

# Streams management

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## stream find-all

Shows all the streams list on the server

Example:

```
stream find-all
```

```
% stream find-all
Name MediaSessionId Status Published
-----
test f46c2dc0-43ea-11ea-9ddf-8324a20161a0 PUBLISHING true
test f9814bb0-43ea-11ea-9ddf-8324a20161a0 PLAYING false
```

## stream find

Find stream on the server by criteria

Parameters:

`[--msId | --mediaSessionId]` media session identifier

`[-n | --name]` stream name

`[-p | --published]` is the stream published

`[-s | --status]` stream state

Example:

```
stream find --name test --published true
```

```
% stream find --name test --published true
Name MediaSessionId Status Published
-----
test f46c2dc0-43ea-11ea-9ddf-8324a20161a0 PUBLISHING true
```

## stream record-start

Start the stream recording

Parameters:

`<mediaSessionId>` media session identifier (mandatory)

`[--template]` stream recording file name template

`[--rotation]` stream rotation rule

Example:

```
stream record-start --template {streamName}-{startTime} --rotation 30 f46c2dc0-43ea-11ea-9ddf-8324a20161a0
```

```
% stream record-start --template {streamName}-{startTime} --rotation 30 f46c2dc0-43ea-11ea-9ddf-8324a20161a0
Recording started
```

## stream record-stop

Stop the stream recording

Parameters:

<mediaSessionId> media session identifier (mandatory)

Example:

```
stream record-stop f46c2dc0-43ea-11ea-9ddf-8324a20161a0
```

```
% stream record-stop f46c2dc0-43ea-11ea-9ddf-8324a20161a0
Recording stopped
```

## stream record-metrics-start

Start the stream metrics recording

Parameters:

<mediaSessionId> media session identifier (mandatory)

[--rate] metrics recording rate in milliseconds, 1000 ms by default

Example:

```
stream record-metrics-start --rate 1000 df95f5d0-64fa-11ea-92bc-0325350b2bc7
```

```
% stream record-metrics-start --rate 1000 df95f5d0-64fa-11ea-92bc-0325350b2bc7
Recording started
```

Stream metrics will be recorded to /usr/local/FlashphonerWebCallServer/metrics/<mediaSessionId>.csv file

```
TS, VIDEO_RATE, VIDEO_SYNC, VIDEO_FPS, VIDEO_NACK, VIDEO_PLI, AUDIO_RATE, AUDIO_SYNC
1584084359107, 821280, 3793073159638, 30, 0, 0,31152, 3793073159596
1584084360114, 690296, 3793073160638, 30, 0, 0,31968, 3793073160616
1584084361117, 729528, 3793073161605, 29, 0, 0,32160, 3793073161616
1584084362120, 755688, 3793073162638, 31, 0, 0,32840, 3793073162616
1584084363128, 684040, 3793073163637, 30, 0, 0,32120, 3793073163636
1584084364136, 796296, 3793073164661, 30, 0, 0,31888, 3793073164636
...
```

## stream record-metrics-stop

Stop the stream metrics recording

Parameters:

<mediaSessionId> media session identifier (mandatory)

Example:

```
stream record-metrics-stop df95f5d0-64fa-11ea-92bc-0325350b2bc7
```

```
% stream record-metrics-stop df95f5d0-64fa-11ea-92bc-0325350b2bc7
Recording stopped
```

## stream show-metrics

Show metrics of the stream

Parameters:

[--mediaSessionId | --msid] media session identifier

[--streamName | --name | --sn] stream name

Example:

```
stream show-metrics --mediaSessionId 5518ffa1-5597-4af2-a06d-2f13b6bcad81
```

```
% stream show-metrics --mediaSessionId 5518ffa1-5597-4af2-a06d-2f13b6bcad81
VIDEO_SYNC VIDEO_K_FRAMES AUDIO_SYNC VIDEO_NACK AUDIO_RATE AUDIO_LOST VIDEO_LOST VIDEO_CODEC VIDEO_B_FRAMES VIDEO_PLI AUDIO_CODEC VIDEO_RATE VIDEO_WIDTH VIDEO_HEIGHT VIDEO_FPS VIDEO_P_FR
AMES
-----
243021      254      243093      0      128304      0      0      119      0      0      102      1297240      608      400      25      5822
```

## stream terminate

Stop stream playback or publishing on this server

Parameters:

<mediaSessionId> media session identifier (mandatory)

Example:

```
stream terminate 19be2809-6f2a-48fc-b67e-48acd3d578c8
```

```
% stream terminate 19be2809-6f2a-48fc-b67e-48acd3d578c8
Stream terminated
```

## Packet dumping for published stream

For debugging purposes, published stream packets dump recording can be launched from CLI. Stream packets are dumped before depacketizing them. Dumps are recorded to the folder defined by the following parameter

```
depacketizer_dump_dir=/usr/local/FlashphonerWebCallServer/depacketizer_dump_dir
```

WebRTC H264, RTSP, VOD stream dumps are recorded to files with h264 extension, WebRTC VP8 streams with vp8 extension, RTMP streams with avc extension.

## stream dump-start

Start published stream packets dump recording.

Parameters:

<mediaSessionId> media session identifier (mandatory)

Example:

```
stream dump-start a9fc6ae4-71ee-4c2c-8a5b-e5dd94819203
```

```
% stream dump-start a9fc6ae4-71ee-4c2c-8a5b-e5dd94819203
Dump started
```

The same REST API query

```
curl -s -H "Content-Type: application/json" -X POST http://localhost:8081/rest-api/stream/dumper/startup -d
'{"mediaSessionId":"a9fc6ae4-71ee-4c2c-8a5b-e5dd94819203"}'
```

## stream dump-stop

Stop published stream packets dump recording.

Parameters:

<mediaSessionId>media session identifier (mandatory)

Example:

```
stream dump-stop a9fc6ae4-71ee-4c2c-8a5b-e5dd94819203
```

```
% stream dump-stop a9fc6ae4-71ee-4c2c-8a5b-e5dd94819203
Dump stopped
```

The same REST API query

```
curl -s -H "Content-Type: application/json" -X POST http://localhost:8081/rest-api/stream/dumper/terminate -d
'{"mediaSessionId":"a9fc6ae4-71ee-4c2c-8a5b-e5dd94819203"}'
```