

# Publishing HLS Using Built-in Server



The description is valid for software version [2.11.0](#) and newer.

The Neovid built-in web server can process HLS stream data generated by the [Payout](#) module. HLS streams are published separately from the admin UI and REST API, so firewalls can be configured to allow access exclusively to streaming ports from public networks:

- HTTP access on port 7904
- HTTPS access on port 7944.

To get started, you need to configure file upload and then perform stream publishing.

## Configuring File Upload

Built-in HLS streaming is activated by selecting Neovid as the upload method in the Payout module configuration: Administrator Control Panel→Manage→Video IO Boards→Payout\_N→HLS Parameters→Upload METHOD=Neovid. Enabling this option will direct HLS data output to the /run/buffer/xxxxx subfolder, where xxxx is an automatically generated unique identifier.






## Configuring Stream Publishing

Through the Administrator Control Panel→Status→Payout\_N→HLS Publishing menu, the operator can publish each HLS stream under a different unique key, which will create URLs like: [http://IP\\_ADDR:7904/stream/unique\\_key/stream.m3u8](http://IP_ADDR:7904/stream/unique_key/stream.m3u8).

Each URL can be activated separately without restarting the playback. Different recipients can be given their own URL, thus managing their access in a flexible way.



Parameter	Description
<b>Publish</b>	Opens a dialogue box for publishing an HLS stream  <ul style="list-style-type: none"><li>• <b>SubPath</b> - The path to the stream, including a unique user-defined key.</li><li>• <b>Allowed group list</b> - the user group list from the Storage module that will have access to this stream after being authorised. If the value is not set, access is performed without authorisation.</li><li>• <b>Muted</b> - setting this flag allows you to suspend publishing for the given URL while preserving the settings. For example, if you want to temporarily restrict access.</li></ul>
<b>Unpublish</b>	Deletes the selected URL from the publish list.
<b>Mute</b>	
<b>Unmute</b>	
<b>Allowed Groups</b>	Opens a window to edit the groups of users who have access to the HLS stream for the selected URL. { \ 
<b>Show Urls</b>	Opens a preview of the actual URLs with the current IP addresses of the server. 
<b>Close</b>	Closes the stream publishing control window.

## Authorisation Usage

If a published stream is set to “Allowed group list”, then authorisation based on [function API Keys](#) is used to access such a stream. The key is passed in HTTP headers using the Cookie, where:

- API-Key-Cookie is the name of the cookie being passed.
- value - must contain a user's Api Key.

The server checks the passed Api Key value with the local key database on the server, obtains the groups associated with the user and checks against the groups specified by the Allowed group list option. If a match is found, the user is allowed access to the stream.



If the value in the “Allowed group list” parameter is not specified, then the Everyone group (a system group including all users) is used and access is granted without authorisation.



VLC player does not support viewing streams that require authorisation using Cookie.

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