

RTMP Falcon API

Overview

Version information

Version : 1.0

URI scheme

Host : eegcloud.tv

BasePath : /falconr/api/v1.0

Schemes : HTTPS

Consumes

- `application/json`

Produces

- `application/json`

Paths

Create Falcon Stream

POST /streams

Description

Create a new Falcon stream using the supplied configuration data and add it to the list of existing streams.

Parameters

Type	Name	Description	Schema
Body	Stream <i>required</i>	The desired Falcon configuration.	Stream

Stream

Name	Schema
stream <i>required</i>	Input Settings
target <i>required</i>	Output Settings

Input Settings

Name	Description	Schema
access_code <i>optional</i>	iCap access code that is created for this stream. This code identifies the stream in the iCap system and must be provided to your captioner or Lexi to grant them access. Required if icap_share_company is not specified. Length : 0 - 16	string
access_codes <i>optional</i>	Additional iCap access codes to create for this stream, e.g., for alternate languages. Only allowed if access_code is specified.	< Access Code > array
captioner_companies <i>optional</i>	iCap company names of the caption service providers that will be sending captions to the stream. At least one entry is required if access_code is specified.	< string > array
icap_share_company <i>optional</i>	If your company has an iCap Admin account with EEG, you can provide your iCap company name here to share this Falcon encoder with it. This allows more advanced configurations, such as having this Falcon encoder and an EEG hardware iCap encoder on the same access code. Required if access_code is not specified.	string
name <i>required</i>	Custom name for identifying this stream. Length : 1 - 100	string

Name	Description	Schema
region <i>optional</i>	Geographic region to host this stream in. Note that this cannot be changed after initial stream creation. Default : "us-east-1"	enum (us-east-1, us-west-1, eu-west-2, ap-southeast-1, ap-southeast-2, us-east-2)
tags <i>optional</i>	Optional labels that categorize your stream using simple keywords.	< string > array

Access Code

Name	Description	Schema
access_code <i>required</i>	Name of an additional iCap access code to create for this stream. Length : 1 - 16	string
service <i>required</i>	Caption service number of the access code. Minimum value : 1 Maximum value : 6	integer

Output Settings

Name	Description	Schema
ccdecodedservice <i>optional</i>	The caption service to render as open captions when the openCaptionBurnIn format is in use. Default : "S1"	enum (S1, S2, S3, S4, S5, S6)
ccformat <i>optional</i>	The format in which captions should be included with the video. Default : "h264embedded"	enum (h264embedded, onTextData, onCaptionInfo, onCaptionInfoUStream, h264plusonCaptionInfo, onWebVttSidecar, openCaptionBurnIn)

Name	Description	Schema
cclanguages <i>optional</i>	Comma-separated list of ISO 639-2 (three-letter) language codes corresponding to each caption service, starting with S1. Up to 6 services are supported. Default : "eng,spa" Pattern : "^\\w{3}(\,\\w{3}){0,5}\$"	string
ccmatchdelay <i>optional</i>	CCMatch delays your video output by a configurable number of seconds to align with the delay inherent in your captioning process. Typically a value of 3 to 4 seconds will create the best synchronization between video, audio, and text. Minimum value : 0 Maximum value : 30	number
destinations <i>optional</i>	Streaming service providers that Falcon will push/forward its output video stream to.	< Destination > array
enable_hls <i>optional</i>	Enabling HLS permission allows Falcon to host your stream so that an external server can ingest it via the HLS protocol. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_pull setting). Default : false	boolean
enable_pull <i>optional</i>	Enabling RTMP pull permission allows Falcon to host your stream so that an external server can pull it via RTMP. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_hls setting). Default : false	boolean
modembforce mode <i>optional</i>	Enabling "Modem B Force Mode" will cause captions that are provided via iCap S1, S2, S3, and S4 access codes to be encoded into the CC1, CC2, CC3, and CC4 CTA-608 services, respectively. If this is off (the default) then only captions that are provided via iCap S1 and S2 access codes will be encoded into CTA-608 services (CC1 and CC3, respectively). Either way, captions provided via any iCap access code will be encoded into the corresponding CTA-708 service. Default : false	boolean

Name	Description	Schema
testcc <i>optional</i>	Deprecated, use testccservices instead. Default : false	boolean
testccservices <i>optional</i>	Test captions provide an auto-generated caption loop before the captioner begins. Set this to a comma-separated list of caption services (S1–S6) that you would like test captions to be generated on, or an empty string for no test captions. Default : " " Pattern : "(^\$)(S[1-6](,S[1-6]){0,5}\$)"	string

Destination

Name	Description	Schema
credentials <i>optional</i>	Authentication credentials if required by this destination.	Destination Credentials
destination_key <i>required</i>	The stream key (aka stream name or stream ID) provided by the streaming service.	string
url <i>required</i>	The RTMP ingest URL provided by the streaming service. Pattern : "^rtmps?:\\/\\"	string

Destination Credentials

Name	Description	Schema
password <i>required</i>	Password credential for this destination. Default : " "	string
username <i>required</i>	Username credential for this destination. Default : " "	string

Responses

HTTP Code	Description	Schema
201	Representation of the newly created stream.	Response 201

HTTP Code	Description	Schema
default	Error	Response default

Response 201

Name	Schema
stream <i>optional</i>	Input Settings
target <i>optional</i>	Output Settings

Input Settings

Name	Description	Schema
access_code <i>optional</i>	iCap access code that is created for this stream. This code identifies the stream in the iCap system and must be provided to your captioner or Lexi to grant them access. Required if icap_share_company is not specified. Length : 0 - 16	string
access_codes <i>optional</i>	Additional iCap access codes to create for this stream, e.g., for alternate languages. Only allowed if access_code is specified.	< Access Code > array
availability_zone <i>required</i>	Geographic availability zone that this stream is hosted in.	string
captioner_companies <i>optional</i>	iCap company names of the caption service providers that will be sending captions to the stream. At least one entry is required if access_code is specified.	< string > array
created_timestamp <i>required</i>	Epoch timestamp indicating when this stream was created.	number
creator <i>required</i>	EEG Cloud account that created this stream.	string

Name	Description	Schema
icap_share_company <i>optional</i>	If your company has an iCap Admin account with EEG, you can provide your iCap company name here to share this Falcon encoder with it. This allows more advanced configurations, such as having this Falcon encoder and an EEG hardware iCap encoder on the same access code. Required if access_code is not specified.	string
name <i>required</i>	Custom name for identifying this stream. Length : 1 - 100	string
stream_key <i>required</i>	Auto-generated unique identifier for this stream. In addition to being a path parameter in some endpoints in this API, this must be entered into your streaming media software to ingest your stream into Falcon.	string
tags <i>optional</i>	Optional labels that categorize your stream using simple keywords.	< string > array

Access Code

Name	Description	Schema
access_code <i>required</i>	Name of an additional iCap access code to create for this stream. Length : 1 - 16	string
service <i>required</i>	Caption service number of the access code. Minimum value : 1 Maximum value : 6	integer

Output Settings

Name	Description	Schema
ccdecodedservice <i>optional</i>	The caption service to render as open captions when the openCaptionBurnIn format is in use. Default : "S1"	enum (S1, S2, S3, S4, S5, S6)

Name	Description	Schema
ccformat <i>optional</i>	The format in which captions should be included with the video. Default : "h264embedded"	enum (h264embedded, onTextData, onCaptionInfo, onCaptionInfoUStream, h264plusonCaptionInfo, onWebVttSidecar, openCaptionBurnIn)
cclanguages <i>optional</i>	Comma-separated list of ISO 639-2 (three-letter) language codes corresponding to each caption service, starting with S1. Up to 6 services are supported. Default : "eng,spa" Pattern : "^\\w{3}(\",\\w{3}){0,5}\$"	string
ccmatchdelay <i>optional</i>	CCMatch delays your video output by a configurable number of seconds to align with the delay inherent in your captioning process. Typically a value of 3 to 4 seconds will create the best synchronization between video, audio, and text. Minimum value : 0 Maximum value : 30	number
destinations <i>optional</i>	Streaming service providers that Falcon will push/forward its output video stream to.	< Destination > array
enable_hls <i>optional</i>	Enabling HLS permission allows Falcon to host your stream so that an external server can ingest it via the HLS protocol. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_pull setting). Default : false	boolean
enable_pull <i>optional</i>	Enabling RTMP pull permission allows Falcon to host your stream so that an external server can pull it via RTMP. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_hls setting). Default : false	boolean

Name	Description	Schema
icapco <i>required</i>	iCap company credential for the created encoder user.	string
icapuser <i>required</i>	iCap username credential for the created encoder user. If an icap_share_company was specified, this can be used to connect this stream to an access code in your iCap account in iCap Admin .	string
modembforce mode <i>optional</i>	Enabling "Modem B Force Mode" will cause captions that are provided via iCap S1, S2, S3, and S4 access codes to be encoded into the CC1, CC2, CC3, and CC4 CTA-608 services, respectively. If this is off (the default) then only captions that are provided via iCap S1 and S2 access codes will be encoded into CTA-608 services (CC1 and CC3, respectively). Either way, captions provided via any iCap access code will be encoded into the corresponding CTA-708 service. Default : false	boolean
target_key <i>required</i>	Auto-generated unique identifier for the output stream. If RTMP pull permission is enabled, this can be entered into your streaming server to pull the output video stream. Typically matches the ingest stream_key .	string
testcc <i>optional</i>	Deprecated, use testccservices instead. Default : false	boolean
testccservices <i>optional</i>	Test captions provide an auto-generated caption loop before the captioner begins. Set this to a comma-separated list of caption services (S1–S6) that you would like test captions to be generated on, or an empty string for no test captions. Default : "" Pattern : "(^)(S[1-6](,S[1-6]){0,5}\$)"	string

Destination

Name	Description	Schema
credentials <i>optional</i>	Authentication credentials if required by this destination.	Destination Credentials

Name	Description	Schema
destination_key <i>required</i>	The stream key (aka stream name or stream ID) provided by the streaming service.	string
url <i>required</i>	The RTMP ingest URL provided by the streaming service. Pattern : <code>"^rtmps?:\\/\\"</code>	string

Destination Credentials

Name	Description	Schema
password <i>required</i>	Password credential for this destination. Default : <code>" "</code>	string
username <i>required</i>	Username credential for this destination. Default : <code>" "</code>	string

Response default

Name	Schema
error <i>optional</i>	<code>error</code>

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

List Falcon Streams

GET /streams

Description

Query the list of existing Falcon streams that have been created by all users in your billing group.

Responses

HTTP Code	Description	Schema
200	A list of stream representations corresponding to the billing group's existing streams.	Response 200
default	Error	Response default

Response 200

Name	Schema
streams <i>required</i>	< Stream > array

Stream

Name	Schema
stream <i>optional</i>	Input Settings
target <i>optional</i>	Output Settings

Input Settings

Name	Description	Schema
access_code <i>optional</i>	iCap access code that is created for this stream. This code identifies the stream in the iCap system and must be provided to your captioner or Lexi to grant them access. Required if icap_share_company is not specified. Length : 0 - 16	string

Name	Description	Schema
access_codes <i>optional</i>	Additional iCap access codes to create for this stream, e.g., for alternate languages. Only allowed if access_code is specified.	< Access Code > array
availability_zone <i>required</i>	Geographic availability zone that this stream is hosted in.	string
captioner_companies <i>optional</i>	iCap company names of the caption service providers that will be sending captions to the stream. At least one entry is required if access_code is specified.	< string > array
created_timestamp <i>required</i>	Epoch timestamp indicating when this stream was created.	number
creator <i>required</i>	EEG Cloud account that created this stream.	string
icap_share_company <i>optional</i>	If your company has an iCap Admin account with EEG, you can provide your iCap company name here to share this Falcon encoder with it. This allows more advanced configurations, such as having this Falcon encoder and an EEG hardware iCap encoder on the same access code. Required if access_code is not specified.	string
name <i>required</i>	Custom name for identifying this stream. Length : 1 - 100	string
stream_key <i>required</i>	Auto-generated unique identifier for this stream. In addition to being a path parameter in some endpoints in this API, this must be entered into your streaming media software to ingest your stream into Falcon.	string
tags <i>optional</i>	Optional labels that categorize your stream using simple keywords.	< string > array

Access Code

Name	Description	Schema
access_code <i>required</i>	Name of an additional iCap access code to create for this stream. Length : 1 - 16	string
service <i>required</i>	Caption service number of the access code. Minimum value : 1 Maximum value : 6	integer

Output Settings

Name	Description	Schema
ccdecodedservice <i>optional</i>	The caption service to render as open captions when the openCaptionBurnIn format is in use. Default : "S1"	enum (S1, S2, S3, S4, S5, S6)
ccformat <i>optional</i>	The format in which captions should be included with the video. Default : "h264embedded"	enum (h264embedded, onTextData, onCaptionInfo, onCaptionInfoUStream, h264plusonCaptionInfo, onWebVttSidecar, openCaptionBurnIn)
cclanguages <i>optional</i>	Comma-separated list of ISO 639-2 (three-letter) language codes corresponding to each caption service, starting with S1. Up to 6 services are supported. Default : "eng,spa" Pattern : "^\\w{3}(\,\\w{3}){0,5}\$"	string
ccmatchdelay <i>optional</i>	CCMatch delays your video output by a configurable number of seconds to align with the delay inherent in your captioning process. Typically a value of 3 to 4 seconds will create the best synchronization between video, audio, and text. Minimum value : 0 Maximum value : 30	number
destinations <i>optional</i>	Streaming service providers that Falcon will push/forward its output video stream to.	< Destination > array

Name	Description	Schema
enable_hls <i>optional</i>	Enabling HLS permission allows Falcon to host your stream so that an external server can ingest it via the HLS protocol. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_pull setting). Default : false	boolean
enable_pull <i>optional</i>	Enabling RTMP pull permission allows Falcon to host your stream so that an external server can pull it via RTMP. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_hls setting). Default : false	boolean
icapco <i>required</i>	iCap company credential for the created encoder user.	string
icapuser <i>required</i>	iCap username credential for the created encoder user. If an icap_share_company was specified, this can be used to connect this stream to an access code in your iCap account in iCap Admin .	string
modembforce mode <i>optional</i>	Enabling "Modem B Force Mode" will cause captions that are provided via iCap S1, S2, S3, and S4 access codes to be encoded into the CC1, CC2, CC3, and CC4 CTA-608 services, respectively. If this is off (the default) then only captions that are provided via iCap S1 and S2 access codes will be encoded into CTA-608 services (CC1 and CC3, respectively). Either way, captions provided via any iCap access code will be encoded into the corresponding CTA-708 service. Default : false	boolean
target_key <i>required</i>	Auto-generated unique identifier for the output stream. If RTMP pull permission is enabled, this can be entered into your streaming server to pull the output video stream. Typically matches the ingest stream_key .	string
testcc <i>optional</i>	Deprecated, use testccservices instead. Default : false	boolean

Name	Description	Schema
testccservices <i>optional</i>	Test captions provide an auto-generated caption loop before the captioner begins. Set this to a comma-separated list of caption services (S1–S6) that you would like test captions to be generated on, or an empty string for no test captions. Default : "" Pattern : "(^{\$}) ⁽ S[1-6](,S[1-6]){0,5}\$)"	string

Destination

Name	Description	Schema
credentials <i>optional</i>	Authentication credentials if required by this destination.	Destination Credentials
destination_key <i>required</i>	The stream key (aka stream name or stream ID) provided by the streaming service.	string
url <i>required</i>	The RTMP ingest URL provided by the streaming service. Pattern : "^rtmps?:\\/\\/.*"	string

Destination Credentials

Name	Description	Schema
password <i>required</i>	Password credential for this destination. Default : ""	string
username <i>required</i>	Username credential for this destination. Default : ""	string

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Get Falcon Stream

```
GET /streams/{stream_key}
```

Description

Query the configuration of an individual Falcon stream.

Parameters

Type	Name	Description	Schema
Path	stream_key <i>required</i>	The identifier of the stream.	string

Responses

HTTP Code	Description	Schema
200	Representation of the requested stream.	Response 200
default	Error	Response default

Response 200

Name	Schema
stream <i>optional</i>	Input Settings
target <i>optional</i>	Output Settings

Input Settings

Name	Description	Schema
access_code <i>optional</i>	iCap access code that is created for this stream. This code identifies the stream in the iCap system and must be provided to your captioner or Lexi to grant them access. Required if icap_share_company is not specified. Length : 0 - 16	string
access_codes <i>optional</i>	Additional iCap access codes to create for this stream, e.g., for alternate languages. Only allowed if access_code is specified.	< Access Code > array
availability_zone <i>required</i>	Geographic availability zone that this stream is hosted in.	string
captioner_companies <i>optional</i>	iCap company names of the caption service providers that will be sending captions to the stream. At least one entry is required if access_code is specified.	< string > array
created_timestamp <i>required</i>	Epoch timestamp indicating when this stream was created.	number
creator <i>required</i>	EEG Cloud account that created this stream.	string
icap_share_company <i>optional</i>	If your company has an iCap Admin account with EEG, you can provide your iCap company name here to share this Falcon encoder with it. This allows more advanced configurations, such as having this Falcon encoder and an EEG hardware iCap encoder on the same access code. Required if access_code is not specified.	string

Name	Description	Schema
name <i>required</i>	Custom name for identifying this stream. Length : 1 - 100	string
stream_key <i>required</i>	Auto-generated unique identifier for this stream. In addition to being a path parameter in some endpoints in this API, this must be entered into your streaming media software to ingest your stream into Falcon.	string
tags <i>optional</i>	Optional labels that categorize your stream using simple keywords.	< string > array

Access Code

Name	Description	Schema
access_code <i>required</i>	Name of an additional iCap access code to create for this stream. Length : 1 - 16	string
service <i>required</i>	Caption service number of the access code. Minimum value : 1 Maximum value : 6	integer

Output Settings

Name	Description	Schema
ccdecodedservice <i>optional</i>	The caption service to render as open captions when the openCaptionBurnIn format is in use. Default : "S1"	enum (S1, S2, S3, S4, S5, S6)
ccformat <i>optional</i>	The format in which captions should be included with the video. Default : "h264embedded"	enum (h264embedded, onTextData, onCaptionInfo, onCaptionInfoUStream, h264plusonCaptionInfo, onWebVttSidecar, openCaptionBurnIn)

Name	Description	Schema
cclanguages <i>optional</i>	Comma-separated list of ISO 639-2 (three-letter) language codes corresponding to each caption service, starting with S1. Up to 6 services are supported. Default : "eng,spa" Pattern : "^\\w{3}(\,\\w{3}){0,5}\$"	string
ccmatchdelay <i>optional</i>	CCMatch delays your video output by a configurable number of seconds to align with the delay inherent in your captioning process. Typically a value of 3 to 4 seconds will create the best synchronization between video, audio, and text. Minimum value : 0 Maximum value : 30	number
destinations <i>optional</i>	Streaming service providers that Falcon will push/forward its output video stream to.	< Destination > array
enable_hls <i>optional</i>	Enabling HLS permission allows Falcon to host your stream so that an external server can ingest it via the HLS protocol. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_pull setting). Default : false	boolean
enable_pull <i>optional</i>	Enabling RTMP pull permission allows Falcon to host your stream so that an external server can pull it via RTMP. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_hls setting). Default : false	boolean
icapco <i>required</i>	iCap company credential for the created encoder user.	string
icapuser <i>required</i>	iCap username credential for the created encoder user. If an icap_share_company was specified, this can be used to connect this stream to an access code in your iCap account in iCap Admin .	string

Name	Description	Schema
modembforce mode <i>optional</i>	Enabling "Modem B Force Mode" will cause captions that are provided via iCap S1, S2, S3, and S4 access codes to be encoded into the CC1, CC2, CC3, and CC4 CTA-608 services, respectively. If this is off (the default) then only captions that are provided via iCap S1 and S2 access codes will be encoded into CTA-608 services (CC1 and CC3, respectively). Either way, captions provided via any iCap access code will be encoded into the corresponding CTA-708 service. Default : <code>false</code>	boolean
target_key <i>required</i>	Auto-generated unique identifier for the output stream. If RTMP pull permission is enabled, this can be entered into your streaming server to pull the output video stream. Typically matches the ingest <code>stream_key</code> .	string
testcc <i>optional</i>	Deprecated, use <code>testccservices</code> instead. Default : <code>false</code>	boolean
testccservices <i>optional</i>	Test captions provide an auto-generated caption loop before the captioner begins. Set this to a comma-separated list of caption services (S1–S6) that you would like test captions to be generated on, or an empty string for no test captions. Default : <code>""</code> Pattern : <code>"(^)(S[1-6](,S[1-6]){0,5}\$)"</code>	string

Destination

Name	Description	Schema
credentials <i>optional</i>	Authentication credentials if required by this destination.	Destination Credentials
destination_key <i>required</i>	The stream key (aka stream name or stream ID) provided by the streaming service.	string
url <i>required</i>	The RTMP ingest URL provided by the streaming service. Pattern : <code>"^rtmps?:\\/\\/.*"</code>	string

Destination Credentials

Name	Description	Schema
password <i>required</i>	Password credential for this destination. Default : ""	string
username <i>required</i>	Username credential for this destination. Default : ""	string

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Delete Falcon Stream

```
DELETE /streams/{stream_key}
```

Description

Delete an existing Falcon stream. Note that this cannot be undone.

Parameters

Type	Name	Description	Schema
Path	stream_key <i>required</i>	The identifier of the stream.	string

Responses

HTTP Code	Description	Schema
200	Stream successfully deleted.	object
default	Error	Response default

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Modify Falcon Stream

```
PATCH /streams/{stream_key}
```

Description

Modify the configuration of an existing Falcon stream using the supplied configuration data.

Parameters

Type	Name	Description	Schema
Path	stream_key <i>required</i>	The identifier of the stream.	string
Body	Stream <i>optional</i>	Modifications to the configuration of the specified stream.	Stream

Stream

Name	Schema
stream <i>optional</i>	Input Settings
target <i>optional</i>	Output Settings

Input Settings

Name	Description	Schema
access_code <i>optional</i>	iCap access code that is created for this stream. This code identifies the stream in the iCap system and must be provided to your captioner or Lexi to grant them access. Required if icap_share_company is not specified. Length : 0 - 16	string
access_codes <i>optional</i>	Additional iCap access codes to create for this stream, e.g., for alternate languages. Only allowed if access_code is specified.	< Access Code > array
captioner_companies <i>optional</i>	iCap company names of the caption service providers that will be sending captions to the stream. At least one entry is required if access_code is specified.	< string > array

Name	Description	Schema
icap_share_company <i>optional</i>	If your company has an iCap Admin account with EEG, you can provide your iCap company name here to share this Falcon encoder with it. This allows more advanced configurations, such as having this Falcon encoder and an EEG hardware iCap encoder on the same access code. Required if access_code is not specified.	string
name <i>optional</i>	Custom name for identifying this stream. Length : 1 - 100	string
tags <i>optional</i>	Optional labels that categorize your stream using simple keywords.	< string > array

Access Code

Name	Description	Schema
access_code <i>required</i>	Name of an additional iCap access code to create for this stream. Length : 1 - 16	string
service <i>required</i>	Caption service number of the access code. Minimum value : 1 Maximum value : 6	integer

Output Settings

Name	Description	Schema
ccdecodedservice <i>optional</i>	The caption service to render as open captions when the openCaptionBurnIn format is in use. Default : "S1"	enum (S1, S2, S3, S4, S5, S6)

Name	Description	Schema
ccformat <i>optional</i>	The format in which captions should be included with the video. Default : "h264embedded"	enum (h264embedded, onTextData, onCaptionInfo, onCaptionInfoUStream, h264plusonCaptionInfo, onWebVttSidecar, openCaptionBurnIn)
cclanguages <i>optional</i>	Comma-separated list of ISO 639-2 (three-letter) language codes corresponding to each caption service, starting with S1. Up to 6 services are supported. Default : "eng,spa" Pattern : "^\\w{3}(\",\\w{3}){0,5}\$"	string
ccmatchdelay <i>optional</i>	CCMatch delays your video output by a configurable number of seconds to align with the delay inherent in your captioning process. Typically a value of 3 to 4 seconds will create the best synchronization between video, audio, and text. Minimum value : 0 Maximum value : 30	number
destinations <i>optional</i>	Streaming service providers that Falcon will push/forward its output video stream to.	< Destination > array
enable_hls <i>optional</i>	Enabling HLS permission allows Falcon to host your stream so that an external server can ingest it via the HLS protocol. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_pull setting). Default : false	boolean
enable_pull <i>optional</i>	Enabling RTMP pull permission allows Falcon to host your stream so that an external server can pull it via RTMP. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_hls setting). Default : false	boolean

Name	Description	Schema
modembforce mode <i>optional</i>	Enabling "Modem B Force Mode" will cause captions that are provided via iCap S1, S2, S3, and S4 access codes to be encoded into the CC1, CC2, CC3, and CC4 CTA-608 services, respectively. If this is off (the default) then only captions that are provided via iCap S1 and S2 access codes will be encoded into CTA-608 services (CC1 and CC3, respectively). Either way, captions provided via any iCap access code will be encoded into the corresponding CTA-708 service. Default : <code>false</code>	boolean
testcc <i>optional</i>	Deprecated, use <code>testccservices</code> instead. Default : <code>false</code>	boolean
testccservices <i>optional</i>	Test captions provide an auto-generated caption loop before the captioner begins. Set this to a comma-separated list of caption services (S1–S6) that you would like test captions to be generated on, or an empty string for no test captions. Default : <code>""</code> Pattern : <code>"(\$){S[1-6](,S[1-6]){0,5}\$}"</code>	string

Destination

Name	Description	Schema
credentials <i>optional</i>	Authentication credentials if required by this destination.	Destination Credentials
destination_key <i>required</i>	The stream key (aka stream name or stream ID) provided by the streaming service.	string
url <i>required</i>	The RTMP ingest URL provided by the streaming service. Pattern : <code>"^rtmps?:\\/\\/.*"</code>	string

Destination Credentials

Name	Description	Schema
password <i>required</i>	Password credential for this destination. Default : <code>""</code>	string

Name	Description	Schema
username <i>required</i>	Username credential for this destination. Default : <code>""</code>	string

Responses

HTTP Code	Description	Schema
200	Representation of the modified stream.	Response 200
default	Error	Response default

Response 200

Name	Schema
stream <i>optional</i>	Input Settings
target <i>optional</i>	Output Settings

Input Settings

Name	Description	Schema
access_code <i>optional</i>	iCap access code that is created for this stream. This code identifies the stream in the iCap system and must be provided to your captioner or Lexi to grant them access. Required if <code>icap_share_company</code> is not specified. Length : <code>0 - 16</code>	string
access_codes <i>optional</i>	Additional iCap access codes to create for this stream, e.g., for alternate languages. Only allowed if <code>access_code</code> is specified.	< Access Code > array
availability_zone <i>required</i>	Geographic availability zone that this stream is hosted in.	string

Name	Description	Schema
captioner_companies <i>optional</i>	iCap company names of the caption service providers that will be sending captions to the stream. At least one entry is required if access_code is specified.	< string > array
created_timestamp <i>required</i>	Epoch timestamp indicating when this stream was created.	number
creator <i>required</i>	EEG Cloud account that created this stream.	string
icap_share_company <i>optional</i>	If your company has an iCap Admin account with EEG, you can provide your iCap company name here to share this Falcon encoder with it. This allows more advanced configurations, such as having this Falcon encoder and an EEG hardware iCap encoder on the same access code. Required if access_code is not specified.	string
name <i>required</i>	Custom name for identifying this stream. Length : 1 - 100	string
stream_key <i>required</i>	Auto-generated unique identifier for this stream. In addition to being a path parameter in some endpoints in this API, this must be entered into your streaming media software to ingest your stream into Falcon.	string
tags <i>optional</i>	Optional labels that categorize your stream using simple keywords.	< string > array

Access Code

Name	Description	Schema
access_code <i>required</i>	Name of an additional iCap access code to create for this stream. Length : 1 - 16	string
service <i>required</i>	Caption service number of the access code. Minimum value : 1 Maximum value : 6	integer

Output Settings

Name	Description	Schema
ccdecodedservice <i>optional</i>	The caption service to render as open captions when the openCaptionBurnIn format is in use. Default : "S1"	enum (S1, S2, S3, S4, S5, S6)
ccformat <i>optional</i>	The format in which captions should be included with the video. Default : "h264embedded"	enum (h264embedded, onTextData, onCaptionInfo, onCaptionInfoUStream, h264plusonCaptionInfo, onWebVttSidecar, openCaptionBurnIn)
cclanguages <i>optional</i>	Comma-separated list of ISO 639-2 (three-letter) language codes corresponding to each caption service, starting with S1. Up to 6 services are supported. Default : "eng,spa" Pattern : "^\\w{3}(\",\\w{3}){0,5}\$"	string
ccmatchdelay <i>optional</i>	CCMatch delays your video output by a configurable number of seconds to align with the delay inherent in your captioning process. Typically a value of 3 to 4 seconds will create the best synchronization between video, audio, and text. Minimum value : 0 Maximum value : 30	number
destinations <i>optional</i>	Streaming service providers that Falcon will push/forward its output video stream to.	< Destination > array
enable_hls <i>optional</i>	Enabling HLS permission allows Falcon to host your stream so that an external server can ingest it via the HLS protocol. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_pull setting). Default : false	boolean

Name	Description	Schema
enable_pull <i>optional</i>	Enabling RTMP pull permission allows Falcon to host your stream so that an external server can pull it via RTMP. This is an alternative to specifying one or more destinations that Falcon will push its output video stream to (or the enable_hls setting). Default : false	boolean
icapco <i>required</i>	iCap company credential for the created encoder user.	string
icapuser <i>required</i>	iCap username credential for the created encoder user. If an icap_share_company was specified, this can be used to connect this stream to an access code in your iCap account in iCap Admin .	string
modembforce mode <i>optional</i>	Enabling "Modem B Force Mode" will cause captions that are provided via iCap S1, S2, S3, and S4 access codes to be encoded into the CC1, CC2, CC3, and CC4 CTA-608 services, respectively. If this is off (the default) then only captions that are provided via iCap S1 and S2 access codes will be encoded into CTA-608 services (CC1 and CC3, respectively). Either way, captions provided via any iCap access code will be encoded into the corresponding CTA-708 service. Default : false	boolean
target_key <i>required</i>	Auto-generated unique identifier for the output stream. If RTMP pull permission is enabled, this can be entered into your streaming server to pull the output video stream. Typically matches the ingest stream_key .	string
testcc <i>optional</i>	Deprecated, use testccservices instead. Default : false	boolean
testccservices <i>optional</i>	Test captions provide an auto-generated caption loop before the captioner begins. Set this to a comma-separated list of caption services (S1–S6) that you would like test captions to be generated on, or an empty string for no test captions. Default : "" Pattern : "(^)(S[1-6](,S[1-6]){0,5}\$)"	string

Destination

Name	Description	Schema
credentials <i>optional</i>	Authentication credentials if required by this destination.	Destination Credentials
destination_key <i>required</i>	The stream key (aka stream name or stream ID) provided by the streaming service.	string
url <i>required</i>	The RTMP ingest URL provided by the streaming service. Pattern : <code>"^rtmps?:\\/\\"</code>	string

Destination Credentials

Name	Description	Schema
password <i>required</i>	Password credential for this destination. Default : <code>" "</code>	string
username <i>required</i>	Username credential for this destination. Default : <code>" "</code>	string

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Assemble Captions

POST /streams/{stream_key}/assemble

Description

Download as-run caption data from this Falcon stream as a Scenarist Closed Caption (SCC) file. Note that each caption assembly request cannot exceed a 12-hour period.

Parameters

Type	Name	Description	Schema
Path	stream_key <i>required</i>	The identifier of the stream.	string
Body	Assemble <i>optional</i>	Parameters for requested caption assembly.	Assemble

Assemble

Name	Description	Schema
caption_service <i>required</i>	Service of the captions to retrieve. Default : "s1_caption_data"	enum (s1_caption_data, s2_caption_data)
end_time <i>required</i>	Epoch timestamp for the end of the period to retrieve captions for.	string
start_time <i>required</i>	Epoch timestamp for the beginning of the period to retrieve captions for.	string
starting_time_code <i>required</i>	Video timecode string that corresponds to the start_time of the assembly request. This only affects the timestamps that will be present in the returned caption file. Default : "01:00:00;00"	string
video_framerate <i>required</i>	Frame rate of the video that the returned caption file will be used with. This info (in conjunction with starting_time_code) is used for proper timestamp generation. Default : "29.97"	enum (29.97, 59.94, 23.976, 24, 25, 50)

Responses

HTTP Code	Description	Schema
200	The requested caption data.	file
default	Error	Response default

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Produces

- [application/octet-stream](#)

Drop RTMP Publisher

```
POST /streams/{stream_key}/drop
```

Description

Forcibly break the RTMP connection of the publisher ingesting to this Falcon's stream key (if there is one). A healthy streaming media encoder will typically auto-reconnect a few seconds after being

dropped, though this can be used to break lingering idle connections that are preventing you from publishing to this Falcon.

Parameters

Type	Name	Description	Schema
Path	stream_key <i>required</i>	The identifier of the stream.	string

Responses

HTTP Code	Description	Schema
200	No publisher or publisher successfully dropped.	object
default	Error	Response default

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Read Event Log

GET /streams/{stream_key}/event_stream

Parameters

Type	Name	Description	Schema	Default
Path	stream_key <i>required</i>	The identifier of the stream.	string	
Query	contains <i>optional</i>	A string to search for in the content of the log event.	string	
Query	minimum_log_level <i>optional</i>	Minimum log level to retrieve.	enum (trace, debug, info, warn, error, fatal)	"info"
Query	page_size <i>optional</i>	Maximum number of results to return.	integer	500
Query	page_token <i>optional</i>	Starting token for page of results.	string	
Query	timestamp_end <i>optional</i>	Epoch timestamp for the end of the period to fetch logs from.	number	
Query	timestamp_start <i>optional</i>	Epoch timestamp for the beginning of the period to fetch logs from.	number	

Responses

HTTP Code	Description	Schema
200	A page of log events for the stream.	LogEventsPage
default	Error	Response default

LogEventsPage

Name	Description	Schema
log_events <i>required</i>	The log events contained on this page.	< object > array
next_page_token <i>optional</i>	The page_token to use to request the next page of results.	string
previous_page_token <i>optional</i>	The page_token to use to request the previous page of results.	string

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Check Status of Falcon Stream

```
GET /streams/{stream_key}/status
```

Description

Query the current status information of an individual Falcon stream.

Parameters

Type	Name	Description	Schema
Path	stream_key <i>required</i>	The identifier of the stream.	string

Responses

HTTP Code	Description	Schema
200	The status of a stream.	object
default	Error	Response default

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Read Status Log

```
GET /streams/{stream_key}/status_stream
```

Parameters

Type	Name	Description	Schema	Default
Path	stream_key <i>required</i>	The identifier of the stream.	string	
Query	page_size <i>optional</i>	Maximum number of results to return.	integer	500
Query	page_token <i>optional</i>	Starting token for page of results.	string	
Query	timestamp_end <i>optional</i>	Epoch timestamp for the end of the period to fetch logs from.	number	
Query	timestamp_start <i>optional</i>	Epoch timestamp for the beginning of the period to fetch logs from.	number	

Responses

HTTP Code	Description	Schema
200	A page of log events for the stream.	LogEventsPage
default	Error	Response default

LogEventsPage

Name	Description	Schema
log_events <i>required</i>	The log events contained on this page.	< object > array
next_page_token <i>optional</i>	The page_token to use to request the next page of results.	string

Name	Description	Schema
previous_page_token <i>optional</i>	The page_token to use to request the previous page of results.	string

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Get Video Egest Info

```
GET /streams/{stream_key}/targets/{target_key}/video_info
```

Description

Retrieve the parameters for configuring your streaming media software to retrieve the output RTMP stream from Falcon. Note that this is only relevant if pull permission is enabled for this stream.

Parameters

Type	Name	Description	Schema
Path	stream_key <i>required</i>	The identifier of the stream.	string

Type	Name	Description	Schema
Path	target_key <i>required</i>	The identifier of the target.	string

Responses

HTTP Code	Description	Schema
200	RTMP egest info for this stream.	Response 200
default	Error	Response default

Response 200

Name	Description	Schema
rtmp_url <i>optional</i>	Falcon's RTMP URL to be entered into your streaming media software. RTMPS is also available by substituting rtmps:// for rtmp:// in this URL.	string
stream_key <i>optional</i>	Falcon's stream key to be entered into your streaming media software.	string

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string

Name	Schema
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)

Get Video Ingest Info

```
GET /streams/{stream_key}/video_info
```

Description

Retrieve the necessary parameters for configuring your streaming media software to direct its RTMP stream to Falcon.

Parameters

Type	Name	Description	Schema
Path	stream_key <i>required</i>	The identifier of the stream.	string

Responses

HTTP Code	Description	Schema
200	RTMP ingest info for this stream.	Response 200
default	Error	Response default

Response 200

Name	Description	Schema
rtmp_url <i>optional</i>	Falcon's RTMP URL to be entered into your streaming media software. RTMPS is also available by substituting <code>rtmps://</code> for <code>rtmp://</code> in this URL.	string
stream_key <i>optional</i>	Falcon's stream key to be entered into your streaming media software.	string

Response default

Name	Schema
error <i>optional</i>	error

error

Name	Schema
error-details <i>optional</i>	object
message <i>required</i>	string
status <i>required</i>	enum (OK, BAD_REQUEST, FORBIDDEN, UNAUTHORIZED, NOT_FOUND, ACCESSCODE_IN_USE, UNKNOWN_CAPTIONER)