



Mosart NRCS Plugin Guide

Version 1.4



Mosart Web Applications



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Created on

2022/08/05

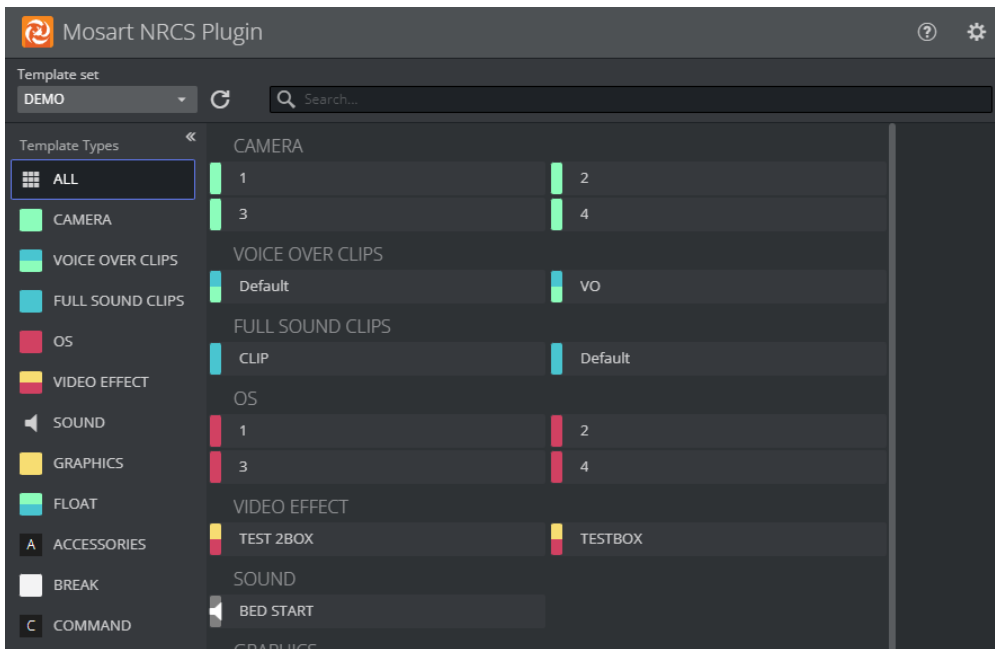
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The NRCS plugin is an effective drag and drop tool for reliably adding Viz Mosart template instructions to an NRCS story.

- [Working with the NRCS Plugin](#)
- [Setup and Administration](#)
- [Integrating with an NRCS](#)

✔ **Tip:** This document contains *animated graphics*. If you are viewing as PDF, we recommend the [web version](#).



1 Working With The NRCS Plugin

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

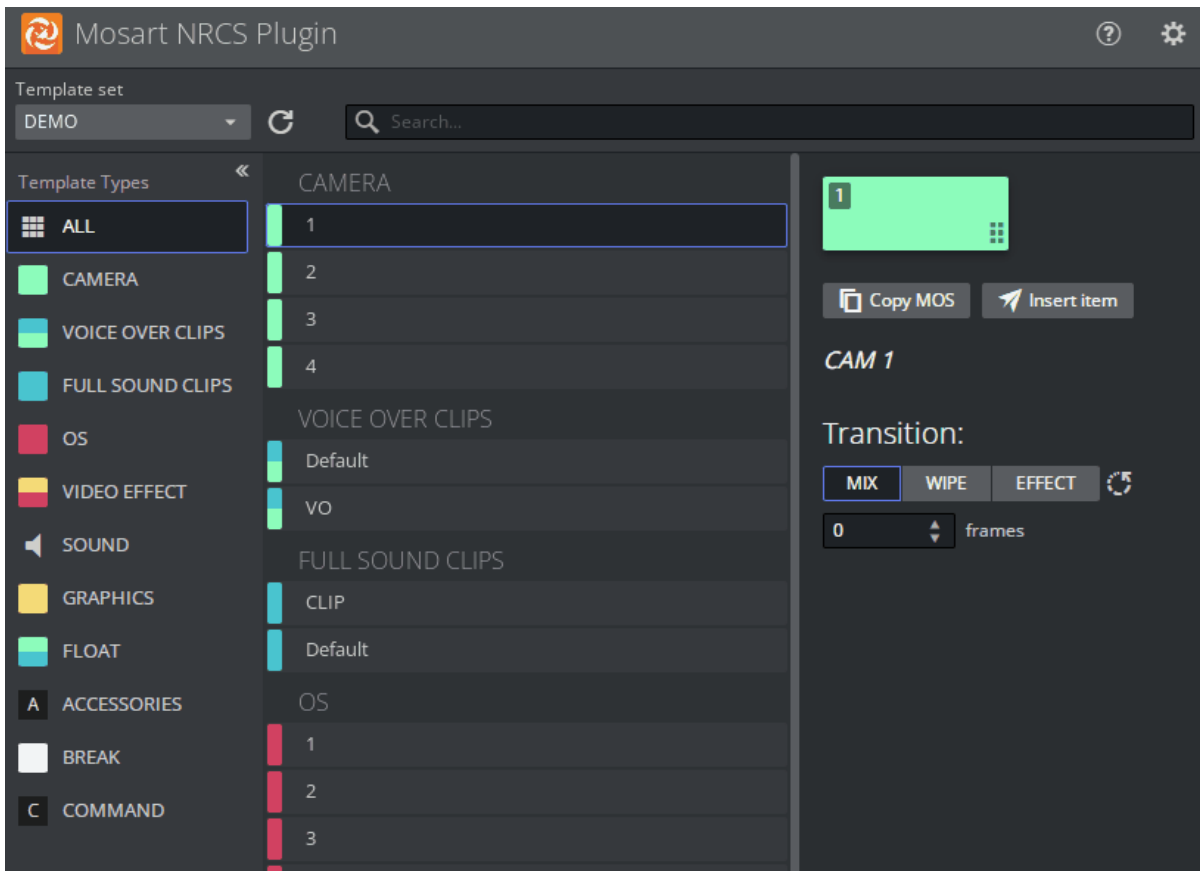
- [User Operations](#)
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 - [API Documentation](#)
-

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](#)

1.1.1 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.



1.1.2 Modifying a Template

To modify production characteristics

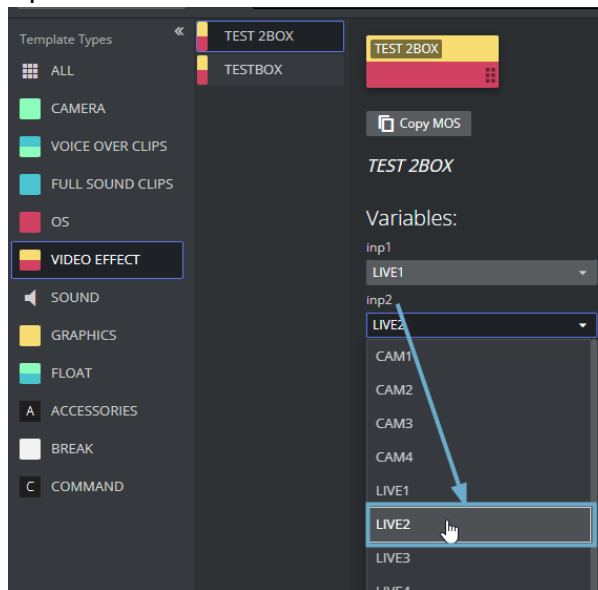
Variables

- 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.

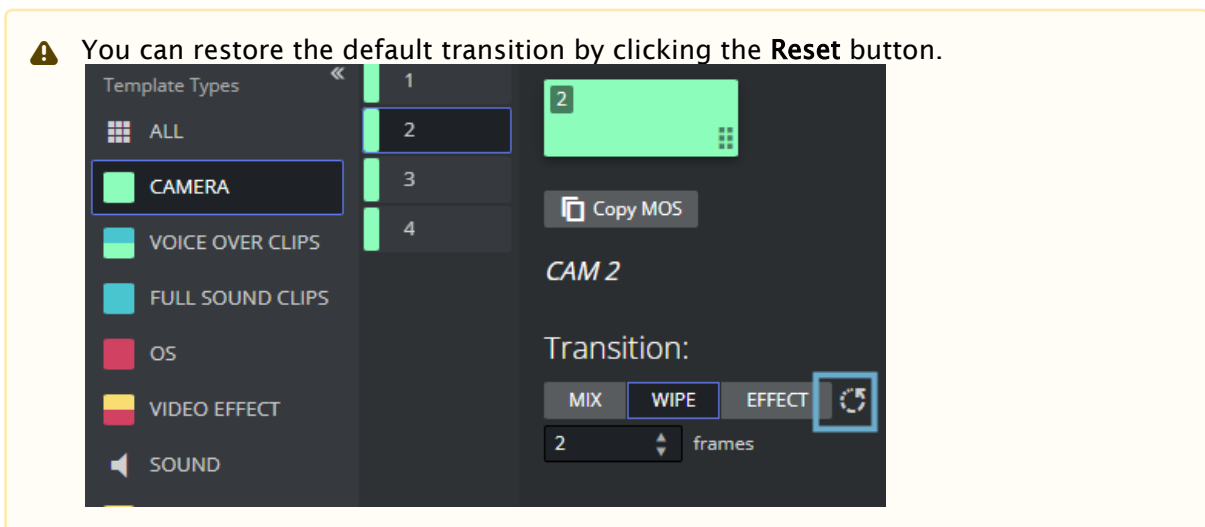
- You can temporarily override any defaults, and add new variables. For example, in a *Video Effects* template, you may wish to change the source of the second

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).



1.1.3 Adding Template Details to the NRCS

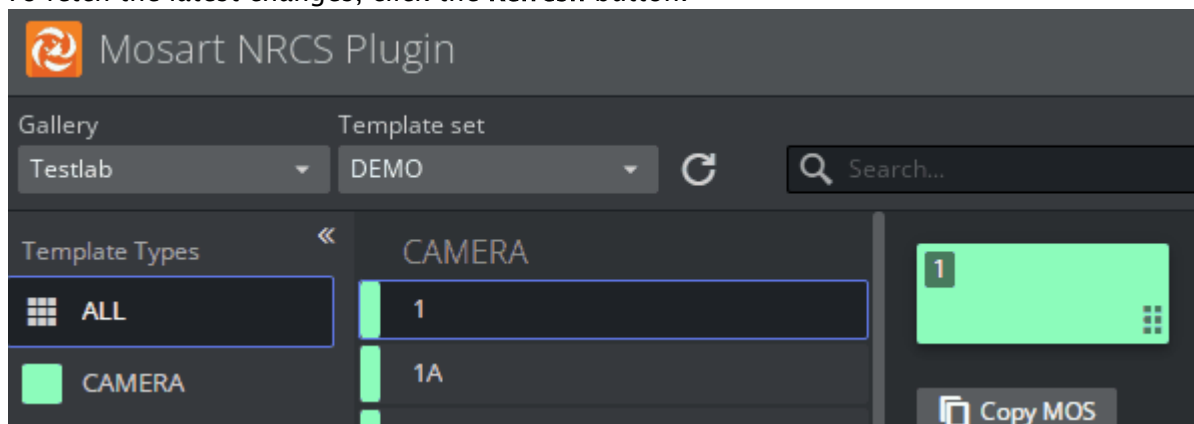
- Drag and drop the template into the required location of the story slug.

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 Viz Mosart NRCS Plugin.

1.1.4 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.

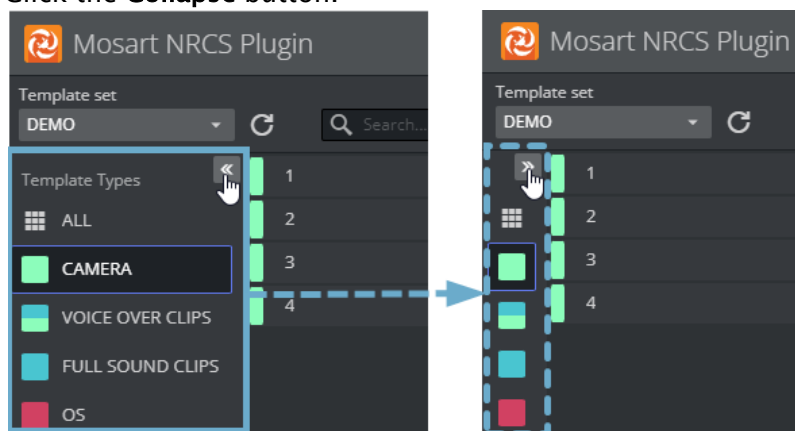


1.1.5 Optimizing Your NRCS Plugin Workspace

Collapsing the Type listing

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

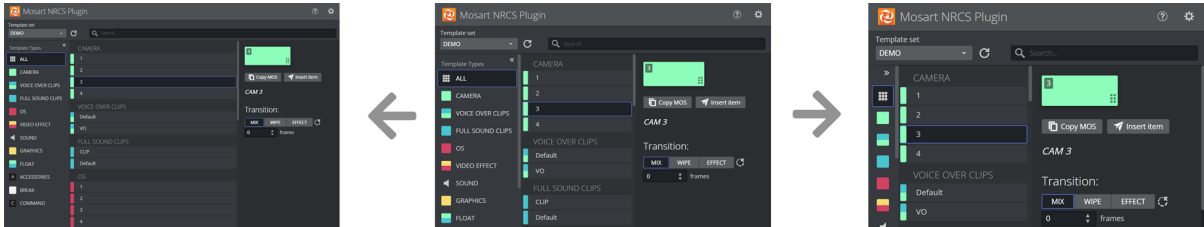
- Click the **Collapse** button.



Scaling the View

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

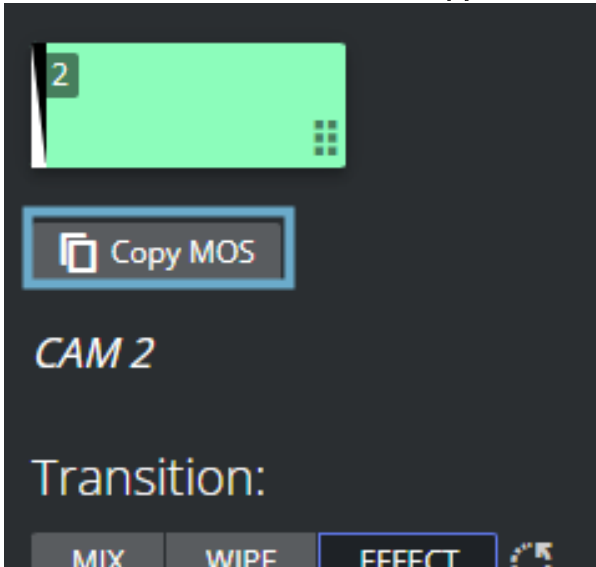
- For most browsers, you can use the shortcut **Ctrl+mouse wheel**.



1.1.6 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**.

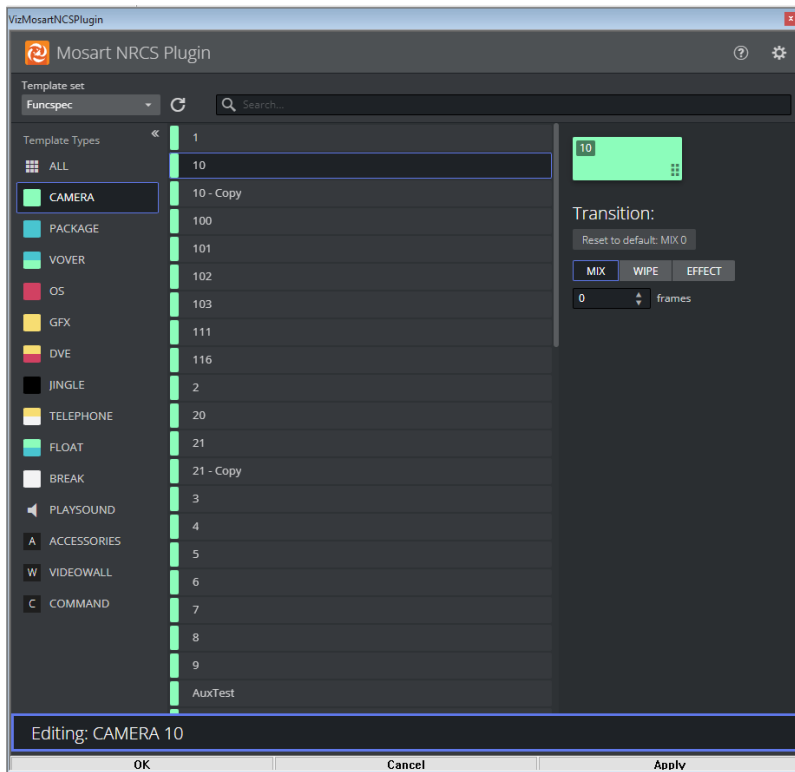


1.1.7 Modifying Existing MOS Objects

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

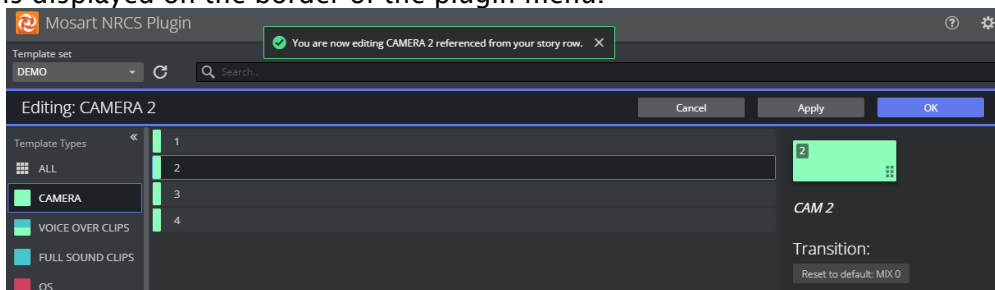
To modify an existing MOS object

- On the selected rundown story, double-click the slug or grommet that holds the story's MOS object.
- The corresponding Viz Mosart template, complete with any control details like *newstags*, *crosspoints*, *transition*, *timings*, is displayed in the Viz Mosart NRCS Plugin.



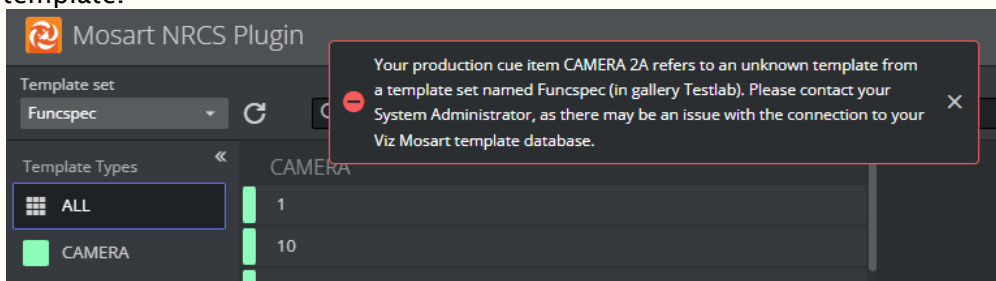
You make modifications direct in the plugin window.

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**.

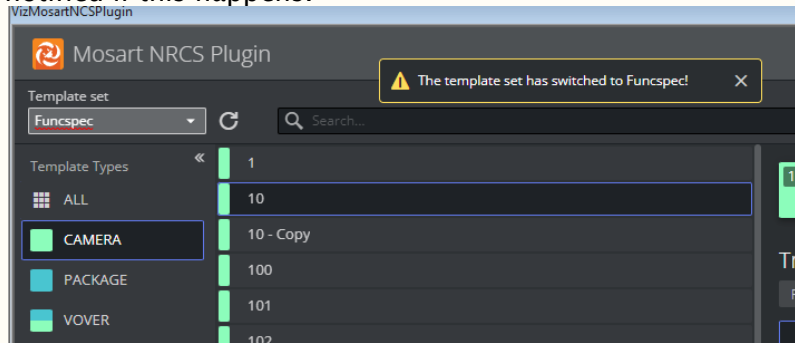
Note: You cannot modify a MOS object that refers to a not-found Viz Mosart template.



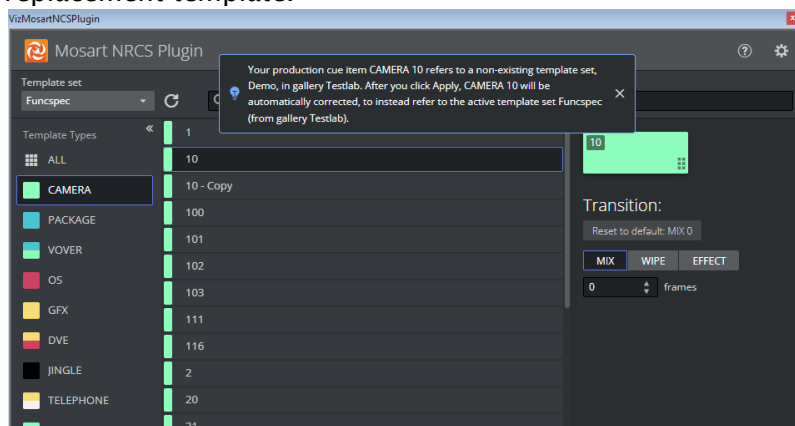
Modifying MOS objects created with the Viz Mosart NRCS Plugin

- MOS objects created by the Viz 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.

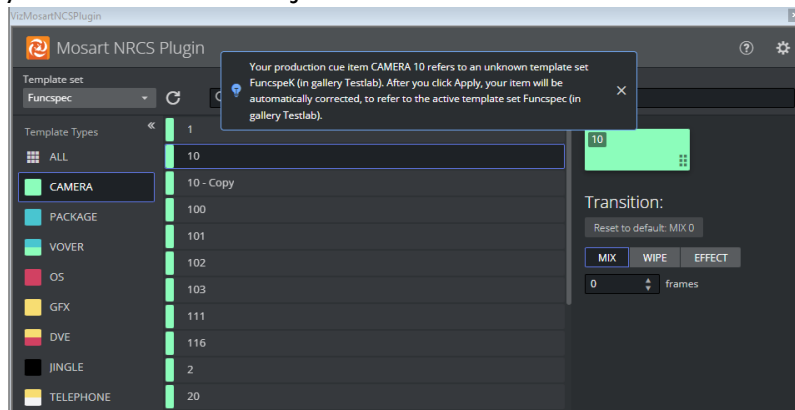


- If your rundown item refer to a template set that cannot be found in the gallery, the Viz Mosart NRCS plugin checks the active gallery and template set for a corresponding template. This valid reference is then applied to the MOS object, when you click **Apply** on the replacement template.



- 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.



Editing 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.

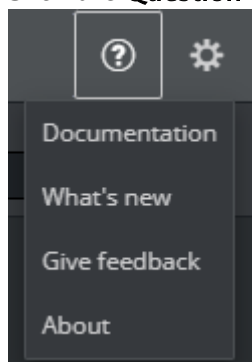
- In the plugin, ensure to select correct gallery and template set before you start editing.

1.2 Getting Help

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

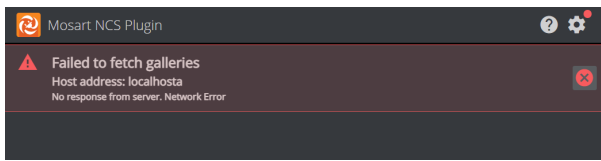
You can also send your feedback directly to the Mosart NRCS Plugin design team.

- Click the **Question mark** icon at the top right:



1.3 Error Handling

While navigating through templates, if there are exceptional conditions, the Viz Mosart NRCS Plugin displays an error message. See the example below:



Please contact Vizrt Support if you encounter any error messages.

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.

1.4.1 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>.

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](#)
 - [Enabling HTTPS](#)
 - [Verifying the Installation](#)
- [Troubleshooting](#)

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

2.1 Setting Up The NRCS Plugin

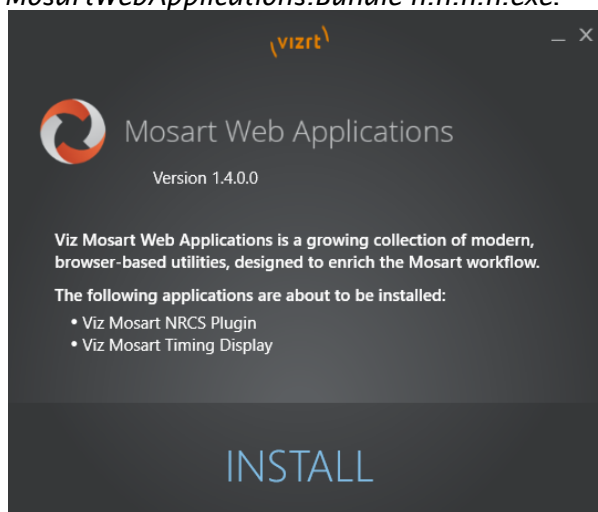
Perform all three procedures, **Download**, **Installation** and **Configuration**. These three procedures are all performed on your viz Mosart Server machine.

2.1.1 Download

- Collect the latest software bundle from <https://download.vizrt.com/products/VizMosart/Latest Version/WebComponents/>.

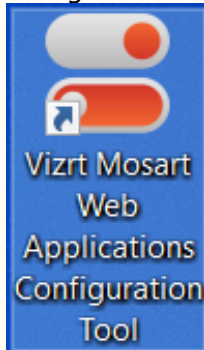
2.1.2 Installation

1. Install the NRCS Plugin by running the Mosart Web Applications installer *MosartWebApplications.Bundle-n.n.n.n.exe*.



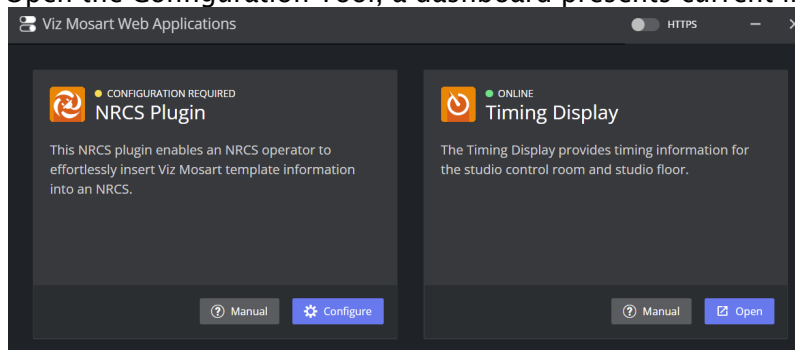
- The web applications that will be installed are listed.
Click **Install**.
Any previous versions of the bundled Mosart Web Applications are automatically deleted from the local machine.
- After successful installation, the **Mosart Web Applications Configuration Tool** automatically displays.

Note: After successful installation, a desktop shortcut provides access to a configuration assistant.

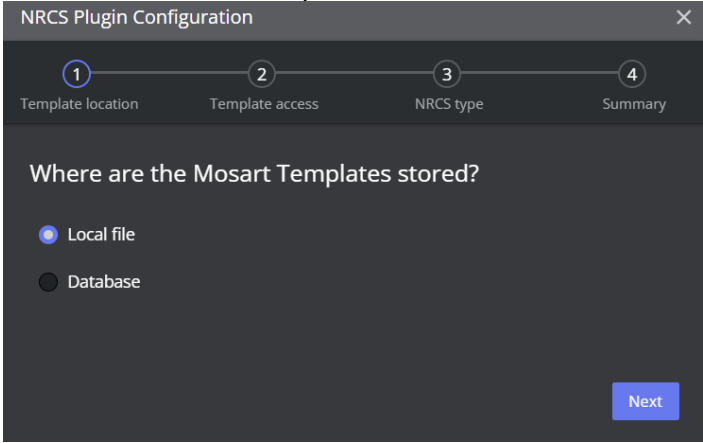
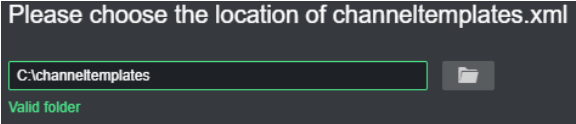


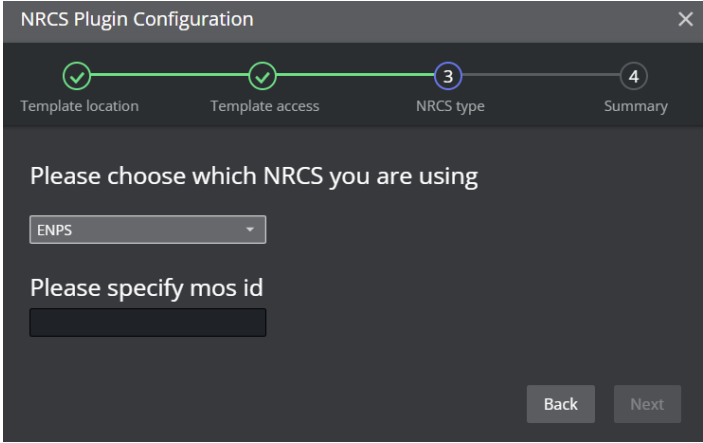
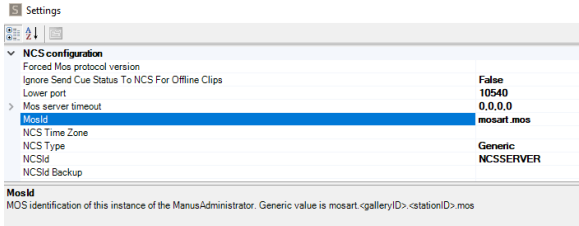
2.1.3 Configuration

- Open the Configuration Tool, a dashboard presents current installations and their status.

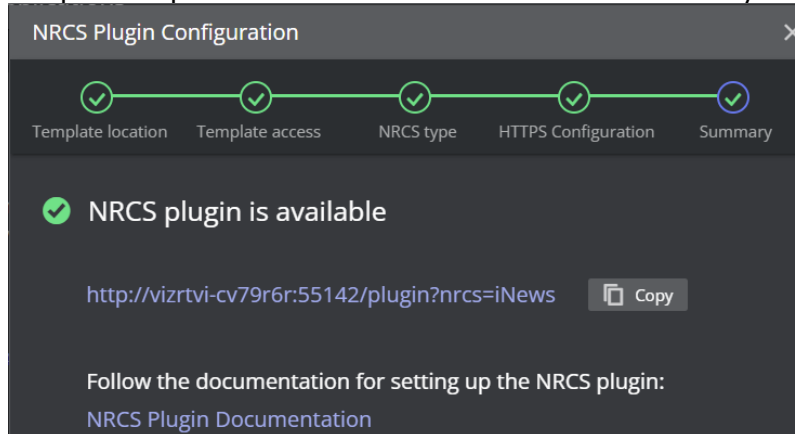


- If the warning **CONFIGURATION REQUIRED** appears in the **NRCS Plugin** panel, click **Configure**. Follow the guidelines below:

Step	Description
(1) Template location	<p>Select whether your Viz Mosart templates are defined in a local file or on a separate database.</p> 
(2) Template access	<p>Local: Usually C:\channeltemplates\ A check is made for existence at the stated destination, for all three files:</p> <ul style="list-style-type: none"> · channeltemplates.xml · avconfig.xml · newsroomsettings.xml <p>If all are found, a confirmation text <i>Valid folder</i> is displayed. Click Next.</p>  <p>Database: URL (Host + DB name) and DB access credentials</p>

Step	Description
<p>(3) NRCS type</p>	<p>Select the NRCS system you are using. Supported systems are <i>ENPS</i>, <i>iNEWS</i>, <i>Octopus</i>. Any NRCS that can handle html plugins <i>should</i> work (select <i>Other</i>), but the above 3 are supported.</p>  <ul style="list-style-type: none"> · mos id <p>Mandatory field if you select NRCS type <i>ENPS</i>, <i>Octopus</i> or <i>Other</i>. (not used in <i>iNews</i>).</p> <p>To find yourMos ID</p> <ol style="list-style-type: none"> a. In the Manus Administrator console, type <i>SETTINGS</i>. b. From the configuration panel that opens, look for MosId. c. The value is defined in the column to the right (in this example <i>mosart.mos</i>)  <p>For more details, see the Viz Mosart Administrator Guide, section Manus Administrator > Settings Editor MOS > NRCS Configuration.</p>

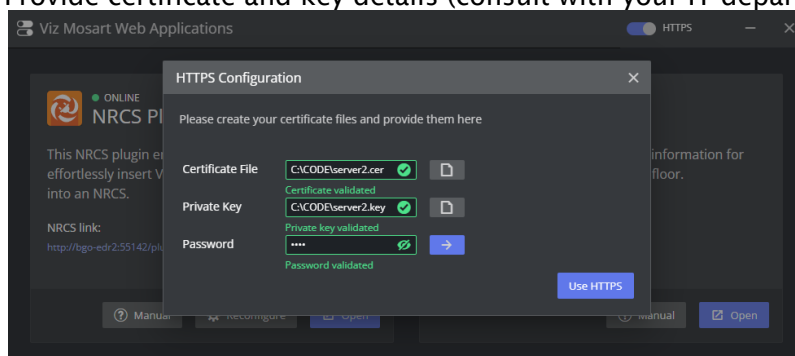
- Setup is complete and a confirmation menu summarizes your details.



2.1.4 Enabling HTTPS

Step 1 – Turn HTTPS on in Mosart Web Applications

- Launch the Viz Mosart Web Applications Configuration Tool (a desktop shortcut is presented by default).
- In the top right corner, switch on the HTTPS switch.
- Provide certificate and key details (consult with your IT department to obtain this).



Note: This selection also turn on HTTPS for the Mosart Timing Display Guide.

Step 2 – Turn HTTPS on in Mosart Remote Dispatcher Service

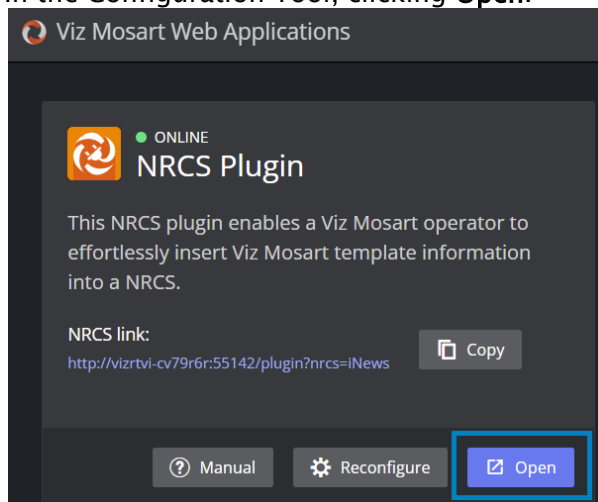
- Copy the file C:\Program Files (x86)\Mosart Medialab\Mosart Server\ConfigurationFiles\RemoteDispatcherServiceConfig.xml to C:\ChannelTemplates.
- Fill in the following fields:
 - **SignalRUseHttps:** `true`
 - **SignalRCertificatePath:** `<path_to_the_server.crt_created_above>`
 - **SignalRCertificateKeyPath:** `<path_to_the_server.key_created_above>`
 - **SignalRCertificatePassword:** `<the_passphrase_used_above>`

3. Restart the Remote Panel service

```
<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" />
```

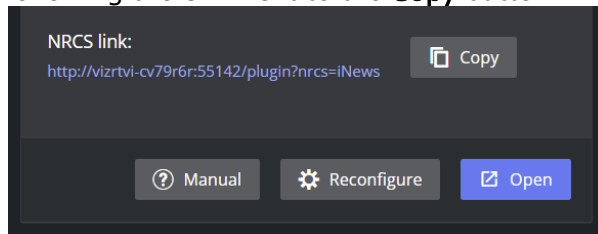
2.1.5 Verifying the Installation

1. After entering *NRCS type*, 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?nracs={type}&mosid={mosid}*

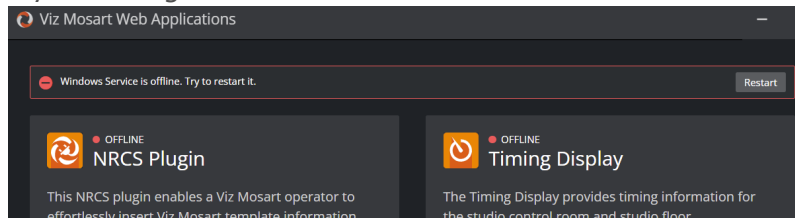
3. To complete the integration, configure the NRCS side, according to the appropriate NRCS as described in section [Integrating with an NRCS](#), where you will use the copied URL.

2.2 Troubleshooting

At any time you can start the Viz 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**.



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

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 Viz Mosart NRCS Plugin has been successfully installed and set up, as described in section [Setup and Administration](#).

3.1 NRCS Integration

The NRCS Plugin supports connections to

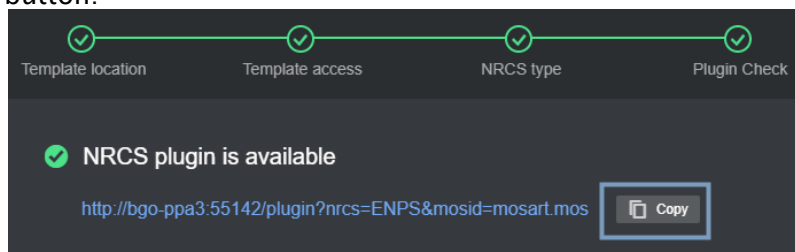
- [ENPS](#)
- [iNEWS](#)
- [Octopus](#).

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.)

3.1.1 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**.

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

MOS Configuration									
Address *	Description *	IP	ActiveX	Program	Default Settings	MOS Version	Local DragDrop	Mod	
Click here to add a new row									
MOS.ID	MOSART NRCS Plugin	HOST PC IP	ENPSHTMLHost	SYSTEM	URL=http://VIZRTV1-7VLUOD1:55142/plugin?nracs=ENPS&mosid=Mosart.s2mos	2.8.4	On		

- ⚠ 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?nracs=ENPS&mosid=xxxx.*
- If you need to derive current *Mosid* value, see the item [To find your Mos ID](#).

3.1.2 iNEWS

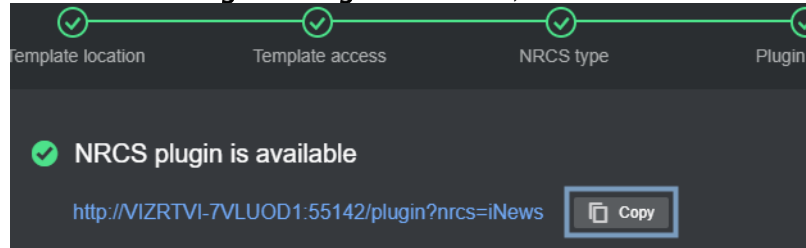
There are two possible setup routes, depending on whether your iNEWS version supports HTML5 plugins. Please consult the documentation of your iNEWS system to determine whether this is the case.

- [iNEWS Clients with HTML5 Support](#)
- [iNEWS Clients without HTML5 Support](#)

iNEWS Clients with HTML5 Support

- 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 the 1 to 6 with one clarification:
 - Step 3: (name of the new queue): Use the name *HTML-PLUGINS*, as recommended by Avid.
- 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,
 - Enter 'URL = '.
 - At that exact spot, paste the URL copied from the Configuration tool (if the Configuration Tool is not already running, select **Windows Start > Viz**

Mosart NRCS Plugin Configuration Tool



iii. Finally, append

```
mosItemBrowserProgID = Mosart.ActiveX
mosItemEditorProgID = Mosart.ActiveX
```

For example:

```
URL = http://BGO-EDR2:55142/plugin?nracs=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.

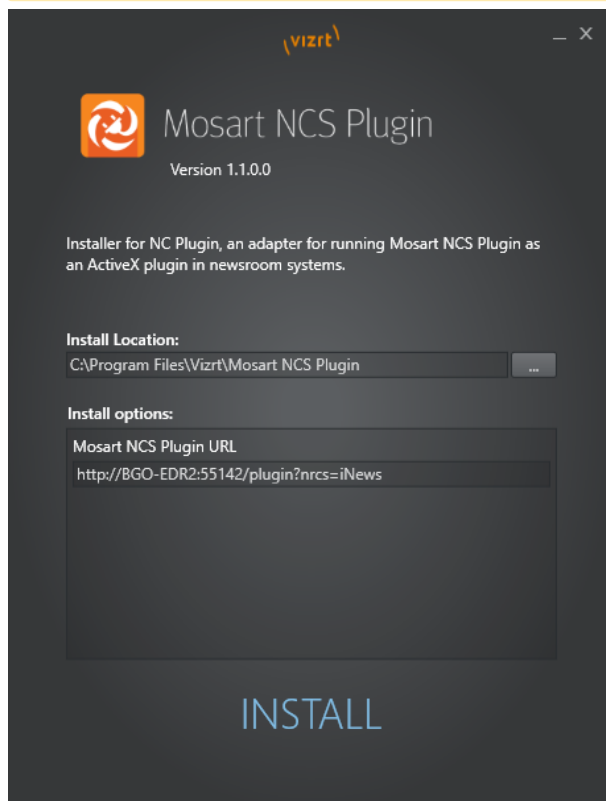
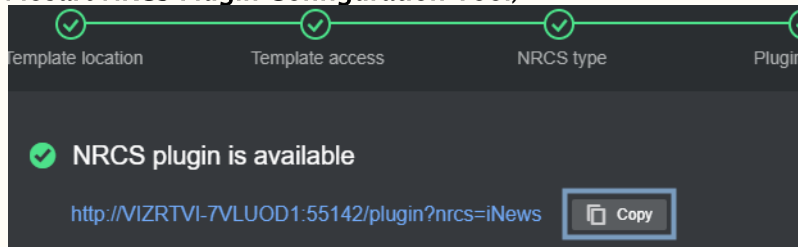
iNEWS Clients without HTML5 Support

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/WebComponents/MosartNCSPlugin-1.3.0/ download and run the utility file *MosartNCSPlugin-iNEWSClientAddon-1.1.0.0.exe*
2. Under **Install options > Mosart NCS Plugin URL**, paste the URL of the Plugin (*http://machine-name:55142/plugin?nracs=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 > Viz Mosart NRCS Plugin Configuration Tool**



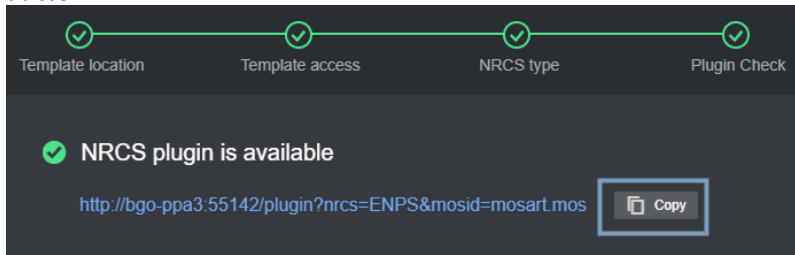
3. Click **Install**.
4. Open/Restart your iNEWS Client.
The Viz Mosart NRCS Plugin is under:
Tools > Plugin > Mosart NRCS Plugin.

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*.

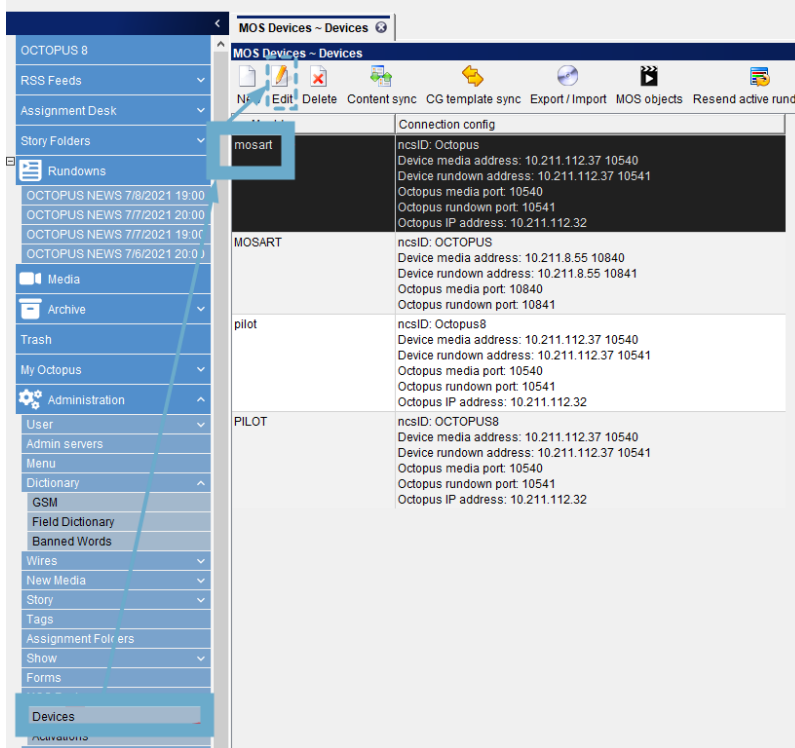
3.1.3 Octopus

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**

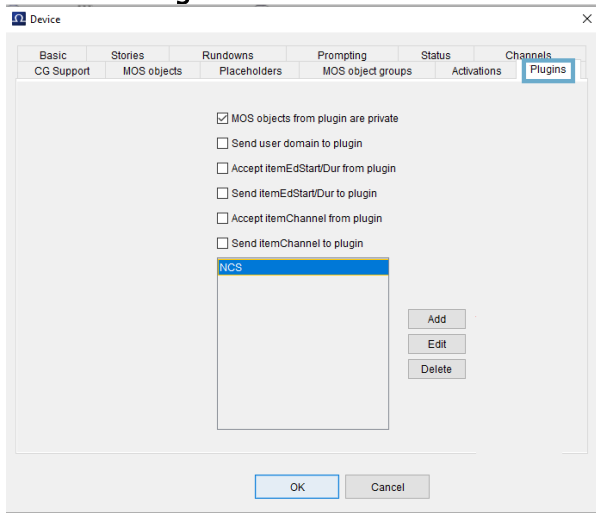
button:



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

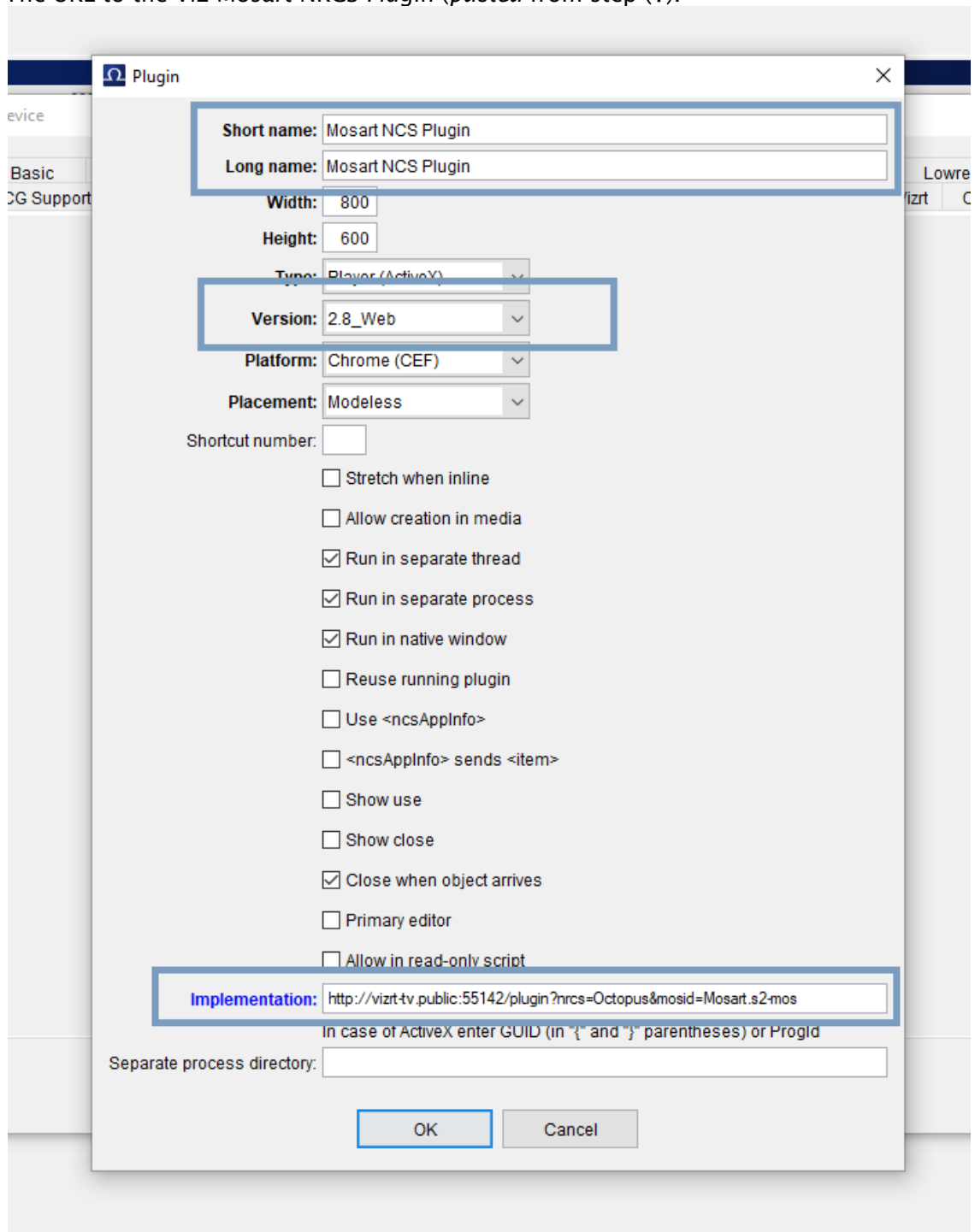


4. Select the **Plugins** tab:



5. Fill-in as below, and providing:

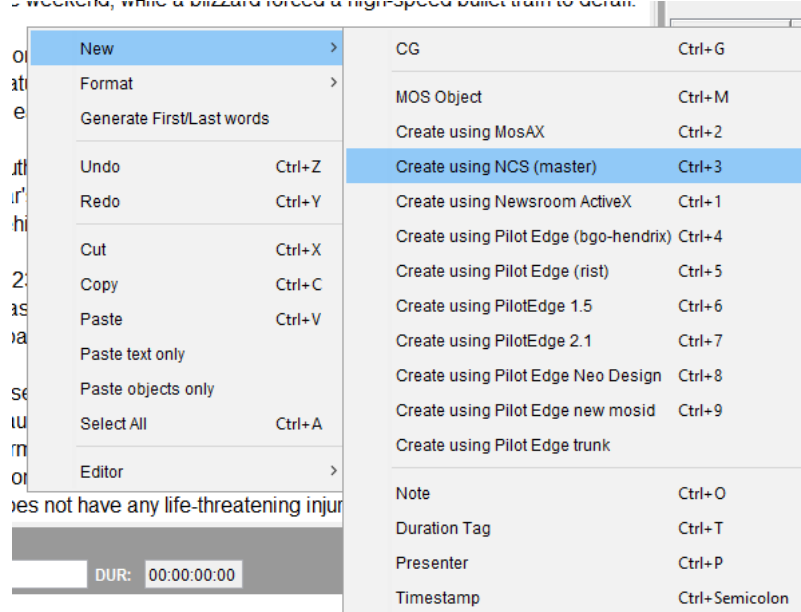
- a. A unique name
- b. Version
- c. The URL to the Viz Mosart NRCS Plugin (*pasted* from step (1)).



6. Setup is complete.

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

of the plugin>



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