

# Viz Mosart Web Applications

Version 2.1





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#### **Created on**

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Mosart Web Applications are value-adding utilities and plugins that simplify working with Viz Mosart. They are *not* part of a standard Viz Mosart delivery.

# 1 Getting Started

1. Collect the latest software bundle from Vizrt's customer FTP at https://download.vizrt.com/ by navigating to /products/VizMosart/Latest Version/WebApplications/.

Note: If upgrading, make sure an existing instance of the Mosart Web Applications Configuration Tool is not open.

2. Run the downloaded file MosartWebApplications.Bundle-n.n.n.n.exe.



The web applications that will be installed are listed.

- **A** Note: The Installer places these services and applications on the target machine:
  - 1. Mosart Web Applications: A Windows service that serves the Mosart Web Applications.
  - 2. Mosart Web Proxy: Caddy2 bundled within the Mosart Web Apps installer, running as a Windows service.
  - 3. Mosart Web Applications Configuration Tool: A desktop web application for configuring and launching the web applications.
  - 4. The set of Mosart Web Applications listed on the Installer.
- 3. Click Install.

Any previously installed versions of the Mosart Web Applications are automatically upgraded. All configurations and preferences are retained.

4. After successful installation, the **Mosart Web Applications Configuration Tool** displays, together with a desktop shortcut enables quick access.

er war Winster Viz Mosart	App Launcher	- ×
Web Apps	A NRCS Plugin	
別 App Configuration 目 Server Configuration	Timing Display	
II User Guides	😫 Rundown Viewer	
	Showmaker	

5. From the left panel, select one of the following:

	App Launcher
● App Launcher	App Configuration
👭 App Configuration	Server Configuration
Server Configuration	User Guides
i User Guides	

 If your system is already configured, click App Launcher and select from: NRCS Plugin Timing Display Rundown Viewer Showmaker (Early Access).

• If this is your *first running* of the Mosart Web Apps Configuration Tool, you must make some one-time configurations,

as described in Mosart Web Applications Configuration Tool.

# 1.1 User Guides

Links to a recent version of the documentation.

**Tip**: These onboard descriptions are often early drafts. For *latest documentation*, visit the online resources at the Viz Mosart Documentation Center.

# 2 Related Documents

- Viz Mosart User Guide: Operating Viz Mosart in a live production.
- Viz Mosart Administrator Guide: Configuring and customizing Viz Mosart and pre-production show design.

For more information about all of the Vizrt products, visit:

- www.vizrt.com
- Vizrt Documentation Center
- Vizrt Training Center
- Vizrt Forum

# 3 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.

# 4 Mosart Web Apps Configuration Tool

- App Configuration
- Server Configuration
- HTTPS Usage Notes
  - Certificate Requirements
  - Certificate Installation
- Troubleshooting



The Configuration Tool enables rapid setup and management of all your the Mosart Web Applications.

• If your setup is already configured, use **App Launcher** for *NRCS Plug*, *Timing Display*, *Rundown Viewer* and *Showmaker*.

However, on *first run*, you must perform all necessary one-time setups for all the Mosart Web Apps from two menus:

- App Configuration
- Server Configuration.

# 4.1 App Configuration

- NRCS Plugin
- Showmaker (Early Access)

Most settings here are needed when you

- Use the NRCS Plugin or Showmaker (Early Access) for the first time.
- Installed the Mosart Web Apps bundle on *a separate server* to the Viz Mosart server.

# 4.1.1 NRCS Plugin

### To configure the NRCS Plugin

- 1. First perform the Getting Started (Installation) procedure.
- 2. Select App Configuration and click NRCS Plugin.

Viz Mosart Web Apps	App configurations		
<ul> <li>Server Configuration</li> <li>User Guides</li> </ul>	CONFIGURE NRCS PLUGIN		
	NRCS type @	iNews	
	Preview URL: http://viztvi-cv/?9r6r.55142/plugin?nrcs=iNews		G
	ACCESS MOSART TEMPLATES		
	Location		
	Local	Database	
	C:vchanneltemplates O Channeltemplates folder is valid		Choose folder

- 3. From the **NRCS type** drop-down menu, select your newsroom system type.
- 4. (If *iNEWS* is selected **NRCS type**, ignore this step)

Enter **Mos ID**.

This is a mandatory field if you select NRCS type *ENPS*, *Octopus* or *Other*. **To find your Mos ID** 

a. In the Manus Administrator console, type settings.

For more details, see the Viz Mosart Administrator Guide, section Manus Administrator > Settings Editor MOS > NRCS Configuration.

5. Back in the Web Apps Configuration Tool **App Configuration** page for the NRCS Plugin, in section **ACCESS MOSART TEMPLATES**, specify the location of your Viz Mosart templates.

Viz Mosart	App Configuration	
web Apps		
♠ App Launcher	ND/CS Diugin Showmaker	
14 App Configuration		
Server Configuration	ACCESS MOSART TEMPI ATES	
1 User Guide		
	Location	
	Local	Database
	C:\channeltemplates	Choose folder
	⊘ Channeltemplates folder is valid	

### This can be either

- a. Local: By default, this is a local folder C:\channeltemplates. The tool will automatically scan for three files:
  - channeltemplates.xml
  - avconfig.xml
  - newsroomsettings.xml
    - If successfully identified, a green validation message is displayed.

ACCESS MOSART TEMPLATES		
Location		
Local	Database	
	I	
C:\channeltemplates	Choose folder	
⊘ Channeltemplates folder is valid		

- b. A network folder: When your template folder is on a network drive
  - i. Click **Choose folder** and navigate to the target folder.
  - ii. Ensure the network folder has adequate permissions.
- c. Database: If template details are stored in a database, enter host access and authentication details.

Database	
e.g. database-server	
mosarttemplatedb	
e.g. Admin	
******	~
******	ý

6. Click Save.

**Note**: To complete the NRCS Plugin setup, you will also need to visit the **Server Configuration** page, presented below.

# 4.1.2 Showmaker (Early Access)

Showmaker can run standalone, as a rundown (running order) creation tool.

If you wish to use Showmaker with Viz Mosart, follow these instructions, that depend on whether Showmaker is installed on the Viz Mosart server or another machine.

### MOS COMMUNICATION SETTINGS

The following configurable properties define the communication.

Property	Description
NRCS ID	This is the Newsroom System ID for Showmaker. Set this ID on any MOS- enabled device to establish communication with Showmaker. For Viz Mosart, this value must be set in Viz Mosart Manus Admin. <i>Default</i> : <b>SHOWMAKER.MOS</b> .
MOS Device ID	This is the ID of a MOS device configured to communicate with Showmaker. For Viz Mosart, copy this value from Manus Admin <i>settings</i> > <i>MOS</i> section . <i>Default</i> : <b>MOSART.MOS.SHOWMAKER</b> .

Property	Description
MOS Device URL	The URL for connecting to a MOS device. For Viz Mosart server, the URL is ws://mosart-server-host:10540/mos/ mosartsocket. The port in the URL (10540) is the MOS lower port configured in the Settings menu of Manus Admin, under the <i>MOS</i> section. <i>Default</i> : ws:// localhost:10540/mos/mosartsocket.

### To establish communication between a MOS device and Showmaker

There are two alternative, depending on your network type.

- Showmaker is installed on the same server as Viz Mosart.
- Showmaker is installed on separate server to Viz Mosart.

#### Showmaker is installed on the same server as Viz Mosart

- 1. If you are running Showmaker on the *same* server as the Viz Mosart server, the Configuration Tool provides a way to automatically configure Viz Mosart to establish communication with Showmaker.
- 2. From the **App Configuration** page, under *Showmaker*, tick **View advanced options** and review settings. If necessary, adjust the default values as described in the table above.
- 3. In the same App Configuration menu for Showmaker, click Push Settings to Manus Administrator.

Q Viz Mosart	App Configuration
web Apps <ul> <li>▲ App Launcher</li> <li>↓ App Configuration</li> </ul>	NRCS Plugin     Showmaker
<ul><li>Iserver Configuration</li><li>User Guide</li></ul>	Connection settings
	MOS COMMUNICATION SETTINGS
	A local Viz Mosart Server is detected. Press the button to set up the comminication with Viz Showmaker.
	View advanced options

4. A warning message reminds that Manus Administrator shall *not* be running at this point. Ensure Manus Admin is closed before continuing.

	Current settings New settings					
GENERAL: GENERAL:						
NCS Type: <b>iNEWS</b> NCS Type: <b>Mos</b>						
MOS:	MOS:					
MOS Server: NCSSERVER	MOS Server:					
NRCS ID: NCSSERVER	ws:///IZRTVI- CV79R6R:55142/api/v1/showmaker/mos/mymossocketncs					
MOS ID: mosart.mos	NRCS ID: SHOWMAKER.MOS					
MOS Communication Mode: Socket	Mos ID: Mosart.Mos.ShowMaker					
	MOS Communication Mode: WebSocket					

5. To complete the action, click **Confirm**.

#### Showmaker is installed on separate server than Viz Mosart

If you are running Showmaker *on another server than the Viz Mosart server*, Viz Mosart must be manually setup to connect to Showmaker.

- 1. Review the advanced options and, if necessary, adjust the default values as described above.
- 2. In the App Configuration menu for Showmaker, click View Settings for Manus Administrator.

Settings for Manus Administrator	×
Settings	
GENERAL:	
NCS Type: <b>Mos</b>	
MOS:	
MOS Server: wss://lbu-pc2:55143/api/v1/showmaker/mos/mymossocketncs	
NRCS ID: SHOWMAKER.MOS	
Mos ID: Mosart.Mos.Showmaker	
MOS Communication Mode: WebSocket	
ок	

- 3. On the Viz Mosart server, in the Viz Mosart Manus Admin console, type settings
- 4. From the Settings menu that appears, navigate to the section **MOS**.

C Settings		_	;	×
<b>Q</b> Filter settings		All	Modifie	d
General	MOS			
File paths	• MOS Server (5			
Default template durations	IP address or hostname of the main newsroom system's MOS gateway.			
iNEWS	ws://VIZRTVI-CV79R6R:55142/api/v1/showmaker/mos/mymossocketncs			
MOS 🗸	MOS Server backup			
Viz Media Sequencer	IP address or hostname of the backup newsroom system's MOS gateway.			
Read speed				
Manus	• NRCS ID (			
Crossover	Same form as MOS ID, but this value is the ID for the newsroom system.			
Template database	SHOWMAKER.MOS			
Logging	NRCS backup ID			
Vizrt Graphics	Same form as MOS ID, but this value is the ID for the backup newsroom system.			
Generic REST drivers				
	• MOS ID [			

- 5. Configure the MOS settings as presented in the pop-up menu **Settings for Manus Administrator** (shown above) in the Web Apps Configuration Tool.
- 6. Click **Save**.

### Assets integrations settings

If you use either Viz Pilot or Viz Flowics to provide assets for your show, you need to configure some one-time settings.

#### **Viz Pilot**

- 1. If you will run Showmaker with assets from Viz Pilot, click VIZ PILOT GRAPHICS AND ELEMENTS.
- 2. By following the on-screen information (🕦 icon), provide values for
  - a. Application URL (where Viz Pilot Edge is running)b. MOS Plugin ID.
  - D. MOSPIU
- 3. Click Save.

### **Viz Flowics**

- 1. If you will run Showmaker with assets from Viz Flowics, click VIZ FLOWICS GRAPHICS.
- 2. Ensure you have your Viz Flowics (cloud application) credentials to hand.
- 3. By following the on-screen information (1) icon), provide values for
  - a. Integration token
  - b. Application URL (where Viz Flowics is running)
  - c. MOS Plugin ID.
- 4. Click Save.

Note: To complete the Showmaker setup, you will also need to visit the Server Configuration page, as described below.

# 4.2 Server Configuration

- Automatic Proxy Setup
- Manual Proxy Setup
- Enabling Updates from the Mosart Server over HTTPS

Most settings here are needed when you

- Install the Mosart web Apps bundle on *a separate server* to the Viz Mosart server.
- Move the Web Apps to a different server.
- Need to define the Viz Mosart backup server.
- Need to set up HTTPS across the Mosart network.

Mosart Web Apps communicates through a proxy server that must be configured.

You can choose to use the onboard proxy bundled with Viz Mosart or an external proxy.

Proxy setup method	
Automatic proxy setup	Manual proxy setup
© The automatic proxy setup method utilises an internal proxy web server where the configurations are automatic	ally generated based on the settings on this page.
PROXY WEB SERVER	
Address @	
VIZRTVI-CV79R6R	55142
MOSART MAIN SERVER Address: @ V2ETVI:CVRIAR	Port \$5107
MOSART BACK-UP SERVER If Viz Mosart is configured for redundancy with a main and backup server, provide the address of the backup	
HTTPS     Upload or manage certificates to ensure secure communication between clients and servers. When Viz Mosar     Viz Mosart Servers must be secured.	Web Applications is configured with HTIPS, all communication between Viz Mosart web clients, proxy server and

Click either

- Automatic proxy setup to use the onboard proxy server (Caddy v2).
- or
- Manual proxy setup to use your own proxy server.

# 4.2.1 Automatic Proxy Setup

To set up the automatic proxy server

- 1. You can use the onboard proxy web server where configurations are automatically generated based on the settings displayed on the **Server Configuration** page.
- 2. All default settings are already pre-filled and *no further action should be necessary*. However, if you need to change any values see the settings below:
  - a. **PROXY WEB SERVER** 
    - i. **Address**: Hostname or IP address of the machine where the Mosart Web Applications are installed. The system attempt an auto-detect. If the *FQDN is required* (for example, by a certificate), provide this instead.
  - b. MOSART MAIN SERVER
    - i. **Address**: By default, this field will contain the address of the Mosart Web Applications. Please enter the hostname, IP address, or FQDN of the main Viz Mosart server *if located on another machine*.
  - c. MOSART BACK-UP SERVER
    - When running Viz Mosart with a backup for redundancy, provide the backup server address. i. Select the **MOSART BACK-UP SERVER** check-box.
      - ii. Address: Enter the hostname, IP address, or FQDN of the backup Viz Mosart server.
- 3. Click **Save**.

### HTTPS

In this Automatic proxy setup, selecting HTTPS automatically configures both the Mosart Web Applications and the Mosart Web Proxy (Caddy). The hosts included in the certificate are validated against the web proxy server defined in the field **WEB PROXY SERVER > Address**. For the Mosart Web Proxy, the configured private key is used to automatically generate an unencrypted PEM format required by Caddy, which is saved in C:

\ProgramData\Mosart Medialab\Mosart Web Apps.

Note: If the Mosart Web Proxy and the Mosart Web Applications are configured with HTTPS, you must also configure HTTPS for the Mosart servers (main and backup, if applicable). See Enabling Updates from the Mosart Server over HTTPS.

# 4.2.2 Manual Proxy Setup

You can use an external proxy server, but it must be manually configured. If the external proxy server is configured with *HTTPS*, you must also set up HTTPS for the Viz Mosart Web Applications and Mosart servers.

**Tip**: You can examine the Caddy file generated when *Automatic proxy setup* is selected to understand how to set up an external proxy. This Caddy file resides at C:\ProgramData\Mosart Medialab\Mosart Web Apps.

### To set up a proxy server manually

1. From the Server Configuration page, select Manual proxy setup.

Server Configuration	
Proxy setup method	
Automatic proxy setup	Manual proxy setup
In Manual proxy setup method, you can use an external prox server is configured with HTTPS, it is required to setup HTTPS	xy server that was manually configured. If the external proxy S for the Viz Mosart Web Applications and Viz Mosart servers.
PROXY WEB SERVER	
URL	
e.g. https://external-proxy-server:1234	

2. Under section **PROXY WEB SERVER** in field **URL**, enter the URL address to the external proxy server. This must be a valid web URL starting with http or https.

### HTTPS

In *Manual proxy setup*, the certificate is only for the Mosart web server. The hosts included in the certificate are validated against the Mosart web server address field (under the **HTTPS** section). If you are using *HTTPS*, continue with steps **3** to **5** below.

3. Select the **HTTPS** check-box and follow the onscreen guidelines '1.

### V HTTPS

Upload or manage certificates to ensure secure communication between clients and servers. When Viz Mosart Web Applications is configured with HTTPS, all communication between Viz Mosart web clients, proxy server and Viz Mosart servers must be secured. This section enables HTTPS for the Viz Mosart Web Applications only. Enabling HTTPS for the external proxy server must be handled manually.

Web Server Address ③	VIZRTVI-CV79R6R	
Certificate file ④	No file chosen	Choose file
Private Key file ③	No file chosen	Choose file
Password 🕖	*********	

- 4. **Web Server Address**: The IP or the hostname of the Viz Mosart web server. The system attempt an autodetect. If the *FQDN is required* (for example, by a certificate), provide this instead.
- 5. **Certificate file**: The certificate in encrypted PEM format. If FQDN is specified in the certificate file, the Mosart web server address must also be a FQDN.
- 6. Click Save.

# 4.2.3 Enabling Updates from the Mosart Server over HTTPS

If using *HTTPS* with the NRCS Plugin, Rundown Viewer or Timing Display, you need to configure the Mosart Remote Dispatcher Service to allow continuous rundown updates between the Viz Mosart server and the web applications.

### To turn HTTPS on in Mosart Remote Dispatcher Service

- 1. On the Viz Mosart server machine, copy the file C:\Program Files (x86)\Mosart Medialab\Mosart Server\ConfigurationFiles\RemoteDispatcherServiceConfig.xml" to "C:\ProgramData\Mosart Medialab\ConfigurationFiles.
- 2. Fill in the following fields:
  - SignalRUseHttps: true
  - SignalRCertificatePath: < Certificate File for Viz Mosart server>
  - SignalRCertificateKeyPath: < Private Key file for Viz Mosart server>
  - SignalRCertificatePassword: < Password as configured for the private key>

<item name="SignalRUseHttps" value="true" />
<item name="SignalRCertificatePath" value="C:\CODE\server2.cer" />
<item name="SignalRCertificateKeyPath" value="C:\CODE\server2.key" /
<item name="SignalRCertificatePassword" value="password" />

3. Restart the Remote Control Service.

# 4.3 HTTPS Usage Notes

When Mosart Web Applications are configured with HTTPS, all communication between clients, proxy servers, and content servers must be secured. This includes the following components:

- Mosart web clients (Rundown Viewer, NRCS Plugin, Timing Display etc.).
- Mosart web server (*Mosart Web Applications* service).
- Proxy server (internal, i.e. *Mosart Web Proxy* service, or external).
- Mosart Server (Mosart Remote Control Service).

# 4.3.1 Certificate Requirements

- **Type**: X.509 certificates.
- Format: PEM-encoded certificates and private keys.
  - For the Mosart Web Proxy (Caddy), the key must be in unencrypted PEM format, which is automatically generated by Mosart from the provided encrypted key file.
- **Encryption**: Private keys must be encrypted and provided with the corresponding password. You can verify if the key is encrypted by opening it in an editor and checking that it starts with "-----BEGIN ENCRYPTED PRIVATE KEY-----" and ends with similar text.

• Host coverage: The certificate must include the host where the Mosart Web Applications are installed. The hosts provided in the Mosart Web Config tool will be validated against the certificate (case sensitive). If the hosts in the certificate are the Fully Qualified Domain Name (FQDN), then the hosts provided in the Mosart Web Config Tool must be the FQDN as well. If the same certificate and key files are used across all Mosart components (Mosart Web server, Mosart web proxy, Mosart server main, Mosart server backup), the certificate must specify all relevant hosts or their FQDNs.

# 4.3.2 Certificate Installation

Certificates must be trusted on any machine where Mosart Web Apps are used. Ensure the certificates are installed on:

- Mosart Web Applications / Mosart Web Proxy.
- Any Mosart Server.
- Any machine running Mosart web clients.

If the certificate is not installed on a machine using a Mosart Web App, the browser will warn of insecure connection, suggesting you proceed at your own risk. However, if the Mosart Web App is integrated as a plugin within other applications (for example, into ENPS), there may be no warning, and you experience issues like a blank page.

# 4.4 Troubleshooting

See section Troubleshooting.

# 5 Mosart NRCS Plugin

The NRCS Plugin is an effective drag and drop tool for reliably adding Viz Mosart template instructions to an NRCS story.

- Working with the NRCS Plugin
- Setup and Administration
- NRCS Plugin in Pilot Edge

A Note: For news-breaking details on the Mosart NRCS Plugin, please refer to the *Mosart Web Apps Release Notes* for your version of Viz Mosart at the Vizrt Documentation Center.

**Tip**: This document contains *animated graphics*. If you are viewing as PDF, we recommend browsing the web version.

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# 5.1 Working With The NRCS Plugin

The NRCS Plugin delivers the functionality previously provided by the legacy Viz Mosart ActiveX Plugin.

- User Operations
- Getting Help
- Error Handling
- API Documentation

### 5.1.1 User Operations

- Searching for a Template
- Modifying a Template
- Adding Template Details to the NRCS
- Refreshing Template Changes
- Optimizing Your NRCS Plugin Workspace
- Copying the MOS Object Details
- Modifying Existing MOS Objects

### Searching for a Template

Locate a template by selecting a *template set* and typing a *variant* or *template type* in the Search box. Auto-suggest will display search results as you type. If the application is configured to use a template database, you will also need to select a *gallery*. If the application uses templates from a file, there will be only one gallery, so no gallery selection is required.

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### Text highlighting helps with pinpointing search results:

### Modifying a Template

## To modify production characteristics

### Variables

• Click on a template in the search listing. Properties (called *Variables*) that have been added to the template (using Viz Mosart's Template Editor) appear to the right.

**Note**: *Variables* are called *Newsroom tags* in the Viz Mosart Template Editor.

• You can temporarily override any defaults, and add new variables. For example, in a *Video Effects* template, you may wish to change the source of the second input:

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### Transitions

- The **Transition** field initially displays the *default* transition type. This value indicates the most significant template behavior.
- You can temporarily *modify* this transition type, and then later restore the default transition (as originally set in the Template Editor).

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Adding Template Details to the NRCS

• Drag and drop the template into the required location of the story slug.

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• In a MOS-based NRCS, in addition to drag and drop, the **Add to Story** button can be used to add a template to a story.

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	20 PHONO 20	
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Note: The names of both the gallery and the template set of your selected template are always included with the MOS object that you store as a story item in your NRCS rundown. Any future use of this NRCS MOS item will always point to exactly the same template (same gallery, template set and template name) when it displays in the Mosart NRCS Plugin.

### **Refreshing Template Changes**

If changes are being made to the active template set (by another operator using Viz Mosart's Template Editor), click the **Refresh** button from **Settings** to get the latest template changes.



# Optimizing Your NRCS Plugin Workspace

# Collapsing the Type listing

You can save some screen space taken by the Mosart NRCS Plugin by collapsing the **Template Types** panel:



• You can customize the number of columns to adjust the template list size. Selecting the last option will automatically fit the number of columns to the window size.

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l <del>y</del>	JINGLE	CamWithEmem	CC_SetCrosspint_Layers	
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## Scaling the View

As the Plugin is a web application, you can set your preferred scale by *zooming in and out*.

• For most browsers, you can use the shortcut **Ctrl+mouse wheel**.



### Copying the MOS Object Details

You can work with the template's raw MOS data by first copying it to your PC's clipboard.

• From a selected template, click **Copy MOS** icon.

<b>≣</b> ∢ 1	# 6
Camera 1	
TRANSITION	RESET
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3 FLASH	~

### Modifying Existing MOS Objects

Your rundown will usually contain slugs with MOS objects that have been created with either this Mosart NRCS Plugin or the legacy component, Viz Mosart ActiveX.

### To modify an existing MOS object

- 1. On the selected rundown story, double-click the slug or grommet that holds the story's MOS object.
- 2. The corresponding Viz Mosart template, along with control details such as *newsroom tags*, *crosspoints*, *transitions*, and *timings*, is displayed in the Viz Mosart NRCS Plugin.

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Make the modifications directly in the Mosart NRCS Plugin window.

3. When finished editing, apply the changes. In the iNews newsroom system, use the **OK**, **Apply**, or **Cancel** buttons (specific to iNews) to modify and close, modify without closing, or cancel the editing, respectively. In



a MOS-based NRCS, the plugin includes its own buttons to modify or cancel the editing.

### To modify MOS objects created with the Mosart NRCS Plugin

• MOS objects created by the Mosart NRCS Plugin include references to the *gallery* name and *template set* name.

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VIDEO EFFECT	CAM3	
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• If your rundown item refer to a template set that cannot be found in the gallery, the Mosart NRCS Plugin checks the active gallery and template set for a corresponding template. This valid reference is then applied to the MOS object, when you click **Update** (in MOS-based NRCS) or **OK/Apply** (in iNews) on the replacement template.

/izMosartNCSPlugin X						
Your MOS object CAMERA 10 refers to an unknown template set Set4. After clicking Apply, your item will be automatically corrected.						
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• Alternatively, you can manually search gallery/template sets to locate a similar template. After editing and applying the changes, the new (active) gallery and template set name are stored in your rundown MOS object.

### To edit MOS objects created by ActiveX

When working with MOS objects that were created with Viz Mosart's legacy NRCS Plugin (Mosart Active-X) the currently selected gallery name and template set name will always be used as template source. In the Plugin, ensure to select correct gallery and template set before you start editing.

### 5.1.2 Getting Help

The NRCS Plugin documentation is continually updated and available online. This includes both this User Guide and the Release Notes.

You can also send your feedback directly to the Mosart NRCS Plugin design team.



• Click the **Settings** icon at the top right:

# 5.1.3 Error Handling

While navigating through templates, if there are exceptional conditions, the Mosart NRCS Plugin displays an error message.

See the example below:


Please refer to the Troubleshooting or contact Vizrt Support if you encounter any error messages.

## 5.1.4 API Documentation

The NRCS Plugin also installs the Mosart REST API. Details about the API endpoints are provided in the open API documentation (Swagger Open API (OAS) documentation) at: http://localhost:55142/docs

**Note**: Replace *localhost* with the IP address of the computer on which the API is installed.

### Examples

- Retrieve *all* galleries: http://localhost:55142/api/v1/galleries (A list of gallery names is obtained)
- Choose a gallery name from the list obtained in the previous example. For the sake of this example, assume that *Local* was on the list. (If not, choose some other gallery name.)
   To retrieve the template sets for the gallery named *Local*:

   <a href="http://localhost:55142/api/v1/galleries/Local/templatesets">http://localhost:55142/api/v1/galleries/Local/templatesets</a>.

## 5.2 NRCS Plugin In Pilot Edge

If you are using the Pilot Edge version 3.0 or later, you can host the NRCS Plugin within the Pilot Edge Plugin.

## 5.2.1 Hosting NRCS Plugin within Pilot Edge

- Set Up
- Working with the Mosart NRCS Plugin in Pilot Edge

### Set Up

To activate the NRCS Plugin in Pilot Edge

- 1. Open your Pilot Data Server.
- 2. In the menu bar, click **Settings**.



3. On Pilot Settings at the top right, right-click and select Add New Optional Parameter.



- Disables dragdrop in Viz Pilot News. Useful when using a newsroom system that does not facilitate of Add a New Optional Parameter X Ine link. Name : moseditor\_mosart\_ur Ine link. Add Cancel efresh the preview without
- 4. In the **Name** field, add the name *moseditor\_mosart\_url*.

#### This now appears under the **Name** column:

Name	Value	Description
mos_legacy_template		lf true, legacyTemplate MOS ltem is sent.
mos_plugin_url	https://bgo-wonderland.vizrt.inte rnal/pds/app/pilotedge/PilotEdg e.html	URL of the Pilot MOS H that use redirection (HT latter that needs to be s
moseditor_arc_url	https://bgomsevizarc:9005/mos- plugin	Custom parameter.
moseditor_mosart_url		Custom parameter.
mse_script_runner		Parameter can be used
	https://v1poc.vizrtapps.com/task	

5. Under the **Value** column, enter the URL to your Mosart NRCS Plugin.

Tip: You can fetch this address from the Configuration Tool by selecting App Configuration > NRCS Plugin and copying the value of Preview URL.

છ	\$			
NRCS Plugin	Showmaker			
CONFIGURE NRCS	PLUGIN			
NRCS type @			Other	
Mos ID @			mosart	

Name	Value	Description
mos_legacy_template		lf true, legacyTemplate MOS ltem is sent.
mos_plugin_url	https://bgo-wonderland.vizrt.inte rnal/pds/app/pilotedge/PilotEdg e.html	URL of the Pilot MOS H that use redirection (H latter that needs to be
moseditor_arc_url	https://bgomsevizarc:9005/mos- plugin	Custom parameter.
moseditor_mosart_url	https://localhost:55143/plugin/?n rcs=iNews	Custom parameter.
mse_script_runner		Parameter can be usec

#### 6. At the top left, click **Save**.

**Note:** If you are using the Pilot Edge on **HTTPS**, the Mosart NRCS plugin must also be on **HTTPS**.

## Working with the Mosart NRCS Plugin in Pilot Edge

- In your newsroom system, open the Pilot Edge Plugin. A new tab **Mosart** appears at the top.
- 2. Click the tab to open the Mosart NRCS Plugin.

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VIDEO EFFECT	AuxTest	CAM1						
🤤 JINGLE	Cam24	DTSCENE						
PHONO								
FLOAT	GraphicProfile							
~	StudioSetup	Test1						
						🔗 GH 🛛 CS 🖉	PS 🥑 PD	bs

3. To add a Mosart item to your rundown, select the item and drag in the Cross icon at the top right of the plugin.

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Image: VoliceOVER 5 6   Image: O S   Image: O			3	4			F	HEADLINES	2 2-shot
● OS 7 8   ■ GRAPHICS 9 9 - Copy   ▲ ABCD   ▶ INGLE B   ■ JINGLE B   ■ PHONO COUNTDO   ■ FLOAT LOOP   ● BREAK LOOP   ♥ Playout Instructions   ♥ Playout Instructions ♥ Playout Instructions		VOICEOVER	5	6	Frames 0 🗢 🕀		E	H1-	
Image: Second seco		os	7	8					
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Image: State of the structions       B       CLIP       Clip_hirespath       Type hei         Image: State of the structions       COUNTDO       FULL       Clip_hirespath       Type hei         Image: State of the structions       SOT       SOT2       Image: State of the structions       Image: State of the structions			А	ABCD	VARIABLES			udio TAL SLUG	
Image: Second secon			в	CLIP	clin hirospath	п 丨			V. Er
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Image: Soft of the soft		FLOAT					*m	osart PACKAGE SOT	•
VIDEOWALL SOT SOT2 Test2 V Playout Instructions V PDS GH V PS	•	BREAK	LOOP	PREROLL					1
	Ħ	VIDEOWALL	SOT	SOT2					
Y Playout Instructions     O PDS ● GH O PS     TTC - 0:00:00     TTC - 0:00			Test2						
⊘ PDS		out Instructions							
					🧭 PDS 😑 GH	🕑 PS			TTC - 0:00:00

For a MOS-based NRCS, the **Send to newsroom system option** is also available:

AP ENPS (9.3.4.4172)			×
≣▼			
💉 Pilot Edge 3.1.0			Ľ
🜱 Viz Pilot Edge		D,	<b></b>
Q	Gallery (2) Testlab ~ Set (2) Funcspec ~	3	¢
Template Types 🛛 🕊	Q_Search [CTRL+F]	I	

4. **To edit an added item**, Pilot Edge automatically opens the NRCS Plugin inside Pilot Edge. In the iNews newsroom system, use the **OK**, **Apply**, or **Cancel** buttons (specific to iNews) to modify and close, modify without closing, or cancel the editing, respectively. In a MOS-based NRCS, the Pilot Edge plugin includes the **Update in newsroom system** button.

AP ENPS (9.3.4.4172)		– 🗆 X
≣▼		
💉 Pilot Edge 3.1.0		C
🝼 Viz Pilot Edge		<b>₽</b> <del>4</del>
Q	Gallery ② Testlab ~ Set ③	Funcspec ~ 🛠
Template Types 🛛 🕊	QSearch [CTRL+F]	EDITING MODE
		<b>≧</b> • 2 <b>∷</b>
III ALL	CAM1	
CAMERA	1	
PACKAGE	10	
VOICEOVER	111	MIX WIPE EFFECT
os	116	Frames 0 🖨 🕀
GRAPHICS	2	
VIDEO EFFECT		
ig Jingle	20	
PHONO	21	
FLOAT	3	
~	4	
℅ Playout Instructions		
		🥝 GH 🔮 CS 🔮 PS 🥝 PDS

## 5.3 Setup And Administration

This section describes essential post-installation configurations, usually performed by a system administrator.

- Setting up the NRCS Plugin
- Optional Server Setups
  - Support for Main/Backup Connection
  - Support for HTTPS
- Verifying the Mosart Installation
- Integrating with an NRCS
  - ENPS
  - iNEWS
  - Octopus
- Troubleshooting

## 5.3.1 Setting up the NRCS Plugin

There is a standard setup that must first be followed. Please refer to the configuration procedure in section NRCS Plugin.

## 5.3.2 Optional Server Setups

### Support for Main/Backup Connection

• If you have a *backup server* for redundancy, you will need define the environment in the menu *Server Configuration.* 

### Support for HTTPS

• If you are using HTTPS, you will need define the environment in the menu Server Configuration.

**Note**: Make sure to execute *all* instructions, including the one-time edits to the Mosart Remote Dispatcher Service.

## 5.3.3 Verifying the Mosart Installation

- 1. After following the mandatory App Configuration and Server Configuration procedures, a background Windows service, *Mosart REST API* (a combination of the REST API and the NRCS Plugin) starts.
- 2. You can check that the NRCS Plugin is accessible by either:
  - a. In the Configuration Tool, click App Launcher > NRCS Plugin.
     or
  - b. following the URL next to the **Copy** button.



- A The Plugin URL comprises the machine name, port number *55142*, NRCS type and (when supported) Mos ID in the form: *http://machine-name:55142/plugin?nrcs={type}&mosid={mosid}*
- 4. To complete the integration, configure the NRCS side, according to the appropriate NRCS as described in section Integrating with an NRCS below (where you will use the copied URL).

## 5.3.4 Integrating with an NRCS

- The server-based plugin configuration described below avoids having to configure each individual newsroom control system (NRCS) client.
- This section assumes the Mosart NRCS Plugin has been successfully installed and set up, as described in section Mosart Web Applications Configuration Tool.

The NRCS Plugin supports connections to

- ENPS
- iNEWS
- Octopus.

**Note**: Initial investigations show that the NRCS Plugin also works with *OpenMedia*. However this connection is currently not officially supported by Vizrt.

You connect each client NRCS machine to the Viz Mosart server (which hosts the Mosart REST API.)

### ENPS

1. In the Configuration Tool select **App Configuration > NRCS Plugin** and copy the value of **Preview URL**.

App conf	iguration			
RCS Plugin	Showmaker			
CONFIGURE NR	CS PLUGIN			
NRCS type ③			Other	~
Mos ID 🕢			mosart	
Preview URL:	http://vizrtvi-cv79r6	6r:55142/plugin?mosid=mosart		Ē

- 2. On the ENPS machine, navigate to **System Maintenance > MOS Configuration**.
- 3. Paste the NRCS Plugin's copied URL, similar to the example below:

MUS Centiguration									
Address *		Description *	IP	ActiveX	Program	Default Settings	MOS Version	Local DragDrop	Mod
Click here to add a new rew									
MOS.ID		MOSART NRCS Plugin	HOST PC IP	ENPSHTMLHost	SYSTEM	URL+http://VI2RTV1-7VLU0D1:55142/plugin?wcs+ENPS&nosid=Mosart.s2nos	2.8.4	On	

A **Note**: The URL comprises a combination of the Plugin's URL + a fixed port number and Viz Mosart's *MosId* value in the form:

http://machine-name:55142/plugin?nrcs=ENPS&mosid=xxxx

• If you need to derive current *Mosld* value, see the item To find your Mos ID.

#### **iNEWS**

There are two possible setup routes, depending on whether your iNEWS version supports HTML5 plugins. Please consult the documentation of your iNEWS system to determine whether this is the case.

- iNEWS Clients with HTML5 Support
- iNEWS Clients without HTML5 Support

#### iNEWS Clients with HTML5 Support

1. In the iNEWS client, from the directory navigation tree, open the file **SYSTEM.MOS-MAP** and verify that between TABLE-START DeviceTable and TABLE-END there is a line

mosart ...

If not, add the mosart reference,

For example: mosart MosartNRCSPlugin

- For this step and the next, please refer to Avid's MediaCentral Newsroom Management Setup and Configuration Guide, section Configuring Newsroom Management for HTML5 (chapter HTML5 Plugins). If you have at least one HTML5 plugin already defined, you can skip this step. From Avid's Configuring Newsroom Management for HTML5, follow their setup steps 1 to 6. Please note that at:
  - Step **3**: (name of the new queue): Use the name *HTML-PLUGINS*, as recommended by Avid.
- 3. Continue with steps **7** to **10**, observing these clarifications:
  - Step 7: In case you skipped the previous step, the queue refers to SYSTEM.HTML-PLUGINS
  - Step 9: (slug): Enter something like *Viz Mosart NRCS Plugin*. (This is the string that will be shown in the **Plugins** sub-menu of the **Tools** menu.)
  - Step 10: (parameters): In the Story panel,
    - i. Enter 'URL = '.
    - ii. At that exact spot, paste the URL copied from the Configuration tool
    - (In the Configuration Tool select **App Configuration > NRCS Plugin** and copy the value of **Preview URL)**

App conf	igurations	5			
R	<b>\$</b>				
NRCS type @			(	iNews	 ~
Preview URL:	http://vizrtvi-cv79r6	5r:55142/plugin?nrcs=iNews			6

iii. Finally, append

mosItemBrowserProgID = Mosart.ActiveX mosItemEditorProgID = Mosart.ActiveX

#### Example:

URL = http://machine-name:55142/plugin?nrcs=iNews mosItemBrowserProgID = Mosart.ActiveX mosItemEditorProgID = Mosart.ActiveX



#### iNEWS Clients without HTML5 Support

#### Installing the iNEWS Client Addon

For older versions of iNews without HTML5 support, you need to install a small wrapper utility, the **Mosart NRCS Plugin - iNEWS Client Addon** on each iNEWS client machine.

- 1. From the Vizrt FTP /products/VizMosart/Latest Version/WebApplications/ download and run the utility file *MosartNRCSPlugin-iNEWSClientAddon-1.1.0.94.exe*
- 2. From the Configuration Tool select **App Configuration > NRCS Plugin** and copy the value of **Preview URL**.

hpp com	Baracioni								
<b>@</b> NRCS Philiph	<b>S</b> townaker								
CONFIGURE NR	CONFIGURE NRCS PLUGIN								
NRCS type @			iNews						
Preview URL:	http://wintoi.co/79d	(r:551-62/plugin?hrsa=iNews		D					

3. In Mosart NRCS Plugin - iNEWS Client Addon, paste-in the URL of the Plugin.

**Note**: If Mosart ActiveX opens when modifying a Mosart items (by double clicking on it), uninstall, then reinstall the file *MosartNRCSPlugin-iNEWSClientAddon-1.1.0.0.exe*.

Note: To change the configured URL after the installer was closed, simply open a command prompt and execute: "C:\Program Files (x86)\Vizrt\Mosart NRCS Plugin iNEWS\MosartNCSPlugin.exe" url "https://machine-name:55143/plugin/?
nrcs=iNews"

#### Octopus

1. From the Configuration Tool select App Configuration > NRCS Plugin and copy the value of Preview URL.

App conf	igurations	5		
NRCS Plugin	Showmaker			
	CS PLUGIN			
NRCS type ③			Octopus	~
Mos ID 🔞			mosart	
Preview URL:	http://vizrtvi-cv79ri	6r:55142/plugin?nrcs=Octop	us&mosid=mosart	6

- Log-in to Octopus with Admin privileges.
   From the sidebar, navigate to MOS Devices > Devices, select *mosart* and click Edit.

		<	MOS Devices ~ Dev	vices 😡	1			
	OCTOPUS 8	^	MOS Devices ~ Devi	ces				
	RSS Feeds 🗸				<b>_</b>	Ø	Ň	5
	Assignment Desk 🗸 🗸		NE Edit Delete	Content	sync CG template sync	Export / Import	MOS objects	Resend active rundov
	Story Folders 🗸 🗸		mosart		ncsID: Octopus			
-	Rundowns				Device media address: Device rundown address	10.211.112.37 1 s: 10.211.112.37	0540 7 10541	
	OCTOPUS NEWS 7/8/2021 19:00				Octopus media port: 105 Octopus rundown port: 1	540 10541		
	OCTOPUS NEWS 7/7/2021 20:00				Octopus IP address: 10.	211.112.32		
	OCTOPUS NEWS 7/6/2021 20:0 )		MOSART		ncsID: OCTOPUS Device media address:	10.211.8.55 108	40	
	Media				Device rundown address Octopus media port: 108	s: 10.211.8.55 1 340	0841	
	- Archive 🗸				Octopus rundown port: 1	10841		
	Trash		pilot		ncsID: Octopus8 Device media address:	10.211.112.37 1 e: 10.211 112.37	0540	
	My Octopus ~				Octopus media port: 105 Octopus rundown port: 1	540 10541	10341	
	🤹 Administration				Octopus IP address: 10.	211.112.32		
	User 🗸		PILOT		ncsID: OCTOPUS8	40.044.440.07.4	05.40	
	Admin servers				Device rundown address.	s: 10.211.112.37 1	0540 7 10541	
	Menu				Octopus media port: 105	540		
	Dictionary ^				Octopus rundown port: 1	0541		
	GSM				Octopus iP address. To.	211.112.32		
	Field Dictionary							
	Banned Words							
	Wires							
	New Media 🗸 🗸 🗸							
	Story ~							
	Tags							
	Assignment Folgers							
	Show ~							
	Forms							
	Devices							
	nuivaiiuna							

4. Select the **Plugins** tab:

Device					
Basic CG Support	Stories MOS objec	Rundowns ts Placeholders	Prompting MOS object gro	Status ups Activati	Channels ons Plugins
		<ul> <li>✓ MOS objects fi</li> <li>Send user dor</li> <li>Accept itemEd</li> <li>Send itemEdS</li> <li>Accept itemCh</li> </ul>	rom plugin are privat main to plugin Start/Dur from plugin tart/Dur to plugin nannel from plugin nnel to plugin	e	
		NCS		Add Edit Delete	
		0	K Cano	cel	

- 5. Fill-in as below, and providing:
  - a. A unique name
  - b. Version
  - c. The URL to the Viz Mosart NRCS Plugin (*copied* in step (1).

	Short name:	Mosart NCS Plugin	٦
-	Long name:	Mosart NCS Plugin	=
ort	Width:	800	
	Height:	600	
	Type	Player (ActiveV)	
	Version:	2.8_Web ~	
	Platform:	Chrome (CEF)	
	Placement:	Modeless ~	
	Shortcut number:		
		Stretch when inline	
		Allow creation in media	
		🗹 Run in separate thread	
		🖂 Run in separate process	
		☑ Run in native window	
		Reuse running plugin	
		Use <ncsappinfo></ncsappinfo>	
		<pre><ncsappinfo> sends <item></item></ncsappinfo></pre>	
		Show use	
		Show close	
		Close when object arrives	
		Primary editor	
		Allow in read-only script	
L [	Implementation:	http://vizit-tv.public:55142/plugin?nrcs=Octopus&mosid=Mosart.s2-mos	٦
1 Y		In case of ActiveX enter GUID (in "{" and "}" parentheses) or ProgId	
Separa	te process directory:		
		OK Cancel	

6. Setup is complete.

When editing a selected rundown, the user right-clicks for **New > Create using** <given name of the Plugin>

	-		-		
о	New	>		CG	Ctrl+G
atı e	Format Generate First/Last word	s		MOS Object Create using MosAX	Ctrl+M Ctrl+2
Jtl	Undo	Ctrl+Z		Create using NCS (master)	Ctrl+3
ď	Redo	Ctrl+Y		Create using Newsroom ActiveX	Ctrl+1
h	Cut	Ctrl+X		Create using Pilot Edge (bgo-hendrix)	Ctrl+4
2:	Copy	Ctrl+C		Create using Pilot Edge (rist)	Ctrl+5
15	Basta	Ctrl. V		Create using PilotEdge 1.5	Ctrl+6
a	Paste text only	Cui+v	Create usin Create usin	Create using PilotEdge 2.1	Ctrl+7
	Paste text only			Create using Pilot Edge Neo Design	Ctrl+8
S€	Paste objects only			Create using Pilot Edge new mosid	Ctrl+9
m	Select All	Ctrl+A		Create using Pilot Edge trunk	
01	Editor	>			
es no	ot have any life-threate	ning injur		Note	Ctrl+O
				Duration Tag	Ctrl+T
DUR: 00:00:00:00				Presenter	Ctrl+P
				Timestamp	Ctrl+Semicolon

з мескена, мніге а віздага тогоса а підн-эреса ваїює пантто астан.

For more details, see the *Viz Mosart Administrator Guide*, section Manus Administrator > Settings Editor MOS > NRCS Configuration.

## 5.3.5 Troubleshooting

See section *Troubleshooting*.

# 6 Mosart Timing Display

The Mosart Timing Display web app provides browser-based timing information for the studio control room and studio floor.



- Synchronizes with the active Viz Mosart rundown, it can be customized to display user-specific details.
- Supports a variety of devices. For example an iPad or networked phone.
- Provides multiple, customized timing displays.
   For example, one timing display can be running on the studio floor, connected to the in house intercom system. A second timing display is in the control room counting down packages, keeping the producer updated on the current show.
- Customizable audio countdowns.

A Note: For news-breaking details on the **Mosart Timing Display**, please refer to the *Mosart Web Apps Release Notes* for your version of Viz Mosart at the Vizrt Documentation Center.

#### This section describes:

- Working with the Timing Display
- Setup and Administration of TD

## 6.1 Working With The Timing Display

- Key Features
- Operating Modes
  - View Mode
  - Edit Mode
  - Viz Mosart Server Status
  - Audio Countdown
- Distributing a Timing Display

## 6.1.1 Key Features

- Supports a variety of devices (for example an iPad or networked phone).
- A 24 x 24 editing grid enables rich flexibility for timer layouts.
- Each timer has a consistent and readable appearance. Available space is optimized with proportionate fonts.
- Rapid drag and drop of timer elements, from an intuitive list.
- Rich text formatting: Color picker + Bold + Alignment + Show label.
- Customizable audio countdown.

## 6.1.2 Operating Modes

For daily operations, the Timing Display runs in Working with the Timing Display#View Mode. Use Working with the Timing Display#Edit Mode to create or adjust the display.

### View Mode

Browse-anywhere timing information in your web browser.



In View mode you can:

• Mouse-over a timing detail for an explanation.



• Display as full screen.

					1
Layout:	DJ			շիր	
			F	ullScreen	
	12.0	3.5	7	Λ Ν	Л

• Select any other defined view of the display.



### To display a Timing Display in View mode

- View Mode is the result of Working with the Timing Display#Distributing a Timing Display.
- You can also browse a Timing Display in View Mode, by clicking the **View** button in the menu bar.

🧕 Timing Display	Default Layout 🗸 💾 Save	Telete	🖵 View	🚺 Copy link	<ul><li>     Audio Countdowns     </li></ul>	
Q Search	1:48:16 PM	m	osart-serv	er-1	· · · · · · · · · · · · · · · · · · ·	
Current	^ 01:09:51 AM	SHOW.TRAINING.RUNDOWN				
current	01.08.51 Alvi					

The View *Mode* opens in a new tab.

### Edit Mode

To create and modify a Timing Display

You can reconfigure or create a new Timing Display with details relevant to your operation.

- 1. If no Timing Display editor is running in your web browser
  - a. From the desktop shortcut or **Programs** menu, start the **Viz Mosart Web Applications Configuration Tool**.
  - b. In the **Timing Display** panel, click **Open**.

A Timing Display editing web page opens.

- 2. Configure the display. For example:
  - a. From the **Timers** panel to the left, drag any highlighted timing detail into the display area.
  - b. From the display area, click on any timing detail and edit/delete.

		, ,
Story Name: Start of show	<i>i ~</i>	
Story Planned Duration:	~	
Story Time: <b>00:00</b>	~	00:00
Video Server Channei:	~	Current Story Time
Next	^	
	Story Name: <b>Start of show</b> Story Planned Duration: Story Time: <b>00:00</b> Video Server Channel: Next	Story Name: Start of show Story Planned Duration: Story Time: 00:00 Video Server Channel: Next ^

c. The action **Delete** simply returns the selected timing detail back to the **Timers** selection panel on the left.

Story Countdown: 00:00	~			
Story Name: Start of show	~			
Story Planned Duration:	~			
Story Time: <b>00:00</b>				
Video Server Channel:	~			

3. From the menu bar, click **Save as** and enter a unique, meaningful name for the display.

## Viz Mosart Server Status

Viz Mosart server status can be displayed using **Connection Status** field.



Status	Description
mosart-server-1	Viz Mosart server is active
O mosart-server-2	Viz Mosart server is idle
mosart-server-1	Manus Admin is not running or Mosart Remote Control Service (RCS) is not running or it is not accessible.

Status	Description
<ul> <li>mosart-server-1</li> <li>mosart-server-2</li> </ul>	Viz Mosart is setup with main and backup and backup Mosart server has been configured in Viz Mosart Web Config Tool > Server Configuration.

By default, the hostname, IP address, or FQDN configured in the Viz Mosart Web Config Tool > Server Configuration for the main and backup Viz Mosart servers will be displayed. However, in newer versions of Viz Mosart, the Server Description configured on each Viz Mosart Server under Manus Admin Settings is used instead.

C Seπings		_	
Q. Server		× All	Modified
General 🗸	General		î
iNEWS			
MOS	• Server description [		
Viz Media Sequencer	User defined descriptive name of server.		
Generic REST drivers	mosart-server-1		
	iNEWS		
	• Server 🖑		
	Hostname or IP address where the iNEWS FTP server is running.		
	bgo-mos-inews		
	MOS		
	MOS Server		
		Cancel	Save

### Audio Countdown

### Prerequisites

Timing Display plays its audio files located in the folder C:\ProgramData\Mosart Medialab\Mosart Web Apps\TimingDisplayMedia of the host machine for Timing Display.

Each audio file that you wish to use must be placed here. The range of supported audio file formats is dependent on the web browser you use for the Timing Display, this external article lists audio formats supported per browser.

### To activate audio countdown in a Timing Display

- 1. Open Timing Display in Working with the Timing Display#Edit Mode.
- 2. In the menu bar at the top of the page, click Audio Countdown.



#### 3. From the dialog window that appears, click **Add Countdown**.

4.

In the drop-down i	menu under <b>F</b>	<b>ilename</b> , sele	ect t	he audio file you wa	ant to j	play.		
Audio Countdow	n Scheduler							×
Here you can schedule \ProgramData\Mosart N	an audio file to be p ⁄ledialab\Mosart We	layed at a designate b Apps\TimingDispl	d time ayMee	e in relation to the selected e dia" folder of the server host	event. The ting your M	audio files are stored in the "C: Mosart Web Apps		
+ Add Countdown								
Starts at				Event		Filename		
0 🗘 sec	Before	After		End of Current Story		Choose Audiofile 🛛 🗸		T
						10_sec.wav		
						10_sec_cam_1.wav		
						10_sec_cam_2.wav		
						10_sec_cam_3.wav		
						10_sec_cam_4.wav		
						10 sec cam 5.wav		
						ОК	Cancel	

The selections are populated with audio files added to C:\ProgramData\Mosart Medialab\Mosart Web Apps\TimingDisplayMedia (on the machine where the Mosart Web Apps are installed). You can also *test* the selected audio file by clicking the **Play** icon to the right of the drop-down menu.

- In the drop-down menu under Event, select the event you want the audio file to countdown towards. Choose from:
  - End of Current Story: Counts down to the end of the current story.
  - **Start of Next Break:** Counts down to the next planned break.
  - End of Rundown: Counts down to the planned end of the rundown.
  - End of Current Package: Counts down to the end of a current Package template.
  - End of Current Break : Counts down to the end of a current Break template.
  - End of Current Voice Over : Counts down to the end of a current Voice Over template.
  - End of Current Float/Adlib: Counts down to the end of a current Float/Adlib template.
  - End of Current Item : Counts down to the end of each respective Story item.

Audio Countdow	vn Scheduler							×
Here you can schedule \ProgramData\Mosart I	an audio file to be p Medialab\Mosart We	layed at a designated ti b Apps\TimingDisplayN	me in relation to the selected ev Aedia" folder of the server hostir	vent. Th ng your	e audio files are stored in the · Mosart Web Apps	"C:		
Starts at			Event		Filename			
0 🗘 sec	Before	After	End of Current Story	~	10_sec_cam_2.wav			T
			End of Current Story					
			Start of Next Break					
			End of Rundown					
			End of Current Package					
			End of Current Break					
			End of Current Voice Over					
					ОК	(	Cancel	

6. Set the number of seconds **Before** or **After** the event you want the Audio file to *start at*.

Audio Countdown Scheduler			×
Here you can schedule an audio file to be played at a designated \ProgramData\Mosart Medialab\Mosart Web Apps\TimingDisplay	time in relation to the selected event. Th Media" folder of the server hosting you	he audio files are stored in the "C: <sup>.</sup> Mosart Web Apps	
+ Add Countdown			
Starts at	Event	Filename	
10 ec Before After	End of Current Story V	10_sec_cam_2.wav ~	▶ 1
·	J		
		ОК	Cancel

- 7. Repeat steps **3** to **6** for all required audio files.
- 8. Click **OK**

To verify, start a rundown and listen that the correct audio files plays at the specified time.

A Note: If you *refresh* the Timing Display, you must again perform some activity on the web page before any audio can be played.

Simplest is just clicking on the page or pressing any keyboard key while the web page has focus. This is standard web browser behavior.

## 6.1.3 Distributing a Timing Display

Once you have created or modified a Timing Display, you can share it with other users on the same network.

#### To distribute a Timing Display

- 1. Create/modify the Timing Display as described in Working with the Timing Display#Creating and modifying a Timing Display above.
- 2. From the drop-down menu, select the required display.



3. From the menu bar top-right, select Copy link.



4. Share the URL with your users.

A Note: The original Viz Mosart Timing Display, with explanation of the elements, is described in the Timing Display section of the *Viz Mosart User Guide*.

#### 🖸 Tip:

Appearance of timing information in the Viz Mosart UI



- 2. Counts how much the rundown is *over/under*.
- 3. Counts down the *remaining time* for the current On Air template.
- 4. Shows the *duration* of the current On Air template.

## 6.2 Setup And Administration Of TD

- Setting up the Timing Display
  - Prerequisites
  - Configuration
- Optional Server Setups
  - Support for Main/Backup Connection
  - Support for HTTPS
- Troubleshooting

## 6.2.1 Setting up the Timing Display

## Prerequisites

- Viz Mosart 5.0.3 or later.
- Perform the installation as described in *Getting Started*.

### Configuration

Timing Display will work out-of-the-box if the Mosart Web Apps are installed on the same machine as the Viz Mosart server.

It is recommended to visit the *Server Configuration* page to verify proxy server connections and other security aspects.



## 6.2.2 Optional Server Setups

## Support for Main/Backup Connection

• If you have a *backup server* for redundancy, you will need define the environment in the menu *Server Configuration.* 

## Support for HTTPS

• If you are using HTTPS, you will need define the environment in the menu Server Configuration.

## 6.2.3 Troubleshooting

Please see section Troubleshooting.

# 7 Mosart Rundown Viewer

The Mosart Rundown Viewer provides a convenient web browser view of details from the current Viz Mosart rundown.

- Displays the active Viz Mosart rundown.
- Summary of story timings.
- Supports a variety of devices. For example an iPad or networked phone.

<b>Note</b> : For news-breaking details on the <b>Mosart Rundown Viewer</b> , please refer to the <i>Mosart Web Apps Release Notes</i> for your version of Viz Mosart, at the Vizrt Documentation Center.								
😫 Mosart Rundown Viewer	× +			~ -				
$\leftrightarrow$ $\rightarrow$ <b>C</b> A Not secure	vizrtvi-cv79r	6r:55142/ Q	12 tr 🔓	🚉 🗰 🗖	Di			
🚍 Mosart Rundown Viewer			Sto	ry scaling: 🔵	?			
Rundown < SHOW.LAURA.ENG_SW_SHOW	Studio Setup <b>Funcspec</b>	Story Planned time 00:00	Story Countdown 00:00	Item Countdowr 00:04	1 >			
		00	:30	01:00				
Break	00:00							
Test	00:00 2 2							
Cam	00:00 Cam							
Graphics	00:00 Full							
Cam	00:00 Cam							
Clip1	00:00							
Clip2	00:00							
Opener1	00:00 Oper							

This section describes:

- Working with the Rundown Viewer
- Setup and Administration of RV

## 7.1 Working With The Rundown Viewer

- Opening the Rundown Viewer
- Key features
  - Viz Mosart Server status
  - Story Scaler
  - Story Script
  - Go to On Air Story

The Mosart Rundown Viewer provides a convenient, browser based display of a Viz Mosart rundown.

A Note: To browse a rundown in Rundown Viewer, a standard Viz Mosart setup must first be running with a loaded rundown.

## 7.1.1 Opening the Rundown Viewer

You launch the Mosart Rundown Viewer from the Mosart Web Applications Configuration Tool.

1. From the Mosart Web Apps Configuration Tool, select **App Launcher > Rundown Viewer**:



2. The Mosart Rundown Viewer displays in your default web browser.

	SHOW.LAURA.SRDEMO_GFX   Funcspec				Next	break: 12:56:56 PM
	OVER/UNDER STORY COUNTDOWN ITEM COUNT	TOOWN			🔘 mosart-s	erver-1
	-28:44 +00:14 +00:1	4			🔘 mosart-s	erver-2
				00:30		
	Story 3 00:05	00:18 Story 3	00:00 2			
	2 MIX 0 00:05		00:46	1 Vizit	Test2	
		Breaking News	u de la compañía de la			
	Breaking News 01:35	BTO1	00:00 VizrtTest1		112	
	<b>MIX 0</b> 00:39	RIOI	00.00 <b>V</b>			
	00:03 Headline Transport strike in Eu 00:04	Cam	00:00			
	Lorem insum dolor sit amet consectetur adiniscing elit		00:00	1		
	Pellentesque ultricies luctus orci sit amet viverra. Morbi	RTO2	<u> </u>			
۲	Mauris pulvinar sem vitae tortor rhoncus, ut finibus	Cam	00:00			
	erat interdum. Phasellus vitae dolor at diam malesuada elementum. Phasellus elementum mollis dolor et		00:00			
4	dapibus. Etiam tempus ante finibus, gravida nisl vel, jaculis orci. Eusce non tempus nisl. Phasellus ligula	RTO3				
	felis, tincidunt a sollicitudin eget, auctor sit amet ligula.	Parda an Talua Outline at a	00:01 VizrtTest1		1	
	Vivamus at vulputate enim, at sodales mi. Donec	ReplaceTakeOutLogic	_			
?	egestas sodales interdum. Donec semper lorem sed augue viverra ultricies a sed massa. Integer aliquam	Cam	00:00 1			
	conseguat arcu nec vulputate. Etiam elementum dui in					

## 7.1.2 Key features

## Viz Mosart Server status

Viz Mosart server status will be displayed in the upper right corner:

<b>.</b>	SHOW.LAURA.SR	Incspec Next break: 12:58:37 PM	
	over/under -42:53	story count + 17:57	TDOWN 1 TEM COUNTDOWN + 11:52 mosart-server-1
	SHOW NAME		00:00 BRE
	Story 0		
	1 Story 1		00:30 1 2
	2abc Story 2		00:30
Sta	tus		Description
۲	) mosart-se	erver-1	Viz Mosart server is active
0	) mosart-se	erver-1	Viz Mosart server is idle
C	) mosart-se	erver-1	Manus Admin is not running or Mosart Remote Control Service (RCS) is not running or it is not accessible.

Status	Description
<ul> <li>mosart-server-1</li> <li>mosart-server-2</li> </ul>	Viz Mosart is setup with main and backup and backup Mosart server has been configured in Viz Mosart Web Config Tool > Server Configuration.

By default, the hostname, IP address, or FQDN configured in the Viz Mosart Web Config Tool > Server Configuration for the main and backup Viz Mosart servers will be displayed. However, in newer versions of Viz Mosart, the Server Description configured on each Viz Mosart Server under Manus Admin Settings is used instead.

Settings				
Q Server	×		All	Modified
General 🗸	General			İ
iNEWS				
MOS	Server description ()			
Viz Media Sequencer	User defined descriptive name of server.			
Generic REST drivers	mosart-server-1			
	iNEWS			
	• Server 📳			
	Hostname or IP address where the iNEWS FTP server is running.			
	bgo-mos-inews			
	MOS			
	MOS Server			
	c	ance	ł	Save

### Story Scaler

You can expand the viewing area for items in a story row. This is useful to see full text details on an item.

• Adjust the **story scaling** to desired column width.

	SHOW.LAURA.SRDEMO_GFX   Funcsp	bec					Next break: 12:58:37 PM
Ē	OVER/UNDER     STORY COUNTDO       - 52 : 35     + 08 : 15	WN ITEM COUNTDOWN + [] [] : [ []					mosart-server-1 mosart-server-2
		00.20	00:30		1 Story 1	00:30 1 2	U
	1 Story 1	00.30	_		2abc Story 2	00:30	
	2abc Story 2	00:30 1			09:03 Story 3	00:00	
	08:14 Story 3	00:00			Preaking News	00:46 1	1 1
	Breaking News	00:46 1 1 VizrtTes	12			00:00 1 VizrtTest1	
	RTO1	00:00 1 VizrtTest1		00		00:00	
	Cam	00:00			Cam	00:00	
	Cam	00:00			Cam	00:00	
	Com	00:00			Cam		
<b>€</b>	Can	00:00			Zoom out		
B	Cam	00:00			Live	00:00 1	
(?)	Live	00:00 STOP			STOP SHOW	00:00 STOP	

## Story Script

You can work with the story script from within the Rundown Viewer.

## Go to On Air Story

### A navigation button



#### enables immediate scrolling to the current on-air story.

	SHOW.LAURA.SRI	DEMO_GFX   Funcspec	Next break: 02:22:30 PM		
	OVER/UNDER			I	mosart-server-1
	-20.00	+00-50	+00.40		mosart-server-2
				00:30	01:00
	SHOW NAME		) *		
	ر Story 0	00:50 00:00	1		
	1 Story 1	00:30	2		
•	2abc Story 2	00:3(	) 1		
<b>€</b>	Story 3	00:00	2		
ih	Breaking News	00:46	5 1		zřtTest2
?	RTO1	00:00	VizrtTest1		
		00-00			

For a explanation of the elements in a Viz Mosart rundown, please refer to the Viz Mosart User Guide, under User Interface, the section Rundown Window.

## 7.2 Setup And Administration Of RV

- Setting up the Rundown Viewer
  - Prerequisites
  - Installation and Configuration
- Optional Server Setups
  - Support for Main/Backup Connection
  - Support for HTTPS
- Troubleshooting

## 7.2.1 Setting up the Rundown Viewer

### Prerequisites

• Viz Mosart 5.1.0 or later

## Installation and Configuration

The Rundown Viewer requires no additional configuration.

- 1. Ensure that your Viz Mosart system is operating under normal working conditions. As a minimum,
  - a. Manus Admin must be running.
  - b. The Viz Mosart UI is running, displaying a rundown.
- 2. From the Mosart Web Apps Configuration Tool, select **App Launcher > Rundown Viewer**.



## 7.2.2 Optional Server Setups

### Support for Main/Backup Connection

• If you have a *backup server* for redundancy, you will need define the environment in the menu section *Server Configuration.* 

## Support for HTTPS

• If you are using HTTPS, you will need define the environment in the menu Server Configuration.

## 7.2.3 Troubleshooting

Please refer to section Troubleshooting.
# 8 Mosart Showmaker

Showmaker is a lightweight, efficient MOS rundown creation tool that does not require a newsroom system.

This version provides all features needed to quickly create and control a Viz Mosart show.

# 8.1 Typical Usage

- Produce shows without the need of a newsroom system.
- Produce Viz Mosart automated shows, without the existing newsroom system providing the rundown.
- Provide an independent backup for the newsroom system.
  - Ability to get on air quickly.
  - The beginning of a project.
  - The automation is prepared in advance, not requiring any newsroom system.
  - Where a newsroom system is used, the automation is prepared in advance of the newsroom system.
  - Where skeleton staff (for example, in the middle of the night) need to get breaking news on air.

Showmaker is not intended as a replacement for a newsroom system. Showmaker offers a self contained, quick and easy way of building a rundown.

#### 8.2 Additional Features

- Works with Viz Flowics (html graphics) and Viz Pilot edge graphics plugins.
- Modern, web-based architecture.
- Support for MOS 4.

# 8.3 Further Information

If you require assistance with setting up Showmaker, please reach out to your Viz Mosart support contact. Full documentation will appear in the next release of the Vizrt Web Apps package.

# 8.4 Setup And Administration Of Showmaker

This is a pre-release of Showmaker.

• Please follow the standard setup described in section Mosart Web Apps Configuration Tool.

#### **Note**: As documentation is updated, it will become available at the Vizrt Documentation Center.

- Setting up Showmaker
  - Prerequisites
    - Installation and Configuration
- Optional Server Setups
  - Support for Main/Backup Connection
  - Support for HTTPS
- Troubleshooting

#### 8.4.1 Setting up Showmaker

#### Prerequisites

• Viz Mosart 5.1.0 or later

#### Installation and Configuration

You can create standalone, placeholder rundowns in Showmaker with no additional configuration.

However, to work with Mosart templates, or to test the rundown, you must perform a one-off configuration.

#### To manage Mosart templates

To work with Mosart template sets in Showmaker, the bundled web application *NRCS Plugin* shall be correctly configured.

• Follow the *Showmaker* instructions under section App Configuration.

#### To connect to Viz Mosart

To verify your Showmaker rundown in Viz Mosart, you will need to configure your browser's connection to the Mosart server.

1. Ensure that your Viz Mosart system is operating under normal working conditions.

#### As a minimum,

- a. Manus Admin must be running.
- b. The Viz Mosart UI is running, displaying a rundown.
- 2. From the Mosart Web Apps Configuration Tool, select App Configuration.



# 8.4.2 Optional Server Setups

#### Support for Main/Backup Connection

• If you have a *backup server* for redundancy, you will need define the environment in the menu section *Server Configuration.* 

#### Support for HTTPS

• If you are using HTTPS, you will need define the environment in the menu Server Configuration.

# 8.4.3 Troubleshooting

Please refer to section Troubleshooting.

# 9 Stream Deck

The Elgato Stream Deck plugin for Viz Mosart allows you to trigger various Viz Mosart actions, such as Start/ Continue the rundown, Take a template or firing a Direct take.

The plugin communicates directly with the Mosart server and all actions are triggered without needing a Mosart GUI open, active or in focus.



- Installation
- Configuration
- Actions
- Status

# 9.1 Installation

Δ

## 9.1.1 Software Download

#### To download Stream Deck for Windows

 From Elgato's site, https://www.elgato.com/us/en/s/downloads select Stream Deck for Windows software and download. The Stream Deck utility starts up automatically after install.

Note: The software can be installed on a different machine than the Viz Mosart Server or Mosart GUI client.

2. If not already installed, download and install the latest version of Viz Mosart Web Apps, located on the Vizrt FTP at

/products/VizMosart/Latest Version/WebApplications/ and perform the one-time Server Configuration setup.

- A Note: The Server Configuration is essential if you have a *main/backup* setup. For a simple, single server, you can skip the Server Configuration step.
  - 3. From the Web Apps installation folder, locate the plugin file *com.vizrt.mosart-remote.streamDeckPlugin*.
  - 4. Double click the file *com.vizrt.mosart-remote.streamDeckPlugin* for installation on the *same PC where you just installed the Stream Deck* for Windows software.
  - 5. Accept when the Stream Deck application requests installation confirmation.
  - 6. After installation, the **Viz Mosart** section displays with newly available actions.



# 9.2 Configuration

# 9.2.1 Configuring the Mosart Host

To configure the Viz Mosart host

1. Drag the **Start/Continue rundown** to any free Stream Deck key.

2. Click **Open Global Settings** to configure the plugin.

- 3. In field Mosart Url, enter the URL of either
  - a. The IP address or hostname of your main or backup Mosart server (Failover is *not* supported). This REST API endpoint IP address or hostname must be prefixed with *http://* (or *https* if used) and suffixed with port number :55167. See the screenshot for an example.
  - b. The hostname of where your Mosart Web Applications are installed (Here, failover *is* supported). This Mosart Web applications proxy web server must be prefixed with *http://* (or *https* if used) and suffixed with port number *:55142*. See the screenshot for an example.

A Note: See the Viz Mosart Web Applications Config Tool User Guide (section Server Configuration) for more information about the Mosart Web applications proxy web server.

5. In field **X-API-key** enter the key.

Note: See the Appendix topic Mosart Remote Control REST API in the Viz Mosart Administrator Guide for more information about REST API endpoint and X-API-key. For redundancy setup, configure the same API-key on both main and backup.

6. Click **Save & Close**. (The settings are set once-only and are saved for all operations).

#### 9.3 Actions

- Start/Continue Rundown
- Reload rundown

- Restart from top
- Fire direct take
- Take Template
- Rehearsal Mode

## 9.3.1 Start/Continue Rundown

This action lets you Start or Continue the rundown. (The equivalent of a GUI timeline key Start Continue).

#### Options

- **Default**: The next templates default transition.
- Mix or Wipe: Presents the *rate* entry field.
- **Effect**: Enter the effect number.

#### 9.3.2 Reload rundown

This action will trigger a rundown reload event. I.e. the timeline will be stopped and the current rundown will be reloaded from the NRCS. No additional parameters.

#### 9.3.3 Restart from top

Restart the rundown from the first story. No additional parameters.

#### 9.3.4 Fire direct take

Trigger a given DirectTake template. You must provide the number of the desired template. Option to show or hide the direct take icon.

#### 9.3.5 Take Template

This action takes a template by its type and variant (name) and which bus.

- Template Type choose the template type first to be used, eg: Camera, Package ect.
- Variant enter the exact variant name from your channel templates belonging to the chosen template type.
- Program/Preview Select the preferred way to insert this template into the current running story
- Show Icon option to show the template type icon on the stream deck device button.

#### 9.3.6 Rehearsal Mode

This action will either enable/disable/toggle rehearsal mode depending on selection of Rehearsal Mode.

The Rehearsal mode icon on the stream deck device will display yellow when rehearsal mode is activated either from this action or from the GUI.

# 9.4 Status

The status of the current connected server is displayed.



**Note**: When installing the Mosart Plugin, you may need to close and reopen the Stream Deck client application, to enable displaying of *status*.

# 10 Troubleshooting

- Web Apps Configuration Tool
  - The Mosart Web Proxy Service is not running or is not functioning properly
  - The Mosart Web Applications Service is not running or is not functioning properly
  - The External Proxy Service is unreachable or not functioning properly
  - Unable to reach the Viz Mosart Server (main or backup)
  - Viz Mosart Server version might be incompatible with this version of Viz Mosart Web Applications. If HTTPS is used, this must be enabled on both Viz Mosart Server and Viz Mosart Web Applications
  - The Web Applications Service is not running
- Rundown Viewer and Timing Display Issues
- Issues with Mosart Web Server Connecting to the Mosart Server
  - Mosart Remote Control Service (RCS)
  - Firewall Ports
- Browser Logs

# 10.1 Web Apps Configuration Tool

The *Mosart Web Applications Configuration Tool* provides you with error or warning messages that assist with common issues.

These messages may include a link to the Viz Mosart web server log files. These temporary log files are saved in C: \Users<username>\AppData\Local\Temp, with names starting with the date they were created, followed by an ID.



# 10.1.1 The Mosart Web Proxy Service is not running or is not functioning properly

#### Review the settings in

- The Server Configuration page.
- Proxy server logs located by default at C:\MMLogs\Mosart Web Proxy.
- The browser logs. You can investigate your browser logs by typing **CTRL+Shift+I** (this is a toggle) in the **Mosart Web Applications Configuration Tool** or the browser where a Mosart web application is open.

#### Start the Mosart Proxy Service in console

If the Mosart Web Proxy service fails to start and there is little information in either the proxy logs or the browser, you can start Caddy in the console to troubleshoot the problem using the following command. If this is running as a Windows service, stop it first.

C:\Program Files (x86)\Mosart Medialab\Mosart Web Proxy>caddy2.exe run --config "C: \ProgramData\Mosart Medialab\Mosart Web Apps\Caddyfile"

Typical situations are where Caddy fails to start because the port (default **55142** for HTTP and **55143** for HTTPS) is already in use by other applications or the certificate and/or the key files configured are not valid:

:\Program Files (x86)\Mosart Medialab\Mosart Web Proxy>caddy2.exe run --config "C:\ProgramData\Mosart Medialab\Mosart Web Apps\Caddyfile" 024/06/27 11:5:20.556 []3mMARNE[0m using provided configuration {"config\_file": "C:\\ProgramData\Mosart Medialab\Mosart Web Apps\Caddyfile", "config\_adapter": ""} 024/06/27 11:5:20.556 []3mMARNE[0m caddyfile input is not formatted; run 'caddy fine --voerwrite' to fix inconsistencies {"adapter": "caddyfile", "C:\\ProgramData\Mosart Medialab\Mosart Medialab\Mosart Web Apps\Caddyfile", "config\_dapter": "C:\\ProgramData\Mosart Medialab\Mo t Web Apps\Caddyfile", "line": 01} 024/06/27 11:15:20.568 0[]4mINF00[[0m redirected default logger {"from": "stder", "to": "C:\\PMLogs\Mosart Web Proxy\\general.log"} pror: loading initial config: loading new config: Http app module: start: listening on :80: listen top :00: bind: Only one usage of each socket address (protocol/network address/port) is normally p

# 10.1.2 The Mosart Web Applications Service is not running or is not functioning properly

Review the settings in

- The Server Configuration page.
- Web server logs accessible from the error message in the Mosart Web Applications Configuration Tool.
- The browser logs. You can investigate the browser logs by typing **CTRL+Shift+I** (this is a toggle) in the *Mosart Web Applications Configuration Tool* or the browser where a Mosart web application was opened for more details.

#### Start the Mosart Web Applications Service in console

If the Mosart Web Applications service fails to start and there is little information in either the web server logs or the browser, you can start the service in the console to troubleshoot the problem. If this is running as a Windows service, stop it first.



Typical situations are where the web server fails to start because the port (default **65142** for HTTP and **65143** for HTTPS) is already in use by other applications or the certificate and/or the key files configured for HTTPS are not valid.

# 10.1.3 The External Proxy Service is unreachable or not functioning properly

Review the settings in

- The Server Configuration page.
- External proxy configurations.
- The web server logs accessible from the error message in the Mosart Web Applications Configuration Tool.
- The browser logs. You can investigate the browser logs by typing **CTRL+Shift+I** (this is a toggle) in the Mosart Web Applications Configuration Tool or the browser where a Mosart web application was opened.

# 10.1.4 Unable to reach the Viz Mosart Server (main or backup)

Some of the Mosart Web Applications might not function as expected. Ensure that the *Mosart Remote Control Service* (RCS) located on the Viz Mosart server is running. Review the settings in the Server Configuration page, web server log file accessible from the error message in the Mosart Web Applications Configuration Tool or the browser logs for more details. You can investigate the browser logs by typing **CTRL+Shift+I** (this is a toggle) in the Mosart Web Applications Configuration Tool or the browser where a Mosart web application was opened.

#### Check the status of the Viz Mosart server

In a browser, paste the URL to the Viz Mosart server *status* endpoint: http://<mosart-server-host>:55167/status for HTTP or https://<mosart-server-host>:55168/status for HTTPS (replace *<mosart-server-host>* with the hostname, IP address or the FQDN of your Viz Mosart server). You should get a result similar with the following (*serverDescription* is not available in older Mosart versions):

Save Copy Collapse All	Expand All Trilter JSON				
state:	"Active"				
timeline:	"Running"				
autoTake:	false				
rehearsalMode:	false				
crossoverClient:	false				
serverDescription:	"mosart-server-1"				

Headers

If no response is received:

JSON Raw Data

• Ensure that the Viz Mosart server version is compatible with the Viz Mosart Web Applications. Refer to the Release Notes for System Requirements.

or

• Start Mosart Remote Control Service (RCS) as console to investigate further the issue. If the service is running as Windows service, stop it first.

Typical situations are where RCS fails to start because the port (default **55167** for HTTP and **55168** for HTTPS) is already in use by other applications or the certificate and/or the key files configured for HTTPS are not valid:

# 10.1.5 Viz Mosart Server version might be incompatible with this version of Viz Mosart Web Applications.If HTTPS is used, this must be enabled on both Viz Mosart Server and Viz

#### **Mosart Web Applications**

You may get this warning messages because no updates could be retrieved from Viz Mosart server.

- Ensure that the Viz Mosart server version is compatible with the Viz Mosart Web Applications. Refer to the latest Release Notes for System Requirements.
- Ensure that HTTPS is used and enabled on both Viz Mosart server and the Viz Mosart Web Applications. Check the settings in the Server Configuration page, Viz Mosart web server log file or the browser logs (**CTRL+Shift+I** in the Configuration Tool) for more details.
- Check the status to the Viz Mosart server as described above.

# 10.1.6 The Web Applications Service is not running

A common offline error occurs when the Windows service fails to start because the port is in use.

- Verify that the Web Applications service port is not in use. The default port is 65142 for HTTP and 65143 for HTTPS. The port can only be changed in the configuration file at C:\ProgramData\Mosart Medialab\Mosart Web Apps\serverSettings.json.
- Any changes to the Viz Mosart web server configuration file (C:\ProgramData\Mosart Medialab\Mosart Web Apps\serverSettings.json) are overwritten when you press **Save** in the Mosart Web Applications Configuration Tool.
  - Try restarting the service with the **Restart** button available in the error message in the Mosart Web Applications Configuration Tool.

• Review the settings in the Server Configuration page, web server log file accessible from the error message in the Mosart Web Applications Configuration Tool or the browser logs for more details.

# 10.2 Rundown Viewer And Timing Display Issues

If you experience the following issues with Rundown Viewer and Timing Display:

- The content loads slowly or only partially.
- You cannot open more than 5-6 web sessions, meaning that opening the web application in multiple browser tabs or instances fails after 5-6 clients.

These problems may indicate that HTTPS is not properly configured across all relevant components.

In the screenshot below, the 6th Rundown Viewer client displays an error connecting to the Mosart server, while the other clients are functioning correctly:



#### **Troubleshooting Steps:**

- 1. Inspect Browser Logs:
  - Open the browser's Developer Tools and go to the **Network** tab.
  - Inspect some of the URLs. For example, you might see a request URL to the Mosart Server like http://proxy-server:55142/mosart/mosarthub/negotiate?

name=MosartWebUI&negotiateVersion=1.

	00:20	Blocked response cookies Blocked requests 3rd-party requests	5							
Increase and Increases	00:30	1000 ms 20000 ms 30000 ms 40000 ms	50000 ms 60000 r	ns 70000 ms 80000 ms 90000 ms 100000 ms 1						
		*****************	· · · · · · ·	= <del>5                                   </del>						
		Name	<ul> <li>× Headers Payload</li> </ul>	d Preview Response Initiator Timing						
		🗅 status	* General							
		(i) status	• General							
		🗅 status	Request URL:	http://www.2:55142/mosart/mosarthub/negotiate?name=MosartWebUl&ineg						
		(I) status	Provide Market	teversion=1						
		🗅 status	Request Method:	POST						
		(i) status	Pamoto Addross	0.211.114.64/55142						
		🗅 status	Referrer Policy	strict-origin-when-cross-origin						
		(i) status	Naterier Folicy.	and orgin when dota orgin						
		🗅 status	<ul> <li>Response Headers</li> </ul>	▼ Response Headers Raw						
		(i) status	Access-Control-Allow-Cre	dentials: true						
		negotiate?name=MosartWebUI&negotiateVersion=1	Access-Control-Allow-Orig	http:// 2:55142						
		negotiate?name=MosartWebUl&negotiateVersion=1	Content-Length:	0						
		O negotiate?name=MosartWebUI&negotiateVersion=1	Date:	Thu, 15 Aug 2024 10:13:00 GMT						
		mosarthub/name=MosartwebUl&id=FtGm2 ISBfeGjUZNypIN_54g	Location:	https://						
		negotiate?name=MosartWebUl&negotiateVersion=1		name=MosartWebUI&negotiateVersion=1						
		negotiate?name_MesortWebUI&negotiateVersion_1	Server:	Caddy						
		O negotiate?name=MosartWebUI&negotiateVersion=1	Server:	Kestrel						
•		mosarthub?name=MosartWebUl&id=U0FWBOSYLTCHHe8B47zs6w	Vary:	Origin						
Q		mosarthub?name=MosartWebUl&id=U0FWBOSYLTCHHe8B47zs6w	X-Main-Mosart-Server:							
		mosarthub?name=MosartWebUl&id=U0FWBOSYLTCHHe8B47zs6w	<ul> <li>Request Headers</li> </ul>	Raw						
		108 requests 28.4 kB transferred 6.2 kB resources	Accept:	*/*						
		Console Issues What's new X								
0	the second s	10 10 10 10 10 10 10 10 10 10 10 10 10 1								

• A "307 Temporary Redirect" status code indicates that the resource has been temporarily moved to a different URL. This suggests that the proxy server (Caddy) has redirected the client to use HTTPS instead of the original HTTP request.

#### 2. Understand the issue:

- In this example, the client (the Rundown Viewer in the web browser) initially made a request over HTTP to the Mosart server, but the proxy server redirected it to HTTPS.
- This indicates that HTTPS is configured for the Mosart server but not for the Mosart web server and the proxy server.
- By default, the Mosart Web Proxy is configured to enforce HTTPS by redirecting HTTP requests to HTTPS before they reach the Mosart server, if the Mosart server is set up with HTTPS.

#### 3. Fix the problem:

• To resolve this issue, enable HTTPS for the Mosart web server and the proxy server (internal or external) using the Mosart Web Apps Configuration Tool.

<b>@</b> Viz Mosart	Server Configura	tion							
Web Apps	MOSART BACK-UP SERVER If Viz Mosart is configured for redundancy with a main and backup server, provide the address of the backup Viz Mosart Server to support failover for the Mosart web applications.								
n App Launcher									
₩ App Configuration	HTTPS	s to ensure secure communication between clie	nts and servers. When Viz						
Server Configuration	Mosart Web Applications is configured with HTTPS, all communication between Viz Mosart web clients, proxy								
1 User Guide	server and Viz Mosart servers	must be secured.							
	Certificate file ①	C:\Users\lbu\Desktop\secrets\server.crt	Choose file						
	Private Key file ①	C:\Users\lbu\Desktop\secrets\server.key	Choose file						
	Password @		8 Ø						
(Î)			Save Discard changes						

# 10.3 Issues With Mosart Web Server Connecting To The Mosart Server

# 10.3.1 Mosart Remote Control Service (RCS)

Issues with Mosart web server connecting to the Mosart Remote Control Service (RCS), may be due to the RCS not automatically detecting the fully qualified domain name (FQDN) of the machine where it is installed.

For enhanced security and connection stability between the Mosart web server and the Mosart Remote Control Service, the setting **SignalRAllowedOrigins** is introduced.

This setting allows you to specify an exclusive list of origins that may access the SignalR service (used for communication to RCS), ensuring connections are secure and reliable.

- 1. Navigate to the default location of the RCS configuration file at C:\Program Files (x86)\Mosart Medialab\Mosart Server\ConfigurationFiles\RemoteDispatcherServiceConfig.xml.
- 2. Manually configure **SignalRAllowedOrigins** to include the fully qualified domain name of your Mosart server.

Note: For Mosart applications like the Rundown Viewer and Timing Display (which rely on SignalR for realtime communication), when failure to recognize a FQDN prevents communication to RCS, defining SignalRAllowedOrigins is essential.

For detailed configuration instructions, please refer to the RCS configuration file

(RemoteDispatcherServiceConfig.xml) where inline comments provide explanatory documentation.

#### 10.3.2 Firewall Ports

• Ensure the default ports have access.

# 10.4 Browser Logs

#### 10.4.1 To investigate browser logs

In failure situations, you can use your web browser to access the Mosart Web Apps directly and further investigate the browser logs.

- 1. In the App Launcher, click on a web app to open it in the default browser, or paste the web app link directly into your preferred browser:
  - a. **NRCS Plugin**: http(s)://<your-hostname>:<web-proxy-port>/plugin/?nrcs=ENPS&mosid=mosart
  - b. **Rundown Viewer**: *http(s)://<your-hostname>:<web-proxy-port>/rundown*
  - c. **Timing Display**: http(s)://<your-hostname>:<web-proxy-port>/timingdisplay/editor
  - d. **Showmaker**: http(s)://<*your-hostname>:<web-proxy-port>*/showmaker/
- 2. Type **CTRL+Shift+I** (this is a toggle) in the browser and inspect the **Console** tab or the **Network** tab.

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Û	Filter Output							Errors	Warnings Logs In	fo Debug C	SS XHR	Request	*
③ [2024-07-16T09:57:46.2032] Information: WebSocket connected to wss://lbu-pc2:55143/mosarthub?name=MosartWebUI&id=yv5TCLjMp_JwrwUqH1ZD-w.									Uti	ls.js:14	7:29		
server build info: » Proxy { <target>: {}, <handler>: {} }</handler></target>								signa	<pre>signalr.ts:169:18</pre>				
Co	Connected to server. Redundancy is enabled.							<u>signa</u>	<pre>signalr.ts:177:14</pre>				
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