

# Gateway Administrator Guide

Version 5.5



(VIZIE)



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# 1 Introduction

Gateway is Vizrt's implementation of the Media Object Server (MOS) Protocol. It enables users of a Newsroom Computer System (NCS) to perform instant updates on running orders (rundown/ playlist) in Vizrt content control applications such as Viz Trio and Viz Pilot.

As Gateway supports multiple NCS connections, it allows content control applications to request and monitor multiple running orders from multiple newsroom systems. By supporting the MOS protocol, Vizrt is able to integrate a wide range of its products with Newsroom Computer Systems that supports the MOS Protocol.

The Gateway Controller Client's graphical interface is browser-based.

• Important! A 64-bit version of Windows is required to run Gateway.

# 1.1 Related Documents

Gateway has previously been known as Vizrt Viz Gateway, Viz Gateway or Viz MOS Gateway. As of version 2.0, the preferred name is simply Gateway.

All related documents contain information on how to configure a content control application to request running orders from the newsroom system through the Gateway connection. For complementing information see the following documents:

- 1. Viz Pilot User Guide: Contains information on how to create content based on templates, how to playout elements in playlists based on these templates, and how to install and configure Viz Pilot as a stand-alone product, and with integrated third-party systems such as newsroom systems and other Vizrt products.
- 2. Viz Trio User Guide: Contains information on how to use the Vizrt character generator for real-time update of scenes from the operator desk.

**Tip:** You can find updated documentation for Viz software on the Documentation portal.

# 1.2 Feedback And Suggestions

We encourage suggestions and feedback about our products and documentation. To give feedback and/or suggestions, please contact your local Vizrt customer support team at www.vizrt.com.

# 2 Gateway

Gateway is a framework built to help in newsroom integration tasks. Currently, Gateway supports Newsroom Computer Systems (NCSs) based on the Media Object Server (MOS) Protocol that is supported by leading NCS vendors.

This section describes the supported Gateway features and basic workflow from design to playout.

# 2.1 Features

Gateway's main features are:

- · Enables connections to multiple NCSs.
- Enables monitored running orders to be automatically updated by the newsroom system.
- All media objects fetched from Vizrt systems are editable in Vizrt's content control applications to allow last minute edits.
- · Last minute edits can also be done in Vizrt's Newsroom Component.
- Enables content control applications to monitor multiple running orders.
- Enables Vizrt's content control applications to take ownership of a running order from another studio in case of a fail situation.
- Easy-to-use interface for configuring and monitoring all connections to NCSs and content control applications.
- Failover support to enable transparent operation, should the main NCS server fail or need to be maintained.
- Control Station Backup automatically updates backup clients, ensuring that both the backup client and main system have the same MOS playlists.
- Sobey Failover System allows the Viz Gateway server to send its messages to more than one NCS system.

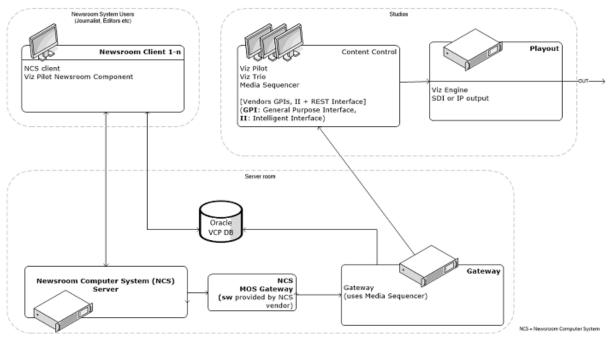
# 2.2 Workflow

The basic workflow is as follows:

- A journalist adds a story to the newsroom system using a newsroom client.
- In the NCS client, a Newsroom Component from Vizrt can be used to fill templates with different media objects containing character-generated text, maps, stills or videos.
- Templates are based on 2D/3D graphics scenes, pre-made to fit a specific concept or style, for example the Nine O'clock News.
- The Newsroom Connect Component allows the user to select a template related to a concept, fill it, and store it as a new media object with a describing name.
- All external media objects, as those created by the Newsroom Connect Component, can be added to a story. When media objects are added to a story, the NCS creates unique placeholders for each media object, called items.
- When the story is saved, it is populated to a story pool. From the story pool, the story is typically added to a running order (also known as a rundown or playlist).

- A running order can contain more than one story, and one story can contain more than one item. Each item keeps track of one media object that is stored on external servers.
- A running order can be requested from a content control application or conversely.
- As stories with new items (data elements) are added to the running orders, the Gateway is notified.
- Gateway passes on running order messages to the content control applications holding the running order for playout, and updates the newsroom system of changes to a data element by the journalist.

Gateway Workflow: Connecting Newsroom Systems to Content Control systems.



# 3 Requirements

This section describes the prerequisites such as software and hardware requirements in order to install and run the Gateway server and Gateway Controller Client. It is also recommended to check the Release Notes distributed with the Media Sequencer installer for any late-minute updates.

This page contains the following information:

- Minimum Software Requirements
  - Media Sequencer
  - Operating System
  - Oracle Database 19c
  - Viz Pilot Schema Version
- Minimum Hardware Requirements
  - Oracle Hardware Requirements (19c)

# 3.1 Minimum Software Requirements

The following software is required to complete a Gateway installation:

### 3.1.1 Media Sequencer

- The Gateway is bundled as a component in the Media Sequencer installer. Refer to the installation chapter in this guide for detailed instructions. Basically, you select the Gateway Component while installing Media Sequencer to enable the gateway functionality.
- The Gateway Controller Client User Interface is browser-based and can run on most PCs with a modern web-browser. Has been tested with Internet Explorer 11 and recent versions of and Opera, Chrome and Firefox web browsers.
- The Media Sequencer installer requires Microsoft .Net framework 3.5 and 4.0 (full) to be installed on the machine. The installer notifies the user if .Net 4.0 is not found.
- The Media Sequencer requires Wibu licensing as of version 5.4. Due to this, the Wibu CodeMeter runtime must be installed and configured to run the Media Sequencer and Gateway. The CodeMeter runtime is installed as part of the Media Sequencer bundle installer.
- Media Sequencer is a 64-bit application that requires a 64-bit version of Windows.

### 3.1.2 Operating System

Server: Windows Server 2008 and newer versions.

Important! Operating systems that have reached their end of life cycle and are no longer officially supported by their manufacturers are not supported for use with Gateway.

### 3.1.3 Oracle Database 19c

- The Oracle Client must be the 64-bit client.
- Either the Full Oracle Client or Oracle Basic Instant client can be used. Oracle XE client is *not* supported.
- It is recommended that the Oracle Client used is the **same version**/release as the Oracle Database itself. Having different Oracle Database and Client versions can lead to subtle errors and are not supported.
- · The Oracle client is only required when the direct Oracle alternative is selected as back-end.
  - Note: If you are using Viz Pilot Data Server you do not need the Oracle client on the Gateway host.
  - Important! Gateway uses the Media Sequencer in an exclusive configuration to operate as a gateway. Hence the server that runs the Gateway cannot operate as a "normal" (non-exclusive) Media Sequencer while functioning as a Gateway.

### 3.1.4 Viz Pilot Schema Version

If running Gateway version 5.3 or later using Oracle database as back end, the Viz Pilot Database schema should be version 5.2 or newer to avoid a bug with missing package name for the *GET\_ALL\_ELEMENTS* procedure.

# 3.2 Minimum Hardware Requirements

The following hardware components are required for the Gateway and Oracle Database Client. The requirements are separate, and only depicts the actual requirements needed to run each of the software installations.

- · Gateway
  - There are no specific hardware requirements for Gateway. The hardware required and network interface is depending on how many Newsroom Systems and clients that use the gateway. However, it is strongly recommended that Gateway is installed on its own computer or server. Sharing space with other resource-intensive systems, for example a database, is not recommended.
- · Oracle Database Client
  - · Currently (for Oracle 19c) the requirements are listed as:

### 3.2.1 Oracle Hardware Requirements (19c)

Requirement	Minimum Value
Physical memory (RAM)	2 GB minimum

Requirement	Minimum Value
Virtual memory	<ul> <li>If physical memory is between 2 GB and 16 GB: 1x the size of the RAM.</li> <li>If physical memory is more than 16 GB: 16 GB.</li> </ul>
Disk space	Total: 10 GB
Processor	AMD64 or Intel EM64T
Video adapter	256 colors
Screen Resolution	1024 X 768 minimum

#### Important! The values above are correct as of March 2022 and should be read as minimum required, please refer to the official Oracle Documentation at https://docs.oracle.com/en for updated information.

A Note: The Oracle database client is not necessary if you are connecting to Oracle via Viz Pilot Data Server.

# 4 Installation

This section describes how to install the Gateway system. The installation has the following steps:

- 1. Install the Gateway software. The Gateway is bundled as an optional component in the Media Sequencer installer.
- 2. If there is an existing Oracle Database installed, configure the new Gateway installation to use the existing Oracle Database. Otherwise, a new Oracle Database must be installed and configured.
- 3. Install the Oracle Client on the Gateway server.
- 4. Use the browser-based Gateway Controller application to configure and start the Gateway.
  - ▲ Note: Skip steps two and three if you are using Viz Pilot Data Server. Please see (Backend Configuration) for more information about setting up a Viz Pilot Data Sever connection.

This section contains information on the following topics:

- Installing Gateway
- Installing Database Client
- To Repair or Remove the Gateway

# 4.1 Installing Gateway

- 1. Gateway is distributed as an optional component in the Media Sequencer installer, so you first need to download the Media Sequencer installer or the Media Sequencer bundle installer (recommended as Wibu CodeMeter runtime is included).
- 2. Fetch the Gateway / Media Sequencer installer from download.vizrt.com. All customers with a valid support contract have access to this area. Please contact your Vizrt Customer Support if you need credentials/password. Either use your preferred FTP Client or the web-based interface at https://download.vizrt.com/ThinClient/ When you have logged in to the FTP server, navigate to: /products/VizMediaSequencer/LatestVersion.

Note: It is recommended to check the MD5 checksum of the downloaded installer before attempting to install.

- 3. If there is an existing Media Sequencer installed at the server, uninstall the existing Media Sequencer using **Windows > Control Panel > Uninstall a Program**. It is recommended to take a copy of the existing Media Sequencer current state before uninstalling: Backup the current state by copying *%PROGRAMDATA%\Vizrt\Media Sequencer\default.xml* to a safe location.
- 4. Start the installation by double-clicking the MSI installer, or bundle installer from Step 1. The installer is typically named *MediaSequencer-amd64-<VERSION>.msi (64-bit version).* The bundle installer is typically named *MediaSequencer.BundleInstaller-<VERSION>.exe.* Follow the installation setup instructions. Make sure to **include** the optional **Gateway Component** while installing as illustrated in the following figure:

🔁 Vizrt Media Sequencer	
Custom Setup	vizrt\
Select the way you want features to be installed.	VIZIL.
Click the icons in the tree below to change the way features will be installed.	
Vizrt Media Sequencer Main components Documentation Gateway	
Will be installed on local hard drive	ł
Entire feature will be installed on local hard drive	_
Feature will be installed when required	
× Entire feature will be unavailable	
Reset Disk Usage Back Next	Cancel

Similarly for the bundle installer make sure to select the Gateway Component while installing

as illustrated	in the following figure:		
	(vizrt <sup>)</sup>		_ ×
	Media Sequencer		
Insta	all options:		
	Vizrt Media Sequencer          Documentation         Gateway controller         Desktop Shortcut	Settings	
	Vizrt Media Sequencer Location C:\Program Files\Vizrt\Media Sequencer		
	CodeMeterRuntime Runtime Kit v7.60.5598.500	Installed	
	INSTALL		

5. It is recommended to make sure that the Media Sequencer service is launched and started automatically at system start. After you have installed Media Sequencer, Double-Click the Media Sequencer icon at the Windows Desktop or go to Windows > Programs > Vizrt > Media Sequencer > Media Sequencer. In the Media Sequencer Launcher Panel make sure that the option Launch on system restart is ticked on.

6. You can make sure that the Media Sequencer is correctly installed and working by connecting to the Media Sequencer REST interface: Open your web-browser and connect to port 8580, for example: http://localhost:8580

# 4.2 Installing Database Client

This section describes how to install and test the Oracle Database 11g Client. For further documentation, please see the Oracle Documentation website:

- http://www.oracle.com/technology/software/products/database/
- http://www.oracle.com/technetwork/indexes/documentation/index.html

Note: Installing the Oracle Database Client is not necessary if you connecting to Oracle or Graphic Hub via the Pilot Data Server.

• **Important!** A 64-bit Oracle Client is required because the Media Sequencer is a 64-bit application.

Before installing Gateway, check the language settings for the Oracle client. The National Language Support (NLS\_LANG) parameter must be the same as on the Vizrt database.

This section has more information about these topics:

- Pre-installation
- To Install the Oracle Client
- To Set the Language Setting for the Oracle Client
- · To Test the Installation

Also see the Oracle software and documentation.

#### 4.2.1 Pre-installation

- · If there is an existing Oracle Client installed, create a backup of the *tnsnames.ora* file.
- Remove any previous or older versions of the client.
- · Download the client from Oracle's web site.
- Click **Downloads**, and follow the instructions to make sure that the correct Oracle Database Client installation executable is selected..

### 4.2.2 To Install the Oracle Client

- Note: The installation procedure below is according to Oracle Client version 10.2.0.1.0. For a reference on another version, see the Oracle web site.
- 1. Log on as a member of the Administrators group to the computer on which to install Oracle components. For installations on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC), log on as a member of the Domain Administrators group.

- 2. Double-click the installer (setup.exe).
- 3. In the Welcome screen, click Next.
- 4. In the Select Installation Type screen, select type *Runtime*.
- 5. In the Specify Home Details screen, click Next.
- 6. In the Product-Specific Prerequisite Checks screen, click **Next**.
- 7. In the Summary screen, click Next to start the actual installation and configuration.

Note: Do not use the Oracle Net Configuration Assistant (NetCA) unless there are specific client connection configuration needs. Using the NetCA is beyond the scope of this guide.

- 8. Click Next.
- 9. In the End of Installation screen, click **Exit**, then click **Yes** to exit from Oracle Universal Installer.
  - Optionally, delete the \temp\Oralnstalldate\_time directory to remove the temporary files that were created during the installation process. The Oralnstalldate\_time directory holds about 45 MB of files.
  - Restarting the computer also removes the *OraInstalldate\_time* directory.

### 4.2.3 To Set the Language Setting for the Oracle Client

- Start the Registry Editor (*regedit*) on the Start menu.
   Click the **Run** menu option, enter *regedit*, and click **OK**.
- 2. Open the path \HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\ORACLE\KEY...<version>.

Name	Туре	Data
••)(Default)	REG_SZ	(value not set)
MLS_LANG	REG_SZ	AMERICAN_AMERICA.WE8MSWIN1252
Edit String Value <u>n</u> ame: NLS_LANG		,_home2 .2.0\client_2 KEY_OraClient10g_home2
∐alue data:		.2.0\client_2\dbs
AMERICAN_AMERIC	CA.AL32UTF8	
		DK Cancel

- 3. Double-click the registry setting for NLS\_LANG.
- 4. Edit the string and change it to AMERICAN\_AMERICA.AL32UTF8, and click OK.

Note: To help give Vizrt customers the best possible support, American English is chosen as the default language for log messages.

#### 4.2.4 To Test the Installation

1. Start a command-line tool, and type the following:

sqlplus userid/password@tnsname

2. It is also possible, if a TNS name alias is not configured, to use an easyconnect string:

sqlplus userid/password@hostname/SID

3. Check that the output is something like the example output below:

```
C:>sqlplus pilot/pilot@VIZRTDB SQL*Plus: Release 10.2.0.1.0 - Production on Thu
Mar 24 12:17:19 2014 Copyright (c) 1982, 2010, Oracle. All rights reserved.
Connected to: Oracle Database 10g Release 10.2.0.1.0 - Production SQL>
```

#### See Also

Installation

### 4.3 To Repair Or Remove The Gateway

- 1. Open the Add or Remove Programs tool, and click the **Change** button to the right for the Viz Media Sequencer program entry.
- 2. Select Repair to repair the installed version or select Remove to remove the installed version.
- 3. Click Next.
- 4. When done, click Close.

# 5 Running

This section describes how to start the Gateway server and the Gateway Controller Client.

This chapter contains the following topics:

- To Start the Gateway Controller Client
- To Start the Gateway Server
- To Start the Media Sequencer
- To Configure the Media Sequencer

# 5.1 To Start The Gateway Controller Client

Select the program from the Start menu: All Programs > Vizrt > Media Sequencer> Gateway Controller.

Important! This shortcut starts the Gateway Controller as a web-application in the users default web-browser. The Media Sequencer must be running before starting the Gateway Controller.

It is also possible to launch the Gateway Controller by browsing to the following web address: http://<ADDRESS>:8580/app/gatewaycontroller/gatewaycontroller.html.

Note: It is possible to use one instance of the client to connect to multiple Gateway servers. To do this, simply connect to one server at a time and enter the appropriate connection parameters.

Substitute <ADDRESS> above with the actual IP or hostname of the Gateway server.

# 5.2 To Start The Gateway Server

Use the Gateway Controller Client application to enable the gateway functionality of the Media Sequencer, including starting, stopping and restarting the Gateway.

💾 Apply S							
Log Traf	fic	🞽 ErrorsíOì	🛕 Wa	rnings (O) 💡		Messages (95) 🞯 Verbose (0)	
Туре	Time			Source		Message	
${i}$ info	2022-0	03-11T11:20:31		VizGatewa	iy	Stopping gateway.	
${i}$ info	2022-0	03-11T10:14:39		VizGatewa	ay	VizGateway Initialized	
${i}$ info	2 <b>0</b> 22-0	03-11T09:44:51		VizGatewa	ay	VizGateway Initialized	
() Start	Ga	teway licensed ui	ntil: 202	2-05-31 T1 4:	00:	00+0200	

▲ Note: The client enables the Media Sequencer to run as a Gateway server. While running as a MOS Gateway, the Media Sequencer runs exclusively as a Gateway and should not be used for any other purpose. It is recommended to enable the automatic launch at system restart option of the Media Sequencer to make sure the Media Sequencer is kept running.

# 5.3 To Start The Media Sequencer

Select Media Sequencer under the Vizrt program menu, or double-click the desktop shortcut icon:

# 5.4 To Configure The Media Sequencer

Double-click the Media Sequencer desktop icon to access the Media Sequencer Launcher (see figure below). As of version 5.4 Wibu licenses are required for starting the Media Sequencer and Viz Gateway. From the launcher, open the settings window and select the license container to use and make sure that an MSE\_VIZGATEWAY license is enabled. For more information about configuring Wibu licenses and license alerts, refer to the Media Sequencer Wibu Licensing Documentation (Start Menu  $\rightarrow$  All Programs  $\rightarrow$  Vizrt  $\rightarrow$  Media Sequencer Wibu Licensing Documentation).

Click the appropriate Launch button to select how the Media Sequencer should start:

- Service: Runs the Media Sequencer as a service. This enables the manual operation of the Media Sequencer as a service. Check the *Launch on system startup* if the Media Sequencer should start automatically when the system is (re-)started. This automatic mode (to launch Media Sequencer automatic on system start) is the recommended mode.
- **Console Application:** The service is disabled. The Media Sequencer runs as long as the console is open. If the console is closed, the Media Sequencer stops. This mode is normally only used for testing or debug.

**A** Note: It is recommended to run the Media Sequencer as an automatic service.

6	🔈 Media Sequencer L	auncher			_ ×
	License container: 0-0 (/	Any Netw	ork license)		
	License	Count	Expiration date		
	3_MSE_CORE	0/50	2024-03-05 12:44		
	3_MSE_MULTIPLAY	0/50	2024-03-05 13:49		
	CodeMeter WebAdmin			Refresh licenses	‡ Settings
	Launch as Winde	ows Servi	ce	Launch in Conso	le
	Launch on system s	tartup			
	Open Wibu Licensing D	ocument			
	<u>Open logs folder</u>				
М	SE version: 5.5.0				Not Running

# 6 User Interface

This section describes the user interface for the Gateway Controller Client. The client is a configuration and status information tool that enables the user to configure and monitor the traffic on the Gateway server.

# 6.1 User Interface Overview

्रे	Gateway	,									رvızıt <sup>\</sup> <u>Heip</u>
Genera	al Config	Backend Config	NCS Se	rver Config	Routing	ilover Settings	Active Connections	Active RO's	Control Stati	ion Backup	2
Basic Sett	tings										
N	/los Lower Port	: 10540	Re		10						
N	/los Upper Port	: 10541		RO Days To Live :	5						
Conti	rol Station Port	: 10640	He	eartbeat Interval :	30						
LogHearl	beat Messages	:		Dbject Timebase :	50						
				3							
💾 Apply S											
Log Tra	iffic 🛛 🗾 E	rrors(O) 🛕 Wa	rnings (O) 🦿	Messages (96)	🖉 Verbose (0) 👍						
Туре	Time		Source	Message							
i info											
ií info											
<i>i</i> info											
≀ info											
() Stop	6 Resta	nt Gateway li	cens 7 til: 2	:022-05-31 T1 4:00	:00+0200			<mark>(8)</mark> Co	onnection 🌮 🛛 D	B Connection 🌄	Running

- (1): Top menu containing the active configuration tabs. See Tabs.
- (2): Click Help to access the Gateway Administrator Guide.
- (3): Main configuration window. The content that appears here depends on which configuration tab is selected.
- (4): Click to show specific message types in the Message area (5).
- (5): Log message window. See Log Message Window.
- (6): Start, Stop and Restart buttons. See Start, Stop and Restart Gateway Buttons.
- (7): Gateway license status.
- (8): Status indicators. See Status Indicators.

This section contains the following topics:

- Tabs
- Log Message Window
- Start, Stop and Restart Gateway Buttons
- Status Indicators

# 6.2 Tabs

The Gateway Controller Client user interface contains eight top menu tabs.

General Config	Backend Config	NCS Server Config	Routing	Failover Settings	Active Connections	Active RO's	Control Station Backup	
Basic Settings								
	ort : 10540		10					
	ort: 10541		5					
	ort : 10640	Heartbeat Interval :	30					
Log Hearbeat Messag	ges :	Object Timebase :	50					

Each tab is explained in its own section listed below. Click the links below to learn about the tabs and how to use them:

- General Configuration
- Backend Configuration
- NCS Server Configuration
- Routing
- Failover Settings
- Active Connections
- Active Running Orders
- Control Station Backup

# 6.2.1 General Configuration

The General configuration tab contains Gateway's basic settings.

ି 🔓 Gatewa	ay			
General Config	Backend Config	NCS Server Config	Routing	Failover Settings
Basic Settings			_	
Mos Lower Po	ort : 10540	Reconnect interval :	10	
Mos Upper Po	ort : 10541	RO Days To Live :	5	
Control Station Po	ort : 10640	Heartbeat Interval :	30	
Log Hearbeat Messag	ges :	Object Timebase :	50	

#### **Basic Settings**

The following settings are global settings used by the Gateway.

- **MOS Lower Port:** A listener port that the NCS connects to for sending media object related messages to the Gateway.
- **MOS Upper Port:** A listener port that the NCS connects to for sending rundown related messages to the Gateway.
- **Control Station Port:** A listener port that the control station Media Sequencer will connect to for communicating with the Gateway.
- **Log Heartbeat Messages:** Adds the heartbeat messages to the Media Sequencer log file. The full MOS message will be logged when this setting is enabled.
- **Reconnect interval (sec):** Specifies the number of seconds that Gateway should wait, when the connection is lost, before trying to reconnect to the newsroom system(s).
- **RO days to live**: Sets the number of days the routing between a running order ID and control station IP should live. Gateway clears out all running orders that have not been updated for a given number of days. For details, see Active Running Orders section on active running order routing.
- **Heartbeat Interval:** Sets the interval for how often heartbeat messages are sent to the NCS. 30 seconds is recommended.
- **Object Time Base:** Sets the sampling rate of the object in samples per second. For PAL Video this would be 50. For NTSC it would be 60.

#### How to Enable Settings

Enable settings by:

- 1. Edit a Basic Settings field.
- 2. Click Apply Settings.
- 3. Restart Gateway.
- 4. The settings take effect when the Gateway is started.

Satewa	ay		
General Config	Ba	ackend Config	NCS
Basic Settings			
		10541	
Mos Upper Po	ort :	10541	
Control Station Po	ort :	10640	
Log Hearbeat Messag	ges :		
💾 Apply Settings >	< Car	ncel Settings	

# 6.2.2 Backend Configuration

The **Backend Config** tab is where you select which backend to use to send meta information about MOS objects to the newsroom system.

The tab has three options:

- Disabled
- Viz Pilot Data Server
- Oracle

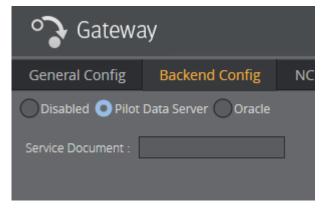
#### Disabled

When selected, Gateway does not send any information about our MOS objects to the NCS.



#### Viz Pilot Data Server

Use Viz Pilot Data Server as backend by entering the service document URI.



Add the base URL with the port: http://hostname:8177/.

<b>a</b> tewa	ау	
General Config	Backend Config	NC
Disabled OPilot		

▲ Note: Viz Pilot Data Server can be configured to use either Viz Graphic Hub or Oracle. Make this selection when installing Viz Pilot Data Server. For more information see the Viz Pilot User Guide.

#### Oracle

Select this option to use a direct Oracle connection as backend.

🌏 🎝 Gatewa	ay	
General Config	Backend Config	NC
Disabled Pilot	Data Server 🧿 Oracle	
Schema Name :	PILOT	
SID :	changeme	
User :	changeme	
Password :	•••••	
Log DB Messages :		

Description of parameters:

- Schema Name: Enter the database schema name. Schema name is case sensitive. The default schema name is PILOT and must be upper case.
  - Note: Default username, password and schema name for Viz Pilot is PILOT. For security reasons, the default password should be changed.
- **SID:** Either enter a TNS name alias or a connection string. For the TNS name alias to work, Oracle's *tnsnames.ora* file must be edited.

(i) Example: Alternative connection strings are *<hostname>/<SID>* or *<IP address>/ <SID>*.

- User: Enter the database username. Username is not case sensitive.
- **Password:** Enter the database password. Password is not case sensitive.
- Log DB Messages: Check this option to enable DB message logging.

**A** Note: Use of Extended Advanced Queuing (AQ) is automatically checked by Gateway.

### 6.2.3 NCS Server Configuration

The NCS Server configuration tab is divided into three panels:

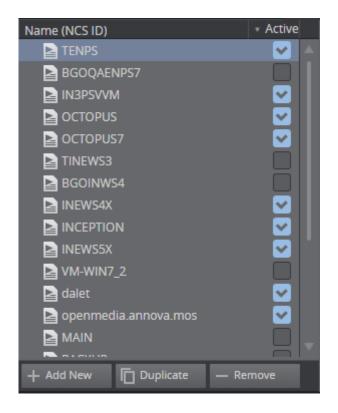
- Name (NCS ID) Panel
  - Active NCCs
  - To Add a New NCS
  - To Create Duplicate NCS
  - To Remove an NCS ID
- Basic Settings
- Advanced Settings

Name (NCS ID)              • Active          Basic Settings           TENPS              • Active:               • Server IP:               10.211.112.38               MOS Lower Port:               • Include Data in MosOb);            BGOQAENPS7              Mos Version:             2.8.0               MOS Lower Port:             10.541             include Continue in MosOb);		
	<b></b>	
	Push Moslist : 🛛 🛃	
	Send MosObj : 🛛 🛃	
🖹 IN3PSVVM 🛛 MOS ID : PILOT Connection Timeout : 90 Include MediaInfo in MosObj :	Push Moslist Once : 🛛 🗸	
🖸 OCTOPUS 💟 Moellet Davrount - 1 MertPar Soc. o Enable Autoactivation : Alw	ys Respond With MosObj : 🛛 🔽	
COOPUES     CONTRACTOR     CONTRACTON     CONTRACTON     CONTRACTON     CONTRACTON     CON	nulate Running Order List :	
Send Heartbeats : V		

Tip: Whenever a setting is changed, click the Apply Settings button to enable the new settings. This also requires the Gateway server to be restarted. All settings are individual settings for each Newsroom Computer System.

#### Name (NCS ID) Panel

The Name (NCS ID) panel contains the list of NCS servers that are configured to be handled by Gateway. Gateway is able to connect to multiple NCSs from different vendors.



#### Active NCCs

Click the Active checkbox to decide which NCS configurations take effect.

If an NCS is inactive:

- · No connections are established to this NCS.
- Any messages the NCS sends to the Gateway are not recognized.

#### To Add a New NCS

- 1. Click the + Add New button.
- 2. Enter the newsroom system's ID (NCS ID).
- 3. Click OK.

#### To Create Duplicate NCS

Create a new entry based on the settings of an existing entry.

- 1. Select the NCS you want to duplicate.
- 2. Click the Duplicate icon.
- 3. Enter the NCS ID.
- 4. Click **OK**.

#### To Remove an NCS ID

- 1. Select an item from the NCS Server list.
- 2. Click the **Remove** button.

3. Click **OK** to confirm the removal of the NCS.

**A** Note: All changes to the NCS Server list require that the Gateway server is restarted.

#### **Basic Settings**

Basic Settings	
Server IP :	10.211.112.38
Mos Version :	2.8.0 🗘
MOS ID :	PILOT
Moslist Daycount :	1
Send Heartbeats :	

This panel contains the following parameters:

- · Server IP: NCS IP address
- MOS Version
  - · 2.6 Gateway supports the MOS Protocol version 2.6.
  - 2.8 Gateway supports the MOS Protocol version 2.8.
  - In order to support MOS Protocol version 2.8.1 or later, both the Media Sequencer hosting the central Gateway and Media Sequencer clients must be upgraded to version 5.3 or later.

**A** Note: Click the arrow icon to show available MOS versions.

- **MOS ID:** Identifier for the Gateway.
- **Moslist Days Count:** Specifies how old a data element can be in order to be forwarded to the newsroom system and shown in the newsroom client.
- Send Heartbeats: Check this option to enable Gateway to send heartbeat messages to the NCS. An error is logged if a response to the heartbeat message is not received within a timeout period.

#### Advanced Settings

Advanced Settings		
MOS Lower Port : 10540 include Data in MosObj :	Push Moslist :	✓
MOS Upper Port : 10541 include Continue in MosObj :	Send MosObj :	✓
Connection Timeout : 90 include Mediainfo in MosObj :	Push Moslist Once :	✓
Msg Per Sec : 0 Enable Autoactivation :	Always Respond With MosObj :	✓
	Accumulate Running Order List :	

- MOS Lower Port: Specifies the socket port that the NCS is listening on for MOS Object messages sent from the Gateway. The Gateway automatically establish a connect to this port during startup.
- **MOS Upper Port:** Specifies the socket port that the NCS is listening on for rundown related messages sent from the Gateway. The Gateway automatically establish a connect to this port during startup.
- **Connection Timeout:** Sets the number of seconds Gateway waits for a response to a request. If a response message is not received within a given time, the next message is sent. This prevents messages from *clogging* the system.
- Msg Per Sec: The number of messages per second Gateway sends to the NCS. Specify value
   o for free flow of messages.
- **Include data in MosObj:** Check this option to include data field information in a MOS external meta block inside all MOS object messages sent to the NCS.
  - Note: This information is typically used by NCSs either to present this information in their end-user interface or to deduce key information that may be used for archiving purposes.
- **Include continue in MosObj** Check this option to include continue count information in a MOS external meta block as part of the MOS Object messages sent to the NCS.
  - Note: This information is typically used by automation systems to trigger graphics. A continue count tells the graphics operator how many times to press continue to play graphics scenes from start to finish.
- Include mediainfo in MosObj Sends metadata related to data elements containing video clips.
  - Note: This information is typically used by NCSs either to present this information in their end-user interface or to deduce key information that may be used for archiving purposes. This setting only works for old Viz Link based systems.
- **Enable Autoactivation:** The Enable AutoActivation option for the newsroom system must be enabled in order for Routing to have an effect. This enables the control station to activate a running order without an initial request.

- **Push Moslist:** Check this option to enable sending a MOS Object list message to the NCS to synchronize the list of MOS Objects.
- Send MosObj: Check this option to enable sending of MOS Object messages to the NCS when a MOS object is created, updated or deleted.
- **Push Moslist Once:** If Push Moslist is enabled, check this option to only send the MOS object list once, even if the connection between Gateway and NCS has been down.
- Always Respond With MosObj: If the NCS request the MOS Object list, enabling this setting sends individual MOS Object messages in place of a big list of all MOS objects.
- Accumulate Running Order List: Check this option to let the Gateway maintain the list of active running orders, in place of asking the NCS for the list each time it is needed.

### 6.2.4 Routing

The Routing configuration enables the user to manually configure Gateway to route messages to a specific control station. Whenever one or several new routings are added or removed, the Gateway server must be restarted for the settings to take effect.

For routing to have an effect, **Enable AutoActivation** must be enabled as part of the NCS Server Configuration (Advanced Settings).

Gateway does a lookup in the mapping table to match the running order channel (roChannel) used by the newsroom system. If the channel name is found, it uses the IP address to forward the message and subsequent messages from the newsroom system to the control station.

🍞 Gateway							
Gen al Config	Backend Config	NCS Server Config	Routing	Failov	Agive Connections	Active RO's	Control Station Backup
roChannel Name :		Control Station IP :		+ Add Route	- Remove Route		
Channel Name		Control Station IP					
A 🔁		10.211.111.137					
🔁 Jon		10.211.111.117					
📔 BjornAslePC		10.211.111.124					
🛓 studio1							
🛓 studio2		10.211.111.134					
놀 test		10.211.111.4					
DLE		10.211.111.136					
В		10.211.111.144					
🛓 test#2		10.10.10.10					
(5)							
Default Control Station IP :	10.211.111.136	L' Apply					

#### Routing

- 1. roChannel name: The roChannel name that identifies the control station.
- The roChannel name is set on the NCS server, often through an NCS client.
- 2. Control Station IP: IP address of the control station.
- 3. Add Route: Fill the text fields, and click the Add Route button to add a new route.
- 4. **Remove Route:** Select a route from the list, and click the **Remove Route** button to remove the route.
- 5. **Default Control Station IP:** If no roChannel is specified, and the default control station IP is configured, this IP is used.

**Note:** All changes to the Routing table require that the Gateway is restarted.

### 6.2.5 Failover Settings

🍞 Gatewa	ay							vizrt <sup>)</sup>
General Config	Backend Config	NCS Server Config	Routing	Failover Settings	Active Connections	Active RO's	Control Station Backup	
Note: Gateway's failover s								
Main :	🕴 🗘 🗘	- 1						
Main Server	Backup Server						Always use Main NC	S IDActive
NCS1	NCS2							

Failover Settings enable the user to manually configure a failover setup between two NCSs. This means that Viz Gateway routes messages to both NCSs. Whenever one or several new failover pairs are added or removed, the Gateway server must be restarted for the settings to take effect.

▲ Note: Gateway's failover setting is only supported by Associated Press's Electronic News Production System (ENPS) and for a limited use case for the Sobey Newsroom System.

### 6.2.6 Active Connections

🍞 Gatewa	y									رvızıt <sup>)</sup> بر
General Config	Backend Config	NCS Server Config	Routing	Failover Settings	Active Conne	ections	Active RO's	Control Statior	n Backup	
Name	Туре		Port	Remote IP	Last incoming msg	Last incomi	ing time	Last outgoing msg	Last outgoing time	
	MSE-client		1940	192.168.110.147	roReqAll	2017-10-24	4T15:17:15	mosGateway	2017-10-24T15:21:46	
					roReqAll					
					roReqAll					
					roReqAll					
					roReqAll					
					roReqAll					
					roReqAll					
					roReqAll					
					roReqAll					
					roReqAll					
					roStoryReplace					
								roReqAll		
								roReqAll		

There are primarily three kinds of connections:

- · Connections from an NCS to Gateway
- Connection from a Control Station to Gateway
- Connection from Gateway to an NCS

#### Connections from an NCS to Gateway

These are connections that are established by the NCS as a connection to Gateway.

Characteristics of this connection type:

- Only one active connection per type can be made per NCS. Connection types are identified as NCS-RO-server and NCS-MOS-server in the Active Connections window.
- Most NCSs do not have a permanent or fixed connection to Gateway. Therefore, the connection information is only visible when the NCS sends messages to Gateway, for example when a running order is activated or updated.

#### Connection from a Control Station to Gateway

These are connections to Vizrt's content control applications.

Characteristics of this connection type:

- Only one active connection per Media Sequencer is connected to a control station. Connection types are identified as MSE-client.
- $\cdot~$  The Host IP is the property of the Media Sequencer that the control station is using.

#### Connection from Gateway to an NCS

These are connections that are established by Gateway as a connection to an NCS.

Characteristics of this connection type:

- Only one active connection per type can be made per NCS.
- · Connection types are identified as NCS-RO-client and NCS-MOS-client.

This tab contains eight columns that are defined as follows:

- Name: Shows the name of the entity that holds the connection.
- **Type:** Type of connection. For details, see the type definitions above.
- **Port:** Port used for an active TCP connection.
- **Remote IP:** IP address identifying the remote system.
- Last incoming msg: Type information for the last incoming message.
- **Last incoming time:** Timestamp for the last incoming message.
- Last outgoing msg: Type information for the last outgoing message.
- **Last outgoing time:** Timestamp for the last outgoing message.

# 6.2.7 Active Running Orders

This tab shows which running orders the Gateway has information about, sorted under each NRCS.

Satewa	Ŋ						
General Config	Backend Config	NCS Server Config	Routing	Failover Settings	Active Connections	Active RO's	Control Station Backup
Slug		Time	estamp		Remote IP		
TN3PSVVM							
V TINEWS5X							
NEWS5X/SH	IOW.TKU.RUNDOWN	2017	-Jun-13 14:37:44		10.211.111.163		
		2017	-Jun-27 23:21:12		10.251.2.14		
TNEWS4X							

· Expand the NRCS folder structure, to reveal details about each rundown row.

#### Display Running Orders

Display the running orders for each NCS by clicking the expand arrow icon next to the NCS.

The running order name (also known as a Running Order (RO) slug) appears, along with when the RO was last modified. The timestamp is related to the running order days to live setting under General Configuration.

# 6.2.8 Control Station Backup

🍞 Gatewa	у							(vizit
General Config	Backend Config	NCS Server Config	Routing	Failover Settings	Active Connections	Active RO's	Control Station Backup	
Main Control Station IP :		Backup Control Station			Backup — Remove Backup			
Main Control Station IP		Backup Control Stat	ion IP					
睯 10.211.112.55		10.211.111.48						
10.211.111.126								
10.211.111.136								
10.211.111.144								

The Control Station Backup panel allows you to manually configure a backup Control Station MSE. The backup Control Station MSE receives the same rundowns (and updates) as the main Control Station MSE receives. This means that changes seen in a client connected to the main Control Station MSE shows up in clients connected to the backup Control Stations MSE, and in turn means that any changes made during a live show are reflected in the backup client. If the Control Station MSEs have been configured to send status information back to NCS, status messages are only sent from the main Control Station.

#### To Add a Backup Control Station

- 1. Enter the Main Control Station MSE IP.
- 2. Enter the Backup Control Station MSE IP.
- 3. Click Add Backup.

#### To Remove a Backup Control Station

- 1. Select an item from the Control Station Backup list.
- 2. Click the **Remove** button.
- 3. Click **OK** to confirm the removal of the Control Station Backup item.

Note: When adding or removing a single or several new backup Control Stations, the Gateway server must be restarted in order for the settings to take effect.

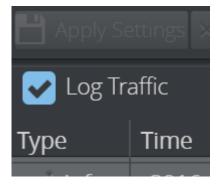
# 6.3 Log Message Window

The log messages window contains the following areas:

- Log Traffic Checkbox
- Messages Area

Log Traffic	💋 Errors (40) 🔥 W	arnings (0) 🧳 Messages (98)	्रुः Verbose (12)
Туре	Time	Source	Message 🔺
💋 error	2017-10-24T15:56:01	VizGateway	MSE Connector failed to process message: 'roCi
og verbose	2017-10-24T15:56:01	OCTOPUS8	We got message roCreate
og verbose	2017-10-24T15:55:46	INEWS6X	We sent message roAck
og verbose	2017-10-24T15:55:46	10.211.111.10	We got internal message roAck
oj verbose	2017-10-24T15:55:46	10.211.111.10	We sent internal message roStoryReplace
() Start	Restart		

# 6.3.1 Log Traffic Checkbox



Enable the **Log Traffic** option to log the traffic between the newsroom systems, control stations, and the Viz Pilot database. This setting is disabled by default.

Check this option to log all MOS messages received, sent and forwarded by Gateway. The traffic messages will be part of the media sequencer log file located under: C:\ProgramData\Vizrt\Media Sequencer.

### 6.3.2 Messages Area

The messages area contains four columns containing pieces of information about the message:

- **Time:** Shows a message time stamp (*year-month-day-hour-minute-second*).
- **Type:** Shows the type of log message received.
- Source: Shows which system that issued the error, warning, info or notice message.
- **Message**: Displays the content of the message.

**Tip:** Hover the mouse pointer over a message to see the full content of the message.

📃 Log Traffic 🛛 🗾 Errors (0) 🔥 Warnings (0) 🦸 Messages (14 🎯 Verbose (8)					
Туре	Time		Source	Message	
o≊ver…	2016-07-05T10	:22:37	BGOQAEN	We got message roListAll	
💇 ver	2016-07-05T10	:22:37	example2	We sent message roReqAll	N
o≦ver…	2016-07-05T10	:22:37	BGOQAEN	We got message roListAll	<pre><mosid>PiLOT-</mosid></pre>
o≊ver…	2016-07-05T10	:22:37	BGOQAEN	We sent message roReqAll	TEST
o≊ver…	2016-07-05T10	:21:42	BGOQAEN	We got message roListAll	<ncsid>example2</ncsid> <roregall> </roregall>
o≊ver…	2016-07-05T10	:21:42	example2	We sent message roReqAll	
o≊ver…	2016-07-05T10	:21:42	BGOQAEN	We got message roListAll	
OSver	2016-07-05T10	·71·//7	RGOOAFN	We sent message roReg∆ll	

# 6.4 Start, Stop And Restart Gateway Buttons

Depending on the current run status you can use the buttons in the lower left corner of the interface to **Start**, **Restart** or **Stop** the Gateway:

- To Start Gateway
- To Stop Gateway
- To Restart Gateway

When Gateway is running, the following buttons are visible and enabled:

When Gateway is stopped, the following button is visible and enabled:

(1) Start Gateway licensed until: 2022-05-31T1 4:00:00+0200

If the MSE\_VIZGATEWAY license has expired, the start button is disabled if the gateway is stopped.

(1) Start Gateway license expired: 2021-05-31T14:00:00+0200

Similarly, the restart button is disabled if the gateway is running while the license expired.

U Stop Restart Gateway license expired: 2021-05-31T14-00:00+0200

### 6.4.1 To Start Gateway

Start the Gateway Client when it is stopped.

#### 1. To Start Gateway, click Start.

TO Start G	aceway,	chek Start.	_		
💾 Apply S					
Log Traf	fic	🗾 Errors (O)	🛕 Wa	rnings (O) 🧃	Messages (95) 🛛 🖉 Verbose (0)
Туре	Time			Source	Message
$\check{i}$ info	2022-0	)3-11T11:20:31		VizGateway	Stopping gateway.
${i}$ info	2022-0	)3-11T10:14:39		VizGateway	VizGateway Initialized
${i}$ info	2 <b>0</b> 22-0	)3-11T09:44:51		VizGateway	VizGateway Initialized
🕛 Start	Ga	teway licensed u	ntil: 202	2-05-31 T1 4:00	):00+0200

2. <u>A message appears in the messages area confirming that Gateway has started.</u>

Log Traf	fic 🗾 🖊	Errors (O)	🛕 Wa	rnines (0) 🧃	Messages (94)	📑 Verbose (0)	
Туре	Time			Source	Message		
i info	2022-03-11	1T10:14:39		VizGateway	/ VizGateway	Initialized	
$ec{i}$ info	2022-03-11	1T09:44:51		VizGateway	/ VizGateway	initialized	
i info	2022-03-1	1T09:40:17		VizGateway	/ VizGateway	Initialized	
() Stop	Res	tart Ga	teway li	censed until: 3	2022-05-31 T1 4	:00:00+0200	

### 6.4.2 To Stop Gateway

Stop the Gateway Client when it is running.

1. To stop Gateway, click Stop.

() Stop	Restart	Gateway licensed until: 2022-05-31T14:00:00+0200

2. <u>A message appears in the messages area confirming that Gateway has stopped.</u>

Log Traf	ffic 🛛 🗾 Errors (O) 🔒 🤉	Warnings (O) 🧃	Messages (8) 🛛 🖉 Verbose (0)		
Туре	Time	Source	Message		
${i}$ info	2022-03-14T11:12:33	VizGateway	Stopping gateway.		
${t}$ info	2022-03-14T11:09:10	VizGateway	VizGateway Initialized		
${i}$ info	2022-03-14T11:09:03	VizGateway	Stopping gateway.		
${i}$ info	2022-03-14T11:08:41	VizGateway	VizGateway Initialized		
U Start Gateway licensed until: 2022-05-31T1 4:00:00+0200					

### 6.4.3 To Restart Gateway

Restart the Gateway client when it is running.

#### **A** Note: Refreshing the browser does not restart the Gateway; it only reloads the page.

1. Click Restart.

( <sup>1</sup> ) Stop	Restart	Gateway licensed until: 2022-05-31T14:00:00+0200

2. You receive a message that Gateway is stopping, followed immediately by another message that Gateway is initializing again.

📃 Log Traffic 🛛 🗾 Errors (0) 🛕 Warnings (0) 🦿 Messages (11) 🚳 Verbose (0)						
Туре	Time	Source	Message			
i info	2022-03-14T11:16:55	VizGateway	VizGateway Initialized			
${i}$ info	2022-03-14T11:16:55	VizGateway	Stopping gateway.			
${i}$ info	2022-03-14T11:15:32	VizGateway	VizGateway Initialized			
${i}$ info	2022-03-14T11:12:33	VizGateway	Stopping gateway.			
${i}$ info	2022-03-14T11:09:10	VizGateway	VizGateway Initialized			
${i}$ info	2022-03-14T11:09:03	VizGateway	Stopping gateway.			
() Stop	Restart Gateway lie	censed until: 20	022-05-31 T1 4:00:00+0200			

Tip: Please keep in mind that changing some Gateway configuration settings requires a restart in order for the changes to take effect.

# 6.5 Status Indicators



The client has three status indicators with visual indicators:

- **Connection**: Indicates if the Gateway Controller Client has a connection to the Gateway server.
- **DB Connection:** Indicates if the Gateway server has a connection to the database.
- **Running:** Indicates if the appointed Media Sequencer is configured and running as a Gateway server.

#### 6.5.1 Visual Indicators



Connected visual indicator.



Not connected visual indicator.

# 7 Configuration

This section describes how to configure the Gateway server, and the control stations. Before any configuration can be done, information about the NCS servers and database must be obtained.

This section contains information on the following topics:

- Pre-Configuration
- Gateway Server
- · Viz Pilot and Viz Trio Gateway Configuration
- NCS Specific Considerations
- Launch Standalone MOS Config Web-Application
- Viz Multiplay Gateway Configuration

## 7.1 Pre-Configuration

From the NCS, obtain the following information:

• NCS ID, NCS server IP, MOS version, and MOS ID.

To use the Oracle database as a backend, obtain the following information:

· Oracle System Identifier (SID), username, password, and UTF-8 character encoding.

To use the Pilot Data Server as a backend, obtain the following information:

• Base URL and the port number for the Pilot Data Server: http://hostname:8177

If the Gateway is installed on another host than the Oracle database, the hostname of the database must be used in addition to the SID (*<hostname>/<SID>*). To test the database connection, try typing *tnsping hostname/SID* on the command-line.

Port numbers used in screen-shots in this document are standard port numbers used in the MOS Protocol. Other port numbers may be used.

## 7.2 Gateway Server

Configuring the Gateway server can be done locally on the server host, where the Media Sequencer with the MOS gateway functionality is installed, or remotely from a client machine using the Gateway Controller web-application. In both cases, the web interface application is used.

- Activate the Gateway Server
- Backend Config
- Newsroom Servers
- Routing
- Failover
- Control Station Backup

#### 7.2.1 Activate the Gateway Server

Connect to the Gateway at host <*ADDRESS*> (substitute <*ADDRESS*> with the actual hostname or IP address) by browsing to the following web address: *http://<ADDRESS*>:8580/app/gatewaycontroller.html

The first time the Gateway server is used, it needs to be initialized. Click the **Start** button, and the Media Sequencer is enabled as a Gateway server. When the Gateway server is enabled the *Running* indicator indicates connection.



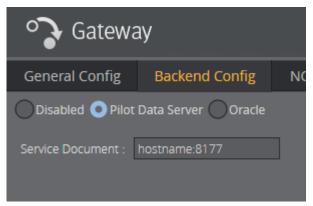
#### 7.2.2 Backend Config

The Gateway may be configured to synchronize meta data about Pilot data elements with the NCS. When enabled, the Gateway will send MOS Object messages to the NCS containing meta data when Pilot data elements are added, updated or removed. The NCS will typically based on this meta data provide a list of elements, which may be added to stories by the user. The backend for providing Pilot elements can be configured in the Backend Config tab. Pilot Data Server and Oracle database are supported as backend.

#### Pilot Data Server

The Pilot Data Server option can be used to connect to both of Viz Pilot's currently supported database backends: Graphic Hub and Oracle.

The Pilot Data Server notifies the Gateway about changes in the database (using a STOMP based protocol with fallback to polling the Pilot Data Server's change log). The Gateway generates MOS Object messages that are sent to the the NCS to synchronize meta data about the Pilot data elements.



- 1. Click the **Backend Config** tab.
- 2. Select Pilot Data Server.
- 3. Enter the base URL with the port number: *hostname:8177*.

#### Oracle

The Oracle option is mainly used for Viz Pilot setups that are not running Pilot Data Server version 7.0 or later.

Stored procedures in the Oracle database backend notifies the Gateway about changes to Pilot data elements in the database. The Gateway generates MOS Object messages that are sent to the NCS to synchronize meta data about the Pilot data elements.

Sateway						
General Config	Backend Config	NC				
Disabled Pilot	: Data Server 🧿 Oracle					
Schema Name :	PILOT	]				
SID :	changeme	]				
User :	changeme	]				
Password :						
Log DB Messages :						

- 1. Click the **Backend Config** tab.
- 2. Select Oracle.
- 3. Enter the Schema Name, SID (EZCONNECT) connection string, User and Password for the database.

**Note:** The database Schema Name is case sensitive.

- 4. Check the Log DB Messages (optional).
- 5. Click **Apply Settings**.
- 6. For changes to take effect on the Gateway server, click Restart.

The procedure above should connect the Gateway server to the Viz Pilot database, switch the DB connected indicator to green, and enable the Gateway server to receive messages from the database.

Important! Before installing the Gateway Controller Client, make sure an Oracle Database Client is installed and working. The Oracle Client version should match the Oracle Database in use. If using a 64-bit Gateway, the Oracle Client must be 64-bit. Oracle uses the Windows PATH environment variable to select which Client to use if there are several Oracle Clients installed.

#### 7.2.3 Newsroom Servers

Click the NCS Server Config tab to configure the newsroom servers. Configuration is done per newsroom system.

BGOQAENPS7				
New NCS				
New NCS#2		Create New NCS		
example2		Name (NCS ID) :		

If no newsroom system is added to the Gateway server, do the following:

- 1. Click the Add New button and the Create New NCS dialog appears.
- 2. Enter the NCS ID, and click OK.
- 3. Select the newly-added entry from the list of newsroom systems.

In the Basic Settings frame, change the following:

- 1. Enter the server IP and MOS ID. The rest are optional settings.
- 2. In the Advanced Settings frame, different settings can be enabled or disabled depending on the newsroom system in use.
- 3. When done click the **Apply Settings** button.
- 4. Click the **Restart** button for changes to take effect on the Gateway server. Repeat the steps above to add all the needed newsroom systems.

Tip: If the newsroom systems have the same setup, select a newsroom system from the list and click the Duplicate button.

#### 7.2.4 Routing

<b>a</b> tewa	ау						
General Config	Backend Config	NCS Server Config	Routing	Failover Settings	Active Connections	Active RO's	Control Station Backup
roChannel Name :		Control Station IP :					

Click the Routing tab to manually configure routing of running orders, also known as rundowns and playlists, to the control station.

- 1. Add the roChannel name and control station IP and click the Add Route button.
- 2. For the routing to take effect, click the **NCS Server Config** tab and check the **Enable Autoactivation** box for the newsroom system that the running orders are automatically routed from.
- 3. When done, click the **Apply Settings** button.
- 4. Click the **Restart** button for changes to take effect on the Gateway server.

# 7.2.5 Failover



The failover setting allows the Viz Gateway server to send its messages to more than one NCS system. For failover to work, the newsroom system must be setup with a *main* and *backup* server accordingly.

#### To Set up Main and Backup Servers

- 1. Add a main and a backup NCS from the drop-lists.
- 2. Click the Add Failover Pair button.
- 3. The setting is set to Active after adding a pair.
- 4. The Always use Main NCS ID setting should be left inactive unless using the Sobey NSC system.
- 5. Click the **Restart** button for changes to take effect on the Viz Gateway server.

**A** Note: Currently, this feature is only supported by ENPS and Sobey.

## 7.2.6 Control Station Backup

Sateway								
General Config	Backend Config	NCS Server Config	Routing	Failover Settings	Active Connections	Active RO's	Control Station Backup	
Main Control Station IP :		Backup Control Station	n IP :	+ Ad	d Backup — Remove Backu	p		
Main Control Station IP		Backup Control Stat	tion IP					
10.211.112.55								
10.211.111.126		10.211.111.129						
10.211.111.136		10.211.111.178						
10.211.111.144		10.211.111.4						

The Control Station Backup setting allows Gateway to send each message that has been targeted to both a specific control station and a backup control station simultaneously.

To configure:

- 1. Add the IP address for the main and Backup Control Station and click the **Add Backup** button.
- 2. Click the **Restart** button for changes to take effect on the Gateway server.

Note: It is possible to configure a system where two control stations are backup for each other.

As an example, let's say we have two Media Sequencers as control stations: servers **A** and **B**. Now we take the actions in the table below:

Action	Result
Set server <b>A</b> as <i>Main</i> , <b>B</b> as <i>Backup</i> using the <b>Add Backup</b> button.	A is now Main, B is Backup.
Keep the definitions from the step above, and now add <i>B as Main</i> and <i>A as Backup</i> .	Both control stations A and B are updated with MOS messages, both are running.
From a Viz client, such as Trio or Pilot, connect to B and request a MOS playlist.	Control station B becomes Main control station now. Whichever control station requests MOS playlist first, becomes Main control station. The MOS playlist becomes available to both of the control stations.
Shut down control station <b>B.</b>	Control station <b>A</b> becomes <b>Main</b> and start receiving and sending all the updates. Gateway does not receive any message from Control station B.

# 7.3 Viz Pilot And Viz Trio Gateway Configuration

All content control applications use the same settings to connect to the database.

To access these settings use the following menu options:

- Viz Pilot: from the main menu select **Tools > External Interfaces**, and the Viz Pilot Database and MOS tabs.
- Viz Trio: from the main menu select **Config > Connectivity > MOS**.

9		External Interfaces		- 0	×
VCP Database	Viz One	MOS	GPI	VDCP	4
Viz Gateway Conne Viz Gateway Conne Viz Gateway Conne O • Messag Viz Gateway Hor 10_211.112.3 MOS ID PILOT Send status	ection Stop	Restart lisabled) / Port	GPI	VDCP	
Send timelin	e changes back to NCS				
					ĸ

# 7.3.1 Gateway Configuration for Viz Pilot

	Trio Configuration         Image: Enable Gateway Configuration         Viz Gateway Connection         Start       Stop         Restart         Viz Gateway Connection Config         Image: Messages per second limit (0=disabled)         Viz Gateway Host       Viz Gateway Port         IO_211.112.37_       I0640         MOS ID       NCS ID         PILOT       INEWS4X         Send status changes back to NCS         Gend channel essignment changes back to NCS
Viz One Import/Export Settings OK Cancel A	pply Reset

# 7.3.2 Gateway Configuration for Viz Trio

## 7.3.3 Database Settings

For Viz Pilot and Viz Trio, these settings are available under the VCP Database tab.

• Connection string: Sets the connection to the database.

**A** Note: Use the following string format: *user-name/password@database*.

• Schema: Shows the name of the Oracle schema.

**A** Note: The Schema name is case-sensitive, typically given in uppercase.

Viz Media Sequencer Connection String:	
pilot/pilot@ <ip address="">/<sid></sid></ip>	
Schema	
PILOT	
Apply	

#### 7.3.4 Gateway Connection

For Viz Pilot and Viz Trio, these buttons are available under the MOS tab.

- **Start:** Starts a connection to Gateway server.
- **Stop:** Close a connection to Gateway server.
- **Restart:** Restarts a connection to Gateway server.

#### 7.3.5 Gateway Connection Configuration

For Viz Pilot and Viz Trio, these settings are available under the MOS tab.

- **Automatic reconnect:** Starts the Gateway connection automatically when starting or resetting the Media Sequencer.
- **Reconnect interval (sec)**: Specifies the number of seconds that the Media Sequencer should wait, when the connection is lost, before trying to reconnect to Gateway.
- Gateway Host: Shows the IP address of the Gateway host.
- Gateway Port: Shows the port number on the Gateway host.

**A** Note: MOS ID and NCS ID should be left empty for Gateway version 2.0 or newer.

• Send item stat: Sends feedback to the NCS via MOS, for example information about the transfer status of elements.

# 7.4 NCS Specific Considerations

This section describes some NCS specific considerations that must be taken into account when configuring Gateway with an NCS. For other NCSs, than the ones mentioned below, a generic configuration should be sufficient, see the Configuration Section.

#### 7.4.1 ENPS

Gateway supports an ENPS Buddy setup. Use the Failover settings to add a main and backup server.

#### Buddy Support

The ENPS NCS can be configured to run with an identical mirror server (called a "buddy") at all times, as a failover. Gateway supports this setup, and offers a failover configuration in the Gateway Controller Client. This enables Gateway to send messages to more than one NCS.

If the primary server fails or is down for maintenance, all messages are sent to the buddy server until the primary comes back on-line. All changes received from the Gateway are queued on the ENPS buddy server, and copied back to the main server automatically when it returns to production.

#### 7.4.2 Avid iNews

Note: Avid iNews version 2.6, and newer, can be used with Gateway. Older versions are not compatible.

There is no need to enable the DB connection for iNews. It does not need metadata about Vizrt MOS objects as it only refers to the MOS object ID and not the entire MOS object.

# 7.5 Launch Standalone MOS Config Web–Application

For setups where no Control Clients (Viz Trio/Viz Pilot Director) are part of the system, you can still launch a standalone MOS Config web-application to configure your Control Station to connect to Viz Gateway.

#### 7.5.1 Setting up your Control Station as a MOS Client

The Media Sequencer running on your Control Station must first be configured to connect to a Viz Gateway.

On the the Control Station which runs the Media Sequencer, open the following page in a Web Browser: http://localhost:8580/app/mosconfig/mosconfig.html .

▲ Note: It is important that the URL above connects to the Media Sequencer running on the Control Station, and not the Media Sequencer on the Gateway Server. See Gateway Server for details on how the Gateway Controller web-application is used to configure the Media Sequencer running on the Gateway Server.

$\leftarrow$ $\rightarrow$ C (i) localhost:8580/app/mosconfig/mosconfig.html
MOS Client Status
Stop
MOS Client Settings
Gateway Host : 10.211.112.37
Send available status back to NCS
Send local channel assignment back to NCS
Send video status changed back to NCS
Auto-activate MOS Playlists
Apply Settings Cancel Settings

## 7.5.2 MOS Client Status

In this scenario, the MOS client is the Media Sequencer. The MOS client must be configured to communicate via the MOS protocol to a Viz Gateway.

- **MOS Client Status** shows whether the Media Sequencer is able to connect to the Viz Gateway.
- You can also **Start** and **Stop** the local client.

#### 7.5.3 MOS Client Settings

- **Gateway Host:** Host name or IP of the machine running Viz Gateway.
- Send available status back to NCS: Sends the available-status for elements containing clips and/or images back to the NCS as Ready or Not Ready.
- Send local channel assignments back to NCS: It is possible to make last-minute changes to an element's playout channel in Viz Multiplay. The Media Sequencer then sends this channel assignment back to the newsroom system if this setting is enabled. If this setting is disabled, the local change may be overwritten on the next update from the newsroom system.
- Send video status changed back to NCS: Sends the clip playback status (CUED, PLAYING, STOPPED) back to the NCS.

- Auto-activate MOS playlists in profile: If no client application operates the MOS rundown (and if it's controlled by an automation system, for example) you can auto-activate all MOS playlist for a specific profile.
- **Apply Settings:** Applies the changed settings without closing the window. This button is only enabled when changes have been made.

# 7.6 Viz Multiplay Gateway Configuration

Viz Multiplay can be used as a MOS client. This means that the rundown is created in a Newsroom Computer System (NCS). The rundown can be transferred to the local Media Sequencer from NCS via Viz Gateway and controlled by Viz Multiplay.

#### 7.6.1 Setting up Viz Gateway to Act as a MOS Client

The Media Sequencer must first be configured to connect to a Viz Gateway, which connect to multiple NCSs. All the rundowns controlled by the Viz Gateway will then be listed when you add an external playlist to a show in Viz Multiplay.

Settings						
General	Profiles	Workspaces	Inboxes	Servers	Color correction	MOS Config
MOS Client Connected Stop	: Status					
MOS Client	Settings					
Gateway Hos	t : bgo-vizgw					
🔽 Send avail	able status bac	k to NCS				
V Send local	channel assign	ment back to NCS				
Send video	o status change	d back to NCS				
Auto-activ	ate MOS Playlis	ts				
in Profile						
Apply Setting	s					

#### Open Settings > MOS Config:

#### 7.6.2 MOS Client Status

In this scenario, the MOS client is the Media Sequencer. The MOS client must be configured to communicate via the MOS protocol to a Viz Gateway.

- **MOS Client Status** shows whether the Media Sequencer is able to connect to the Viz Gateway.
- You can also **Start** and **Stop** the local client.

## 7.6.3 MOS Client Settings

- **Gateway Host:** Host name or IP of the machine running Viz Gateway.
- Send available status back to NCS: Sends the available-status for elements containing clips and/or images back to the NCS as Ready or Not Ready.
- Send local channel assignments back to NCS: It is possible to make last-minute changes to an element's playout channel in Viz Multiplay. The Media Sequencer then sends this channel assignment back to the newsroom system if this setting is enabled. If this setting is disabled, the local change may be overwritten on the next update from the newsroom system.
- Send video status changed back to NCS: Sends the clip playback status (CUED, PLAYING, STOPPED) back to the NCS.
- Auto-activate MOS playlists in profile: If no client application operates the MOS rundown (and if it's controlled by an automation system, for example) you can auto-activate all MOS playlist for a specific profile.
- **Apply Settings:** Applies the changed settings without closing the window. This button is only enabled when changes have been made.

# 8 MOS Protocol Support

# 8.1 MOS Profile Support

Gateway supports the following MOS profiles:

Profil e	Definition	Suppo rted	Vizrt Comment
0	Basic Communicati ons	yes	
1	Basic Object Based Workflow	yes	
2	Basic Running Order/ Content List Workflow	yes	
3	Advanced Object Based Workflow	partly	Only mosItemRep lace is used.
4	Advanced RO/Content List Workflow	yes	
5	Item Control	partly	Only roCtrl is supported.
6	MOS Redirection	yes	
7	MOS RO/ Content List Modification	no	

# 8.2 MOS Protocol Support

Gateway supports these MOS protocol versions:

Protocol version	Supported
2.6	yes
2.8.0	yes
2.8.1	yes*
2.8.2	yes*
2.8.3	yes*
2.8.4	yes*
2.8.5	yes*

\*Both the Media Sequencer hosting the central Gateway and Media Sequencer clients must be upgraded to version 5.3 or later to support MOS Protocol version 2.8.1 or later.

#### See Also

• For more information about the MOS protocol, see mosprotocol.com.

# 9 Installation Test

This section describes how to test the installation of Gateway with Vizrt content control applications such as Viz Pilot and Viz Trio.

Content control applications usually do not edit playlists because a content control application is unable to update the NCS. Changes on the control station could cause undesired effects in the playlist when a story is updated from by newsroom system. However, Vizrt content control applications are capable of editing their own MOS Objects (also known as data elements) if needed.

This section contains information on the following topics:

- Viz Pilot
- Viz Trio

#### 9.1 Viz Pilot

		BG0422W1	CHANNEL #1	CHANNEL #2	G
--	--	----------	------------	------------	---

Before running an installation test, check that all settings and see that the connection status in the content control application is good.

- $\cdot \blacksquare$  Connection to the database is good.
- 📃 Connection to the Viz Engine renderer is good (program or preview).
- G Connection to the Gateway is good.

#### 9.1.1 Request Running Order

		PlayLists	•		
DB playli	sts	MSE Playlists			
Name				Modified	∆   Profile
🖯 🖂 МОЗ	6 Playlists				
8	TENPS				
	Vizrt Pla	aylist [TENPS]			
	TINEWS				
	MENPS50V	/M4			
	BENPS50V	M4			
	MENPS50V	/M3			
	BENPS50V	МЗ			
New	/ playlist			11/9/2007 10	):20:4E
<					>
🙁 Find: 🛛					▲

A Note: In Viz Pilot, a running order is called a playlist.

- 1. Click the Playlists button on the control panel to the left.
- 2. Select the MSE Playlists tab.

(i) Information: All newsroom systems, represented by the NCS ID, that are connected to Gateway can be seen in the list.

3. Select the newsroom system, and then select one of its running orders. Double-click the running order to open and monitor it.

	Back	Stop	<b>b</b> Start	Pause	Continue Ta	ke Out	Clip	Load	Initialize	»	ļ
	Name	e First sto				hannel		emplate	Concep	ot Var	iant
▶		E Low		est	CHAN	NEL	. 🔻 Lo	wer3rd	[A Ne	. 🔻 [Lo	🔻
	Vext	Previous	Cursor	Expand	Collapse	<b>B-</b> Merge	<b>-Æ</b> Split	NCS line	<b>Filter</b>		»»
	st: 2.168.	110.130	Sta 201		3T11:00:00	Durati 00:30			MOS: Active		

- 4. Verify that the status bar is green indicating the the playlist is MOS active. If not, right click on the status bar, and select request.
- 5. Check that the playlist has the same story and items as the one created in the NCS.

	Name	Channel	Template	Concept	Variant
	🗧 🚭 First story				
►	El Lower3rd Test	CHANNEL 💌	Lower3rd	[A Ne 💌	[Lo 🔻
	🛓 🔁 Second story				
	🔲 Fullscreen Test	[MAIN]	Portrait	[A News]	[Quote]

6. Add a new story and see that Viz Pilot receives the update.

Note: All items in a running order need a MOS Object, created in the NCS client, to be visible in the Viz Pilot playlist.

This concludes the installation test for Viz Pilot. For more information on how to use Viz Pilot with newsroom systems and Gateway, see the Viz Pilot documentation.

# 9.2 Viz Trio

🔳 CHANNEL #1 (program) 🔳 CHANNEL #2 (preview) 🜀 🤗

Before running an installation test, check that all settings and see that the connection status in the content control application is good.

- Connection to the Viz Engine renderer is good (program or preview).
- Connection to the Gateway is good (third rectangle from the left).
- 🗧 Connection to the database is good.

#### 9.2.1 Request Running Order

Config Help	and the second s	. Barrow	14
Show Control			
		Show Concept	• <b>•</b>
Show Directories			×
Shows Playlists			
Name	Status	Active	State
MOS Playlists			
TENPS			
OCTOPUS			
-TINEWS3		2	
-IN3PSVVM		<u> </u>	
DALET			
-BGOINWS4			
-OCTOPUS7			
-INEWS4X			
BGOQAENPS7			
tv4-news-super-test [BGOQAENPS7]			
-tv4-test-new [BGOQAENP57]	OK	<b>v</b>	Inactive
-final test [BGOQAENPS7]			Inactive
-3pm show [BGOQAENPS7]			Inactive
Sky Sport News [BGOQAENPS7]		1	Inactive

- 1. Click the Change Show button (depicted as a folder).
- 2. Click the MOS Playlists tab. If all settings are correct the running order from the NCS should be visible.

Vizrt Playlist [TENPS]			▲ ×
Description		Templa	ate Status
🕀 🖶 First story			
Lower3rd Te:	st	Lower3	rd
	<b>_</b>	II	
Host: 192.168.110.130	Start: 2007-11-13T11:00:00	Duration: 00:30:00	MOS: Active
172.1200.120.100	2007 11 10/11/00/00	00100100	Houro

3. Select the playlist and click **OK**.

Vizrt Playlist [TENPS]						
	Templa	te Status				
🕀 📇 First story						
Lower3rd Test Lower3rd						
🕀 🖶 Second story						
Fullscreen Test Portrait						
Start: 2007-11-13T11:00:00	Duration: 00:30:00	MOS: Active				
	est Start:	est Portrait				

- 4. Verify that the status bar is green indicating the the playlist is MOS active. If not, right click on the status bar, and select request.
- 5. Add a new story and see that Viz Trio receives the update.

▲ Note: All items in a running order need a MOS Object, created in the NCS client, to be visible in the Viz Trio playlist.

This concludes the installation test for Viz Trio. For more information on how to use Viz Trio with newsroom systems and Gateway, see the Viz Trio Documentation.

# 10 Troubleshooting

This section explains some common challenges users have when configuring and running the Gateway server with connections to newsroom systems, Viz Pilot databases and content control applications like Viz Pilot and Viz Trio.

# 10.1 Common Sources Of Error

- NCS and MOS IDs are case-sensitive (check the newsroom system and Gateway).
- · Gateway must be restarted after configuration changes.
- Software or hardware firewalls are blocking connections. Verify that the gateway has connections to all newsroom systems and control stations.

# 10.2 Running Orders From The Newsroom System Are Not Visible In Viz Pilot Or Viz Trio

- Check the configuration on the newsroom system. Is the Gateway configured with the correct IP and MOS/NCD-id? Remember that these ID's are case-sensitive.
- Check the logs on the newsroom system. Is the system sending anything to the Gateway when a new running order is created? If not, make sure that no firewall (software or hardware) is blocking the connections, and that the configurations are correct.
- In the Gateway Controller Client, check that there are at least two connections to the newsroom system. If no connections are shown, verify that the IP address entered for the system is correct, and that no firewall (software or hardware) is blocking the connections. Check the log-window for errors and warnings.
- In the Gateway Controller client, check that there is exactly one connection to each control station (media sequencer) that you wish to use.
- Enable logging of traffic, and set the log level to "notice" in the controller client:
  - Is the gateway receiving any traffic from the newsroom system? If not, the source of the problem is likely to be the communication between the newsroom system and the gateway.
  - If the gateway is receiving traffic (like a "roCreate" when creating a rundown and MOS activating it), is the gateway sending any traffic to the control stations after receiving such a message?
  - If messages are sent to the correct IP (control station), check the media sequencer logs on this computer for errors.

# 10.3 Auto Activation (Routing) Enabled For Running Orders, But Are Not Automatically Enabled Or Forwarded To The Control Station

If routing is used, either based on roChannel or "default routing", make sure that every newsroom system the control stations should receive running orders from, check the *enable autoactivation* checkbox in **Advanced Settings**.

# 10.4 Data Elements (MOS Objects) Are Not Showing Up In The Newsroom System

- The Gateway pushes a list of MOS objects to each connected newsroom system, only if the checkbox *pushmoslist* is checked.
- The Gateway sends MOS object messages each time a Viz Pilot data element is created, modified or deleted, only if the checkbox *send mosObj* is checked.
- The Viz Pilot Database section of the Gateway must be enabled in order to send MOS objects, and the "DB connected" indicator must be green. If the indicator is red, and the "enable Viz Pilot Database" is checked, check for errors and warnings in the log window.
- Some common errors:
  - Is an Oracle 10g client installed on the computer running Gateway?
  - Is it possible to log onto the Oracle server using the same credentials as entered in Gateway Controller Client, using the SQL Plus interface?
- $\cdot$  Check Gateway's log messages to see if MOS messages are sent to the newsroom system.
- Database schema names are case sensitive. The default Viz Pilot database schema name is *PILOT* (all upper case). Check the database installation to see if this is correct, or if another schema name is used.
- $\cdot\,$  Check that the database is running by logging onto the database using SQL Plus.
- Check that the Oracle client's environment path is correctly set. Run the Media Sequencer in console mode and check the console's output for problems related to the Oracle Call Interface (OCI) library.
- See also Advanced Queuing (AQ) is not working properly.

# 10.5 Gateway Server Is Not Running (Running Status Is Red)

- · Check for error and warning messages in the log window.
- Gateway fails to start if another Gateway is running on the same computer, for example an old Gateway version 1.x.

▲ Note: A Gateway server must not be used by control stations as a regular Media Sequencer. If so the Media Sequencer will not run as a Gateway server. If this has been done, re-activate the Media Sequencer to run as a Gateway by clicking the Start button.

# 10.6 Ports And Connections Are Irregularly Opened And Closed

- · Check firewall settings for ports that need to be open.
- · Check typical router and routing issues.

# 10.7 Advanced Queuing (AQ) Is Not Working Properly

- An XML parser failure may be an indicator that the wrong AQ protocol is in use on the database.
- Check if the Extended AQ is in use on the database. Gateway should detect if AQ is in use or not and set the correct parameters.

# 10.8 Changes Are Not Taking Effect

Most changes on the Gateway server require a restart of the server. Use the Gateway Controller Client to check the settings again, and restart the Gateway server by clicking the **Restart** button.

# 11 Glossary

This section explains some of the expressions and acronyms used in this manual.

Expression	Ac ro ny m	Description
Media Object Server	M OS	MOS is an evolving protocol for communications between Newsroom Computer Systems (NCS) and Media Object Servers (MOS) such as Video Servers, Audio Servers, Still Stores, and Character Generators. For more information, please see the MOS Protocol website: http:// www.mosprotocol.com.
MOS Lower Port		MOS Lower Port (10540) is defined as the default TCP/IP port on which the NCS accepts connections from MOS devices. Multiple simultaneous connections are supported. This socket is referred to as <i>Media Object</i> <i>Metadata</i> port in the Message Types section.
MOS Upper Port		MOS Upper Port (10541) is defined as the default TCP/IP port on which the MOS accepts connections from the NCS. Multiple simultaneous connections are supported. This socket is referred to as <i>Running Order</i> port in the Message Types section.
Running Order	R O	To Viz Pilot and Viz Trio, a running order is the same as a playlist. It contains objects that reference the information about graphics elements created by the journalist using the Newsroom Connect Component. A Running Order consists of zero or multiple stories, which again contains one or multiple items. Objects can appear multiple times in a story, but only once in an item.
Viz Content Pilot	V CP	This product is now re-named Viz Pilot, but you can still find references to its old name.
Accumulate Running Order List		When this setting is enabled, Gateway keeps an internal list of available rundowns. Less traffic is generated to and from the NCS when the list is accumulated internally.