS, click the rover (green dot) of the fourth folder at the bottom of the ENPS desktop and select System Maintenance > Groups.



The window that allows you to manage groups in ENPS appears.

ID	Description	Server	Туре	Newsgathering	Private	Parent/Child	Gateway Queue	WarnApproved	ForceEnglish	Allowed Wires	Enable
BUDFOLD	Buddy Folder	BEBRWENPS-BUDDY									
EVSM	EVS MOS	BEBRWENPS									
SYSTEM	Rundowns	BEBRWENPS									
1											

2. Click New to create a new group.

The following dialog box appears.

ENP5	×
New ID	OK Cancel

- 3. Enter a unique identifier for the group. Spaces are not allowed. For example, 'EVSM'.
- 4. Enter the following information:
  - Description: Group name that will appear to the users. For example, 'EVS MOS'.
  - Server: Local or remote Primary Server that will host the group.
- After you set the group options click Save. Exit the ENPS client and restart it to see the new group.

No other options need to be defined for the group.

## 4.2.2. Navigating to the Group

To navigate to the new group in ENPS, click the rover (green dot) of the fourth folder at the bottom of the ENPS desktop and select **Locations** Then, select the server name and the name of the group.



## 4.2.3. Adding IPMOSGateway and IPMOSBrowser

To add IPMOSGateway and the IPMOSBrowser to ENPS, proceed as follows:

 In ENPS, click the rover (green dot) of the fourth folder at the bottom of the ENPS desktop and select System Maintenance > MOS Configuration.



The configuration window appears.



 Address
 Description
 IP
 ActiveX
 Program
 Default Settings
 MOS Version
 Local DragDrop
 N

 Image: Construction of the setting of the

2. Click **New** to create a new configuration line.

The following dialog box appears.

ENPS	×
New ID	OK Cancel

3. Enter the name of the IPMOSGateway server and click OK.

This name is case-sensitive (preferably upper case) and must follow the following naming convention: <family>.<machine>.<location>.<enterprise>.<mos>

Both <location> and <enterprise> are optional.

For example, 'EVSIPDIR.EVS.BXL.SYSTEM1.MOS'.

- 4. Enter the following information:
  - **Description**: Description of your IPMOSBrowser as it will appear in ENPS menus, for example 'IPDirector'.
  - IP: IP address of the IPMOSGateway server.
  - (optional) ActiveX: Name of the IPMOSBrowser. This name can be found in the registry. By default, this is 'MOSBROWSERMFC.MosBrowserMFCCtrl.1'.
  - Program: Name of the Group/Program Folder within ENPS in which MOS Object messages will be stored. For example: Define it to the 'EVSM' instance. See section "Creating a New Group/Program" on page 49.
  - **MOS Version**: The version of the MOS protocol to use with this device, i.e. version 2.8.
  - Auto Create: Determines whether IPMOSGateway is allowed to create MOS objects automatically. This setting must be enabled for a Rundown's AutoCreate feature to work. This should be disabled with IPDirector 5.
  - Story Send: Determines if IPMOSGateway is included in a list of MOS StorySend devices. This setting should be enabled. The MOS Story Send field must be enabled in the Rundown by the System Administrator.
  - Local Drag/Drop : This setting should typically be off.
- 5. Click Save to save your changes.
- Restart the ENPS client and the News Object Manager any time you add a MOS entry.

## 4.2.4. Modifying the MOS Timeout

If an active link between ENPS and IPMOSGateway times out due to no response from IPMOSGateway, MOS control is deactivated, a DISCONNECTED indicator appears in the MOS Status column of a Rundown, and the Rundown is queued for a complete refresh when the connection is re-established.

The timeout is configurable in the [MOS] section of the NOM.INI file in the NOM folder on the server. Timeout values can be assigned to specific devices. The timeout values for specific MOS servers are set in the MOS Timeout section of the NOM.INI file.

📕 nom.ini - Notepad	- O ×
<u>File E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp	
<pre>[NOM] ; Buddy active (1=True, 0=False) Buddy=1 ; Record caching (1=enabled, 0=disabled, default Enablecache=1 CentralServer=BEBRWENPS XMLStorage=1 Trace=1</pre>	=0)
[watch] NOM=1 NWP=1 Mwint=1 Extract=0 [TCPIP]	
PacketVersion=2	
[Reflectors]	
[Mos] Version=2,6 LogIn=1 LogOut=1 RepeaterQueueExpiration=28800 Timeout=300 NumberRoConstruction=0	
[maint] RemovePriorVersions=0	-
	▶ //

Change the value to 300 (seconds).

Define this also on the Buddy Server when using a Buddy Server.

## 4.3. Configuring for IPMOSGateway (iNews Side)

## 4.3.1. Editing iNews MOS Gateway Configuration File

### Introduction

The iNews MOS Gateway must be configured with information about IPMOSGateway that will connect to it. This is done by editing the iNews MOS Gateway configuration file, which is installed on the MOS Gateway Server.

The configuration file, which is named mosconfig.xml, is placed, by default, in the following location: C:\Program Files\Avid\MOSGateway.

While MOS Gateway is running, the configuration file is locked. Before editing the configuration file, ensure that the iNews MOS Gateway is stopped.

The configuration file can be edited in an editor that can process Unicode files, for example Windows Notepad.

The the selection of the iNews MOS Gateway configuration file contains device-specific configurations. It contains one or more <mosDevice> elements. The <mosDevice> element contains configuration settings that are specific to a particular MOS device.

### Parameters

#### <Names> Group

In the <Names> group you have to enter the following information:

Element	Information				
<mos></mos>	The MOS ID of IPMOSGateway. By default, this is 'EVS MOS'.				
<amcp></amcp>	The name assigned to IPMOSGateway in iNews. It is the same name that appears in the SYSTEM.MOS-MAP story located in the iNEWS database.				
<network></network>	The network name of the server that hosts IPMOSGateway.				

#### <roChannels> Group

In the <roChannels> group you have to map the names of iNEWS channels used to the channel names accepted by IPMOSGateway. The following information has to be entered:

Element	Information
<inewschannel></inewschannel>	Name assigned to a channel in iNews.
<mosdevchannel></mosdevchannel>	Channel name accepted by IPMOSGateway.

#### <handlesEmptyStories> Group

Set the <handlesEmptyStories>YES/NO</handlesEmptyStories> group to YES, to send empty stories to see virtual elements in the IPDirector playlist.

#### <handlesRoStoryMoveMultiple> Group

Set the <handlesRoStoryMoveMultiple>YESNO</handlesRoStoryMoveMultiple> group to NO.

#### <handlesRoltemLevelCommands> Group

Set the <handlesRoltemLevelCommands>YESNO</handlesRoltemLevelCommands> group to NO.

#### <prependPageNumber> Group

Set the <prependPageNumber>YESNO</prependPageNumber> group to YES. The iNEWS story's page number is prepended to the story slug.

#### <prependSeparator> Group

Enter a character used to separate the story slug and the page number. The default is a hyphen.

#### <prependStringForEmptyPageNumber> Group

Enter the character string which is used in place of an empty page number. The default is 'NO PAGE'.



#### <sendRoCreateOnStartLoad> Group

Set the <sendRoCreateOnStartLoad>YESNO</sendRoCreateOnStartLoad> group to NO.

#### <handlesSpecMosReqAll> Group

Set the <handlesSpecMosReqAll>YESNO</handlesSpecMosReqAll> group to YES.

#### <ignoreltemStatusInRoAck> Group

Set the <ignoreltemStatusInRoAck>YESNO</ignoreltemStatusInRoAck> group to NO.

#### <handlesRoListAll28> Group

Set the <handlesRoListAll28>YESNO</handlesRoListAll28> group to NO.

#### <handlesRoStorySendNSMLX> Group

Set the <handlesRoStorySendNSMLX>YESNO</handlesRoStorySendNSMLX> group to NO.

#### <retryTimeout> Group

Set the <retryTimeout> group to '0'.

#### <statusTranslations> Group

The iNews Server expects one of ten event status codes to be returned as the status of a MOS item. Since the MOS Protocol specifies a string as the status of a MOS item in the roltemStat MOS command, MOS Gateway must map these strings to the iNEWS event status codes.

Furthermore, IPMOSGateway uses different strings to mean the same concept. The <statusTranslations> group specifies which string to map to each event status code.

iNews Event Status Code	IPMOSGateway Event Status Code
<statusunknown></statusunknown>	UNKNOWN
<statusunavailable></statusunavailable>	NOT READY
<statusunavailable></statusunavailable>	DELETED
<statusavailable></statusavailable>	READY
<statusavailable></statusavailable>	NEW
<statuscued></statuscued>	CUED

iNews Event Status Code	IPMOSGateway Event Status Code
<statusplaying></statusplaying>	PLAY
<statuspaused></statuspaused>	PAUSE
<statusstopped></statusstopped>	STOP
<statustensionreleased></statustensionreleased>	-
<statusplayrequested></statusplayrequested>	-
<statusrewinding></statusrewinding>	-
<statustranslations></statustranslations>	-

## 4.3.2. Adding IPMOSGateway to System.MAP

When an entry is made of a particular show in the system.map story, the IPMOSGateway has to be added to the list of production devices.

[INE	#S]SYSTEM.MAP.MCS-D	river-Ma							×
	TEST	<b></b>	SLUG	CREATED	MODIFIED	BY	TIME	STATUS	
E	SYSTEM		MCS-Driver-Map	01/08/1997 15:41:42	26/09/2012 12:48:22	avstar	0:32	READY	
	ACCOUNT								
	- 🗇 DBLINES		SLUG	CREATED	MODIFIED	BY	TIME	STATUS	
	🕀 🛅 DIALOGS		MCS-Driver-Map	01/08/1997 15:41:42	26/09/2012 12:48:22	avstar	0:32	READY	
	EXTRAS								
	FOOTERS		show.mosgwe	- 1815					
	E C FORMS		mossvr mosgw						
	FIS CROUPS		mos evs update -						
	HEADERS		, show sky 0000 rundown	show sky avants NNNN	1815				
			mossyr mosaw	311049.3107.0701113.0000	1013				
	E C KEYBOARDS		mos evs update -						
	🕀 🧰 MAIL								
	MAP		show.sky.0100.rundown	show.sky.events.0100	1915				
	THI MESSAGE	الے ا	mossvr mosgw						=1
			mos eus undate -						

The following information has to be added:

- type of production device = mos
- name of the production device = name that corresponds to the value entered in mosconfig.xml file in the <amcp> tag.
- update = whether the monitor updates the playlist of IPMOSGateway.

## 4.3.3. Adding IPMOSGateway to the SYSTEM.MOS-MAP Story

The iNEWS system must associate the MOS ID of IPMOSGateway with an iNEWS device name. This is because machine control commands in a story must be associated with an iNEWS device name, so the monitor server can load them to IPMOSGateway. The iNEWS Workstation uses the association to create machine control commands from MOS items that it receives from IPMOSBrowser associated with IPMOSGateway.

The iNEWS system administrator creates the association by creating a table in the SYSTEM.MOS-MAP story, located in the System directory of the iNEWS database.



[INEWS]SYSTEM.MOS-MAP.MOS-	MA	P					×
E INEWS		SLUG	CREATED	MODIFIED	BY	TIME	STATUS
*HELP		MOS-MAP	20/09/2001 16:23:44	25/10/2010 15:58:52	avstar	0:05	ОК
ARCHIVE						1	
ASSIGN							
		SUIG		MODIEIED	BV	TIME	STATUS
SCHEDULES		MORMAR				0.05	
E Chicolocus		IMOS-MAP	20/09/2001 16:23:44	25/10/2010 15:56:52	avstar	10:05	JUK
		•					F
E C AVID		ShowActiveXI sunch = Ves					
CAPTURE		undateTiming = Yes					
E CLIENT		TABLE-START DeviceTable					
😟 💼 CONFIGURE		EVSMOS evs A	в с р				
- 👘 DBLINES		afxmos luci					
🗄 🛅 DIALOGS		MOSID MOSGWHOSTNAME	CH1 CH2 CH3				
EXTRAS		TABLE-END					
FOOTERS							
FORMS							
FTS							
GROUPS							
HEADERS							
MOR							
MESSAGE							
MOS-MAP							
PRINTERS	•						

The table contains at least two columns of names separated by white space. The first column is the MOS ID of IPMOSGateway, by default EVS MOS. This must match the name that appears for IPMOSGateway in the MOS Gateway configuration file between the <mos> and </mos> tags. See section "Editing iNews MOS Gateway Configuration File" on page 53.

The second column is an iNEWS device name, which can have no more than eight characters. This must match the name that appears for that device in the MOS Gateway configuration file between the <amcp> and </amcp> tags. See section "Editing iNews MOS Gateway Configuration File" on page 53.

All available channels for IPMOSGateway must be listed in additional columns on the line for IPMOSGateway.

## 4.4. Configuring for IPMOSGateway (Octopus Side)

## 4.4.1. Adding IPMOSGateway to Octopus

To add IPMOSGateway to Octopus, proceed as follows:

1. On the left menu, click Administrator > MOS > Devices.



2. In the Devices pane, click New.

A dialog box appears that allows you to add a new device to Octopus.



2 Device						
Lowres MOS objects Plac Basic Stories Run	ceholders objGroups Activations Plugins Other downs Prompting Status Channels					
mosID:	EVS.NJ.OCTO.MOS					
ncsID:	Octopus					
Version:	2.8					
	Disabled					
	Addresses					
	Address 1 out of 1					
	Media host: 192.168.142.128					
	Media port: 10540					
	Rundown host: 192.168.142.128					
	Rundown port: 10541					
	New Delete Previous Next					
Octopus media port:	10540					
Octopus rundown port:	10541					
Octopus IP address:	192.168.142.130					
Response timeout:	60					
Response timeout for mosListAll:	120					
Final response timeout: 0						
Interval between heartbeats:	10					
	OK Cancel					

- 3. In the Basic tab, enter the following information:
  - IPMOSGateway MOS ID in the mosID field. By default 'EVS MOS'.
  - MOS protocol version in the Version field. By default, version 2.8.
  - IP address of the server that hosts IPMOSGateway in the **Media Host** and **Rundown Host** field.
- 4. In the Stories tab, select the following check boxes:
  - **Send empty story elements**: If selected, empty items are sent in rundown create messages.
  - **Send empty stories**: If selected, stories with no visible items are sent to IPMOSGateway.
  - Send inserts: If selected, a proprietary message is sent for commercial breaks.
  - **Use standard ed times**: If checked, Octopus uses standard MOS protocol meaning for itemEdStart and itemEdDur, otherwise the meaning is proprietary.

Ω Device						
Lowres Basic	MOS objects Stories	Placeholders Rundowns	objGroups Prompting	Activations     Status	Plugins Other Channels	
	_ "					
		Send MOS objects	that belong to oth	erdevices		
	<b>•</b> 5	Bend empty story e	lements			
		Send empty stories	;			
		Send skipped stori	es			
		Send MANUAL iten	nTrigger			
	□ 8	Bend subitems				
	□ :	Send QuickCG				
	Send inserts					
	🔽 Send inserts as MOS objects					
	Send production requirements					
		Gend alternative te	ds			
		Send assets				
	<b>V</b>	Jse standard ed til	nes			
			-			
		ОК	Cancel			

- 5. In the Status tab, do the following:
  - Select the Accepts on-air status check box. If selected, Octopus accepts
     <roltemStat> message from IPMOSGateway.
  - Select the Accept status for slugs in not-ready rundowns check box. If selected, <roltemStat> is accepted even for stories in rundowns not marked as ready-for-air.
  - Add all possible values for roltemStat message into the first column by clicking the New button and then pressing F2 to edit the field. Clicking on the coloured squares allows selection of a background and text colour for slugs with this status to be displayed. The Octopus status column has three possible values None/OnAir/Cue. Press F2 to edit the field.



Ω Device				×
Lowres MOS objects Basic Stories	Placeholders Rundowns	objGroups Prompting	Activations Plu Status	ugins Other Channels
Accepts on-	an status			
I_ Sets hit time	to time of the fir	'st status in sto	ry	
Accept statu	s for slugs in no	t-ready rundow	ms	
NOT READY	None			
PLAY	On ai		New	1
CUED	Cue		New	-
READY	None		Move up	
			Move down	
			Delete	
		_		
	OK	Cance	el	

- 6. In the MOS Objects tab, select the following check boxes:
  - Supports mosListAll: If selected, this will allow IPMOSGateway to send MOS object descriptions in a format similar to mosObj messages from the MOS to the NCS.
  - **Display name instead of jobID**: Proprietary settings.

In the MOS object deletion delay(s) field, enter '10'.

ΩDevice	<u></u>
Basic Stories Rundowns Lowres MOS objects Placeholders	Prompting Status Channels objGroups Activations Plugins Other
	Update private objects
	C Allow mositemReplace
	Device is target of redirection
	Translate redirected IDs
	Supports mosListAll
	Delete lowres files when MOS object is deleted
	☑ Display name instead of jobID
	C Out-point is inclusive in timecodes
	🗖 objDur is in frames
	🗖 Default objAir is READY
MOS object deletion delay [s]:	: 10
Device type (used for description extraction):	(none)
XPath to extract description:	
Send mosExternalMetadata of MOS objects:	OBJECT
	PLAYLIST 💌
ОК	Cancel

- 7. In the Placeholders tab, do the following:
  - Select the **Allow MOS object creation** check box: If selected, the support for mosObjCreate message is set in the scripts.
  - In the Naming pattern of created MOS objects field, enter the automatic naming pattern for placeholders. By default, this is %CDAY%CMONTH-%NAME%-%ELABEL.

Ω Device	×
Basic Stories Rundowns Lowres MOS objects Placeholders	Prompting   Status   Channels   objGroups   Activations   Plugins   Other
	Allow MOS object creation
	Default MOS object creation device
	Allow automatic MOS object creation
Default duration of created MOS objects	3:
Naming pattern of created MOS objects	ST %CDAY%CMONTH%-%NAME%-%ELABEL
	Transcribe cyrillic to latin
ОК	Cancel

8. In the Activations tab, select the check box **Activate folders** to allow manual activation of stories in story folders.

Basic   Lowres	Stories MOS objects	Rundowns Placeholders	Prompting objGroups	Status Activations	Channels   Plugins   Othe
		Activate folders			
		OCTOPUS NEWS			
				Edit	
		ļ			
		OK	Cancel		



- 9. In the Other tab, select the following check boxes:
  - **Omit milliseconds when sending time**: If checked, milliseconds of timestamps are not sent by Octopus.
  - Send and receive time in UTC: Enables/disables UTC or local time.

Ω.Device	x
Basic Stories Rundowns Prompting Status Channels Lowres MOS objects Placeholders objGroups Activations Plugins Othe	r
Send octext_tags Send and receive messages in UTF8 Comit milliseconds when sending time	
C Omit timezone when sending time Log heartbeats Use roElementAction	
✓ Send and receive times in UTC	
OK Cancel	

10. Click **OK** to save your settings.

The dialog box closes. IPMOSGateway is added to the list of devices.

11. A restart of the MOS agent service is required after changing the configuration of a MOS device in the Octopus client.

## 4.4.2. Adding the IPMOSBrowser to Octopus

To add the IPMOSBrowser to Octopus, proceed as follows:

1. On the left menu, click Administrator > MOS > Devices.



2. In the Devices pane, double-click the entry you created for IPMOSGateway.

Devices					
	/	1	×	₩ <mark>8</mark>	5
New	Edit	Export	Delete	Content sync	Resend active rundowns
mosId					
EVSMOS					

3. Open the Plugins tab.



Ω Device									×
Basic Lowres	ľ	Stories   MOS objects	Rundowns Placeholders	Prompti objGroups	ing s	Status Activations	l Cha Plugins	annels Other	
		MOS	objects from plu	gins are priv	ate				
		🔽 Pass	user domain to	plugins					
						Add			
						Edit			
						Delete			
		,							
			ок	Ca	ncel				

- 4. Select the **Pass user domain to plugins** check box.
- 5. Click the Addbutton.

A dialog box appears that allows you to add the IPMOSBrowser.

👩 Plugin	<u>×</u>
Short name:	
Long name:	
Width:	
Height:	
Туре:	Player
Version:	1.0 ENPS
Placement:	Modal
	Stretch when inline
	Run in separate thread
	🗖 Run in native window
	Use <ncsappinfo></ncsappinfo>
	Show use
	🗖 Show close
Implementation:	
	In case of ActiveX enter GUID (in "{" and "}" parentheses) or ProgId
	OK Cancel

- 6. Enter the following information:
  - **Short name**: User preference (e.g. IP Director)
  - Long name: User preference (e.g. EVS IP Director Browser)
  - Width: Width of the IPMOSBrowser pane in Octopus. By default, 800.
  - **Height**: Height of the IPMOSBrowser pane in Octopus. By default, 600.

- 7. Select the following data in the following fields:
  - Type: Browser
  - Version: 2.8
  - Placement: Horizontal split
- 8. Select the following check boxes:
  - Show use
  - Show case
- 9. In the **Implementation** field, enter the GUID of the IPMOSBrowser. By default, MOSBROWSERMFC.MosBrowserMFCCtrl.1.
- 10. Click OK.

## 4.4.3. Editing the MOSAgent.xml File

Edit the MOSAgent.xml file in the folder C: \octopus\services\MOSAgent and change the MOS ID to whatever MOS ID you configured in Octopus client.

<service>

- <id>OctopusMOSAgentService</id>
- <name>Octopus MOS Agent</name>
- <description>Octopus6 MOS Agent</description>
- <mainClass>octopus.agents.mosagent.Main</mainClass>
- <javaArguments>-Xms128m -Xmx400m -XX:MinHeapFreeRatio=10 -Djava.class.path=MOSAgent.jar</javaArguments>
- <arguments>O6SERVER EVS.NJ.OCTO.MOS octopus</arguments>
- <javaHome>C:\Java\jre6</javaHome>

</service>

Restart the MOSAgent service and devices should be connected. Logs of the MOSAgent can be found in C:\octopus\services\mosagent\log\<date>.


# 4.5. Configuring for IPMOSGateway (Dalet Side)

## 4.5.1. Creating the IPMOSGateway Host

To create the IPMOSGateway host, proceed as follows:

1. In the DaletPlus Admin module, open the Site Configuration branch and select Inventory.

🛷 DaletPlus Admin [on RTBF-DA	LETTEST]	미지
Eile Help		
<ul> <li>DaletPlus Administration</li> <li>Folder Management</li> <li>Sign Ingest</li> </ul>	Inventory	
Windle Asset Management     Media Format Management     Modia Format Management     Modia Format Management     Modia Format Management     Modia Format Management	Hosts DB Domains Registered Types Application Servers Device Controllers	
<ul> <li>Image: Book of the second seco</li></ul>	Search Host >> X 2 GL & 2	
<ul> <li>Resource Management</li> <li>Scheduling</li> <li>Site Configuration</li> <li>→ AuditTrail</li> <li>→ Dashboard</li> </ul>	BEMSGE CLIENT15 RTBF-DALETTEST	
- [6] General - [3] Inventory - [3] JMS B-12 Sports Factory B-13 Storage Management		
<ul> <li>➡ Titles Management</li> <li>➡ ➡ Transfer Sessions</li> <li>➡ ➡ ① User Management     </li> </ul>	Add all the hosts on which a Dalet Server or client application is to be installed.	
Ready		

- 2. Open the Host tab.
- 3. Click the hammer icon  $\nearrow$  to create a new host.
- 4. Enter the name of the machine that hosts IPMOSGateway, and then click OK.

New Host			×
Name:			
	OK	Cancel	

## 4.5.2. Defining a Title Type and Target Category

To define a title type and target category for IPMOSGateway, proceed as follows:

1. In the DaletPlus Admin module, open the Mos Admin branch and select Mos Device Types.

The Mos Device Types screen contains all device types that Integration Gateway supports.

DaletPlus Admin [on RTBF-DALETTEST]					-OX
Elle Elep Media Format Management CG Options Mos Devices Music Rotation Non-Inear Editors	Mos Device Typ	)es	;	▼ × @	
Image: Chair Admin       Image: C	Provider Name Aston AutoCue Bechive WASP3D BIS-SGI Cavena Chyron CAMIO ENPS EVS EVS [IP] Director MBT Vart CG MOS DaletPlus14	Name Aston AutoCue Bechive WASP3D BIS-SGI Cavena Chyron CAMI0 ENPS EVS EVS EVS [IP] Director MBT C+Vurt CG MOS DaletPlus14	Protocol Version 2.6 2.6 2.8.2 2.8.5 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	×	
Ready					NUM ///

2. Select the EVS device type from the list and click 📓 to view the properties.



Device Type Properties		×		
General				
,				
Name:	EVS			
Provider Name:	EVS			
Protocol Version:	2.8.2			
Operation Mode:	Studio Device			
Role:	Video			
Support MOS Protocol:	Support MOS protocol			
MOS Device Type Mod	e	- II		
Identify MOS Objects by	: • reference · value			
(*) click on the radio but	ton to see description on the selected mode			
Object Type Configurati	on			
i itie types and categori	es for this device type:			
Object Type Title Ty	Fype Title Type Category			
tooprype Not Co	ntigured Not Configured			
Per default all stories an	d story templates are always sent from Dalet			
MOS NCS to the connected MOS devices. Select the ones here that				
shall be excluded:				
OnCamera				
	<b>•</b>			
	OK Cance			

In the Object Type Configuration area, select the record in the grid and click and click for the Device Type Title Configuration dialog box appears.

Device Type Title Configuration	×
When receiving objects of type objType from this MOS device type:	
- Create titles with this title type:	
- In the following default category(*):	
(*) Default category can be overridden in the specific device configuration	
OK Cano	el

4. Click next to the **Create Titles with This Title Type** field. The Title Type Properties dialog box appears.

Title type properties	:
Name: EVS	
Description: EVS	
lcon: 🛇	
Allow editing of object timing (Duration/Offset)	
Method of importing MOS objects into Dalet+: C Drag and drop into Dalet+ Story. C Events from MOS ActiveX.	
Mos ActiveX Settings:	
Title Creation ActiveX Prog Ids:	
Title Editing/Viewing ActiveX Prog Ids:	
Settings:	
Open A document	
OK Cancel	

- 5. In the Title Editing/Viewing ActiveX Prog Ids field enter the name of the IPMOSBrowser: 'ACTMOS.ActMOSObjCtrl.1'.
- 6. Click OK.
- 7. Click next to the In the following default category (\*) field.

The Category Selection dialog box appears.

Category selection	×
Select a category:	
🗉 🖉 CATEGORIES	
New category	
<u>O</u> K <u>C</u> ance	

- 8. Click the New Category button.
- 9. Enter a name for the new category and click **OK**, for example 'EVS'.

New Catego	ory		X
Name:			
		ОК	Cancel

In the Device Type Title Configuration dialog box the selected title type and default category appear.



Device Type Title Configuration	×	
When receiving objects of type objType from this MOS device type:		
- Create titles with this title type:		
<b>IVS</b>		
- In the following default category(*):		
CATEGORIES/EVS		
(*) Default category can be overridden in the specific device configuration		
OK Cancel		

10. Click **OK**.

## 4.5.3. Creating an Instance of IPMOSGateway

If you want to create an instance of IPMOSGateway, you have to configure the instance of IPMOSGateway in order to ensure its functionality. This is done in the MOS Device section.

To create an instance of the IPMOSGateway, proceed as follows:

1. In the DaletPlus Admin module, open the MOS Admin branch and select Mos Devices.

The Mos Devices screen appears.

2. Select the 'EVS [IP] Director' device from the drop-down list.

Mo	os Devices		
	EVS [IP] Director	Ŧ	🏷 🗙 🖄
	All Aston		
	AutoCue Beehive WASP3D		
	BIS-SGI C+ Vizit CG MOS		
	Cavena Chyron CAMIO DaletPlus14		
	Dayport Video ENPS		
	ENPS Archive EVS EVS [IP] Director		
	Gilda iNove Archivo		
	Inscriber MOS MBT		

3. Click the hammer icon → to create a new device instance. The following dialog box appears:



EVS [IP] Director Configuration
MOS ID: Icon: 🔛
Description:
Device Type: EVS [IP] Director
Host:
Synchronize Objects
Send the text of stories to the MOS device (using the roStorySend message)
Listen to (Mos Device / Ncs) on
Low port (MOM): 10540 High port (RO): 10541
Title type and category When DaletPlus receive a new mosObj, it will match it by
ItemCode for the following title type: Video
If the object does not match with any existing ItemCode, then create a title (of the type above) under this category:
CATEGORIES/EVS
┌ Delete option
When a Dalet title associated to a mosObj is deleted from Dalet, send a mosReqObjAction (action = "DELETE") to EVS
When EVS sends a mosObj (with status = "DELETED"):
<ul> <li>Do not delete Dalet's title, only remove the mosObj associated to it.</li> <li>Delete Dalet's title.</li> </ul>
Additional Settings
Requires preloading by the broadcast server. (Check this box if this device requires a rundown to be loaded before it goes on air)
OK Cancel Apply

- 4. Enter the MOS ID of IPMOSGateway, by default 'IPD.EVS.MOS', and select the name of the machine that hosts IPMOSGateway. (Optional) Enter a description.
- 5. In the **Low Port (MOM)** field, enter the TCP/IP port on which the NCS will accept connections from MOS devices. The default port number is '10540'.
- 6. In the **High port (RO)** field, enter the TCP/IP port on which MOS will accept connections from the NCS. The default port number is '10541'.
- 7. Click **Apply** and then **OK**.

### 4.5.4. Assigning IPMOSGateway to a Studio

In order to use IPMOSGateway for playout, it must be assigned to a Studio. To do this, proceed as follows:

- 1. In the DaletPlus Admin module, open the Scheduling branch and select Studio.
- 2. Open the External Devices tab.
- 3. Move the respective device from the available grid (left) to the assigned grid (right) using the right arrow button.

🥢 DaletPlus Admin [on RTBF-DALETTEST		
Eile Help		
DaletPlus Administration	Shudia	
🖅 🔚 Folder Management	Siudio	
⊞		
🕀 🏭 Media Asset Management		
🕀 🚟 Media Format Management		araku 👘 🗙 🐨 🔛 🛛
E Mos Admin		don
CG Options	Name Type	
Mos Device Types	Studio1 Playout	
Mos Devices		
H Music Rotation		
H- Non-linear Editors		
E Profile Management	General Schedule Channels Carts Chann	nels Devices Connections Connections Summary
H-Sa Resource Management	External Devices Mcs CG Uption	ns   Close Caption (CC) options   Advanced options
A Artillying	External Devices	
Croup Diabte	Available external devices	Assigned external devices:
	Name	Name
Pundown Views		>>> EVS
(1) Show Time Tracking		
Stations		<<
- Studio		
User Binhts		
FI- 100 Site Configuration		
Sports Factory		
🖃 🚍 Storage Management		
A Media Allocation Policies		
Placeholder creation policies		
- E Storage Unit Definitions		
- 🚧 Unreferenced Media 📃		
🥒 🖉 Verify Media Properties		
🖃 🌇 Titles Management		
- Z Distribution		Apply Cancel
General 🗸		
Ready		NUM

4. Click the **Apply** button.



## 4.6. Configuring for IPMOSGateway (Open Media Side)

## 4.6.1. OMIS (MOS) Configuration

The OMIS console allows you to change the configuration of the OpenMedia MOS gateway.

Double-click the OMIS icon on the desktop of the Open Media server.



Log into the OpenMedia server.

Connect t	o OpenMedia Server	X
	This operation cannot be completed without connecting to OpenMedia.	
Server:		
User:		
Passwor	rd:	
	OK Cancel	

The OMIS configuration tree consists of two branches, one for the plugin configurations and one for the services.



The services branch allows you to start and stop OMIS services directly from the console.

The plugin configuration branch allows you to change the properties of a plugin, especially the MOS plugin.

There are three preconfigured MOS plugins depending on the type of integration; video, audio or graphic. The default integration is the video type, for other types you have to exchange the active plugin in the OMIS MOS service.



To change the values of the MOS plugin, you have to stop the OMIS MOS service running respective plugin first. Then open the properties of the plugin from the context menu.

Elle       Action       View       Favorites       Window       Help         ←       →       €       III       Elle       IIII       Elle       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	🚡 OMIS - [Console Root\OpenMedia Inte	rface Service (ON	MIS)\OMIS Plugin Ty	pes\MOSDummyDrive	er.Du 💶 🗙
← →     €     III     IIII       Console Root     Service Display Name     Computer     Active	🚡 Eile Action View Favorites Window	w <u>H</u> elp			_ & ×
Console Root Service Display Name Computer Active					
📩 🕅 OpenMedia Interface Service (OMIS)	Console Root	[	Service Display Name	Computer	Active
The service (OPRIS) Service (OPRIS) Service (OPRIS)	🖻 🐞 OpenMedia Interface Service (OMIS)		👷 News Wire-Open	OMDEMO	Yes
CMIS Plugin Types	OMIS Plugin Types				
MOSDummyDriver.1	MOSDummyDriver.DummyDriver	·.1			
MOS Properties	MOS Properties				
MOS ( Create Copy of Configuration	MOS Create Copy of Co	N figuration			
	⊕ 🖑 WBLinenu Create OMIS servi	ice association			
Delete Configuration	E OMIS Service	ion			
Opens property sheet for I Refresh	Opens property sheet for I Refresh				
View +	View	+			
New <u>W</u> indow from Here	New <u>W</u> indow from	Here			
New Taskpad View	New Taskpad View	,			
Export List	Export List				
Help	Help				

The dialog offers some property pages to configure the OpenMedia MOS gateway. Open the MOS Device tab. Here, you will find the relevant settings to configure IPMOSGateway, especially the MOS ID and the ports to use.

After making the necessary changes to the configuration, you can re-start the OMIS MOS service.



IOSDUMMYDRI¥ER Properties	
OpenMedia -> MOS   MOS -> Ope MEM mosObj   MEM mosObjCreate MEM Rundown   MOS StoryS General   On/Off Air   Monitoring   Comma General MOSID: EVSMOS Hostname: 172.23.1.105	enMedia MOS Field Mappings MEM Item MEM Story Send R0 ReqStoryAction and Fields MOS Protocol MOS Device Ports Local MOM port: 10540 Bemote MOM port: 10540
ROClient Connection Status Display-	Local RO port: 10541 Remote RO port: 10541
Playout Recovery Timeout (seconds, min Playout Recovery Max. Rundowns (min. Emergeny Playlist File Export Directory (A	1): 1 veco)
Use Non-Standard Input Identifier	
Rundown Timeout after last MOS Message Template Timeout Rundown 24	; (in hours):
OK Car	ncel <u>A</u> pply Help

## 4.7. Configuring IPDirector

## 4.7.1. Preparing the IPDirector API

#### Starting an IP API Service on IPDirector

To start an IP API Service on IPDirector, proceed as follows:

 Open the IPDirector Remote Installer and start the IP API Service on at least one IP Director.

s <sup>‡</sup> s Remote Installer - 06.10.90	
File Tools Restart All Remote Installer Refresh Open IP Browse Configurator	
- WorkGroup : AAPM Staging (Machine)	art all Programs Stop all Running Programs Install Version Configure Launch Plugin Wrong DB version on 127.0.0.1
TJPDA18280 (172.2318.44)           IPDA18280 (172.2318.44)           IPDA10400         Stretector 05.08.60         IPDetector 05.08.60         IPDetector 05.08.60         IPDetector 05.08.60         IPDetector 05.08.60           SN: 182360         SN: 182360         IPDetector         IPDetector         IPDetector         IPDetector         05.08.60         IPDetector	Summary IPD Roding has 3 physical connections (AVHRS 422.2, AVHRS 422.3, AVHRS 422.4) Spechcol B in Restricted Stand Adver Mode, It is managing 1 XT (115370) VTR Explose is managing 1 VTR (VTR1) IP Drive - Excluded drives are : A.B.C.R v18.99.22
- WorkGroup : API Development (1 Machine)	art all Programs Stop all Running Programs Install Version Configure Launch Flugin Database : 127.0.0.1 - Media
2 1_IPD66940 (172.23.20.2) [API DEV]	Summary IPD-Rouling has 2 physical connections (AVH-RS422-1, AVH-RS422-2)
IPD-Routing         SynchroDB         IP-Director         IP-Scheduler         VTR Engine         IP Drive           06.10.90         06.10.90         06.10.90         06.10.90         06.10.90         06.10.90         06.10.90	IP API SynchroDB is in Network Mode. 06:10:30 VTR Engine is managing DVTR
SN : 66940	IP Drive - Excluded drives are : A.B.C.D.E.F.G.H.J.J.K.L.M.N.O.P.Q.R.S.T.U.V.W.X.Y.Z vols.10.90
- WorkGroup : Bein_staging (1 Machine) Star	art all Programs Stop all Running Programs Install Version Configure Launch Plugin Wrong DB version on 127.0.0.1
31_IPDA001360 (172.23.18.160) [Bt_Tower]	Summary IPD-Routing has 0 physical connection
IPD-Routing         SynchroDB         IP-Director         IP-Scheduler         VTR Engine         IP Drive           05.99.42         05.99.42         05.99.42         05.99.42         05.99.42         05.99.42         05.99.42	IP API SynchroDB is in None Mode. It is managing none XT 05.93.42 VTR Engine is managing 0 VTR
SN : 1360	IP Drive - Excluded drives are : A,B,C,R v 05.99.22

2. Set the service to Auto Start to be sure that the service will always be available.

le Tools Restart All Remote Installer Refresh Open IP Browse Configurator					
WorkGroup : AAPM_Staging (1 Machine)	Start all Programs	s Stop all Running Programs	Install Version Configure	Launch Plugin	Wrong D8 version on 127.0.
D 1_IPDA182360 (172.23.18.44)		Summary IPD Positive has 2 shuries a	anneations (A) (U DS 422.2, A) (U DS	22.2 4144 BC422.40	
IPD-Routing SynchroDB IP-Director IP-Schedulet VTR Engine IP 06.08.60 05.08.60 06.08.60 06.08.60 06.08.60 06.08.60 06	Drive IP API	SynchroDB is in Restricted S	tand Alone Mode. It is managing 1 ×1	(115370)	
N : 182360		IP Drive - Excluded drives an	5: A,B,C,R		
WorkGroup : API Development (1 Machine)	Start all Programs	s Stop all Running Programs	Install Version Configure	Launch Plugin	Database - 127.0.01 - Me
					Dulubuse. TET.0.01 THE
1_IPD66940 (172.23.20.2) [API DEV]		Summary IPD-Routing has 2 physical of	onnections (AVH-RS422-1, AVH-RS4	22-2)	Cuddase. Far. d. e. F. me
1_JPD66940 (17223.20.2) [API DEV]     JPD66940 (17223.20.2) [PD0exter]     Transformer UTR Engine     IPD Restrict UTR Engine     IPD Restrict UTR Engine     IPD Restrict UTR Engine     IPD Restrict UTR Engine	Drive IP AP	Summary IPD-Routing has 2 physical of Kill etwork Mo	onnections (AVH-RS422-1, AVH-RS4 de.	22-2)	
1_PD66930 (172.23.20.2)         [API DEV]           IPD-Roung 06.10.30         5510400         IPD0extor 06.10.30         TTR Engine 06.10.30         IPD0extor 06.10.30	P Drive 6.10.90	Summary IPD-Routing has 2 physical of Kill naging 0 V Stop d drives an	onnections (AVH-RS422-1, AVH-RS4 de. TR =: A B C D E F G H I J K L M N D P C	22-2) IRS.TUVWXYZ	
1.1906540(172.23.20.2)         (API DEV)           IPD Round 06.10.90         Synthmode 06.10.90         IPD Dector 06.10.90         Synthmode 06.10.90         IPD Dector 06.10.90           N1.55540         5540         IPD Round 06.10.90         IPD Round 06.10.90         IPD Round 06.10.90	Drive IP AP 6.10.90 06.10	Summary IPD-Routing has 2 physical of Kill naging 0 V Stop d drives an View Config	onnections (AVH-RS422-1, AVH-RS4 de. TR = : A.B.C.D.E.F.G.H.J.J.K.L.M.N.O.P.(	22-2) IRSTUVWXYZ	v(
1_1P065440(172.23.20.2)         [APH DEV]           IBD-Rawing 06:10.90         1_P00extor 06:10.90         1_P00extor 06:10.90         1_P00extor 06:10.90           NN: 65940         1_P00extor         1_P00extor 06:10.90         1_P00extor 06:10.90         1_P00extor 06:10.90	P Drive IP AP 6 10.90 06 10	Summary IPD-Routing has 2 physical of Kill naging DV Stop d drives an View Config Monitor	onnections (AVH-RS422-1, AVH-RS4 de. TR e : A.B.C.D.E.F.G.H.J.J.K.L.M.N.O.P.C	22-2) LR.S.T.J.V.W.X.Y.Z	V
LiPORAVNO LiPORAVNO Kinaso Marinaso	P Drive 6.10.90 Btart all Pro	IPD-Routing has 2 physical for Kill nagang 0 V Stop didives an View Config Monitor Advanced Monitor ograms	annections (AVHRS422-1, AVHRS4 de TR e: A.B.C.D.E.F.G.H.J.J.K.L.M.N.O.P.( Install Version) Configure	22-2) LR.S.T.U.V.W.X.Y.Z Launch Plugin	Wrong DB version on 127.0
1_10068400 (1722320.2)         [API DEV]           IB0 Rowing 05:10.90         05:10.90         05:10.90         VTR Engine 05:10.90         IP 05:10.90           WorkGroup : Bein_staging 01_P0A001300 (17222131560)         (1 Machine)         IP	P Drive 610.90 Start all Pro	Summuy IPD-Routing has 2 physical of Kill etwork Mo Stop drives an Vew Config Monitor ograms Advanced Monitor ograms	onnections (AVH RS422-1, AVH RS4 de TR = A B.C.D.E.F.G.H.J.J.K.L.M.N.O.P.C Install Version Configure	22-2) I.R.S.T.J.V.WXYZ Launch Plugin	Wrang DB version on 127.0
1_1P06840(1722320.2)         (API DEV)           IP06Roung         Symmetric         ISSUMD           ISSUMD         ISSUMD         ISSUMD	Dirive PDAY Start all Pro	Summary IPD-Routing has 2 physical c kill setwork Mo Stop address and Vew Config Monitor Advanced Monitor advanced Monitor TUP-Houting has 0 physical c Synchrob B in Nine Mode	ormections (AVH-RS422-1, AVH-RS4 de TR e : A.B.C.D.E.F.G.H.J.J.K.L.M.N.D.P.G Install Version Configure ormection Its managing one XT	22-2) I.R.S.T.J.V.WXYZ Launch Flugin	Wing D8 version on 127.0

#### Starting an IP API Proxy

An API Proxy can be used if you have one or two dedicated database servers and you want to use multiple APIs (for load balancing and fault-tolerance).

To start an IP API Proxy, proceed as follows:

- 1. Install the Remote Installer on each IPDirector database server.
- 2. Assign them the **API Proxy** mode.



5	IP-Director Storage	ICT III	IP-Director Storage
	API Proxy		

- 3. Deploy the IPDirector package on the IPDirector database servers.
- 4. Start the IP API Service and set it to Auto Start.

#### Checking the API Connection

To check the API connection, proceed as follows:

- 1. Start a web browser.
- Type the address http://ApiIPAddress:31016/IPWS where the API IPAddress is the IP address of the IPDirector where you have started your API or the IP address of the database server if you have installed a proxy (dedicated or virtual IP address).

🥖 IPWS_lmj	ol Service - Microsoft Internet Explorer provided by EVS	
<b>OO</b> -	http://10.11.11.207:31016/IPW5	~

You should get a web page similar to the following screenshot.

IPWS_Impl Service - Microsoft Internet Explorer provided by EVS	_ 🗆 🔼
🔄 🕞 💌 🙋 http://10.11.11.207/31016/IPWS	P -
ichier Edition Affichage Fazoris Ogblis <u>?</u>	
IPWS_IMPLService	
You have created a service.	
To test this service, you will need to create a client and use it to call the service. You can do this using the svcutil.exe tool from t command line with the following syntax:	he
svcutil.exe http://ipdirector74000:31016/IFWS?wsdl	
This will generate a configuration file and a code file that contains the client class. Add the two files to your client application and generated client class to call the Service. For example: C#	use the
class Test (	
<pre>iIPWS_VOICLient client = new iIFWS_VOICLient();</pre>	
<pre>// Use the 'client' variable to call operations on the service.</pre>	
// Always close the client.	
<pre>client.Close(); }</pre>	
Visual Basic	
Class Test Shared Sub Main() Dim Olicet as iIFWS_VOlClient = New iIFWS_VOlClient() ' Use the 'client' variable to call operations on the service.	
<pre>' Always close the client. client.Close()</pre>	
End Sub End Class	
	100%

## 4.7.2. Create a User for the IPMOSGateway

It is advised to consider adding a custom user to the IPDirector database to allow the IPMosGateway to log into the Web Service API with a limited user instance.

To create a user, proceed as follows:

1. Launch the IP-Director User Manager.

The login window is opened.

Login		×
Login :		
Password :		
	Ok	Cancel

- Enter the administrator login and password. Then click OK.
   The main interface of IP-Director User Manager opens.
- 3. In the Users menu select New.

The 'Select user profile(s)' window is opened.

Select user profile(s)			×
Available profiles		C Selected profiles	]
	>		
	<		
		Clear selection	
Select a settings profile			
None None	· · · · · · · · · · · · · · · · · · ·		
		Ok	Cancel

4. Use the < button to remove the profiles from the selected list. Click **OK** when you're done.

The Create a New User window opens.



- 5. Enter a login and a password for the new user. Confirm the password.
- 6. Click Save.
- 7. Open the Channels tab.
- 8. In the Visibility group box of the Players area, select **Selection** and then select the channels used for playout.

Create a new User			E
Create a new User			
User Information Group Membership Media Managen	ent Channels Clips, Bins and Play-lists Logging And Keyword	Is Targets and Restore Layouts Limitations Settings Shortcuts 1	Metadata Server Management
Define which resources the user can control and a Make sure all SunchroDB applications a	ee esponsible for managing XT servers on the Xpet network a	re running in order to define the channels inhits	
Recorders		Players	
Control			(Visbility-
None	None	None	None
<ul> <li>Selection</li> </ul>	Selection	Selection     Grky XT channel(s) linked to the     IP Director workstation	Selection     Only XT channel(s) linked to the     IP Director work station
■ ■ an 0.241 in24 = ■ = 665 = 665 = 6662	B T T DUAT HAA	та от от от 241 иеза. на со от 241 иеза. Ром1 на со от 241 иеза. Ром2 на со от 241 иеза. Ром2	
	Save	Cancel	

9. Click the **Save** button.

10. Open the Clip, Bins and Playlists (Timeline) tab and do the following:

- In the Clips group box, select the check box Visibility All.
- In the Bins group box, select the check boxes **Modify All** and **Visibility All**.
- In the Edits group box, select the check boxes Create, Modify Group(s), Delete Group(s), Publish Group(s) and Visibility All.

 In the Playlist group box, select the check boxes Create, Modify Group(s), Delete Group(s), Move Group(s), Publish Group(s) and Visibility All.

ate a new User															
reate a ne	wUse	ər													
er Information Gr	oup Mem	ibership 🗍 Media M	anagement	Channels Clips, Bins a	and Play-lists Logging An	d Keyword	Is Targets and R	estore Lay	outs Limitati	ons Settings Sho	touts Metadata	Server	fanagement		
Define all act	ions the i	useris allowed to p	perform for ea	ch type of elements :							_ Timeline —				
<u>All :</u>		the user can dele	ste/modify/	an element whoever is th	he owner of this element.						Create				
Group	u(s) :	the user can only	y delete/modi	ly/ an element created	by a member of the group	(s) he belo	ings to.					All	Group(s)	User	None
<u>User</u> :		the user can only	/ delete/modil	y/ an element he has o	created.						Modify				<b>V</b>
None		the user can not	delete/modify	V an element.							Delete				<b>V</b>
											Publish				<b>•</b>
											Visibility				<b>•</b>
Clips					ſ <sup>Bins</sup> ───						C Playlist				
Create					Create						Create	<b>V</b>			
						All	Group(s)	User	None		Import				
Send to					Modify	<b>~</b>	-	-			End Cue				
					Delete		-		<b>~</b>			All	Group(s)	llser	None
	All	Group(s)	User	None	Publish				<b>×</b>		Modify		<b>V</b>		-
Modify					Visibility	<b>~</b>					Delete		 ⊻		
Delete											Move		<b>~</b>		
Delete Clip e		playlist or timeline									Publish		<b>Z</b>		
					CAB Roll Pla	ylist ——					Visibility	<b>V</b>			
Publish					Configure C	hannels					Export				<b>V</b>
Visibility	<b>×</b>	•	•		Control Cha	nnels									
					Save				Cancel						
					3070				541061						

11. Click the Save button.

### 4.7.3. Playlist Custom Fields

#### **Defining Playlist Custom Fields**

The following 6 playlist custom fields should be defined in the IPDirector Remote Installer to allow for better rundown metadata to be visible to the playout user:

- Header 1: Segment (for ENPS) or Page Code (for iNews)
- Header 2: StorySlug
- Header 3: ItemSlug
- Header 4: ObjectSlug
- Header 5: StoryID
- Header 6: ItemID



Edit WorkGroup 'api d	evelopme	ıt' General Param	ieters							
🎇 XML Unit 😰 Thumb	nails Targe	ts IP Logger Export	Near Line Management	Lo-Res Management	Define varID groups	As will run log	Playlist	Redundancy	IP-API	Dire 🔹 🕨
ABRo	Recu	e mode								
	Automatically recue elements when a modification is done in the rundown									
	If checked, when a modification is done in the rundown in between the elements CUED, the system will automatically recalculate the channel assigned to the next elements in the rundown and RECUE them in order to keep the playout order in symc with the rundown.									
	If not checket, any modification in the rundown will have no impact on the CUED lines.									
Playlis	t custor	n fields								
Defi										
The				aces of all IP Dire						
He		Segment				_				
He		StorySlug								
He		ItemSlug								
На	ader 4	ObjectSlug								
		ObjectSlug								
He		StoryID								
He		ltemID								
				Save Ca	ancel A	pply				

## Adding Playlist Custom Fields to (AB Roll) Playlist Panel

To add the playlist custom fields to the Playlist or the AB Roll Playlist Panel in IPDirector, proceed as follows:

- 1. Open the Playlist Panel or the AB Roll Playlist Panel.
- 2. Right-click the Playlist Panel or the AB Roll Playlist Panel and select the option **Organize**.



3. Select the playlist custom fields you have defined in the IPDirector Remote Installer, and then click **OK** 

Afterwards, right click and choose to Save Grid Organization to retain the defined columns for new instances of the window opened in the future.

0	rganize			×	t
	Name	Visible			
	TC OUT	<b>V</b>			
	Clip Elements				
	Audio Effect				
	Audio Effect Duration			II.	
	Audio Level				
	Segment				
	StorySlug				
	ItemSlug	<b>V</b>			
	ObjectSlug				
	CustomField5				
	CustomField6				
	Lsm ID				
	On-Air Date				
	Source				
	Speed				
	Split Audio				
	Ctill/Ctart Mada				
	OK Cance	el 📃	Default		

The custom fields will now be visible in the Playlist Panel or in the AB Roll Playlist Panel. IPMOSGateway will update the content of these fields with the information coming from the Running Order in the NCS.

## 4.7.4. (Optional) Creating an IPMOSGateway Bin

In the IPDirector Database Explorer, under the Bins Node, create an IPMOSGateway Directory. This directory will hold all the playlists and edits originating from IPMOSGateway. In this directory you can create three bins:

- Main: for all the playlists created on the main playout XT server.
- Backup: for all the playlists created on the backup playout XT server.
- Edits: for all the edits.



Database Explorer - Clips									
📳 View 🗸 😃 🛛 Browse - Play - Auto-Play   Photo   🔗   Tools 🗸   Assign									
Clips 0 CCF#									
Playlists     SGC									
Timelines	Name	Clip Elements	VarID 🔺	Status	Profile				
Edits Bins	<ul> <li>test_rvz_999</li> </ul>		#,G8KPjq		SGE Profile				
🕨 🚺 Users Bin	LVO 184343TH S-GOAL-LINE-ENGLAND		LVO 184343TH S-GOAL-LINE-ENGL		SGE Profile				
IP2Archive     IP1/05C-true	LVO SUBCLIP		LVO SUBCLIP		SGE Profile				
<ul> <li>IPMOSGateway</li> <li>01_Main</li> <li>02_Backup</li> </ul>	SGE NTSC 01		SGE_NTSC_01						
	SGE NTSC 02		SGE_NTSC_02						
03_Edits	SGE NTSC 03		SGE_NTSC_03						
Logs	SGE NTSC 04		SGE_NTSC_04						
	SGE NTSC 10		SGE_NTSC_10						
	SGE NTSC 11		SGE_NTSC_11						
	SGE NTSC 12		SGE_NTSC_12						
	SGE NTSC 13		SGE_NTSC_13						

This bin will have to be selected in the XT Servers tab of the IPMOSGateway Settings window. See section "XT Servers Tab" on page 22

## 4.7.5. (Optional) Initiate ABRoll Playlist

#### Introduction

The AB Roll Playlist application is used to control and play material on up to 4 channels (A to D) at the same time.

Rundowns from NCS (Newsroom Computer Systems) can be used as input for the AB Roll Playlist application.

Before you can use the AB Roll Playlist, you need to define a channel group and associate that channel group to the AB Roll Playlist.

#### **Defining a Channel Group**

The AB Roll Playlist can be associated to 2, 3 or 4 channels. Before you can use the AB Roll Playlist, you need to define this channel group in the Channel Explorer.

To define a channel group, proceed as follows:

Open the Channel Explorer and browse to the desired channels.

Select the channels that need to be associated to the AB Roll Playlist application.



Right-click the selected channel group and click the **AB Roll Playlist** command from the contextual menu.

The Configure AB Roll Playlist channel association window appears:

Configure AB Roll Playlist channel association							
You can assign different letters to the channels by modifying the letter of the first channel.							
	СН	Associated server channel					
	A	01_XT2_ADL_PGM1	01_XT2_ADL_PGM1				
		01_XT2_ADL_PGM2	01_XT2_ADL_PGM2				
		01_XT2_ADL_PGM3	01_XT2_ADL_PGM3				
			OK Cancel				

In this window you can edit the channel letters in the left column of the table, if so desired.

Click **OK** to accept the presented allocation.

The selected channels are now marked with the 'Ganged' icon and ready to be used as an AB Roll Playlist channel group:





#### Associating Channels to the AB Roll Playlist

Once the channel group is defined, it can be associated to the AB Roll Playlist.

If no channel is associated to the interface yet, the system will display the following message in the AB Roll Playlist status bar:

RIGHT CLICK ON THIS BAR TO START OPERATING AND ASSOCIATE CHANNELS TO THE INTERFACE

To associate the channels to the AB Roll Playlist, proceed as follows:

Right-click the status bar and select the desired channel group previously defined in the Channel Explorer. The status bar content will change and show the associated channels:

01\_XT2 PGM1 (A) / PGM2 (B) / PGM3 (C) / PGM4 (D)

The AB Roll Playlist is now ready to use with these channels.

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