

# GLIM 2.2



## Release Notes

The official release build of GLIM is: **2.2.0.2059**

Date **21<sup>st</sup> September 2022**

### About This Release

This is major release of GLIM, Telestream's Remote Media Player. The primary purpose of this release is to address many small improvements that enhance the user experience.

In addition, we have also added "Annotations" as a technical preview and enabled customers to run GLIM on Linux in AWS Ec2 Compute.

It is recommended that customers upgrade to this version of GLIM, enabling users to take advantage of the new feature set. Please review the "Known Issues" section of this document before upgrading, to make sure this does not disrupt any of your workflows.

### Now on Linux, running in AWS

In this release GLIM now supports Linux as well as Windows operating systems. This enables GLIM to be deployed to an AWS EC2 compute instance. Customers can now run GLIM on significantly more cost-effective compute instances, with the same functionality that is available on Windows.



### Operating System Support.

- Windows Server 2016 & 2019
- AWS EC2 Linux base on "Ubuntu Server 20.04 LTS". (Delivered as an AMI)

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### GLIM Appliance GPU Support

Glim 2.2 has been qualified on both the Glim G6 Appliance (Gen 1) (Nvidia P4) and the Glim Appliance (Gen2) utilizing Nvidia RTX 4000. The driver used for qualification was 471.41

**Note:** Users upgrading their previous versions of Glim will need to go into the GLIM settings and reset the GPU Quality setting (Low medium or High)

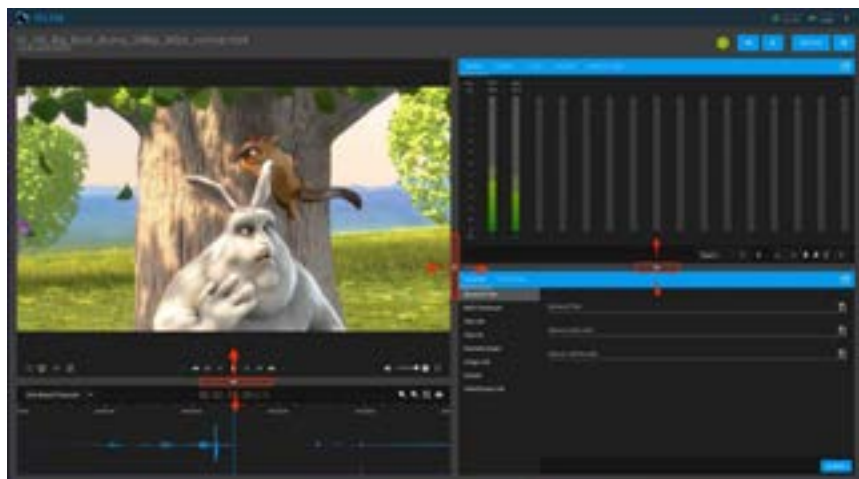
### Feature Highlights

- GLIM now runs on LINUX, deployable via an AWS AMI,
  - For access to the AMI please get in contact with Support or your technical account team.
- Ability to Resize all panes within the UI, enabling a much more flexible User interface
- Update to the GLIM Plugin Architecture, enabling plugins to be designed with settings.
- Lots of Small enhancements, making the user experience more fluid.
- Technology Preview of “Annotations”
- Optimized Searching of AWS S3 storage.

### New Features & Improvements

#### GLIM-76

**New Feature Ability to resize all panes in the GLIM UI**, enabling the video window to be resized, please note that letter boxing and pilar boxing will be added to keep the aspect ratio of the video.



Please note this significantly enhances the UI experience with customers with ultra-wide monitors

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[GLIM-1220](#)

### **New Feature** Ability to import and export settings from the settings menu.

Users logged into the Glim Host server as “admin” have the ability to export an import settings. When exporting the settings GLIM generates a .zip file with the following .Json files.

- appsettings.users.json
- appsettings.other.json
- appsettings.locations.json
- appsettings.webserver.json

When importing settings, the .zip file needs unpacking and each .json file needs importing separately.

Note. A re-start of the GLIM server maybe necessary for the settings to take effect.

[GLIM-1583](#)

### **New Feature** Implement “Plugin Settings”

This feature enables plugin developers to create plugins that are more generic and can be populated through Variables. For example a plugin can developed to send a REST API call to Vantage, but the Vantage IP and workflow GUID would be configured in the settings.

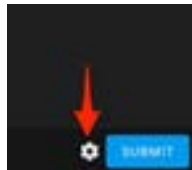
Please note that when plugins settings are invoked in the plugin design, the following icon is displayed:-



Settings icon in “Clip List” pane



Setting Icon in plugins pane


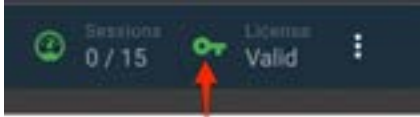


[GLIM-1743](#)

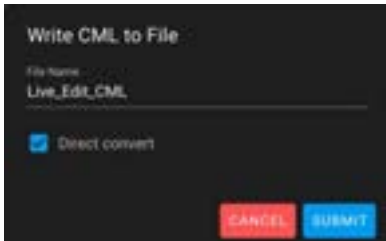
### **New Feature** Added Setting “Allow UNC Locations”.

When third party systems utilize UNC paths as part of the GLIM URL, you had to switch on “Allow local drives” which exposes all local drives from the host GLIM server. This was perceived as a security hole, so we have added this, so UNC paths without location Alias’s are now accessible when this new setting is on. This setting can be found under “User Groups” and can be expose on a per group basis.


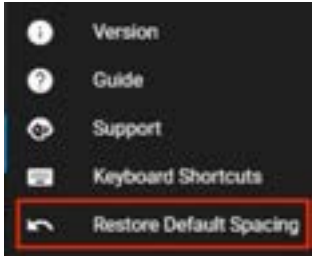
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<a href="#">GLIM-68</a>	<p><b>New Feature</b> Added capability so that users can activate Glimpse licenses offline via the UI.</p> <p>This can be found in the license window, accessible using the “key” top right of the screen</p>  
<a href="#">GLIM-126</a> <a href="#">GLIM-1633</a>	<p><b>Improvement</b> Access to the GLIM Web API help can be found at:</p> <p><a href="http://[machine]/help">http://[machine]/help</a> or <a href="https://[machineIP]:443/help">https://[machineIP]:443/help</a> if using Secure Https</p> <p>This presents a Swagger page that enables customers to test the various GLIM API calls</p>
<a href="#">GLIM-141</a>	<p><b>Improvement</b> File Browser now Auto-updates when new files arrive on host machine.</p> <p>Previously a user would need to refresh the file browser if they are expecting new files to arrive in a folder, the UI now Auto updates.</p>
<a href="#">GLIM-1168</a>	<p><b>Improvement</b> Changed Quality settings when viewing images</p> <p>Previously the default quality level for images was at its lowest setting, GLIM now uses the highest level for images.</p>
<a href="#">GLIM-1203</a>	<p><b>Improvement</b> Scrubbing to the Scope pane</p> <p>Enables video Scrubbing when you select the slider in Scopes</p> <p>Please note scopes are still in Tech Preview.</p>
<a href="#">GLIM-1356</a>	<p><b>Improvement</b> Error reporting for Live Edit users trying to access files not generated by Telestream.</p> <p>Previously if GLIM was using a Live Edit licenses which can only consume media that is generated by LightSpeed Live capture, it gave a generic error message that was not descriptive. We now give an error saying. “Cannot open non-Telestream made video in live edit mode”.</p>

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<a href="#">GLIM-1383</a>	<p><b>Improvement</b> Add an "Administrators" group in user management.</p> <p>Previously it was only possible to have one administrators account "Admin" now it is possible to add an "administrators" group and add users who need administrative privileges.</p>
<a href="#">GLIM-1538</a>	<p><b>Improvement</b> Add UI warning about unloading a clip when another user is also viewing that clip.</p> <p>When two users are viewing the same clip and one unloads the clip the other viewers clip stops buffering. If this is the case we now show a warning that unloading the clip will effect another user.</p>
<a href="#">GLIM-1544</a>	<p><b>Improvement</b> Keyboard shortcut added to "go Live" when in live edit mode</p> <p>Shortcut = "G"</p>
<a href="#">GLIM-1547</a>	<p><b>Improvement</b> Sidecar Subtitle and captions are now displayed centred to the video</p> <p>Previously sidecar loaded subtitles and captions would be displayed off-centred to the left, this has been rectified and are now catered to the video.</p>
<a href="#">GLIM-1549</a>	<p><b>Improvement</b> Shortcut keys to cycle through different Audio and Subtitle Tracks</p> <p>"ctrl-a" - Cycle through Audio Tracks</p> <p>"C" - Cycle through Subtitle / Captions</p>
<a href="#">GLIM-1573</a>	<p><b>Improvement</b> Audio only content defaults to "time" timecode type.</p> <p>Previously this uses a frame type timecode type which is not appropriate for audio only content.</p>
<a href="#">GLIM-1576</a>	<p><b>Improvement</b> Installer now adds a Shortcut icon to the desktop, enabling ease of access to the GLIM webpage.</p>
<a href="#">GLIM-1597</a>	<p><b>Improvement</b> Change to the "Write CML to file" plugin in the Clip list.</p> <p>An added improvement to the default plugin that adds an option for "Direct convert". This adds an additional parameter to the CML, enabling the downstream vantage system to direct convert the video from source to output, if this what is configured in the workflow. This option appears once the submit button is selected.</p> 

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<a href="#">GLIM-1617</a>	<p><b>Improvement Allow native Clips plugin to support single in or out points</b></p> <p>It is now possible to mark a single in and out point to log a clip.</p> <p>Expected behaviour: -</p> <p>If customers want to select a frame and select that frame to the end of the clip.</p> <ul style="list-style-type: none"><li>• Select in point “I” and log “P”.</li></ul> <p>If customers want to select a frame and select that frame to the start of the clip.</p> <ul style="list-style-type: none"><li>• Select in point “O” and log “P”.</li></ul> <p>Please note that if a previous clip has been logged with in point and out point, then these point will need to be cleared. See shortcut keys:</p>	 <p>In &amp; Out Points</p> <ul style="list-style-type: none"><li>Set in point: I</li><li>Jump to in point: Shift + I</li><li>Clear in point: Ctrl + Shift + I</li><li>Set out point: O</li><li>Jump to out point: Shift + O</li><li>Clear out point: Ctrl + Shift + O</li><li>Log clip: P</li></ul>
<a href="#">GLIM-1664</a>	<p><b>Improvement Add ability to load plugins via settings page</b></p> <p>Plugins can now be imported via the settings pane, this is especially important when using GLIM on Linux and deployed in the cloud.</p> <p>Both “standard plugins” and “Clip List plugins” can be uploaded</p>	
<a href="#">GLIM-1678</a>	<p><b>Improvement Added capability to import and export GLIM settings via API.</b></p> <p>Two new API end points have been implemented:</p> <ul style="list-style-type: none"><li>• [POST] api/Settings/ImportSettings</li><li>• [GET] api/Settings/ExportSettings</li><li>•</li></ul>	
<a href="#">GLIM-1704</a>	<p><b>Improvement Ability to return the Glim interface to the default Spacing</b></p>  <p>Available via the settings menu.</p>	
<a href="#">GLIM-1707</a>	<p><b>Improvement Add improvement to handle long file names with ellipses and tooltip showing full name.</b></p>	

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[GLIM-1737](#)

**Improvement** Add user logging when a user access's a clip.

If a customer requires information about who access which clips, it is possible to add a setting to the appsetting.json found in "C:\Program Files\Telestream\Glim\"

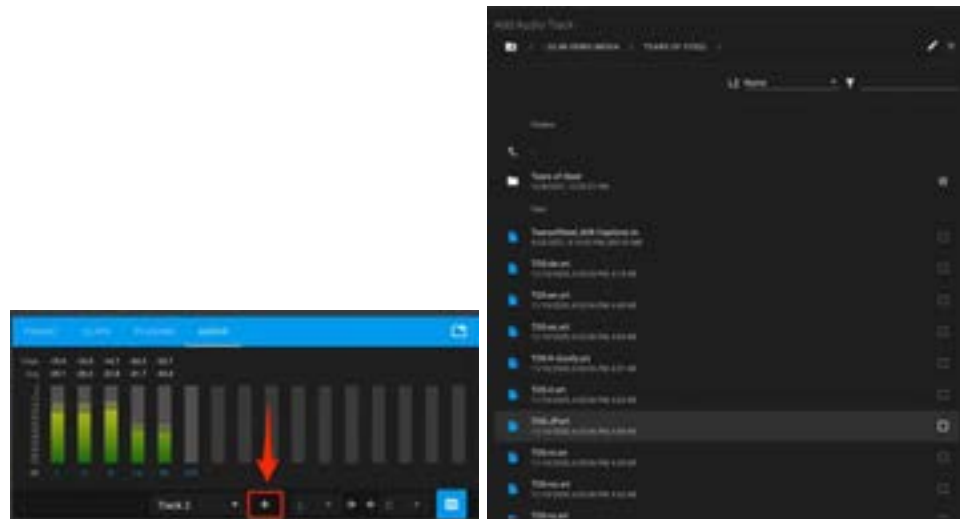
Add:- "Telestream.Glimpse.Auth.UserAuthorizer": "Verbose"

```
1 {
2   "logging": {
3     "default": {
4       "default": "Debug",
5       "system": "Information",
6       "microsoft": "Information"
7     }
8   },
9   "writing": {
10    "default": {
11      "default": "Debug",
12      "system": "Information",
13      "microsoft": "Information",
14      "Microsoft.AspNetCore.Mvc": "Warning"
15    }
16    "Telestream.Glimpse.Auth.UserAuthorizer": "Verbose"
17  },
18  },
19  "metrics": {
20    "name": "Glimpse",
21    "args": {
22      "outputTemplate": "[{Timestamp:MM:ss:cc} {Level:all} {SourceContent:CC} {Message:1}({Resource}){Exception}"
23    }
24  },
25  },
26  "name": "Glim",
27  "args": {
28    "path": "C:\\Program Files\\Telestream\\Glim\\Telestream.Glim.Srv.exe",
29    "rollingInterval": "5m",
30    "outputTemplate": "[{Timestamp:MM:ss:cc} {Level:all} {SourceContent:CC} {Message:1}({Resource}){Exception}"
31  }
32 }
```

[GLIM-1762](#)

**Improvement** Add a "+" to the Audio panes window, enabling ease of adding Sidecar Audio to the media.

Previously a user would need to go to the main file browser to add additional Audio files to the playback session. This process can now be achieved by using the "+" button in the Audio pane, enabling customers to quickly and easily load additional Audio files



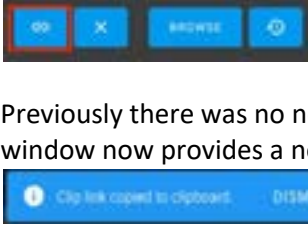

Audio Pane

New add Audio Track selection.

[GLIM-1763](#)


**Improvement** Adds the name of the user logged in to the Tab name in the browser

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<a href="#">GLIM-1767</a>	<p><b>Improvement</b> <b>Change of Behaviour to Playback speed hotkeys “J, K, L”</b></p> <p>The behaviour or the shortcut keys now resembles how these keys are used in most modern editing application.</p> <p><b>Speed Control</b></p> <ul style="list-style-type: none"><li>• “J” now cycles the Speed control in increments down</li><li>• “L” cycles the Speed Increments up.</li></ul> <p><b>On initial instigation of speed control</b></p> <ul style="list-style-type: none"><li>• “J” will go backwards</li><li>• “L” Will go forwards</li><li>• “K” will Pause</li></ul> <p>Please note that these shortcut keys are compatible to mapping to a Jog / Shuttle control.</p>
<a href="#">GLIM-753</a>	<p><b>Improvement</b> <b>New Notification when a Clip Link is generated.</b></p>  <p>Previously there was no notification on a clip link being copied to the clipboard. A pop up window now provides a notification of this.</p>
<a href="#">GLIM-1550</a>	<p><b>Improvement</b> <b>Add capability to export the Inspector information to a JSON file</b></p> <p>It is now possible to export the Media inspector information as a .json file.</p> 
<a href="#">GLIM-1593</a>	<p><b>Improvement</b> <b>Ability to load ClipList json independent of video being loaded.</b></p> <p>Please note that when a clip list json is loaded, no thumbnails will be generated.</p>
<a href="#">GLIM-1595</a>	<p><b>Improvement</b> <b>The Clip List “Notes” field is now accessible for use in customer Plugins.</b></p> <p>If customer designing their own “Clip List Plugins” need the ability to extract the Notes fields, this is now possible.</p>
<a href="#">GLIM-1603</a>	<p><b>Improvement</b> <b>Allow for multiple subtitle sidecar files in clip links.</b></p> <p>It is now possible for developers to create clip links that reference multiple subtitle or closed caption files. Previously this was limited to one file only.</p>



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<a href="#">GLIM-1680</a>	<p><b>Improvement : Improve performance when referencing AWS S3 storage.</b></p> <p>Setting found in Settings</p>  <p>A new feature that enables GLIM to Limit the number of objects Listed in the file Browser, this is especially helpful when customers are browsing and searching large Storage buckets.</p> <p>With this option on, there are some limitations, as the search utilizes the AWS S3 API to do searches.</p> <p>Limitations</p> <ul style="list-style-type: none"><li>• No Wildcards</li><li>• Search for Pre-fixes or full file names only</li><li>• Can only search in the current directory, not sub-directory's.</li></ul>
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## Resolved issues

<a href="#">GLIM-823</a>	<p><b>Video stops playing for a short period after doing a long go to.</b></p> <p>Resolved issue when using long clips and users do a long Jump. The video stopped for 2 seconds and then resumed.</p>
<a href="#">GLIM-1507</a>	<p><b>Resolved issue were Subtitles are not in sync and are not matching with TCs set in SCC file</b></p>
<a href="#">GLIM-1638</a>	<p><b>Resolved Issue where Subtitle selection through clip links sometimes did not work.</b></p>
<a href="#">GLIM-1796</a>	<p><b>In full-screen mode the captions and gear-box settings were not displayed</b></p>
<a href="#">GLIM-1694</a>	<p><b>Resolved Issue where the Session count shows 0/0 sessions even when licensed</b></p>
<a href="#">GLIM-1535</a>	<p><b>Resolved issue where the UI becomes sluggish when zoom all the way out used with open clips.</b></p> <p>This was resolved by optimizing the Waveform display and only showing the GOP structure overlay when zoomed in.</p>

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<a href="#">GLIM-1276</a>	<b>Resolved issue where intermittently an extra session is retained after using scopes.</b>
<a href="#">GLIM-1249</a>	<b>Resolved Issue when using the go-to feature the timecode will go back a frame when you change focus from the go-to box.</b>
<a href="#">GLIM-535</a>	<b>Resolved Issue: AAC HEv2 audio incorrectly identified by audio properties.</b>
<a href="#">GLIM-1638</a>	<b>Resolved Issue: Subtitle selection through clip links sometimes does not work.</b>

## Known Issues

<a href="#">GLIM-1492</a>	Captions with open sources stop playback after a short amount of time.
<a href="#">GLIM-1413</a>	GOP Display isn't shown correctly after playing content for a while. After playing content out for a while with the GOP view zoomed out to max the yellow color for the GOP changed to gray. If you zoom in a bit the color returns. When you first start playing the clip there is no issue.
<a href="#">GLIM-1401</a>	Some source files are causing scopes not to be drawn correctly.
<a href="#">GLIM-1249</a>	When using the "Go to" feature the timecode will go back a frame when you change focus from the "Go to" box.
<a href="#">GLIM-1226</a>	CML Generated by "Clip List" plugins fails if zero based timecode is used in GLIM. Please note that we have changed the default timecode to the timecode that is at the Top of the timecode selection list.
<a href="#">GLIM-920</a>	Open ingest of XAVC/MXF with an open copy from Capture is not working correctly with Glim.
<a href="#">GLIM-1798</a>	License expiration warning not generated with Glim AMI's based on Linux  In the windows version of GLIM, the user will receive a message saying the subscription will expire in x number of days 1 month before the subscription runs out. This currently does not work on the Linux OS.
<a href="#">GLIM-1799</a>	UI becomes sluggish after having open content up and playing for 2+ hours.

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### Live Edit Input format Recommendations / Limitations

When using GLIM in “Live Edit” mode it is recommended that users configure the output from Lightspeed Live capture using the MXF OP1a wrapper. GLIM can ingest both Open TIFO and Open MXF however when sending the resulting CML to Vantage, the proceeding Vantage workflow will fail if referencing a Growing TIFO (Unless the CML is submitted to a conform action, rather than directly to IPTV / Multiscreen or FLIP64) If you use MXF, this works as expected. This will be resolved in a Vantage component Pac release soon.

### Annotations (Tech Preview)

“Annotations” enables users to review content, allowing frame-based metadata to be added to content. Users can now draw on content to highlight areas of a shot and add notes, if multiples users are logged on, then a conversation about a particular frame can be had and recorded.

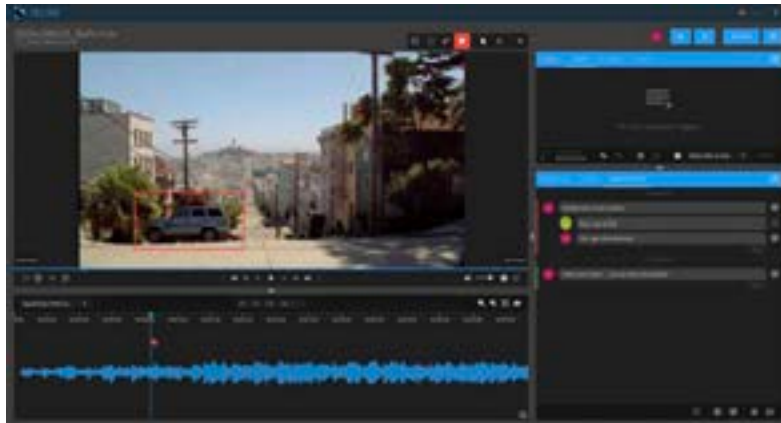


Fig 1. Annotations interface

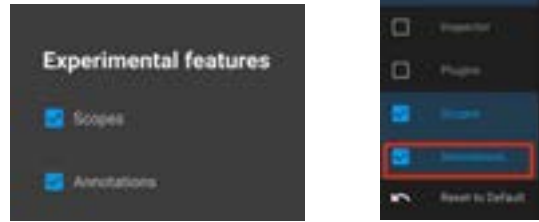
### Getting Access to the Annotations feature.

As “Annotations” is in Tech Preview mode and should not be used in a production environment. We have hidden the interface in the default installation. However, have provided access using the following setting link:

[http://MACHINE\\_IP:5000/?Annotations-settings=show#/settings](http://MACHINE_IP:5000/?Annotations-settings=show#/settings)

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Once this URL is accessed, please access the bottom of the settings page and turn on the “Annotations” experimental feature at the bottom of the page. Once selected you can then add Annotations the panes via the folder icon



## How to get access to the Linux AMI for provisioning in AWS EC2.

Glim is now available on Linux for customers that wish to use GLIM on AWS EC2 compute. Running on Linux gives considerable cost savings to customers, reducing compute costs by up to 50%.

If you require access to the GLIM 2.2 AMI, please get in touch with your Telestream account manager and we will provide you access to the AMI. We will need to know your AWS Account Number and which region you wish to run the Ec2 instance.

**Note:** The GLIM AMI has been configured to run on Port 80, instead of the default port 5000 in the windows installer. This can be changed if required.

## Suggested Compute Platforms

The type of compute required is dependent on many factors, including Source type and encode settings used in GLIM. Users need to be mindful on the compute performance required and the network performance requirement to transit media from Storage to the EC2 Compute Instance.

It is highly recommended that the compute is provisioned as close to the content as possible, so we suggest provisioning the EC2 compute in the same AWS Data Centre to where the media resides.

Please see below the recommended instance types.

NO. OF GLIM SESSION	INSTANCE TYPE	VCPUS	MEMORY (GIB)	NETWORK PERFORMANCE	ON-DEMAND LINUX PRICING	ON-DEMAND WINDOWS PRICING
1-2 SESSIONS	<a href="#">c6i.2xlarge</a>	8	16	Up to 12.5 Gigabit	0.404 USD per Hour	0.772 USD per Hour
5 SESSION (LOW BITRATE SOURCE)	<a href="#">c6i.4xlarge</a>	16	32	Up to 12.5 Gigabit	0.808 USD per Hour	1.544 USD per Hour
5 SESSION (HIGH BITRATE SOURCE)	<a href="#">c6i.8xlarge</a>	32	64	12.5 Gigabit	1.616 USD per Hour	3.088 USD per Hour

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All prices are based on AWS on-demand pricing as of 21<sup>st</sup> Sept 2022

*Please note that GPU acceleration in Linux is not currently supported*

### Plugin Developers Guide

A new Plugin developers guide will be published on the GLIM support site, this will be available shortly after the release of GLIM 2.2.

This will be available at the following address:

<https://dynamic.telestream.net/downloads/download-glim.asp?prodid=glim>