Falcon

Migration Guide:

To ease the transition from RTMP Falcon Classic to Falcon

Overview

As of early 2020, EEG will be removing RTMP Falcon Classic from eegcloud.tv. The goal is for our legacy customers to smoothly transition to our updated service. We will review the changes we have implemented as well as the benefits of switching to Falcon.

Major Differences Between RTMP Falcon Classic & Falcon

Appearance & Configuration

We've upgraded our interface for a superior user experience. Shown below are both the RTMP Falcon Classic (*Figure 1*) and Falcon (*Figure 2*). The fields that are presented in both interfaces are numbered while those that only appear in or the other are lettered. **The most notable change to the workflow is that RTMP Falcon Classic supports a configuration where you are not entering the destination stream key into the interface but into your streaming media encoder instead. This is not supported in the new system. You are now required to use the stream key generated by Falcon in your streaming media encoder and enter the stream key for the destination into the Falcon settings.**

[RTMP Falcon Classic](#)

New RTMP Falcon

After specifying the parameters below, you'll be provided with an EEG Falcon RTMP Ingest URL and Stream Key. Direct your video stream to this destination from your streaming media software.

Falcon Settings

(a) **How should Falcon deliver the Final Captioned RTMP stream to your Streaming Service Provider?**

- ● Allow Falcon to push/forward the stream (standard)
- ○ I will configure my Streaming Service to pull the stream from Falcon

(1) **Forwarding URL**

The final RTMP Ingest URL to forward your captioned video to.

[_____ ❸]

(2) **Stream Key**

The Stream Key (aka Stream Name or Stream ID) provided by your streaming service. If you omit this setting, then you must enter this Stream Key into your streaming media software.

[_____]

iCap Settings

(4) **Caption Agency Name**

The caption service provider that will be sending captions to your video stream. If using Lexi select "EEG Lexi ASR".

Not listed? Contact support.

[_____]

(5) **Access Code**

Create an iCap Access Code for your stream. Provide this code to your captioner or Lexi after setup to grant them access to your stream.

[Desired Access Code_____]

(6) **Auto-generate test captions before captioner starts?**

○ Yes ● No

(b) **Caption Format**

The format in which captions should be included with the video.

⦿ H264-embedded **(Recommended)**
Embed H264 captions directly into the video elementary stream.

Works with: Youtube Live Events, Wowza, UStream, LiveStream, Twitch, iOS platforms

○ RTMP onTextData
Embed text-based closed captions into RTMP onTextData messages.

Works with: Wowza, Flash platforms

○ RTMP onCaptionInfo
Embed text-based closed captions into RTMP onCaptionInfo messages.

Works with: Wowza, Twitch, Flash platforms

○ RTMP onCaptionInfo for UStream
Use RTMP onCaptionInfo messages with UStream.

Works with: UStream

○ H264 + onCaptionInfo
Embed H264 captions into the video stream as well as into RTMP onCaptionInfo messages.

Works with: YouTube Live Events, Wowza, Twitch

③ **Optional Encoder Settings**

Geographic Region
The region that your Falcon instance will be hosted in. Choose the one that is closest to your streaming media encoder.

| North America ▼ |

⑦ **Optional iCap Settings**

Additional Caption Agency Name
Enter an additional caption agency name to share your Access Code with. This option can be useful for monitoring purposes.

⑧ **Share this Falcon Encoder with an Existing iCap Account**

If your company has an iCap Admin account with EEG, you can enter it here to share your Falcon encoder with it. This will allow you to set up more advanced configurations (such as having this Falcon encoder and an EEG hardware iCap encoder on the same Access Code).

| Your Company Name |

Launch

⊞ Save Settings   **⊞ Load Settings**

Figure 1

Falcon

Falcon

Create New Falcon

| IDENTIFICATION

(c) **Name**   *

Falcon Instances

Please enter a unique name to identify this Falcon instance.

If you have questions about any of the fields on this form, visit our knowledge base.

| CONFIGURE ACCESS CODE

⦿ Create iCap Access Code
⑧ ○ Link to existing iCap account

⑤ **Access Code**   *

1-16 characters, alphanumeric

④ **Caption Agencies**   *

⑦

Understanding Access Codes

The access code is a unique key that identifies an encoder or group of encoders and allows your captioner/Lexi to caption to your stream.

Select one or more of the caption agencies that will send captions to your video stream. For Lexi automatic captioning, select 'EEG Lexi ASR'.

To manually configure your Falcon channel through iCap Admin, link your account by entering your company name.

If you need help finding a caption agency, or the agency you are using is not listed, visit our iCap Partners List.

OUTPUT SETTINGS

☐ Enable RTMP Pull Permissions (Advanced)

① Stream Type   *

YouTube   ✕

② Stream Key   *

[   ]

☐ Use Authentication

[Reset] [Add Destination]

Acquiring Stream

By default, pull permissions are not enabled on the stream, and it is required that you push the captioned RTMP stream to one or more destinations, such as YouTube, Facebook Live, Wowza, Twitch, Ustream, etc.

Enabling pull permissions allows this Falcon to host your stream so that an external server can pull from it.

For help streaming to YouTube, visit this support link

ADDITIONAL SETTINGS

⑥ ☐ Enable Test Captions

ⓓ Tags

[   ]

③ Geographic Region

[North America   ▾]

Optional Preferences

Test captions provide an auto-generated caption loop before the captioner begins.

Tags add labels that categorize this Falcon using simple keywords.

The geographic region specifies where this Falcon will be hosted. Choose the one that is closest to your streaming media encoder. Note that this cannot be changed after creation.

[CANCEL]   [LAUNCH]

⏱ DASHBOARD   ⚙ SETTINGS   ⊘ STATUS   ▌LOGS   ⬇ DOWNLOAD CAPTIONS

Output Information

RTMP Ingest URL

Enter this URL into your streaming media software. This is the destination to direct your RTMP stream for use with EEG Falcon and iCap.

ⓔ [RTMP ▾] [   ] [Copy]

Stream Key

Enter this into both your streaming media software and your streaming media server. This is the Stream Key that is needed to push your source stream to EEG Falcon, as well as pull the output stream from EEG Falcon.

ⓕ [   ] [Copy]

ⓖ Input   Output

Input stream active.   Output stream active.
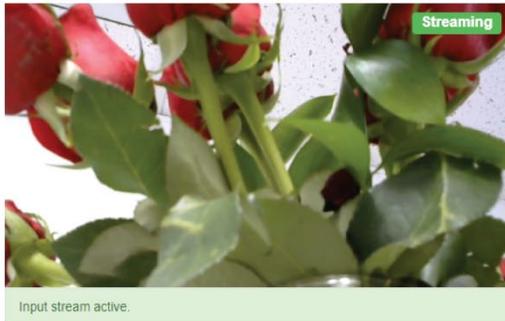
Figure 2

Appearance & Configuration Commentary

1. In Falcon, the option to select the "Forwarding URL" will not always be present. It appears only when selecting certain streaming destinations (i.e., Wowza or Custom Streaming Server).
a. "Push" and "Pull" are no longer mutually exclusive. A user may always push to zero or more destinations, as well as optionally simultaneously pull if the pull permissions are enabled from the "Output Settings".
b. When selecting specific stream types (i.e., YouTube or Facebook) Falcon will automatically choose which caption format is compatible with the destination. However, if you were to choose the stream type Wowza, or check off "Enable RTMP Pull Permissions", then the "Caption Format" selector will appear at the bottom of the "Output Settings" section.
c. The "Stream Name" feature has been added to Falcon to identify your stream allowing for accessibility when making alterations to your configurations.
d. Falcon has a new "Tag" feature allowing the user to add a label to categorize your Falcon jobs by using simple keywords.
e. In RTMP Falcon Classic, the RTMP ingest URL was displayed on the "Instance Monitor" where it is now visible on the "Output Information" found in the "Dashboard".
f. RTMP Falcon Classic supports a configuration where you are not entering the destination stream key into the interface but into your streaming media encoder instead. It is important to note that when using Falcon, you must use the EEG-provided stream key in your streaming media encoder.
g. Introduced improvements in the Falcon preview player window for thorough monitoring of your instances.

Benefits of Switching to Falcon

- RTMP Falcon Classic allowed for only one jobs per license to run at any time. In order to initiate jobs, the user had to manually create and terminate them. Now, there is no need to start and stop jobs, Falcon will begin running as soon as a video source is fed to them.
- Falcon allows a user to have multiple Falcon instances that can be reused including persistent settings and consistent stream keys. You can now create and prepare multiple instances in Falcon with different configurations that will remain idle until they

are ready to be utilized. The number of instances you can stream to simultaneously is limited by the number purchased Falcon subscriptions purchased.

- Monitoring capabilities have improved in Falcon. The preview player windows now show your video input and output, with captions on the output when they are present.
- Falcon now allows outputting to multiple destinations simultaneously.
- RTMPS protocol is supported by Falcon.

For more details or any questions you may have, please feel free to contact EEG Support via e-mail at support@eegent.com or by phone 516-293-7472 option 4 at the menu.