## Data acquisition from WCS

Theavailable metrics

• Metrics acquisition principles

## Theavailable metrics

WCS sends the following stream parameters for acquisition:

Metric	ld	Description
VIDEO_HEIGHT	2	Video height
VIDEO_WIDTH	3	Video width
VIDEO_RATE	4	Video bitrate, bps
VIDEO_SYNC	5	Video synchronization
VIDEO_FPS	6	Video frame rate per second
VIDEO_NACK	7	NACK requests count
VIDEO_PLI	8	PLI packets count
VIDEO_CODEC	9	Video codec
AUDIO_SYNC	10	Audio synchronization
AUDIO_RATE	11	Audio bitrate
AUDIO_LOST	12	Lost audio packets count
AUDIO_CODEC	13	Audio codec
VIDEO_B_FRAMES	16	B-frames count in the stream
VIDEO_K_FRAMES	17	K-frames count in the stream
VIDEO_P_FRAMES	18	P-frames count in the stream

The available metrics list can be obtained using /api/metric/list request

API Request	Response	Response status
WS API SEND destination:/app/api/metr content-length:100 { "requestId":"eb2c2807-8c 03622404e4bb", "realm":"/api/metric/lis "payload": { "id":"3" } }	content-type:application/json; charset=UTF-8 subscription:sub-1 message-id:3-8 content-length:159	8-aebe-

API	<pre>POST: /api/metric/list "application/json; charset=utf-8" {"id":"3"}</pre>	<pre>{     "status": 200,     "reason": "SUCCESS",     "payload": [         {</pre>	200 OK 400 Obkect not found
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Where

- id metric Id
- name metric name • note - metric note
- enumName metric mnemonic identifier

If metric Id is set, the response will contain information about the metric with this Id only. Otherwise, response will contain list with all the available metrics.

## Metrics acquisition principles

Metrics are combined to profiles to collect from specific nodes. Every profile contains specific metrics set and acquisition rate. For a profile, several metric acquisition rules, which are applied to a stream on a node, can be specified.

A number of profiles can be applied to one node (WCS instance). In that case, metric sets and rules from the profiles are summarized, and minimum acquisition rate for same metric is applied. Let's look on the example:

1. The profiles profile1 and profile2 are applied to test1.flashphoner.com node

2. profile1 includes

• VIDEO\_RATE, VIDEO\_FPS metrics which are acquired with rate 5

• the ruleStream name == stream1

3.profile2 includes

- VIDEO\_RATE, AUDIO\_RATE metrics which are acquired with rate 10
- the ruleStream name == stream1

As the result, for the stream stream1 on test1.flashphoner.com node the following metric sets will be acquired:

- VIDEO RATE with rate 5
- VIDEO\_FPS with rate 5
  AUDIO\_RATE with rate 10