Measurement Group (PSQA)

Scopemon is configured via parameters. This reference lists all available parameters, default values, allowed values, and examples for PSQA configuration.

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1. qoe_psqa_codec_list

The audio codec for VoIP listening mode.

- Values:
  - `0` PCM - PCM codec is used
  - `1` GSM - GSM codec is used
- Default: `0`

Example

```
[Measurement]
qoe_psqa_codec_list=1
```

2. qoe_psqa_fec_conv

Forward error correction for VoIP conversational mode.

- Values:
  - `0` Off - FEC is off
  - `10` Low - FEC is low
  - `11` High - FEC is high
- Default: `0`

Example

```
[Measurement]
qoe_psqa_fec_conv=0
```

3. qoe_psqa_fec_list

Forward error correction offset for VoIP listening mode.

- Values:
  - `0` Off - FEC is off
  - `1` FEC 1 - FEC offset = 1.0
  - `2` FEC 2 - FEC offset = 2.0
  - `3` FEC 3 - FEC offset = 3.0
- Default: `0`

Example

```
[Measurement]
qoe_psqa_fec_list=2
```

4. qoe_psqa_mode

The neural network model of PSQA.

- Values:
  - `1` VoIP listening - PSQA is used for VoIP in listening mode
  - `2` VoIP conversational - PSQA is used for VoIP in conversational mode
  - `3` Video AV - Video in streaming audiovisual mode
  - `4` Video AV MLP - Video in streaming audiovisual mode (MPL)
- Default: `1`

Example

```
[Measurement]
qoe_psqa_mode=1
```

5. qoe_psqa_pi

Packetization interval for VoIP listening mode.

- Values:
  - `0` 20 ms - Packetization interval is 20 ms
  - `1` 40 ms - Packetization interval is 40 ms
  - `2` 80 ms - Packetization interval is 80 ms
- Default: `0`

Example

```
[Measurement]
qoe_psqa_pi=2
```

6. qoe_psqa_speex_rate

Speex codec data rate for VoIP conversational mode.

- Values:
  - `10` 2.4 - Speex rate: 2.4 kbit/s
  - `11` 4.0 - Speex rate: 4.0 kbit/s
  - `12` 6.0 - Speex rate: 6.0 kbit/s
  - `13` 8.0 - Speex rate: 8.0 kbit/s
  - `14` 11.2 - Speex rate: 11.2 kbit/s
  - `15` 14.2 - Speex rate: 14.2 kbit/s
  - `16` 18.4 - Speex rate: 18.4 kbit/s
  - `17` 24.8 - Speex rate: 24.8 kbit/s
- Default: `10`

Example

```
[Measurement]
qoe_psqa_codec_conv=11
```

7. qoe_psqa_video_resolution

The resolution of the video content.

- Values:
  - `0` 480p - Video resolution is 480p
  - `1` 720p - Video resolution is 720p
  - `2` 1080p - Video resolution is 1080p
- Default: `0`

Example

```
[Measurement]
qoe_psqa_video_resolution=1
```

8. qoe_psqa_video_motion

The amount of motion in the video content.

- Values:
  - `0` Low - Low motion (e.g., news)
  - `1` Moderate - Moderate motion (e.g., typical TV shows)
  - `2` High - High motion (e.g., sports)
- Default: `0`

Example

```
[Measurement]
qoe_psqa_video_motion=1
```

9. qoe_psqa_video_ec

The error concealment mode of the video content (valid only for the Video AV MLP mode).

- Values:
  - `0` Off - Error concealment is off
  - `1` On - Error concealment is on
- Default: `0`

Example

```
[Measurement]
qoe_psqa_video_ec=1
```

10. qoe_psqa_video_cmq

Calculated movement quantity of the video content (valid only for the Video AV MLP mode).

- Unit: `percentage`
- Precision: `float`
- Minimum: `0.0`
- Maximum: `100.0`
- Default: `0.0`

Example

```
[Measurement]
qoe_psqa_video_cmq=1.15
```

11. use_qoe_psqa

Determines if PSQA quality model calculations are performed. When false, PSQA results are not available in results.

- Values:
  - `true` - PSQA quality model is calculated
  - `false` - PSQA quality model is not calculated
- Default: `false`

Example

```
[Measurement]
use_qoe_psqa=true
```