Mosart Web Applications Guide

Version 1.7

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There are general best-practice solutions, these include setting the antivirus software to not scan the systems during operating hours and that the Vizrt components, as well as drives on which clips and data are stored, are excluded from their scans (as previously stated, these measures cannot be guaranteed).

Technical Support

For technical support and the latest news of upgrades, documentation, and related products, visit the Vizrt web site at www.vizrt.com.

Created on

2024/03/14

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

The following Mosart Web Applications are available:

- Mosart NRCS Plugin
- Mosart Timing Display
- Mosart Rundown Viewer
- Mosart Dashboard

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1 Download

- 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.

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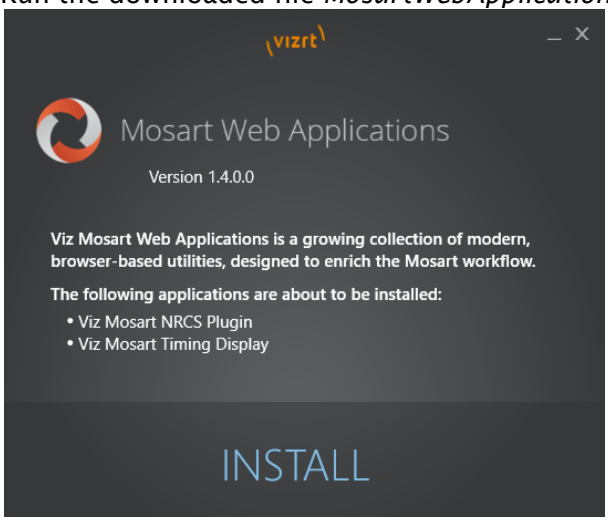
2 Installation

The Mosart Web Applications bundle shall be installed on the Viz Mosart server.

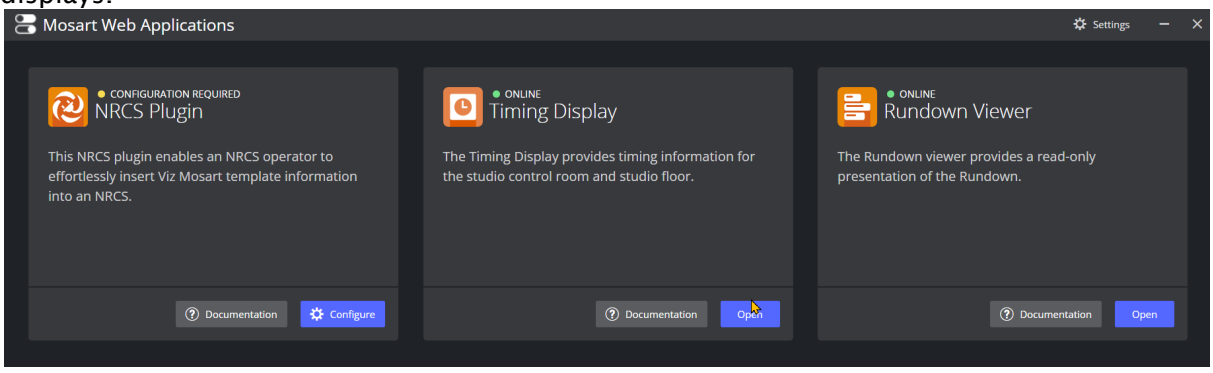
1. Run the downloaded file *MosartWebApplications.Bundle-n.n.n.n.exe*.



   The web applications that will be installed are listed.

> ⚠ **Note**: The Installer places two applications on the local machine
>
> a. Vizrt Mosart Web Applications
> b. Vizrt Mosart Web Applications Configuration Tool

2. Click **Install**.
   Any previously installed versions of the Mosart Web Applications are automatically upgraded.
3. After successful installation, a **Mosart Web Applications Configuration Tool** automatically displays.



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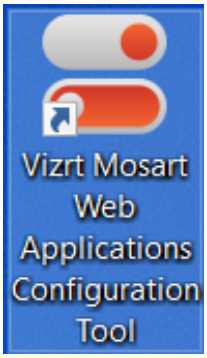
> ⚠ **Note**: A desktop shortcut to **Mosart Web Applications Configuration Tool** is added by default.
>
> 
>

4. Port settings (optional)
   Where security policies restrict ports firewall ports, these are the necessary port numbers for Mosart Web Applications:
   a. **Web Apps REST API**
      HTTP: `55142`.
      HTTPS: `55143`.
   b. **Remote Control Service** (Used by the Timing Display and Rundown Viewer)
      HTTP: `55167`.
      HTTPS: `55168.`

For further setup, follow the Configuration sections of the Setup and Administration for the different Web Applications, NRCS Plugin, Timing Display and Rundown Viewer.

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3 Related Documents

- *Viz Mosart User Guide*: Contains information on how to use Viz Mosart in live production.

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

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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.

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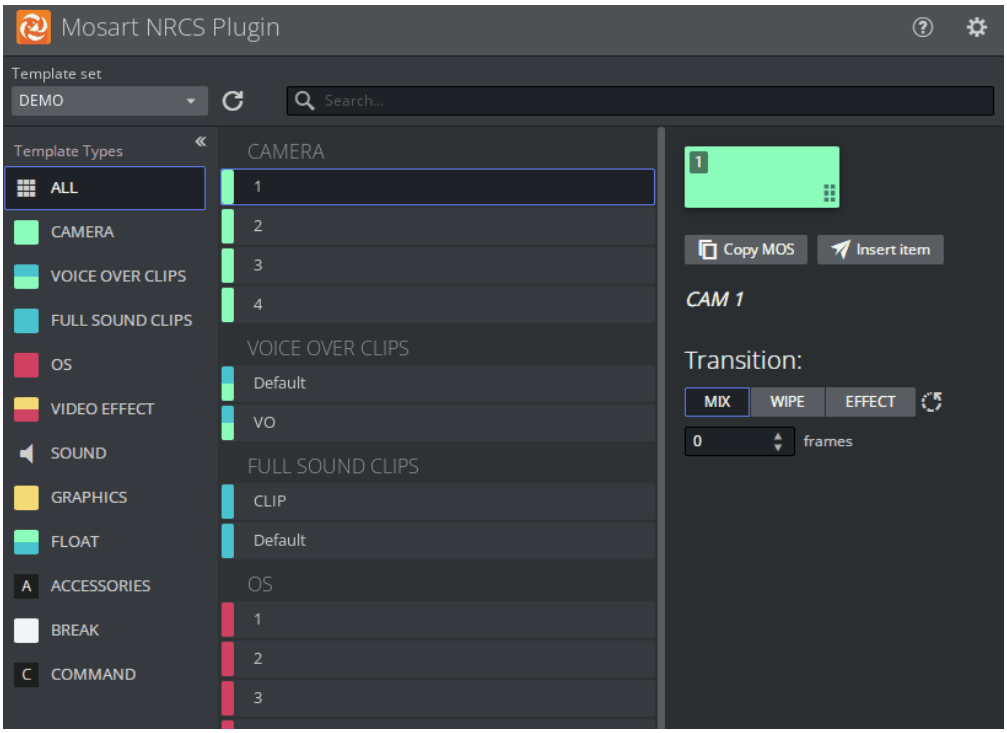
5 Mosart NRCS Plugin

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
- Integrating with an NRCS
- Hosting NRCS Plugin within Pilot Edge

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
- Template Change Alert
- Optimizing Your NRCS Plugin Workspace
- Copying the MOS Object Details
- Modifying Existing MOS Objects

Searching for a Template

Locate a template by typing a *variant* or *template type* in the Search box. Auto-suggest starts displaying search results as you type.

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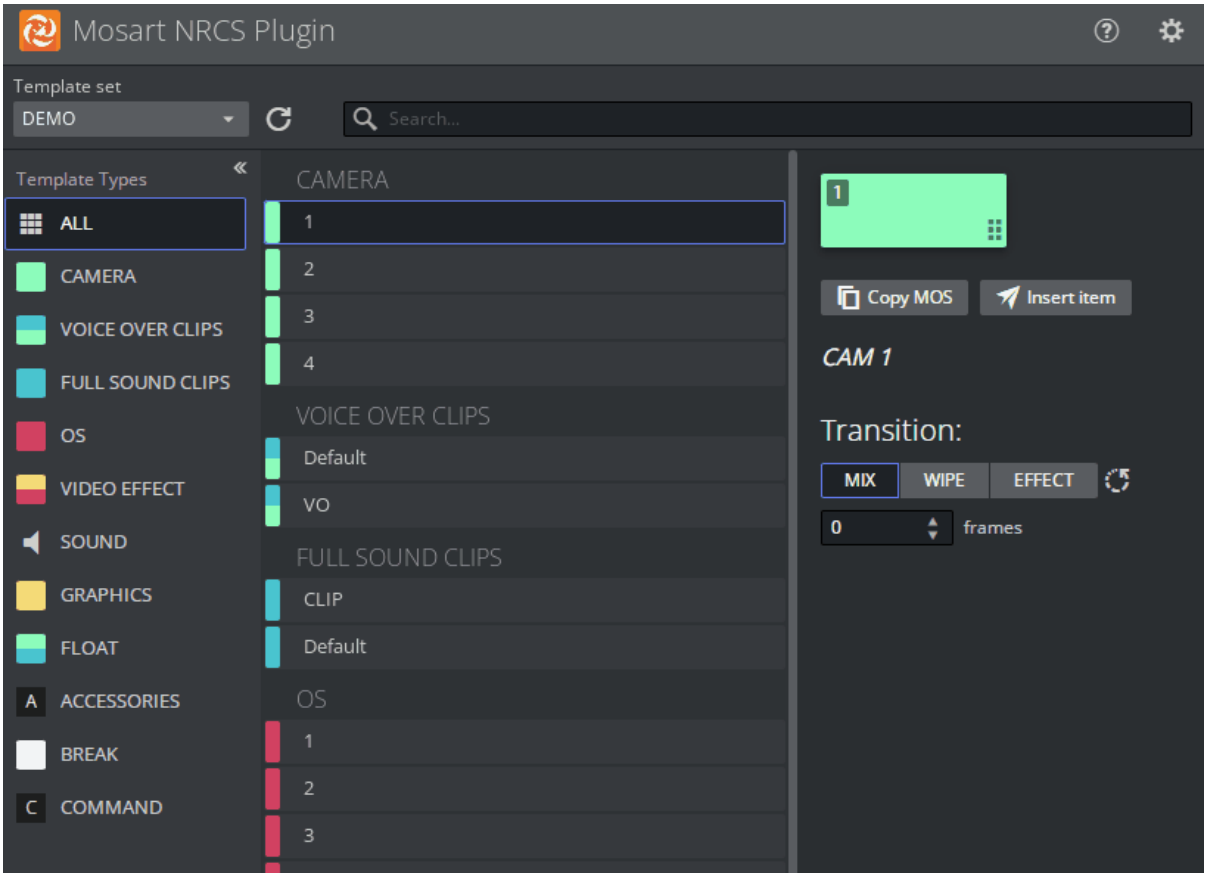
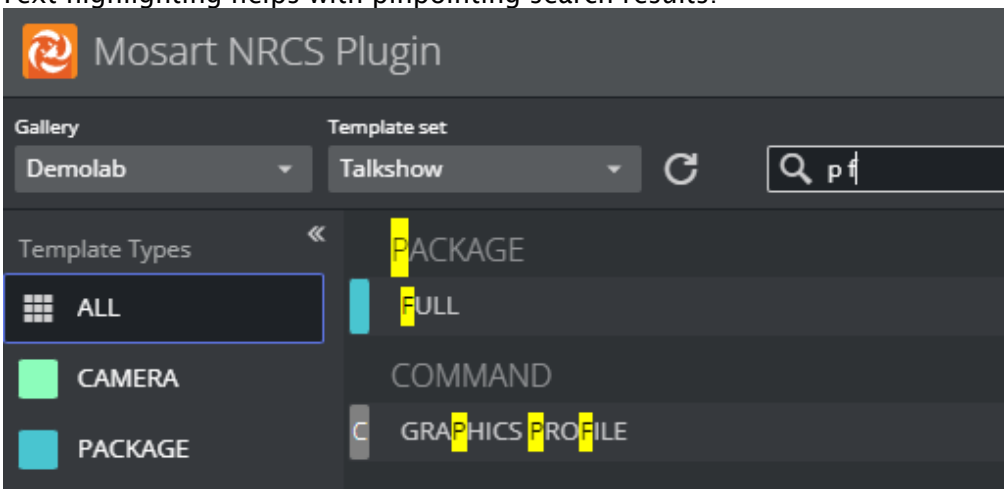


Text highlighting helps with pinpointing search results:



Modifying a Template

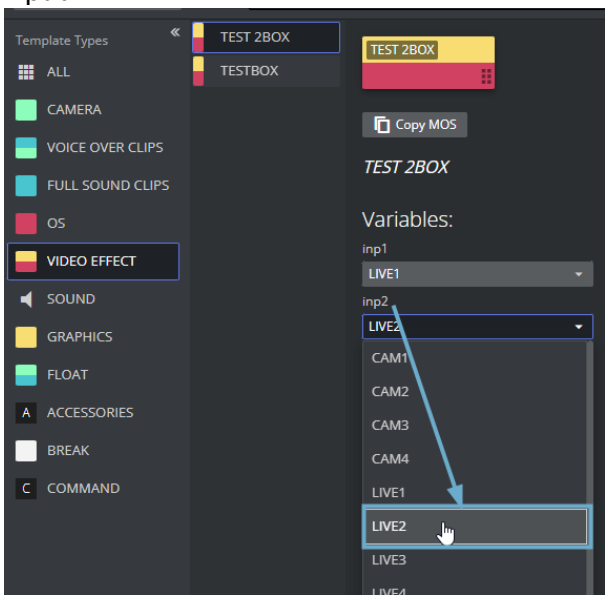
To modify production characteristics

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.

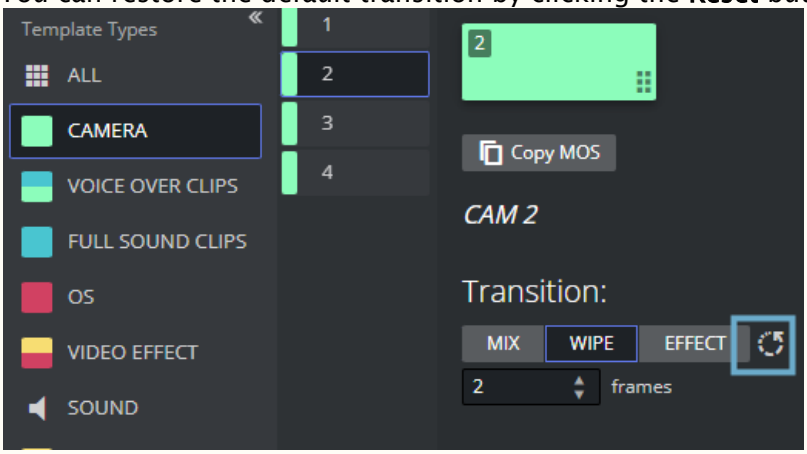
- You can temporarily override any defaults, and add new variables.
  For example, in a *Video Effects* template, you may wish to change the source of the second input:



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).

> ⚠ You can restore the default transition by clicking the **Reset** button.



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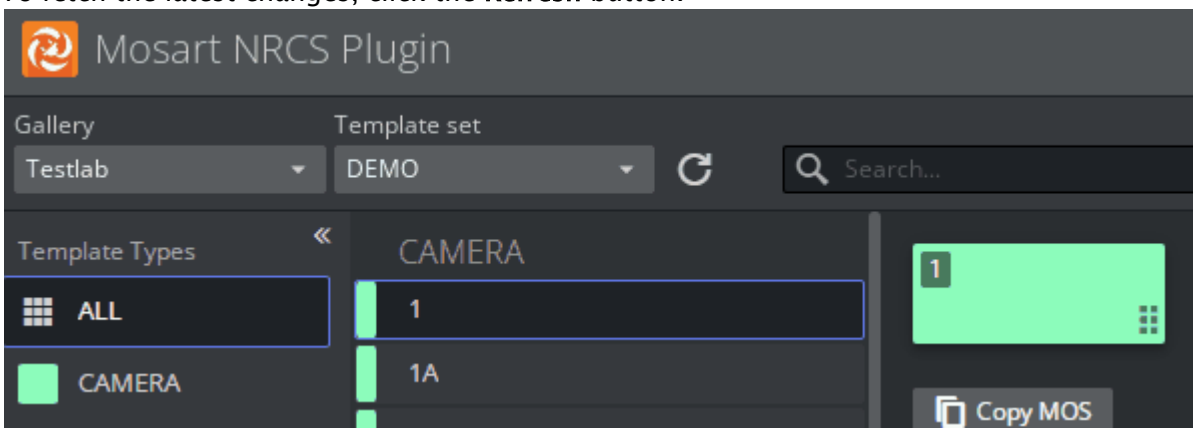
Adding Template Details to the NRCS

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

> ⚠ **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.

Template Change Alert

- If simultaneous changes are being made to the active template set (by another operator using Viz Mosart's Template Editor), the **Refresh** button flashes orange.
  To fetch the latest changes, click the **Refresh** button.



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:

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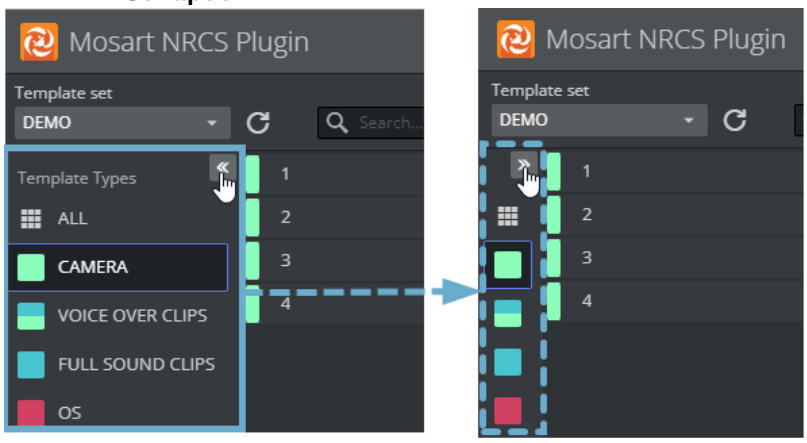
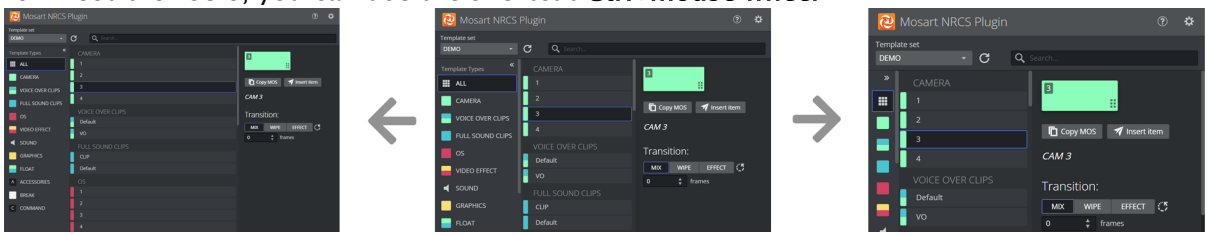
- Click the **Collapse** button.



Scaling the View

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

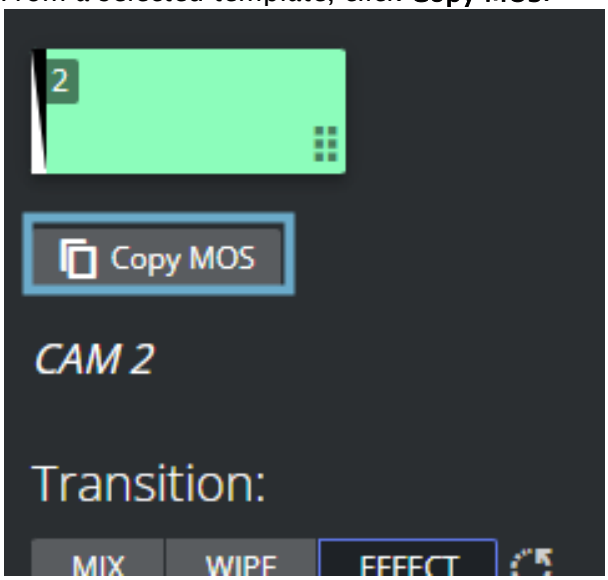
- For most browsers, you can use the shortcut **Ctrl+mouse wheel**.



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**.



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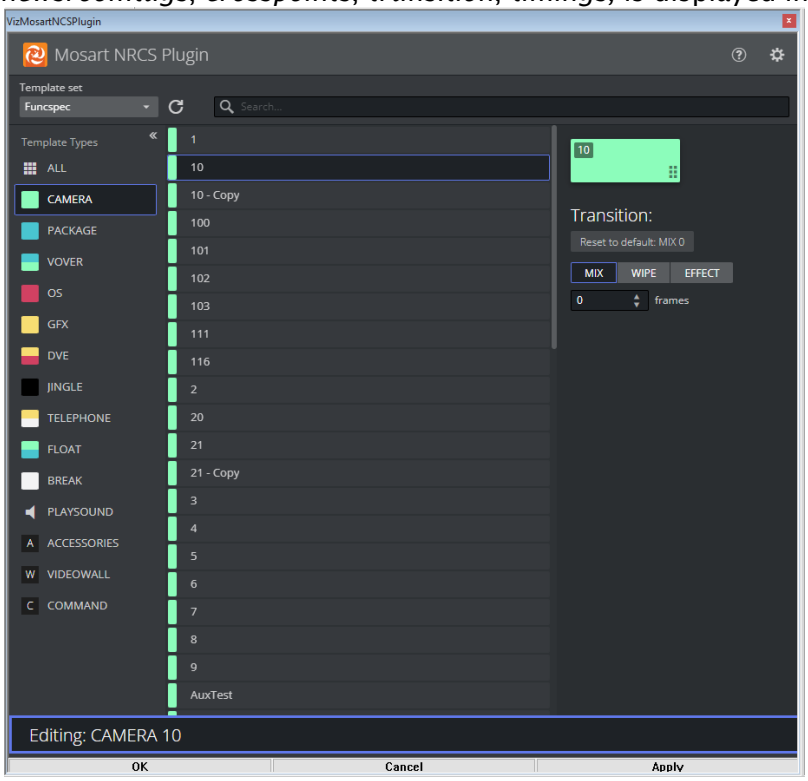
Modifying Existing MOS Objects

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.

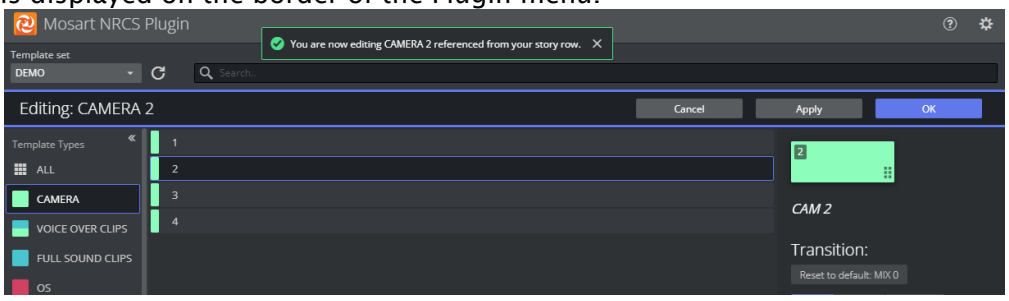
To modify an existing MOS object

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, complete with any control details like *newsroomtags*, *crosspoints*, *transition*, *timings*, is displayed in the Viz Mosart NRCS Plugin.



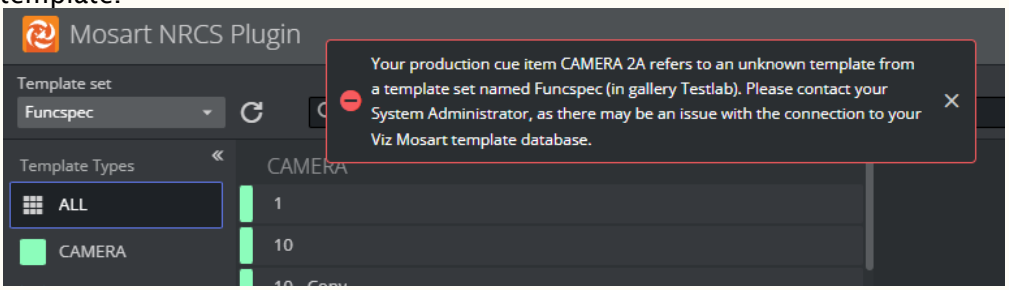
You make modifications direct in the Mosart NRCS Plugin window.

3. The *name* of the template you are working and reference to which *template set* it is part of, is displayed on the border of the Plugin menu.



When finished editing click **Apply**, then **OK**.

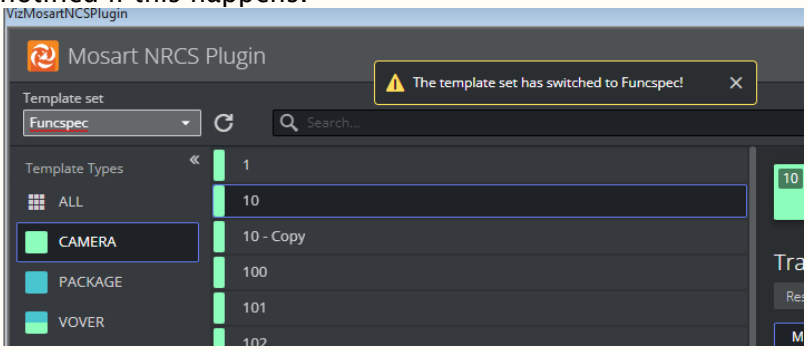
Note: You cannot modify a MOS object that refers to a not-found Viz Mosart template.



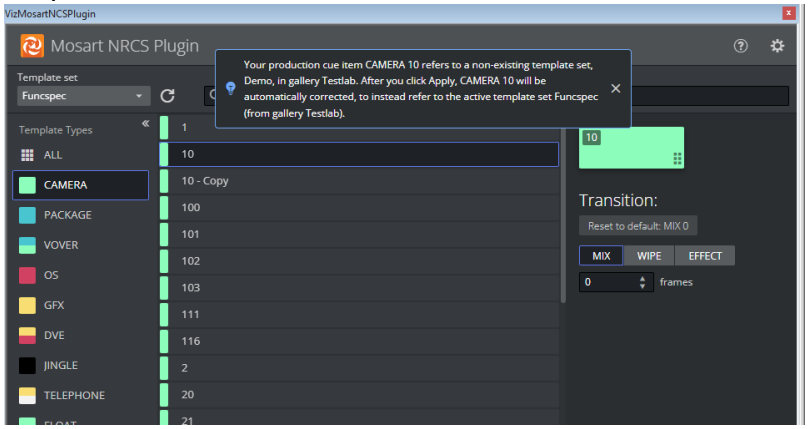
To modify MOS objects created with the Mosart NRCS Plugin

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

Note: The active *Gallery* and/or *Template set* name may automatically change if your selected MOS object references a different gallery/template set. You are always notified if this happens.



- 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 **Apply** on the replacement template.



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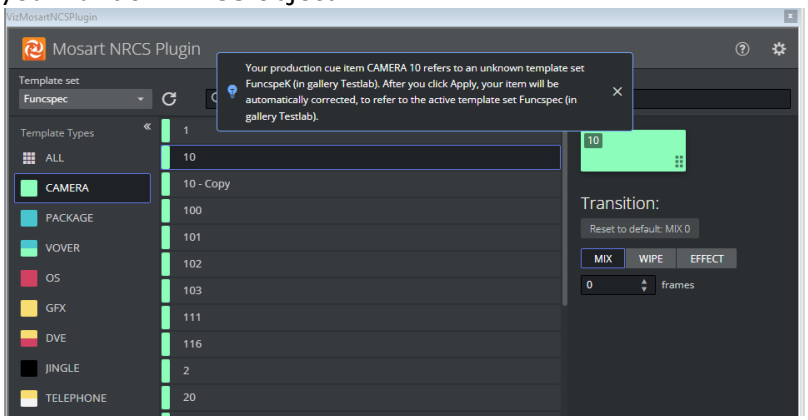
- Alternatively, you can manually search gallery/template sets to locate a similar template. After editing and clicking **Apply**, the new (active) gallery and template set name are stored in your rundown MOS object.



To edit MOS objects created by ActiveX

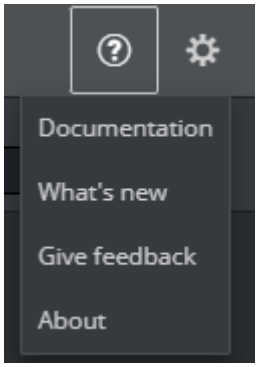
When working with MOS objects that were created with Viz Mosart's legacy NRCS Plugin (Mosart Active-X) the currently selected gallery name and template set name will always be used as template source.

- 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 **Question mark** 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:

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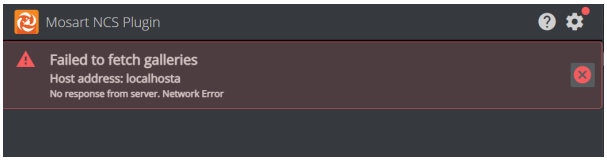

Please contact Vizrt Support if you encounter any error messages.

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*:
  http://localhost:55142/api/v1/galleries/**Local**/templatesets.

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5.2 Setup And Administration

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

- Setting up the NRCS Plugin
  - Download
  - Installation
  - Configuration
  - Additional Server Settings
  - Verifying the Installation
- Troubleshooting
  - Web Apps Service Reports as Offline
  - Bypass the Mosart Web Applications Configuration Tool to Access Web Apps
  - Firewall Ports

Before the NRCS operators can work with Viz Mosart templates using the Plugin, the system administrator must complete a one-time setup.

5.2.1 Setting up the NRCS Plugin

Perform all three procedures, **Download**, **Installation** and **Configuration**.

Download

- 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.

Installation

The Mosart Web Applications bundle shall be installed on the Viz Mosart server.

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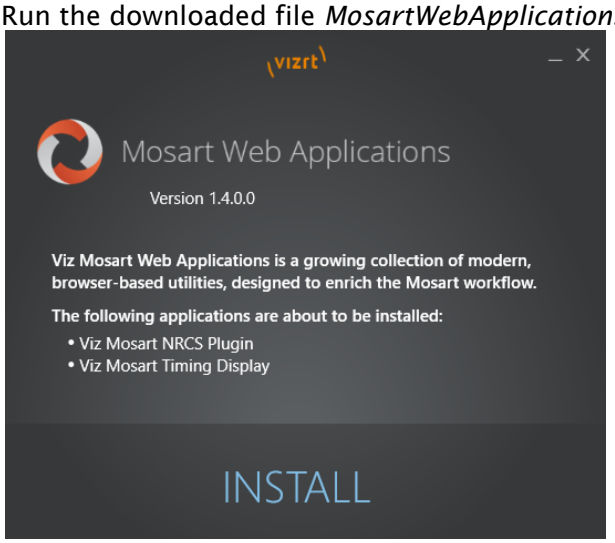
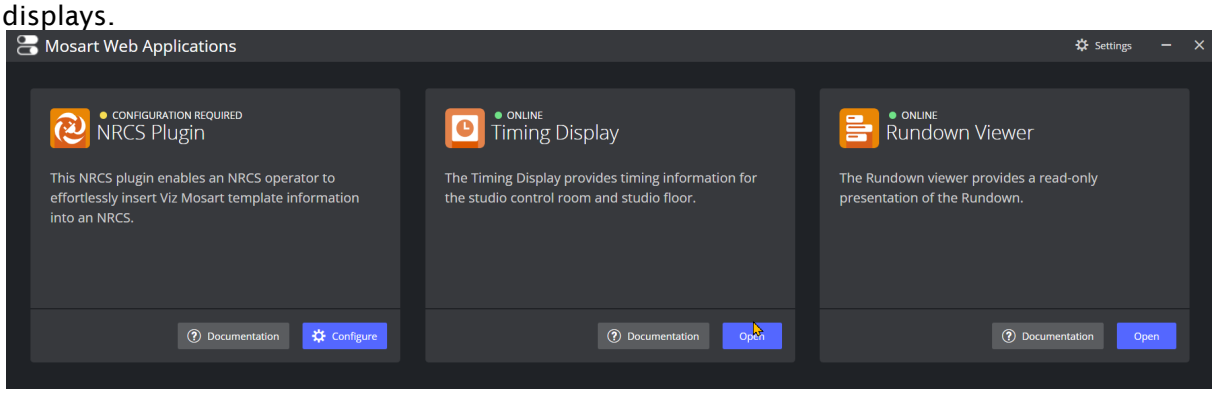
1. Run the downloaded file *MosartWebApplications.Bundle-n.n.n.n.exe*.



The web applications that will be installed are listed.

> **Note**: The Installer places two applications on the local machine
>
> a. Vizrt Mosart Web Applications
> b. Vizrt Mosart Web Applications Configuration Tool

2. Click **Install**.
   Any previously installed versions of the Mosart Web Applications are automatically upgraded.
3. After successful installation, a **Mosart Web Applications Configuration Tool** automatically displays.



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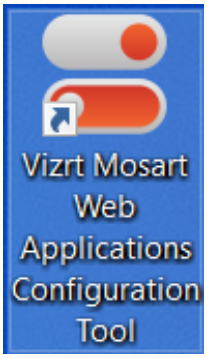
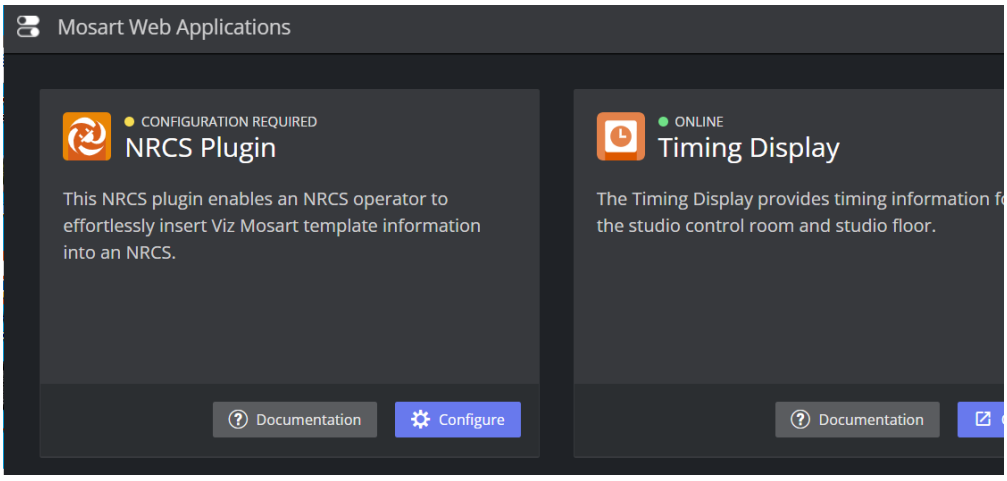
> ⚠ **Note**: A desktop shortcut to **Mosart Web Applications Configuration Tool** is added by default.
>
> 
>

4. Port settings (optional)
   Where security policies restrict ports firewall ports, these are the necessary port numbers for Mosart Web Applications:
   a. **Web Apps REST API**
      HTTP: `55142`.
      HTTPS: `55143`.
   b. **Remote Control Service** (Used by the Timing Display and Rundown Viewer)
      HTTP: `55167`.
      HTTPS: `55168.`

Configuration



1. If the warning CONFIGURATION REQUIRED appears in the **NRCS Plugin** panel, click **Configure**. Follow the guidelines below:

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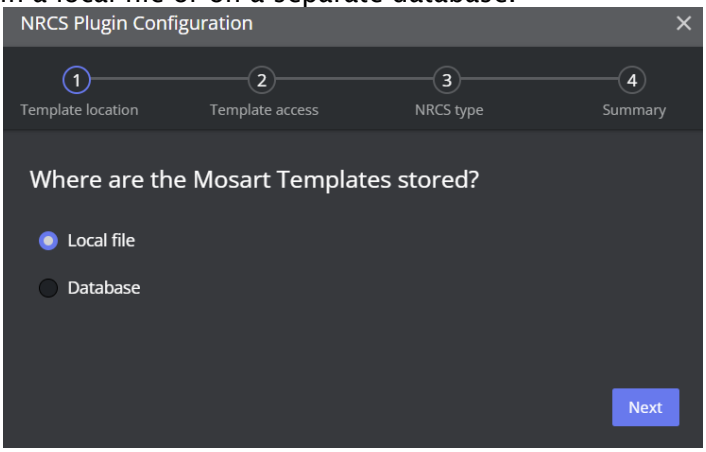
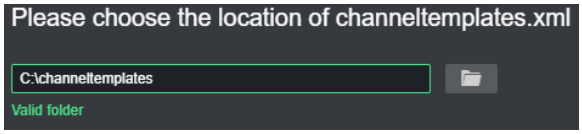
Step	Description
(1) Template location	Select whether your Viz Mosart templates are defined in a local file or on a separate database. 
(2) Template access	**Local**: Usually C:\channeltemplates\ A check is made for existence at the stated destination, for all three files: · channeltemplates.xml · avconfig.xml · newsroomsettings.xml If all are found, a confirmation text *Valid folder* is displayed. Click **Next**.  **Database**: URL (Host + DB name) and DB access credentials

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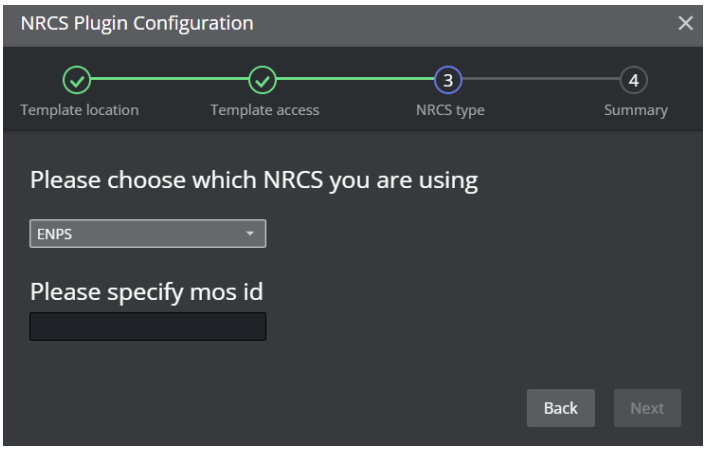
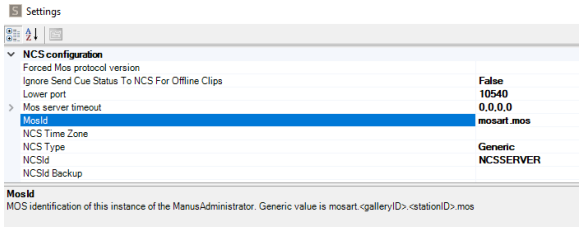
Step	Description
(3) NRCS type	Select the NRCS system you are using. Supported systems are *ENPS* , *iNEWS* , *Octopus* . Any NRCS that can handle html plugins *should* work (select *Other*), but the above 3 are supported.  · **mos id** Mandatory field if you select NRCS type *ENPS*, *Octopus* or *Other*. (not used in *iNews*). **To find yourMos ID** a. In the Manus Administrator console, type *SETTINGS*. b. From the configuration panel that opens, look for **MosId**. c. The value is defined in the column to the right (in this example *mosart.mos*)  For more details, see the *Viz Mosart Administrator Guide* , section **Manus Administrator > Settings Editor MOS > NRCS Configuration**.

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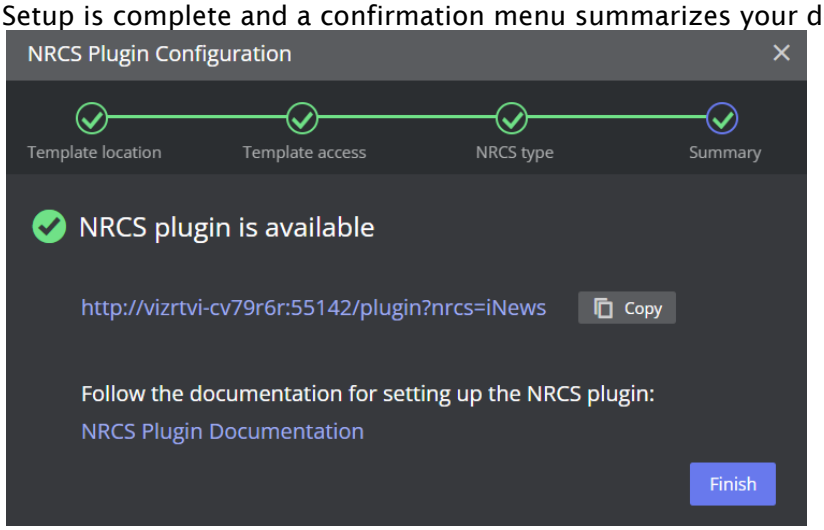
2. Setup is complete and a confirmation menu summarizes your details.



3. Click **Finish**.

Additional Server Settings

Web Server Hostname

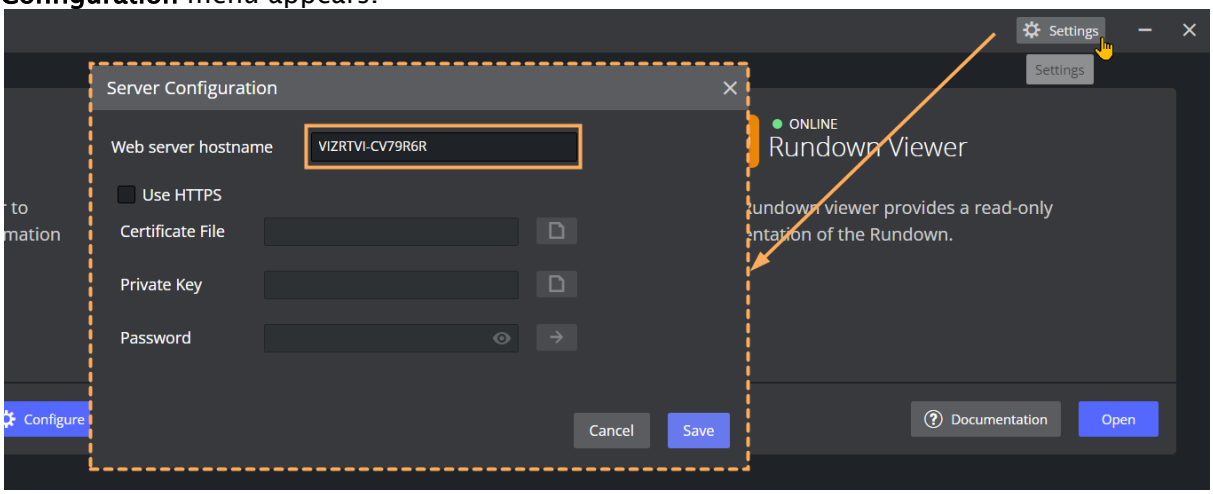
At startup, the Configuration Tool attempts to autodetect the web server hostname and if successful, pre-populates the field.

For some setups, the Configuration Tool's web server pre-populated hostname will differ from the fully qualified domain name (FQDN). For example, the hostname gets automatically pre-populated as *web-apps*, yet the FQDN is *web-apps.example.com*.

To Enable Network Communication with Mosart Web Apps

You can enable other machines on the network to reach Mosart Web Apps.

1. From the Configuration Tool menu bar, click the **Settings** (gear) icon. The **Server Configuration** menu appears.



2. In **Web server hostname**, enter the FQDN.

3. Click **Save**.

Enabling HTTPS

The Web Applications suite optionally supports HTTPS authentication for the applications running under it, with a centralized interface to help with certificate configuration.

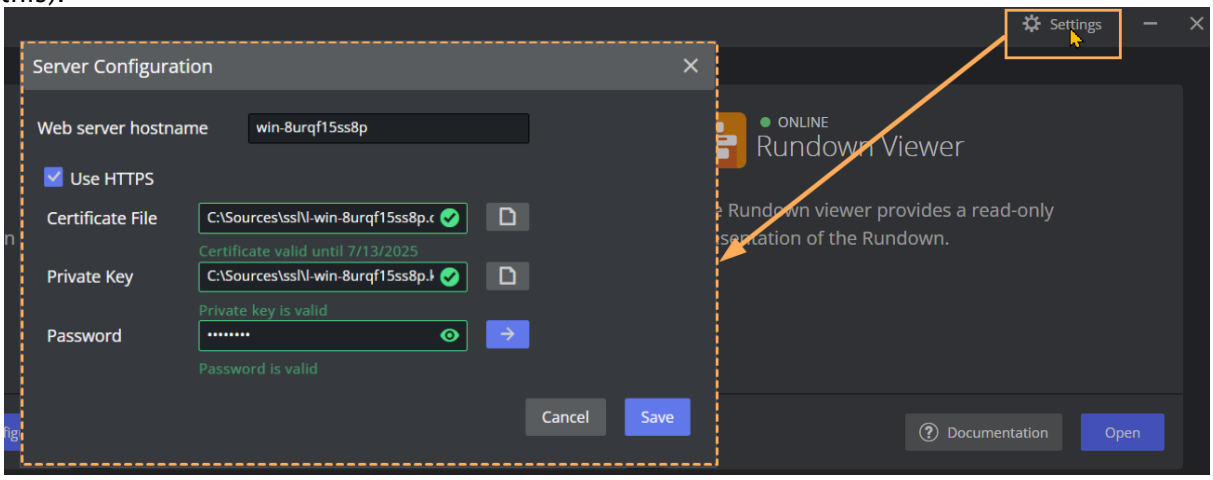
> ⚠ **Note**: Depending on the application, some additional configuration may be needed in the connected applications (for example Viz Mosart itself) to enable HTTPS communication.

Step 1 – Activate HTTPS in Mosart Web Applications

1. Launch the Viz Mosart Web Applications Configuration Tool (a desktop shortcut is usually available by default).
2. In the top right corner, select the **Settings** (gear) icon. The **Server Configuration** menu appears.
3. Select **Use HTTPS**.

   > ⚠ **Note**: This selection turns on HTTPS for the NRCS Plugin, Mosart Timing Display and Rundown Viewer.

4. Provide certificate, key and authentication details (consult with your IT department to obtain this).



5. Click **Save**.

Step 2 – Turn HTTPS on in Mosart Remote Dispatcher Service

1. 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, using the same three values from the **HTTPS Configuration** menu shown above:
   - **SignalRUseHttps**: *true*
   - **SignalRCertificatePath**: *<Certificate File* entered above*>*
   - **SignalRCertificateKeyPath**: *<Private Key* entered above*>*

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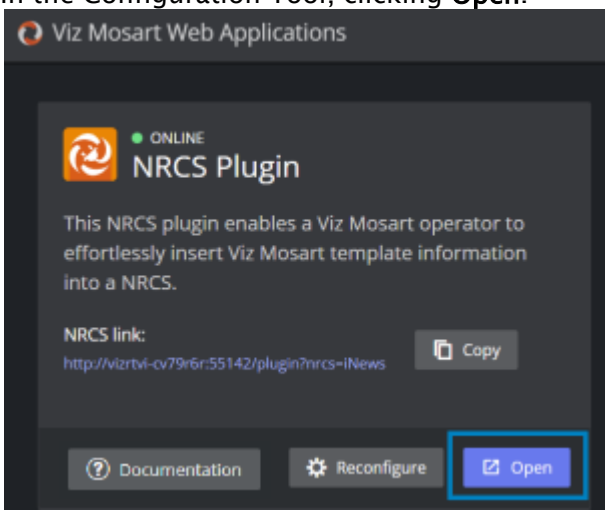
- **SignalRCertificatePassword**: *<Password* entered above*>*

```
<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" />
```

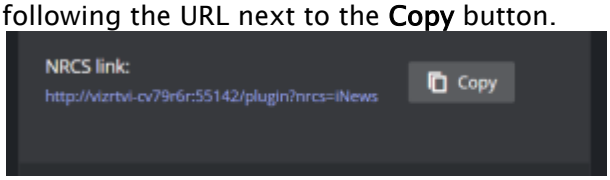
3. Restart the Remote Control Service.

Verifying the Installation

1. After entering NRCS type *above*, clicking **Next** starts a background Windows service, *Mosart REST API* (a combination of the REST API and the NRCS Plugin).
2. You can check that the NRCS Plugin is accessible by either:
   a. In the Configuration Tool, clicking **Open**.



   or
   b. following the URL next to the **Copy** button.



> ⚠ 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}*

3. To complete the integration, configure the NRCS side, according to the appropriate NRCS as described in section Integrating with an NRCS, where you will use the copied URL.

5.2.2 Troubleshooting

Web Apps Service Reports as Offline

At any time you can start the Mosart Web Applications Configuration Tool and check operating status.

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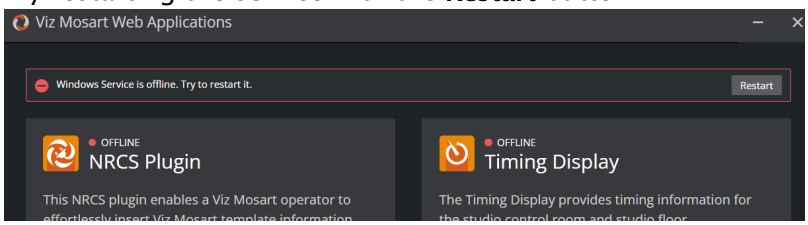
A common error is when a Windows service has failed.

- Try restarting the service with the **Restart** button.



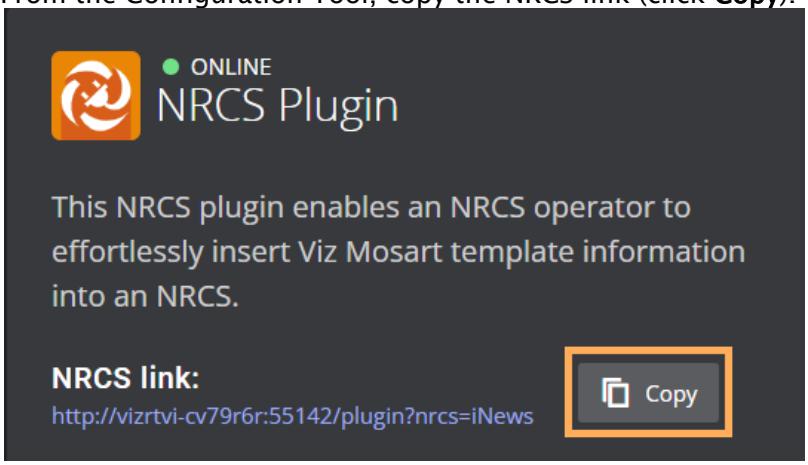
- You can also rewrite any previously entered values with the **Reconfigure** button.

Bypass the Mosart Web Applications Configuration Tool to Access Web Apps

In failure situations, you can use your web browser to communicate with the Mosart Web Apps (instead of the Configuration Tool).

NRCS Plugin

1. From the Configuration Tool, copy the NRCS link (click **Copy**).



   The URL has the form similar to: *http://<your-hostname>:55142/plugin/?nrcs=ENPS&mosid=mosart*
2. Open you web browser and paste the URL in to see the NRCS Plugin.

Rundown Viewer

- Edit the URL to: *http://<your-hostname>:55142/rundown*

Timing Display

- Edit the URL to: *http://<your-hostname>:55142/timingdisplay/editor*

Firewall Ports

- Refer to the optional Configuration step Port settings (optional).

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5.3 Integrating With An NRCS

This section describes

- NRCS Integration
  - ENPS
  - iNEWS
  - Octopus

- The server-based plugin configuration described below avoids having to configure each individual NRCS client.
- This section assumes the Mosart NRCS Plugin has been successfully installed and set up, as described in section Setup and Administration.

5.3.1 NRCS Integration

The NRCS Plugin supports connections to

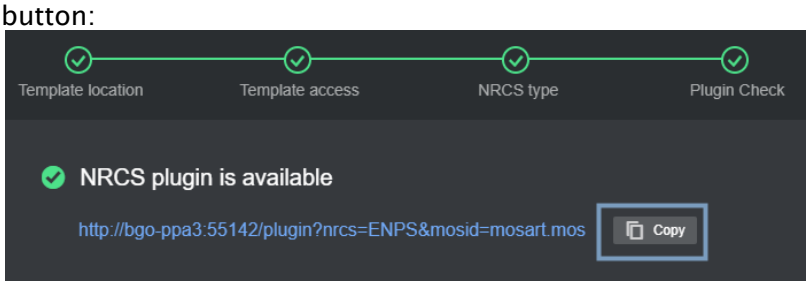
- ENPS
- iNEWS
- Octopus.

> ⚠ **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.)

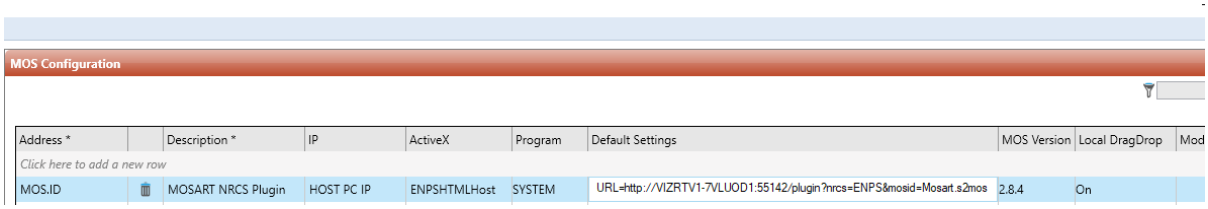
ENPS

1. In the Configuration Tool (if not already running, select **Windows Start > Viz Mosart NRCS Plugin Configuration Tool**) on the Mosart server, collect the NRCS Plugin's URL with the **Copy** button:



2. On the ENPS machine, navigate to **System Maintenance > MOS Configuration**.

3. Paste the NRCS Plugin's copied URL, similar to the example below:



> ⚠ **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 *MosId* 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`
2. 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 the **1** to **6** with one clarification:
   - 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 (if the Configuration Tool is not already running, select **Windows Start > Viz**

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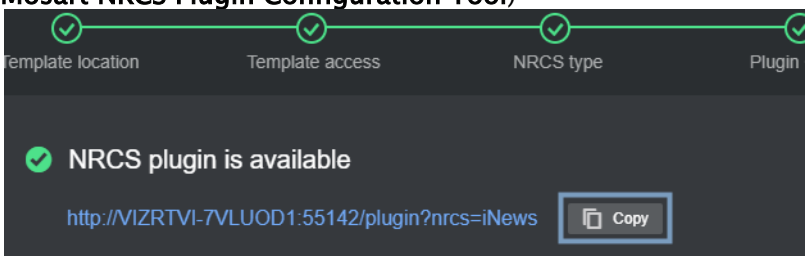
Mosart NRCS Plugin Configuration Tool)



iii. Finally, append

mosItemBrowserProgID = Mosart.ActiveX
mosItemEditorProgID = Mosart.ActiveX

For example:

URL = http://BGO-EDR2:55142/plugin?nrcs=iNews

mosItemBrowserProgID = Mosart.ActiveX
mosItemEditorProgID = Mosart.ActiveX

> ⚠ **Note**:
> - The parameter mosItemPlayerProgID mentioned in the Avid document is *not* mandatory in this context.
> - The URL element *mosid* is not required for iNEWS.

> ⚠ **Note**: If Mosart ActiveX opens when trying to modify/edit a Mosart items (when double clicking on the item), you must first *uninstall* Mosart ActiveX.

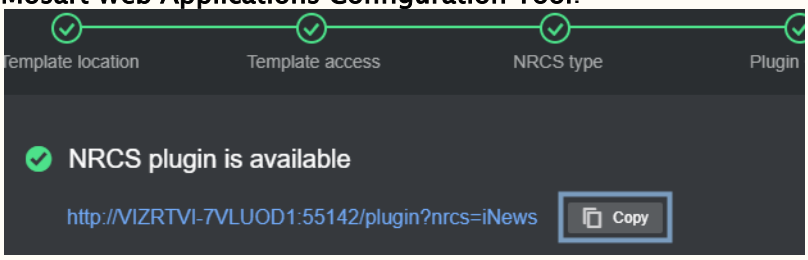
iNEWS Clients without HTML5 Support

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. Under **Install options > Mosart NCS Plugin URL** , paste the URL of the Plugin (*http://machine-name:55142/plugin?nrcs=iNews*).

> ⚠ **Note**: This is the URL you save with the Configuration Tool **Copy** button.
> If the Configuration Tool is not already running, first select **Windows Start > Vizrt Mosart Web Applications Configuration Tool**.



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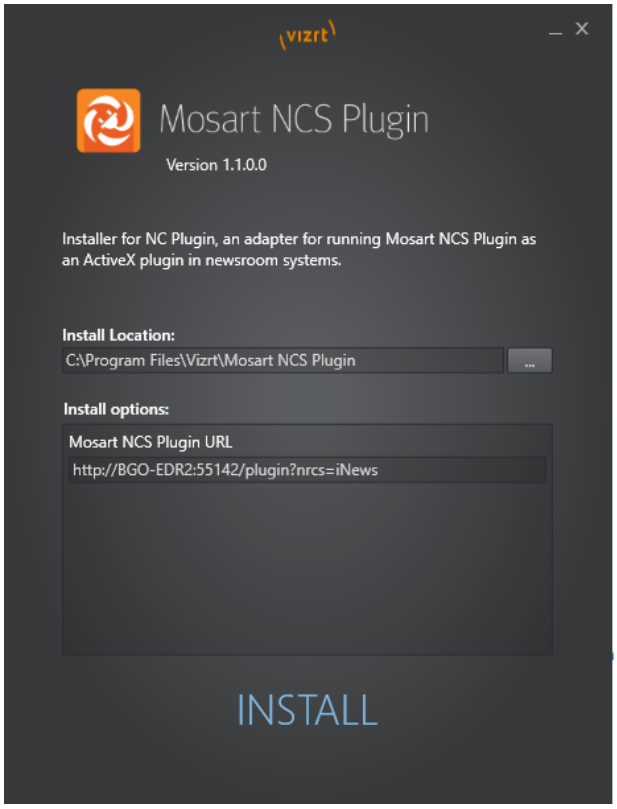
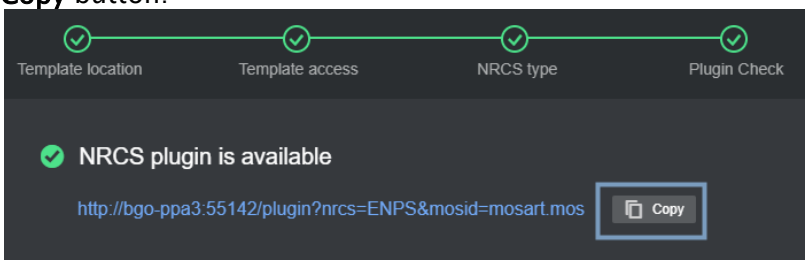


3. Click **Install**.
4. Open/Restart your iNEWS Client.
   The Viz Mosart NRCS Plugin is under:
   Tools > Plugin > Mosart NRCS Plugin.

> ⚠ **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*.

Octopus

1. In the Configuration Tool, (if not already running, select **Windows Start > Vizrt Mosart Web Applications Configuration Tool**) on the Mosart server, collect the NRCS Plugin's URL with the **Copy** button:



2. Log-in to Octopus with Admin privileges.

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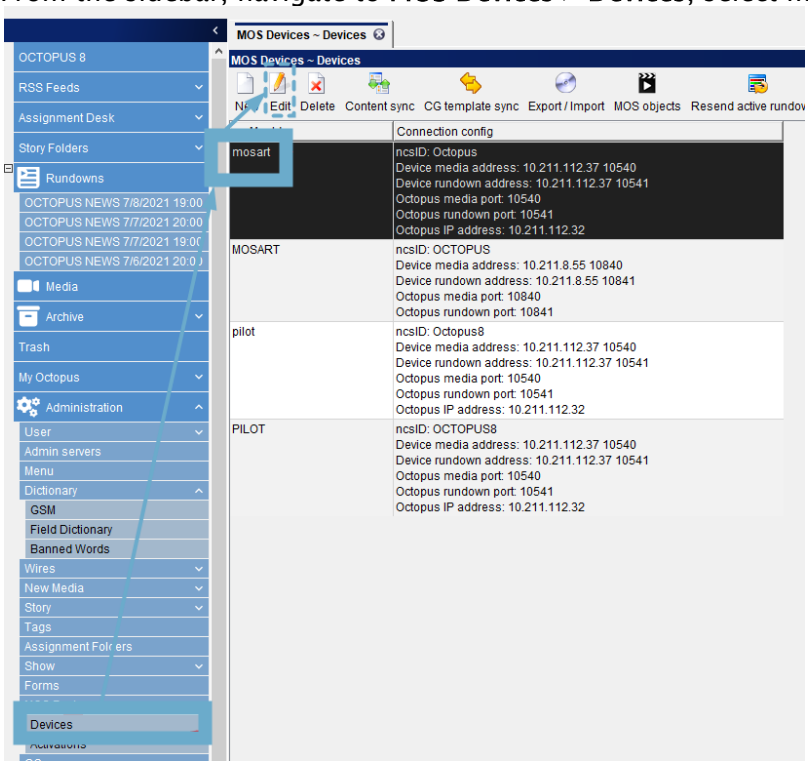
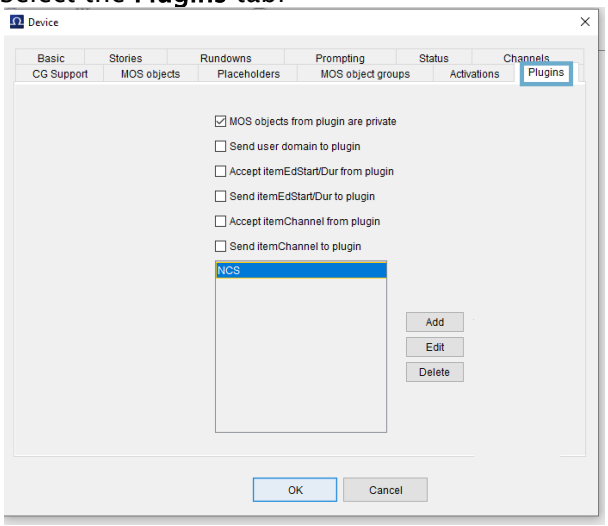
3. From the sidebar, navigate to **MOS Devices > Devices**, select *mosart* and click **Edit**.



4. Select the **Plugins** tab:



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

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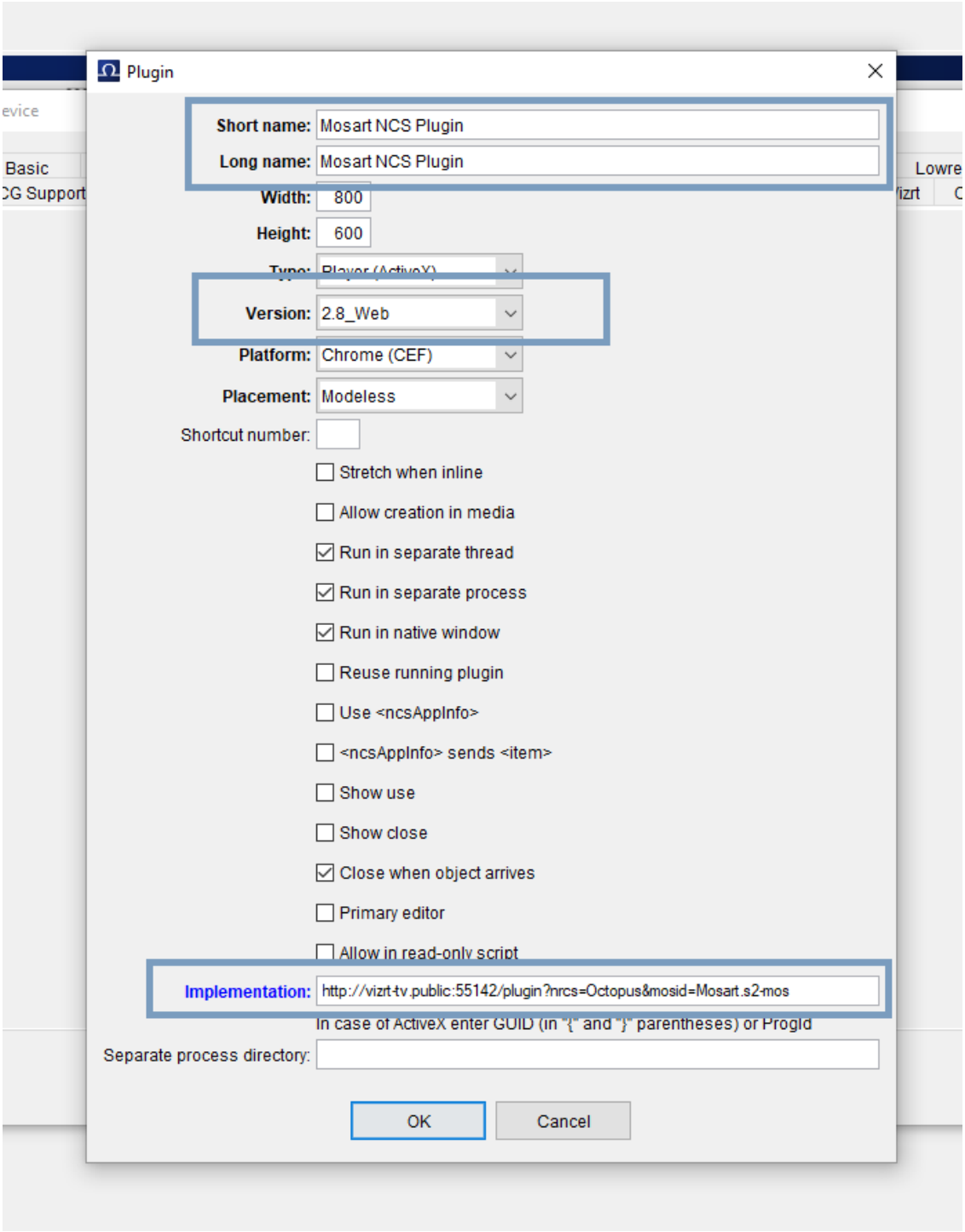

6. Setup is complete.
   When editing a selected rundown, the user right-clicks for **New > Create using** <given name

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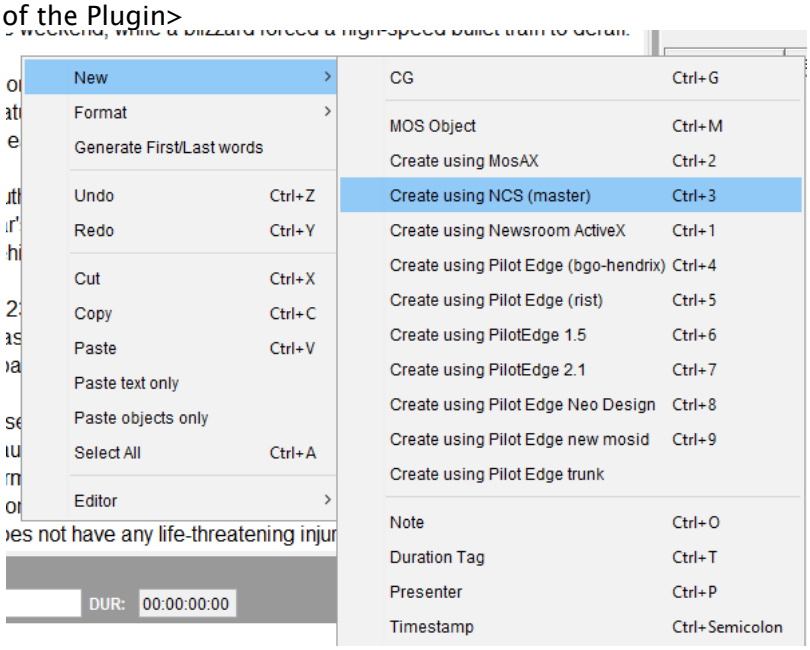
of the Plugin>



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

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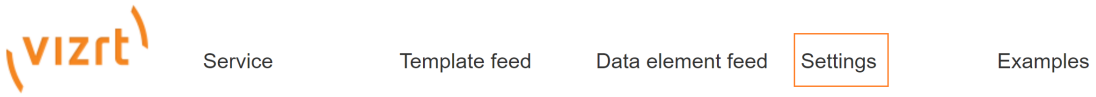
5.4 Hosting NRCS Plugin Within Pilot Edge

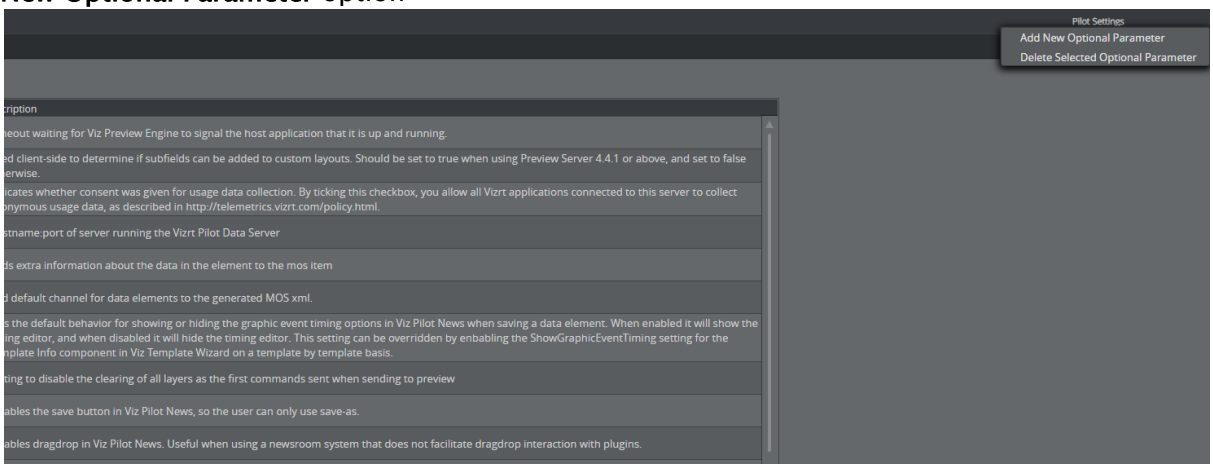
If you are using the Pilot Edge version 3.0 or later, you are now able to Host the NRCS plugin within the Pilot Edge plugin.

5.4.1 How to Set up

- Open your Pilot Data Server.
- Click on the **Settings** option.



- Right click on the **Pilot Settings** text in the top right corner of the page, then click the **Add New Optional Parameter** option



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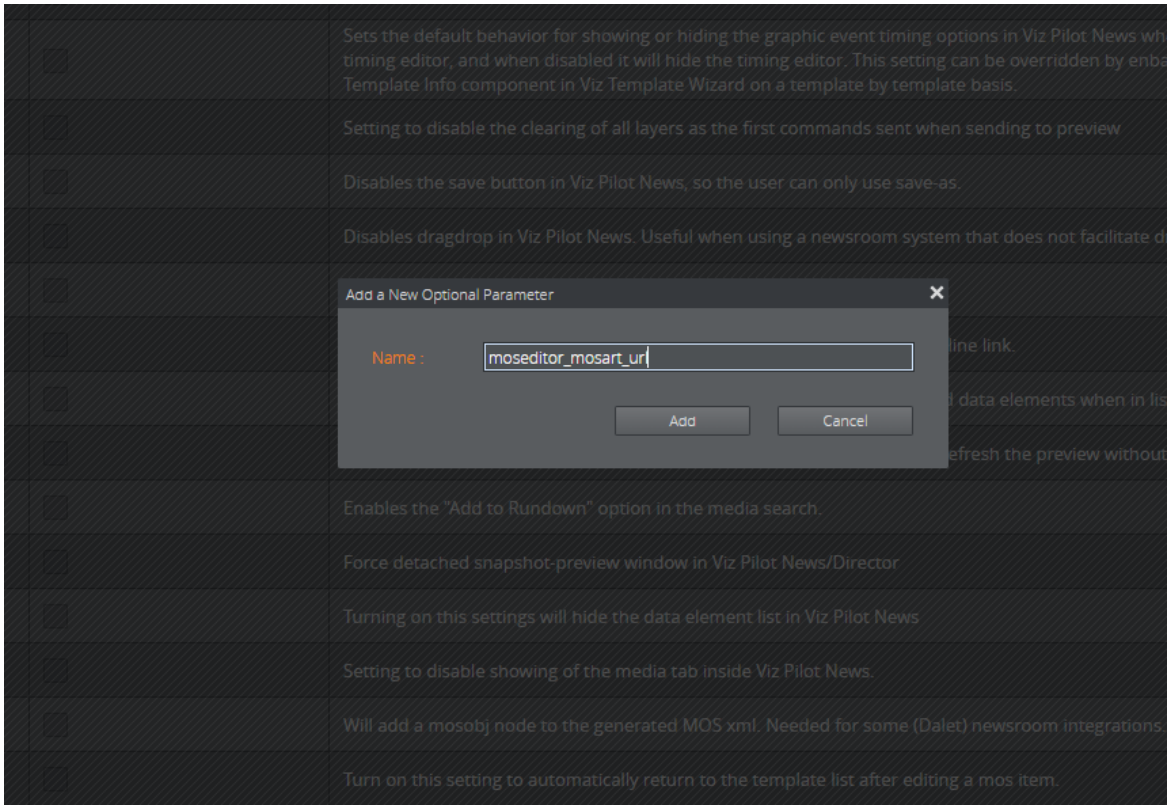
- Add a parameter called **moseditor_mosart_url** which then appears in the list.



Name	Value	Description
mos_legacy_template	☐	If true, legacyTemplate e MOS Item is sent.
mos_plugin_url	https://bgo-wonderland.vizrt.internal/pds/app/pilotedge/PilotEdge.html	URL of the Pilot MOS HT 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/taskui/?form-columns=4&theme=viz	

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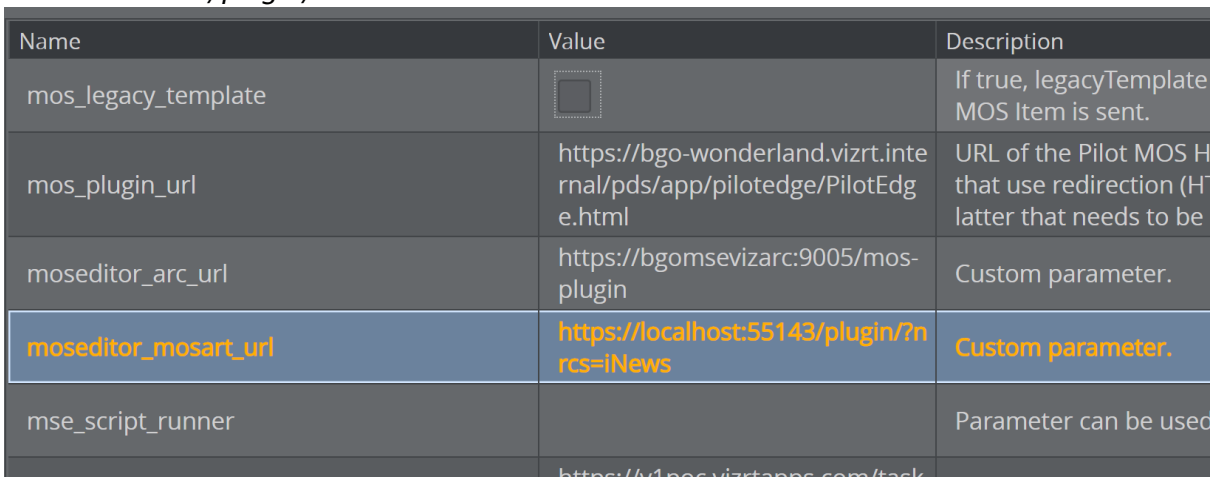
- In the **value** field, paste in the URL to your NRCS Plugin, for example: *https://localhost:55143/plugin/?nrcs=iNews*.

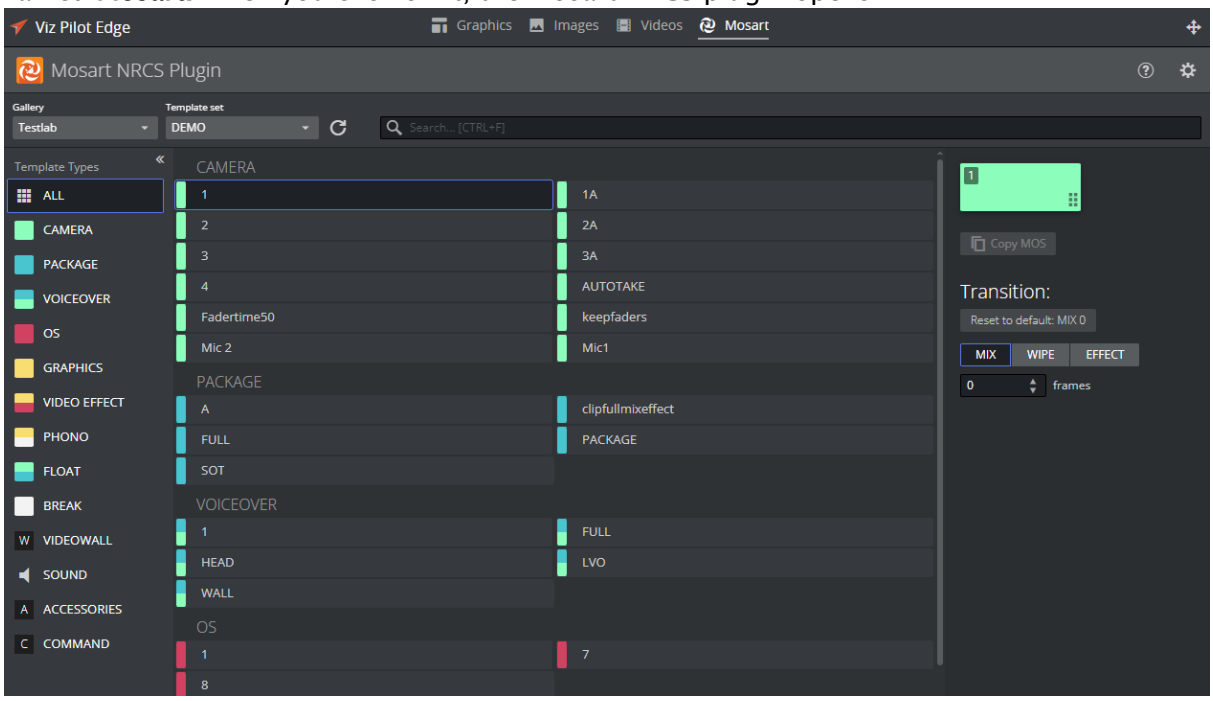


- Click the Save button, on the top left.

> **Note:** If you are using the Pilot Edge on **HTTPS**, the Mosart NRCS plugin has to be on **HTTPS** as well.

5.4.2 How to Use

- Open the Pilot Edge plugin in your newsroom system, there is now a new tab on the top named **Mosart.** When you click on it, the Mosart NRCS plugin opens.



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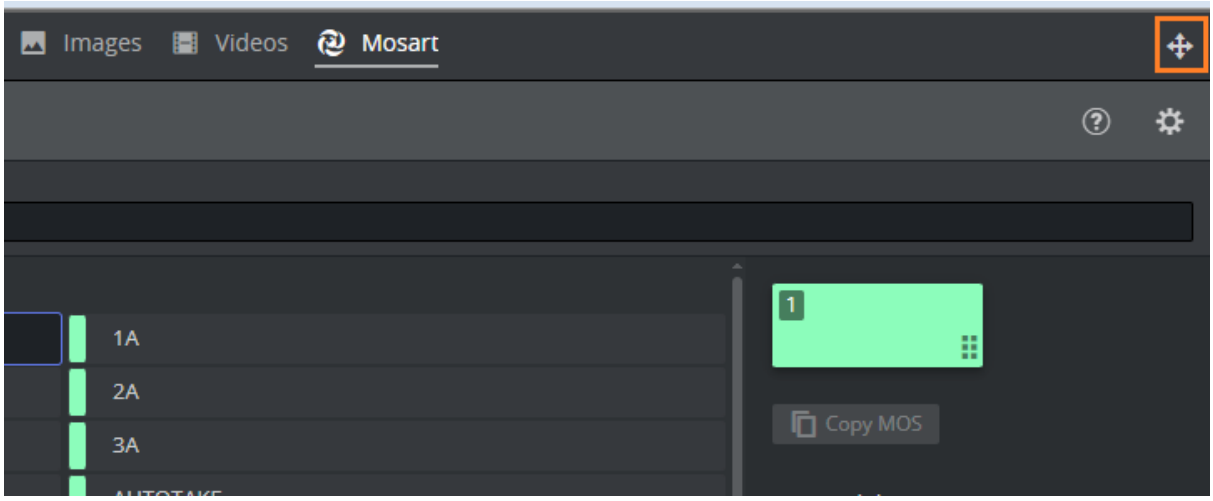
- If you want to Drag in a Mosart item into your rundown, you cannot drag directly from the plugin itself. Instead you have to select the item you want to drag, then drag the cross icon at the very top right of the plugin.



- Editing an item works exactly the same as if you were using the Mosart NRCS plugin normally. Just now if you try to edit a Mosart item that was dragged in while hosted in Pilot Edge, it automatically opens the the NRCS plugin within Pilot Edge.

> **Note:** As of right now, editing items ONLY works properly in INEWS.

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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.

> ⚠ **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

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6.1 Working With The Timing Display

- Key Features
- Operating Modes
  - View Mode
  - Edit Mode
  - Audio Countdown
- Distributing a Timing Display

6.1.1 Key Features

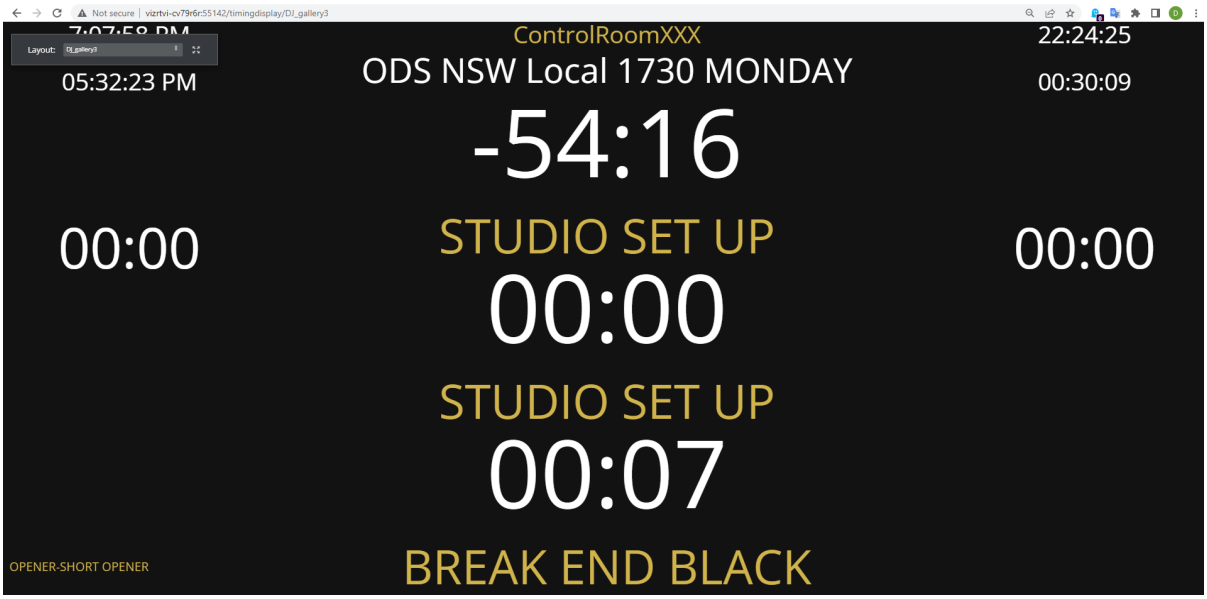
- Supports a variety of devices (for example an iPad or networked phone).
- A 24 x 24 editing grid enables rich flexibility for timer layouts.
- Each timer has a consistent and readable appearance. Available space is optimized with proportionate fonts.
- Rapid drag and drop of timer elements, from an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

6.1.2 Operating Modes

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

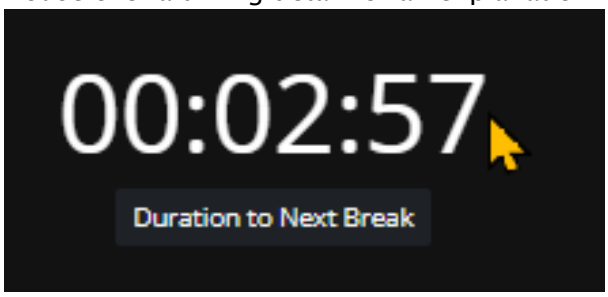
View Mode

Browse-anywhere timing information in your web browser.

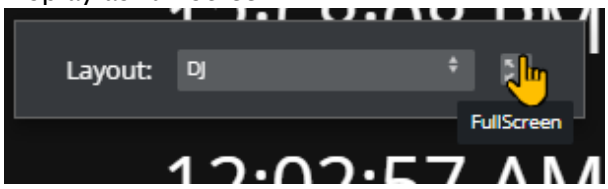


In *View* mode you can:

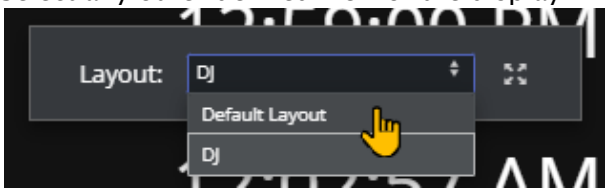
- Mouse-over a timing detail for an explanation.



- Display as full screen.

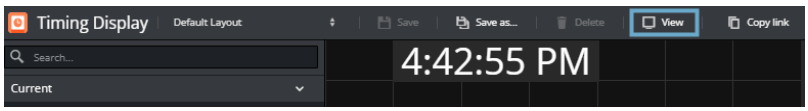


- Select any other defined view of the display.



To display a Timing Display in View mode

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



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.

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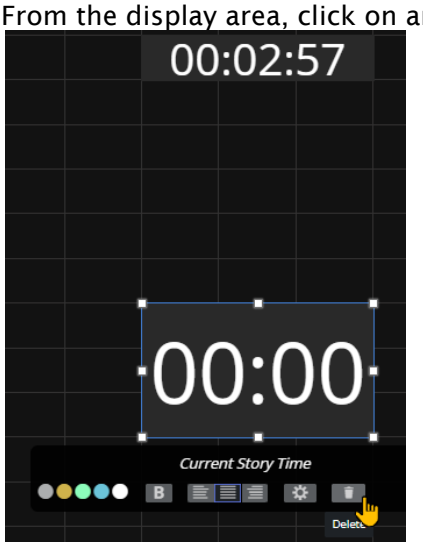
b. From the display area, click on any timing detail and edit/delete.



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

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

Audio Countdown

Prerequisites

Timing Display plays its audio files located in the "C:\ProgramData\Mosart Medialab\Mosart Web Apps\TimingDisplayMedia" folder 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 Edit Mode.

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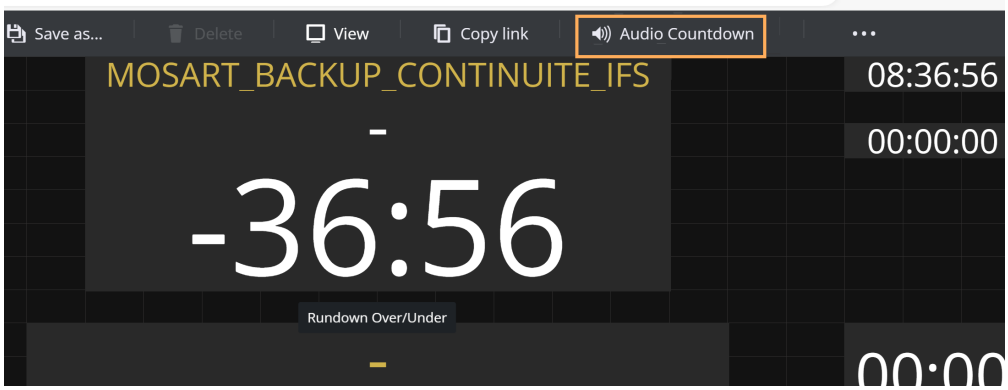
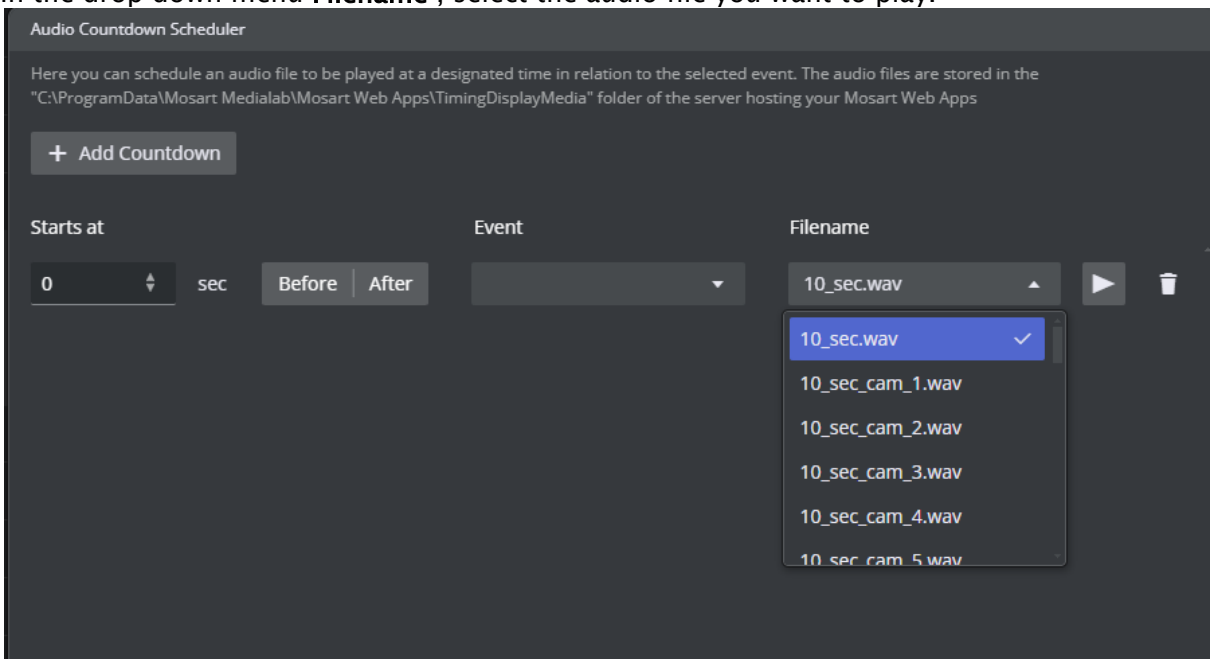
2. In the menu bar at the top of the page, click **Audio Countdown**.



3. From the dialog window that appears, click **Add Countdown**.
4. In the drop-down menu **Filename** , select the audio file you want to play.



The selections are 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 on the Play icon to the right of the dropdown menu.

5. In the drop-down menu **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.

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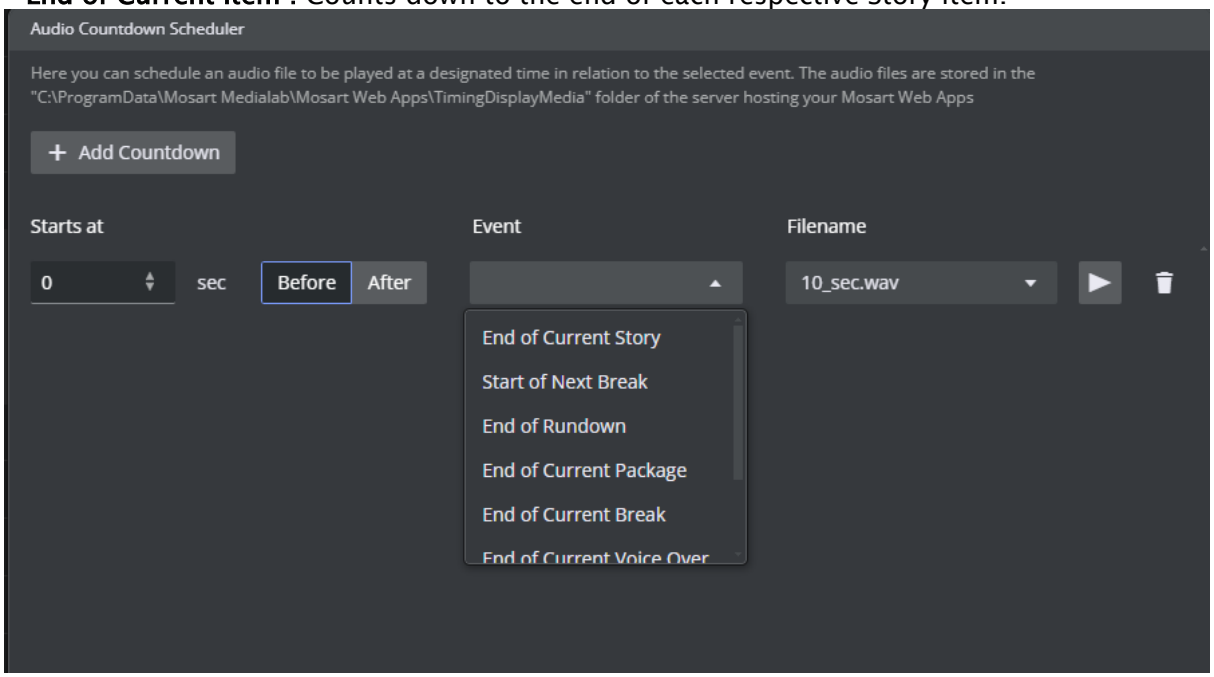
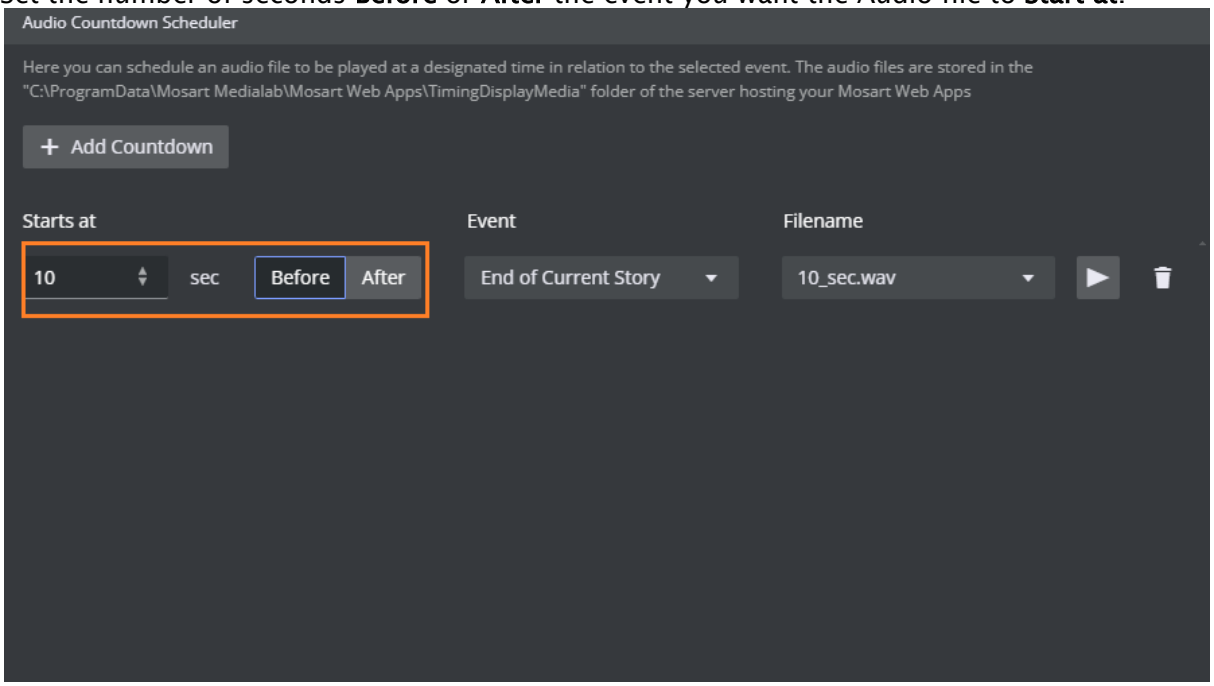
- **End of Current Item** : Counts down to the end of each respective Story item.



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



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.

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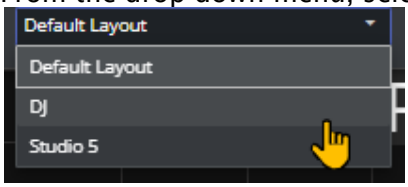
Note: If you *refresh* the Timing Display, you must again perform some activity on the web page before any audio can be played.
Simplest is just clicking on the page or pressing any keyboard key while the web page has focus. This is standard web browser behavior.

6.1.3 Distributing a Timing Display

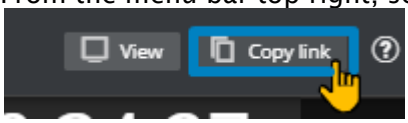
Once you have created or modified a Timing Display, you can share it with other users on the same network.

To distribute a Timing Display

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



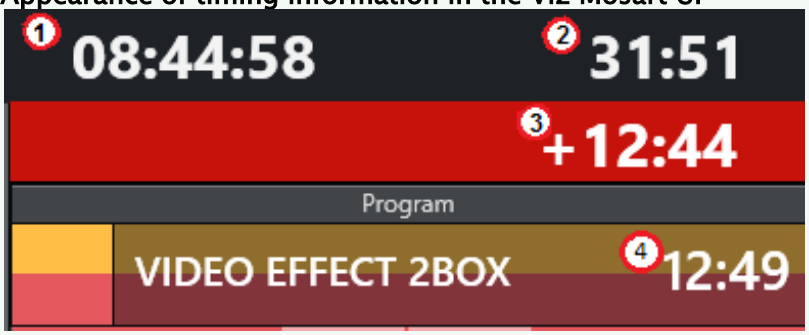
3. From the menu bar top-right, select **Copy link**.



4. Share the URL with your users.

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



1. Counts the downtime to the *next break*.
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.

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6.2 Setup And Administration

- Setting up the Timing Display
  - Prerequisites
  - Download
  - Installation
  - Configuration
  - Additional Server Settings
- Support for Main/Backup Connection
- Troubleshooting
  - Web Apps Service Reports as Offline
  - Bypass the Mosart Web Applications Configuration Tool to Access Web Apps
  - Firewall Ports

6.2.1 Setting up the Timing Display

Prerequisites

- Viz Mosart 5.0.3 or later.

> ⚠ **Note**: Timing Display will work out of the box, as long as you *install the Mosart Web Applications on the* ***same machine*** *as the* ***Viz Mosart Server*** .

Perform all three procedures, **Download**, **Installation** and **Configuration**.

Download

- 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.

Installation

The Mosart Web Applications bundle shall be installed on the Viz Mosart server.

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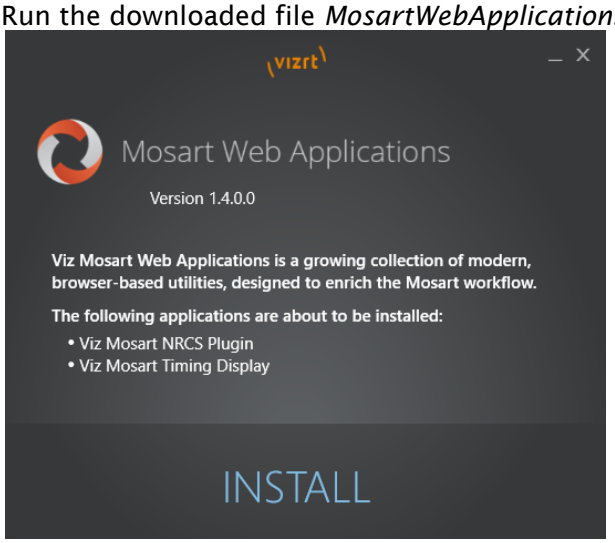
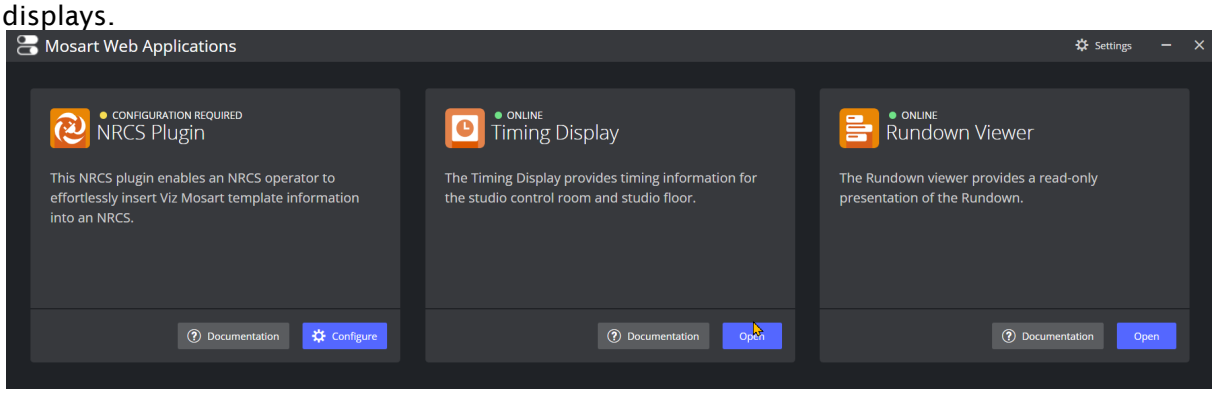
1. Run the downloaded file *MosartWebApplications.Bundle-n.n.n.n.exe*.



The web applications that will be installed are listed.

> **Note**: The Installer places two applications on the local machine
>
> a. Vizrt Mosart Web Applications
> b. Vizrt Mosart Web Applications Configuration Tool

2. Click **Install**.
   Any previously installed versions of the Mosart Web Applications are automatically upgraded.
3. After successful installation, a **Mosart Web Applications Configuration Tool** automatically displays.



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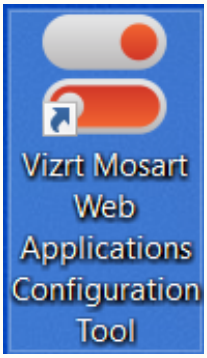
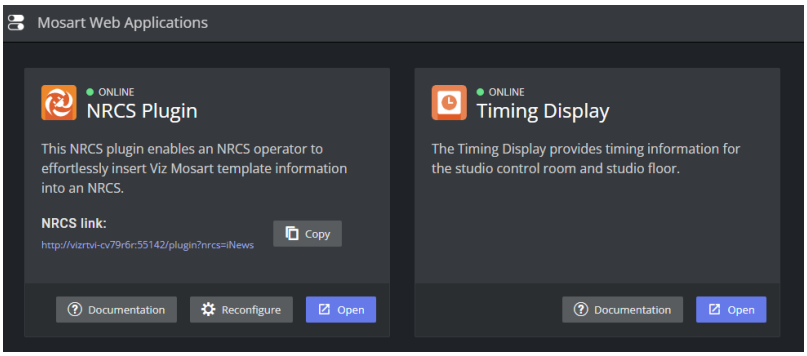
> ⚠ **Note**: A desktop shortcut to **Mosart Web Applications Configuration Tool** is added by default.
>
> 
>

4. Port settings (optional)
   Where security policies restrict ports firewall ports, these are the necessary port numbers for Mosart Web Applications:
   a. **Web Apps REST API**
      HTTP: `55142`.
      HTTPS: `55143`.
   b. **Remote Control Service** (Used by the Timing Display and Rundown Viewer)
      HTTP: `55167`.
      HTTPS: `55168.`

Configuration



A yellow warning icon and text CONFIGURATION REQUIRED alert if further user settings must be entered.

- In the **Timing Display** panel click **Open**.
  A Timing Display with layout editor opens. Here you can create your required timer details, or use the default appearance.

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Additional Server Settings

Web Server Hostname

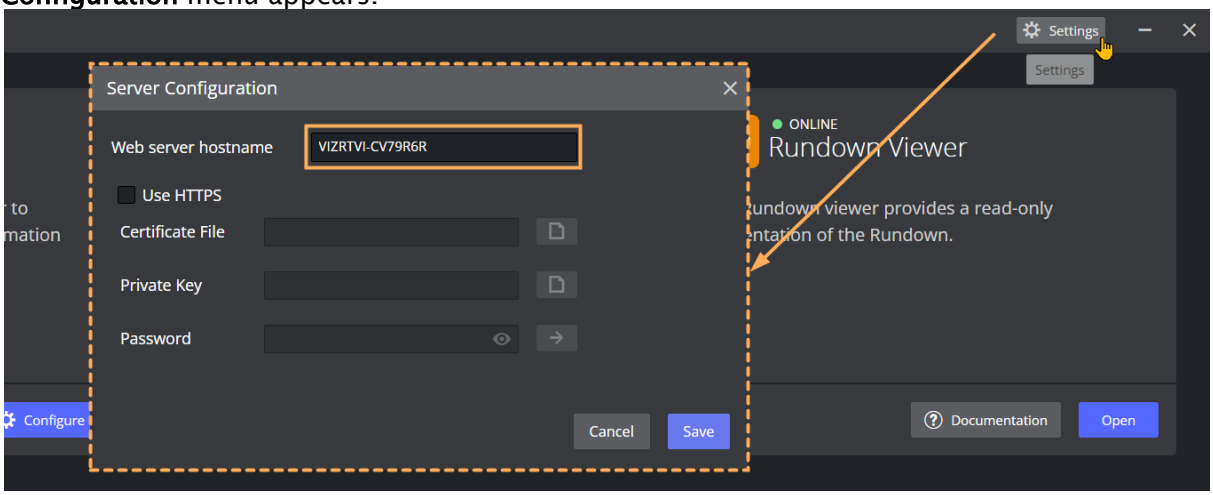
At startup, the Configuration Tool attempts to autodetect the web server hostname and if successful, pre-populates the field.

For some setups, the Configuration Tool's web server pre-populated hostname will differ from the fully qualified domain name (FQDN). For example, the hostname gets automatically pre-populated as *web-apps*, yet the FQDN is *web-apps.example.com*.

To Enable Network Communication with Mosart Web Apps

You can enable other machines on the network to reach Mosart Web Apps.

1. From the Configuration Tool menu bar, click the **Settings** (gear) icon. The **Server Configuration** menu appears.



2. In **Web server hostname**, enter the FQDN.
3. Click **Save**.

Enabling HTTPS

The Web Applications suite optionally supports HTTPS authentication for the applications running under it, with a centralized interface to help with certificate configuration.

> ⚠ **Note**: Depending on the application, some additional configuration may be needed in the connected applications (for example Viz Mosart itself) to enable HTTPS communication.

Step 1 – Activate HTTPS in Mosart Web Applications

1. Launch the Viz Mosart Web Applications Configuration Tool (a desktop shortcut is usually available by default).
2. In the top right corner, select the **Settings** (gear) icon. The **Server Configuration** menu appears.
3. Select **Use HTTPS**.

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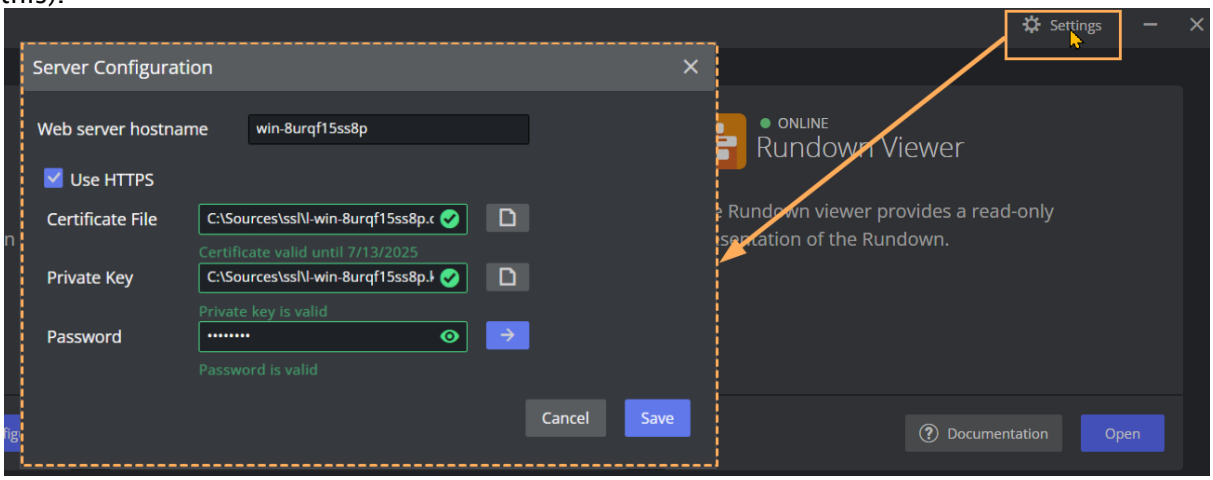
> ⚠ **Note**: This selection turns on HTTPS for the NRCS Plugin, Mosart Timing Display and Rundown Viewer.

4. Provide certificate, key and authentication details (consult with your IT department to obtain this).



5. Click **Save**.

Step 2 – Turn HTTPS on in Mosart Remote Dispatcher Service

1. 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, using the same three values from the **HTTPS Configuration** menu shown above:
   - **SignalRUseHttps**: *true*
   - **SignalRCertificatePath**: *<Certificate File* entered above>
   - **SignalRCertificateKeyPath**: *<Private Key* entered above>
   - **SignalRCertificatePassword**: *<Password* entered above>

```
<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.

6.2.2 Support for Main/Backup Connection

Currently there is no autonomous support at switching.

- A simple workaround is creating two open Timing Display instances and manually switching between them.

6.2.3 Troubleshooting

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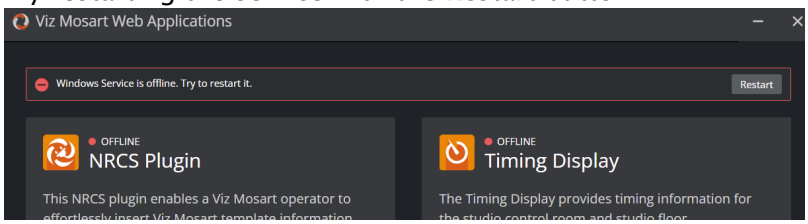
Web Apps Service Reports as Offline

At any time you can start the Mosart Web Applications Configuration Tool and check operating status.

A common error is when a Windows service has failed.

- Try restarting the service with the **Restart** button.



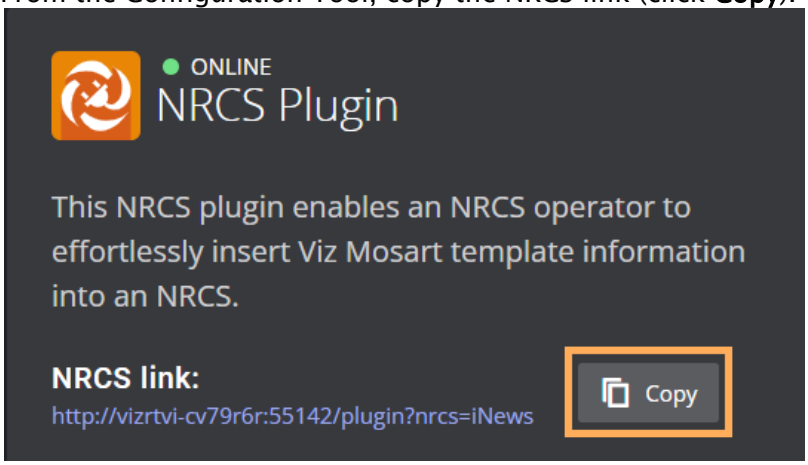
- You can also rewrite any previously entered values with the **Reconfigure** button.

Bypass the Mosart Web Applications Configuration Tool to Access Web Apps

In failure situations, you can use your web browser to communicate with the Mosart Web Apps (instead of the Configuration Tool).

NRCS Plugin

1. From the Configuration Tool, copy the NRCS link (click **Copy**).



   The URL has the form similar to: *http://<your-hostname>:55142/plugin/?nrcs=ENPS&mosid=mosart*
2. Open you web browser and paste the URL in to see the NRCS Plugin.

Rundown Viewer

- Edit the URL to: *http://<your-hostname>:55142/rundown*

Timing Display

- Edit the URL to: *http://<your-hostname>:55142/timingdisplay/editor*

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Firewall Ports

- Refer to the optional Configuration step Port settings (optional).

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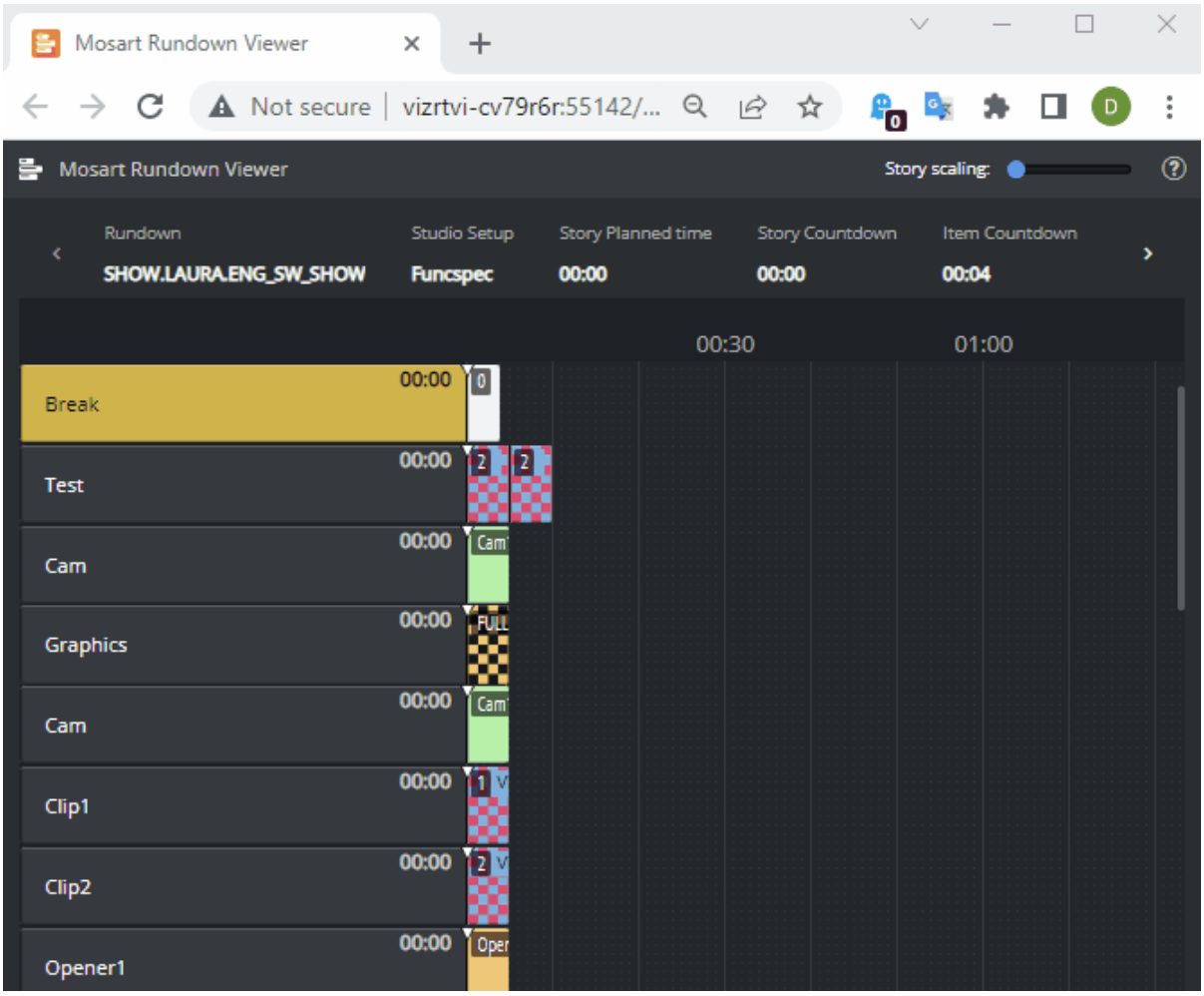
7 Mosart Rundown Viewer

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.

> **Note**: For news-breaking details on the **Mosart Rundown Viewer**, 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 Rundown Viewer
- Setup and Administration

7.1 Working With The Rundown Viewer

- Opening the Rundown Viewer
- Story Scaler
- Go to On Air Story

7.1.1 Key Features

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

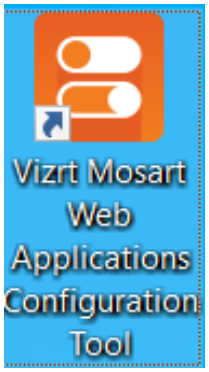
> ⚠ **Note**: To browse a rundown in Rundown Viewer, a standard Viz Mosart setup must first be running with a loaded rundown. See section Setup and Administration.

Opening the Rundown Viewer

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

To open the Mosart Rundown Viewer

1. Start the Mosart Web Applications Configuration Tool.
   This is either a Desktop shortcut



   or accessed from the Windows **Start** menu by typing *Mosart Web Applications*.

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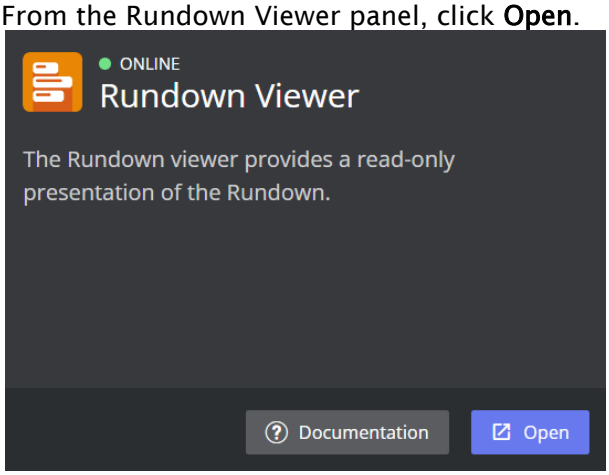
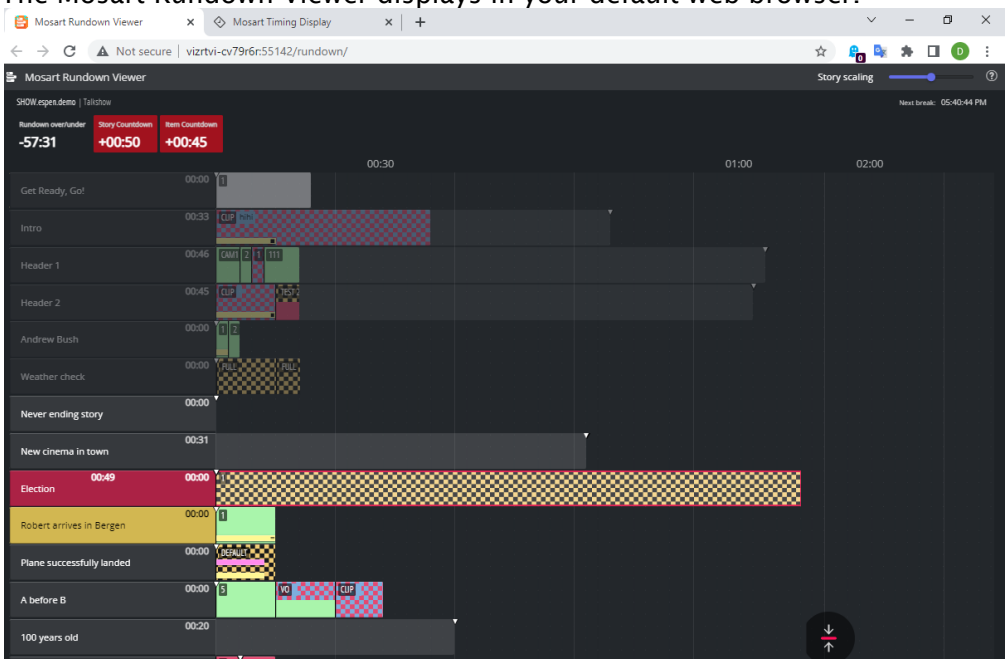
2. From the Rundown Viewer panel, click **Open**.



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



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**.

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.

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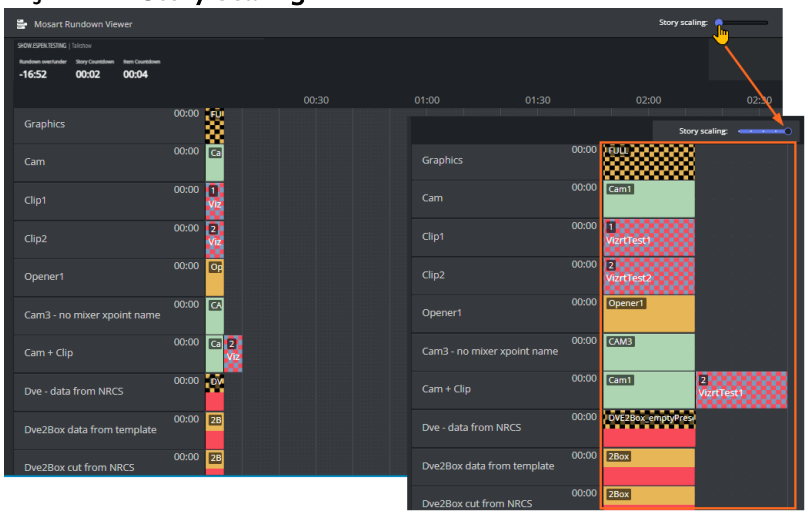
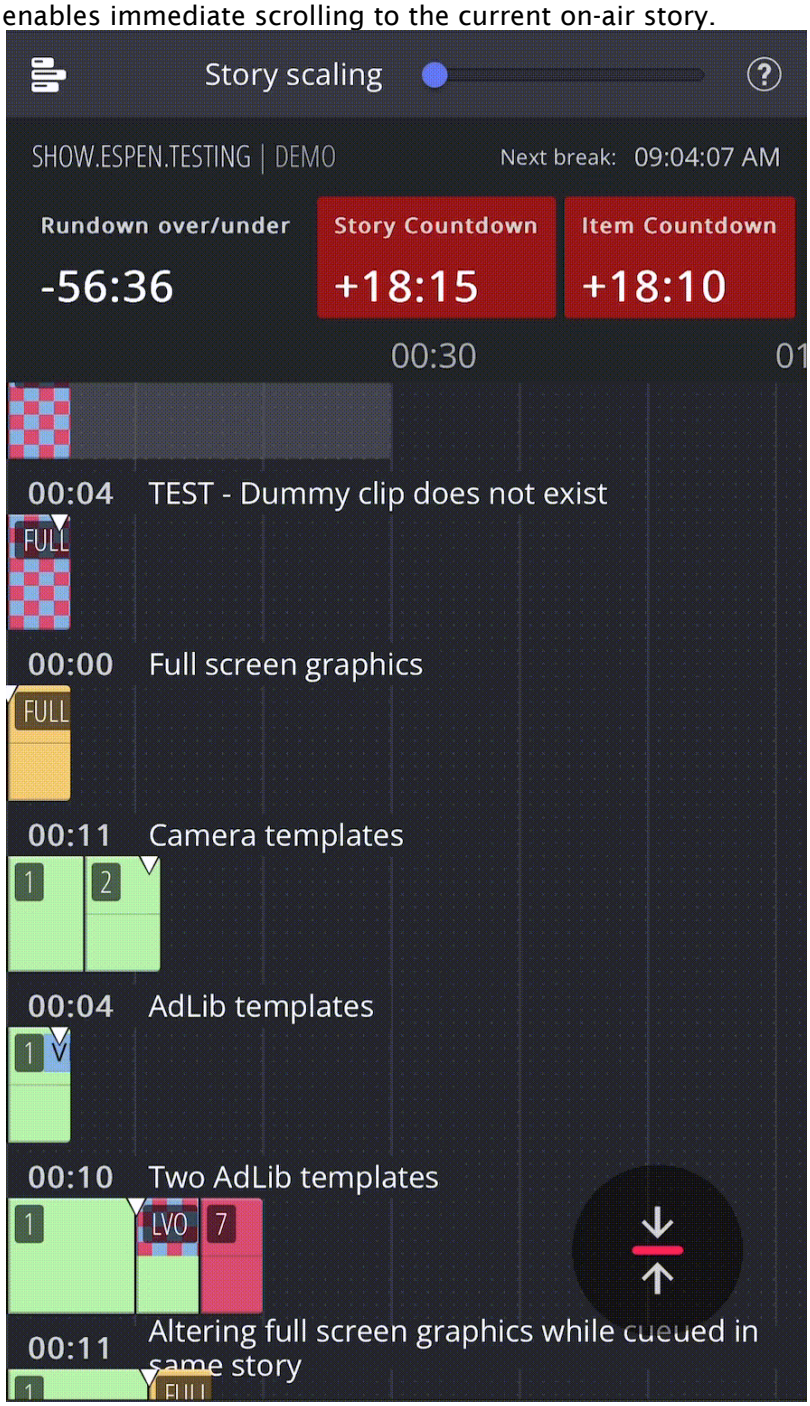
- Adjust the **Story scaling** slider to desired column width.



Go to On Air Story

A navigation button

enables immediate scrolling to the current on-air story.



7.2 Setup And Administration

- Setting up the Rundown Viewer
  - Prerequisites
  - Download
  - Installation
  - Configuration
  - Additional Server Settings
- Troubleshooting
  - Web Apps Service Reports as Offline
  - Bypass the Mosart Web Applications Configuration Tool to Access Web Apps
  - Firewall Ports

7.2.1 Setting up the Rundown Viewer

Prerequisites

- Viz Mosart 5.1.0 or later

Perform all three procedures, **Download**, **Installation** and **Configuration**.

Download

- 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.

Installation

The Mosart Web Applications bundle shall be installed on the Viz Mosart server.

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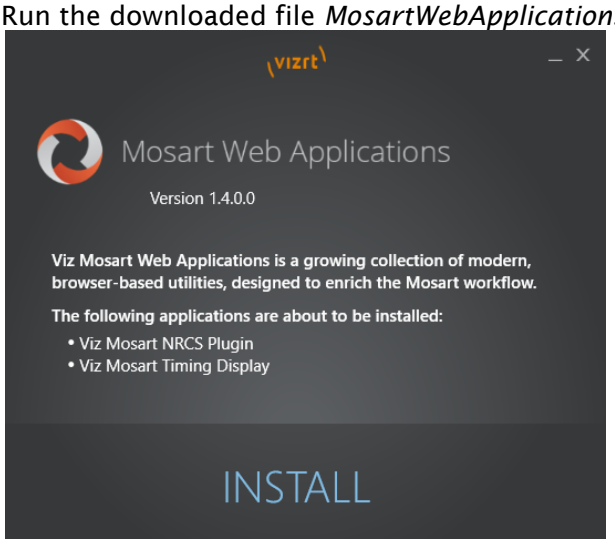
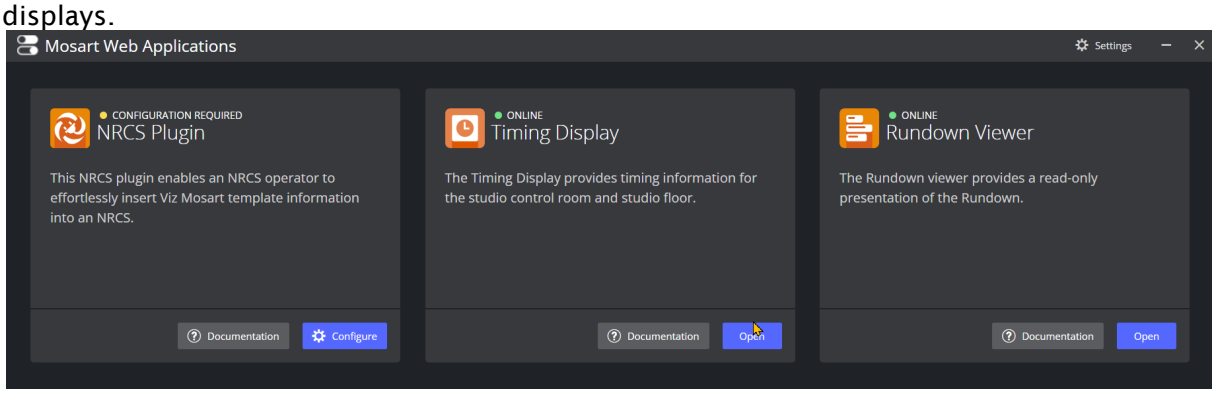
1. Run the downloaded file *MosartWebApplications.Bundle-n.n.n.n.exe*.



The web applications that will be installed are listed.

> **Note**: The Installer places two applications on the local machine
>
> a. Vizrt Mosart Web Applications
> b. Vizrt Mosart Web Applications Configuration Tool

2. Click **Install**.
   Any previously installed versions of the Mosart Web Applications are automatically upgraded.
3. After successful installation, a **Mosart Web Applications Configuration Tool** automatically displays.



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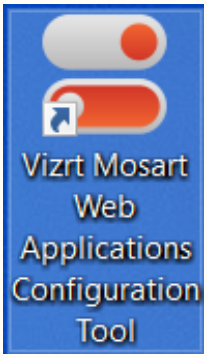
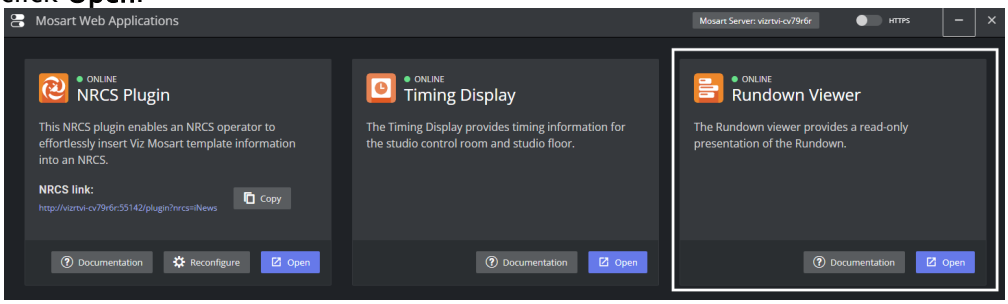
> ⚠ **Note**: A desktop shortcut to **Mosart Web Applications Configuration Tool** is added by default.
>
> 
>

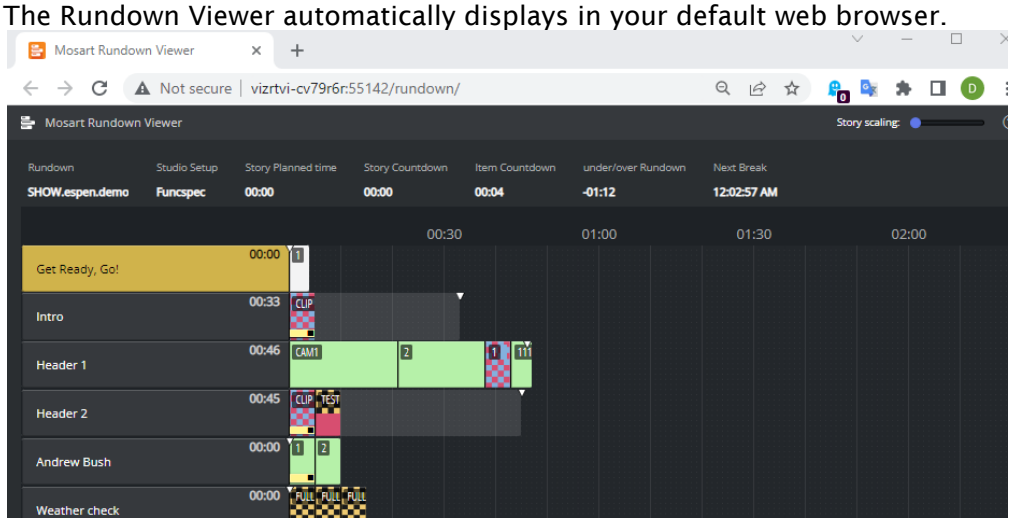
4. Port settings (optional)
   Where security policies restrict ports firewall ports, these are the necessary port numbers for Mosart Web Applications:
   a. **Web Apps REST API**
      HTTP: `55142`.
      HTTPS: `55143`.
   b. **Remote Control Service** (Used by the Timing Display and Rundown Viewer)
      HTTP: `55167`.
      HTTPS: `55168.`

Configuration

1. Ensure that your Viz Mosart system is operating under normal working conditions.
   As a minimum,
   a. ManusAdmin must be running.
   b. The Viz Mosart UI is running, displaying a rundown.
2. From the Viz Mosart Web Applications Configuration Tool, in the **Rundown Viewer** panel, click **Open**.



The Rundown Viewer automatically displays in your default web browser.



Additional Server Settings

Web Server Hostname

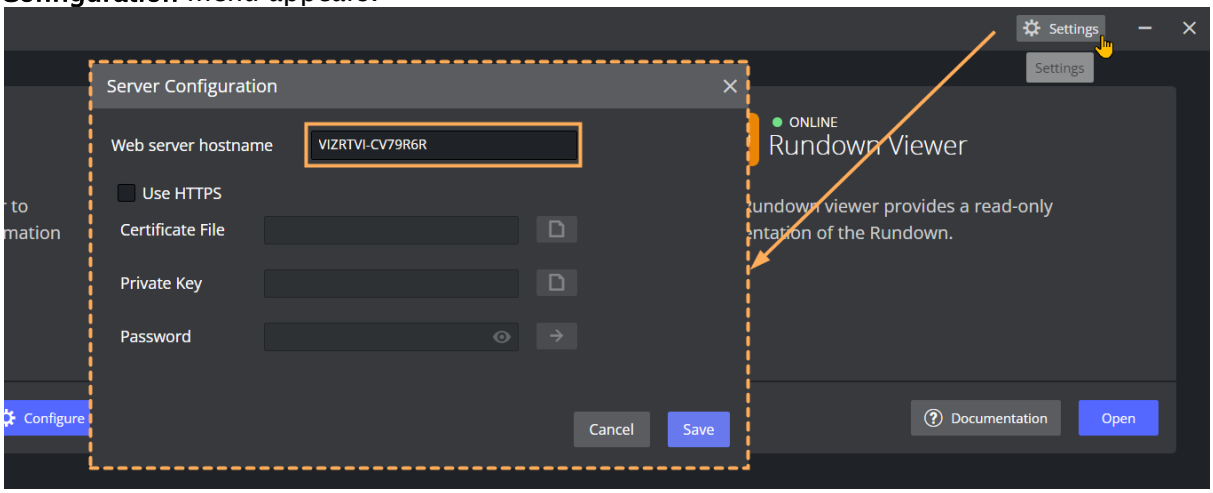
At startup, the Configuration Tool attempts to autodetect the web server hostname and if successful, pre-populates the field.

For some setups, the Configuration Tool's web server pre-populated hostname will differ from the fully qualified domain name (FQDN). For example, the hostname gets automatically pre-populated as *web-apps*, yet the FQDN is *web-apps.example.com*.

To Enable Network Communication with Mosart Web Apps

You can enable other machines on the network to reach Mosart Web Apps.

1. From the Configuration Tool menu bar, click the **Settings** (gear) icon. The **Server Configuration** menu appears.



2. In **Web server hostname**, enter the FQDN.
3. Click **Save**.

Enabling HTTPS

The Web Applications suite optionally supports HTTPS authentication for the applications running under it, with a centralized interface to help with certificate configuration.

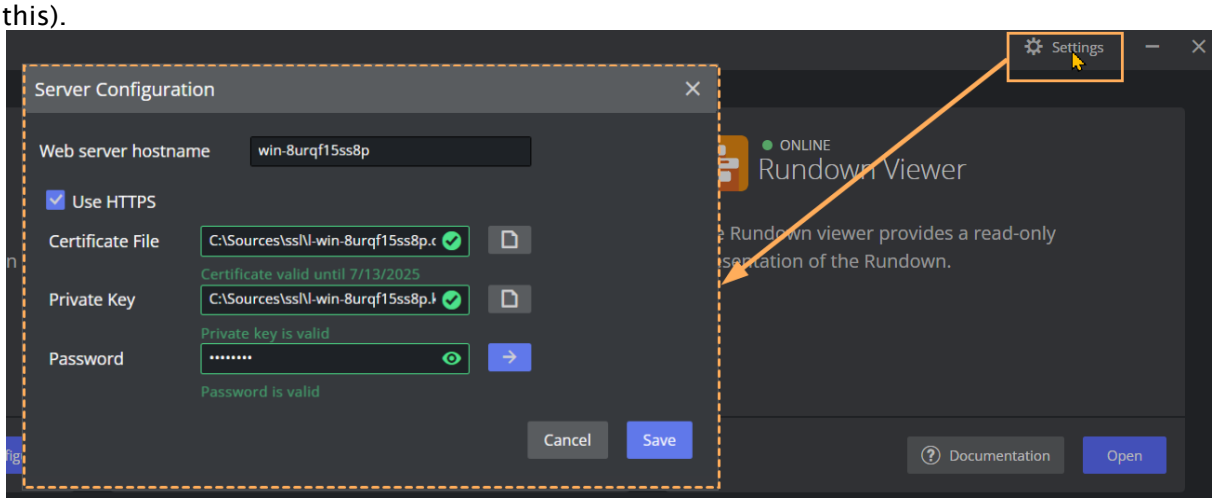
> ⚠ **Note**: Depending on the application, some additional configuration may be needed in the connected applications (for example Viz Mosart itself) to enable HTTPS communication.

Step 1 – Activate HTTPS in Mosart Web Applications

1. Launch the Viz Mosart Web Applications Configuration Tool (a desktop shortcut is usually available by default).
2. In the top right corner, select the **Settings** (gear) icon. The **Server Configuration** menu appears.
3. Select **Use HTTPS**.

   > ⚠ **Note**: This selection turns on HTTPS for the NRCS Plugin, Mosart Timing Display and Rundown Viewer.

4. Provide certificate, key and authentication details (consult with your IT department to obtain this).



5. Click **Save**.

Step 2 – Turn HTTPS on in Mosart Remote Dispatcher Service

1. 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, using the same three values from the **HTTPS Configuration** menu shown above:
   - **SignalRUseHttps**: *true*
   - **SignalRCertificatePath**: *<Certificate File* entered above*>*
   - **SignalRCertificateKeyPath**: *<Private Key* entered above*>*

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- **SignalRCertificatePassword**: *<Password* entered above>

```
<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.

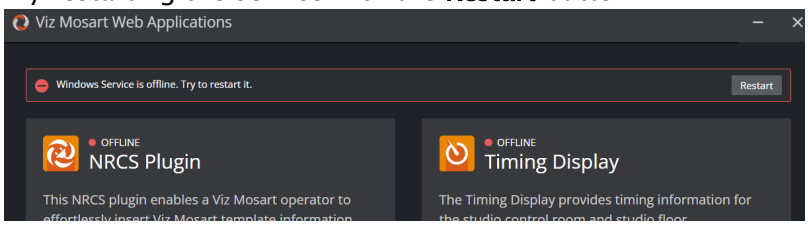
7.2.2 Troubleshooting

Web Apps Service Reports as Offline

At any time you can start the Mosart Web Applications Configuration Tool and check operating status.

A common error is when a Windows service has failed.

- Try restarting the service with the **Restart** button.



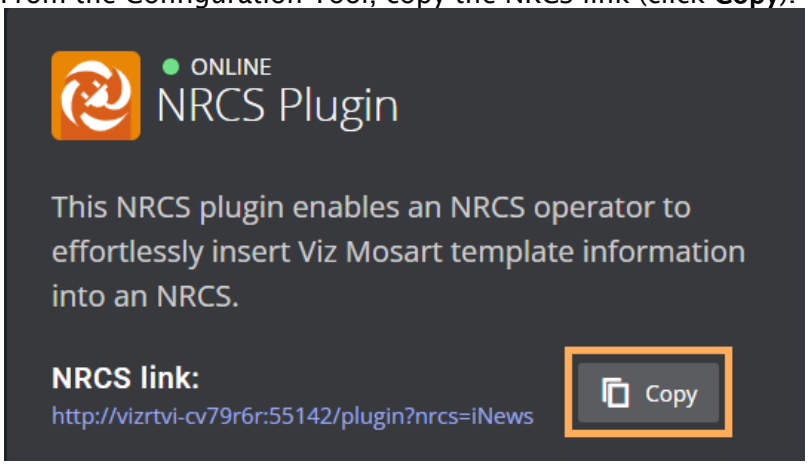
- You can also rewrite any previously entered values with the **Reconfigure** button.

Bypass the Mosart Web Applications Configuration Tool to Access Web Apps

In failure situations, you can use your web browser to communicate with the Mosart Web Apps (instead of the Configuration Tool).

NRCS Plugin

1. From the Configuration Tool, copy the NRCS link (click **Copy**).



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The URL has the form similar to: *http://<your-hostname>:55142/plugin/?nrcs=ENPS&mosid=mosart*

2. Open you web browser and paste the URL in to see the NRCS Plugin.

Rundown Viewer

- Edit the URL to: *http://<your-hostname>:55142/rundown*

Timing Display

- Edit the URL to: *http://<your-hostname>:55142/timingdisplay/editor*

Firewall Ports

- Refer to the optional Configuration step Port settings (optional).

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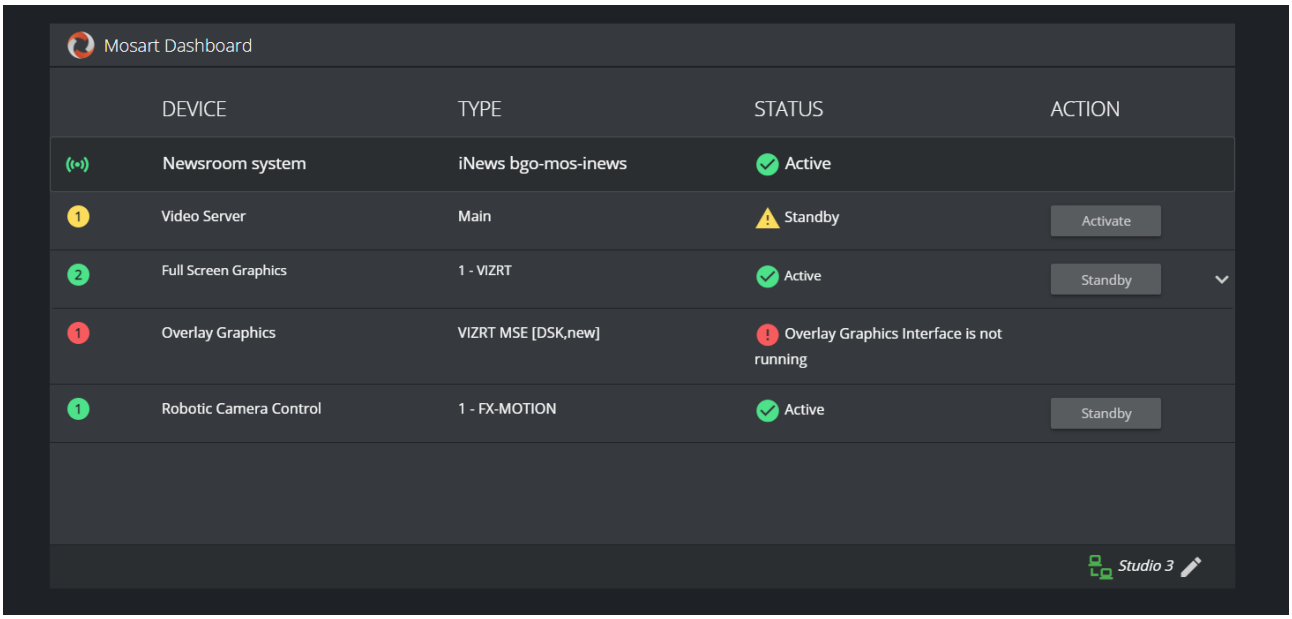
8 Mosart Dashboard

8.1 Mosart Dashboard

This Mosart Dashboard provides essential control room information, eliminating the need of displaying any Mosart Server applications.

> **Note:** This *1.0 version has minimal functionality and is provided as unsupported beta software*. Future versions, with additional functionality, will be supported.



- Working with the Dashboard
- Setup and Administration

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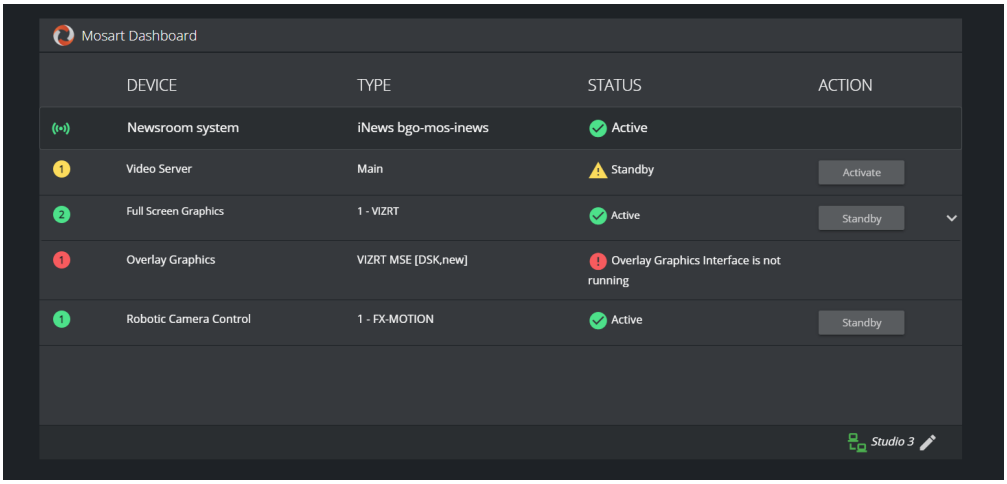
8.2 Working With The Dashboard

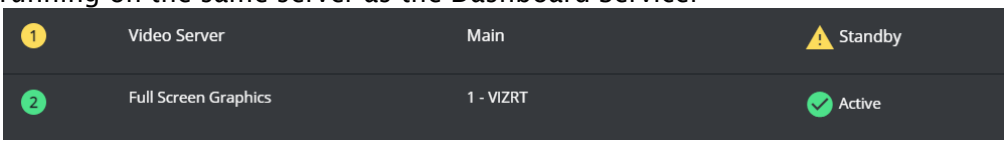


8.2.1 Key Features

- Device Status
- Connection Status
- Toggle Standby Mode
- Server Status
- Monitor a Different Mosart Server

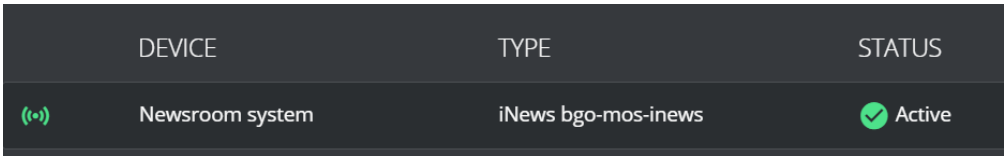
Device Status

The Dashboard reflects current **status** of the **devices** configured on the Mosart server that are running on the same server as the Dashboard Service:



Connection Status

The Dashboard reflects the connection status of the **NCS connection**:



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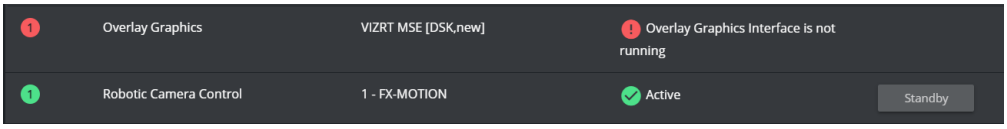
Toggle Standby Mode

You can set a device into or out of Standby with the **Standby** and **Activate** buttons:

Server Status

If a Mosart Server *application* ceases to function, you are warned in the **Status** section of the Dashboard:



Monitor a Different Mosart Server

You can *change the Mosart Server* you are monitoring. See section *Monitor a Different Mosart Server* in Setup and Administration.

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8.3 Setup And Administration

The Dashboard has two parts:

- the Dashboard backend
- the Dashboard frontend.

Both are Windows Services and may reside on the same or on different computers.

The *frontend* serves the Dashboard UI, accessible from multiple computers/browsers. They are separate Dashboard UI instances and can connect to the same or different backends.

The *backend* must be installed on the computer where the Viz Mosart Server you want to monitor is installed.

The Dashboard *UI* refers to the web page that appears when requested from the Dashboard frontend service.

- Prerequisites
- Installation
- Configuration

8.3.1 Prerequisites

- *ASP.NET Core Hosting Bundle* on the machines that you install the services on
- Viz Mosart 4.1.0 or later
- Uninstalling of any earlier Mosart Dashboard service versions
- Latest version of Google Chrome

8.3.2 Installation

1. From the Vizrt customer FTP (https://download.vizrt.com/), download the directory // products/VizMosart/Latest Version/VizMosart-n.n.n/WebApplications/**MosartDashboard-n.n.n**
2. Install the Dashboard backend (*MosartDashboardService-1.0.0.0.msi)* service on the same machine as the Mosart server installation you wish to monitor.

   ⚠ You can only monitor one Viz Mosart server per Dashboard.
   However, if there are *several* Mosart servers that you are interested in potentially monitoring, (for example either a *main* or *backup* in a redundancy setup), install the Dashboard backend service on each additional machine.
   See Monitor a Different Mosart Server below.
3. If the Dashboard UI will reside on a *different machine to the the backend server* specified in step (**2**) above, open port **55143** (in Firewall preferences).
   You can skip this step, if the Dashboard UI is displayed on the same machine as the Dashboard backend.
4. Install the Dashboard frontend (*MosartDashboardUIService-1.0.0.0.msi)* service on any machine.

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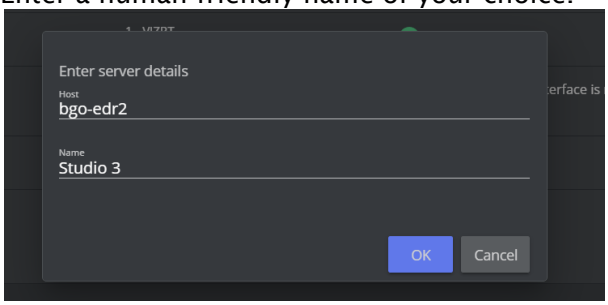
8.3.3 Configuration

1. On the machine you want to display the Dashboard, access http://HOST:8000/ in you browser.
   HOST is the computer name/IP address of the computer where you installed the frontend service, at Installation step (4) above.
2. At initial startup, the UI will prompt you for:
   a. The **host** of the backend service.
      Enter the host name of the machine from Installation step (2) above.
   b. A **name** for this server.
      Enter a human-friendly name of your choice.

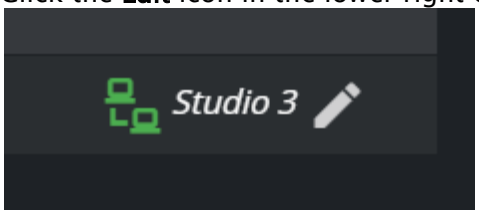


Monitor a Different Mosart Server

You can change the Mosart Server that is monitored (the Dashboard backend service, as specified in step (2) above, needs to be running on the target computer).

To select the monitored server

1. Click the **Edit** icon in the lower right corner.



2. Enter the new server details, as described in Configuration step (2) above.

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