

VoIP Codec Uebersicht

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## Opus codec support

**WARNING:** opus codec is listed here as an experimental feature, without production-grade support at the moment! Due to limited memory, the opus codec is not available for D120.

## iLBC codec support

**LIMITATION:** If incoming SDP has different ptime (eg. ptime=30) than the configured ptime (e. g., Packet Size=20), the behaviour is undefined. To prevent this, please make sure the phone is configured with correct ptime.

## Supported Codecs on D305, D315, D345, D375, D385, D712, 715, 725, D745, D765 and D785

| SDP Name | Setting Name | Fmt                   | Rate  | Ptime 10ms | Ptime 20ms | Ptime 30ms | Ptime 40ms | Ptime 60ms | Bandwi |
|----------|--------------|-----------------------|-------|------------|------------|------------|------------|------------|--------|
| G722     | g722         |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| PCMU     | pcmu         |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| PCMA     | pcma         |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| x-msrta  | msrta-nb     | bitrate=11800         | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 12     |
| x-msrta  | msrta-wb     | bitrate=29000         | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| x-msrta  | msrta        | bitrate=11800         | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 12     |
| opus     | opus-wb      | maxplaybackrate=16000 | 48000 | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| opus     | opus-nb      | maxplaybackrate=8000  | 48000 | 20px       | 20px       | 20px       | 20px       | 20px       | 12     |
| opus     | opus         |                       | 48000 | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| AMR      | amr-0        |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 4      |
| AMR      | amr-1        |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 5      |
| AMR      | amr-2        |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 6      |
| AMR      | amr-3        |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 7      |
| AMR      | amr-4        |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 7      |
| AMR      | amr-5        |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 8      |
| AMR      | amr-6        |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 10     |
| AMR      | amr-7        |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 12     |
| AMR-WB   | amrwb-0      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 7      |
| AMR-WB   | amrwb-1      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 9      |
| AMR-WB   | amrwb-2      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 13     |
| AMR-WB   | amrwb-3      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 14     |
| AMR-WB   | amrwb-4      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 16     |
| AMR-WB   | amrwb-5      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 18     |
| AMR-WB   | amrwb-6      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 20     |
| AMR-WB   | amrwb-7      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 23     |
| AMR-WB   | amrwb-8      |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 24     |
| AMR-WB   | amrwb        |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 7      |
| GSM      | gsm          |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 13     |

|                 |                         |            |       |      |      |      |      |      |    |
|-----------------|-------------------------|------------|-------|------|------|------|------|------|----|
| G723            | g723                    |            | 8000  | 20px | 20px | 20px | 20px | 20px | 7  |
| G726-16         | g726-16                 |            | 8000  | 20px | 20px | 20px | 20px | 20px | 16 |
| G726-24         | g726-24                 |            | 8000  | 20px | 20px | 20px | 20px | 20px | 24 |
| G726-32         | g726-32                 |            | 8000  | 20px | 20px | 20px | 20px | 20px | 32 |
| G726-40         | g726-40                 |            | 8000  | 20px | 20px | 20px | 20px | 20px | 40 |
| AAL2-G726-16    | aal2-g726-16            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 16 |
| AAL2-G726-24    | aal2-g726-24            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 24 |
| AAL2-G726-32    | aal2-g726-32            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 32 |
| AAL2-G726-40    | aal2-g726-40            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 40 |
| G729            | g729                    | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729            | g729-annexb=no          | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729            | g729-annexb=yes         | annexb=yes | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729            | g729-no-fmtp            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729A           | g729-annexb=no          | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729A           | g729-annexb=no          |            | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| ilbc            | ilbc-30                 | mode=30    | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| ilbc            | ilbc-20                 | mode=20    | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| CN              | cn                      |            | 8000  | 20px | 20px | 20px | 20px | 20px | 0  |
| CN              | cn-wb                   |            | 16000 | 20px | 20px | 20px | 20px | 20px | 0  |
| telephone-event | telephone-event         | 0-15       | 8000  | 20px | 20px | 20px | 20px | 20px | 0  |
| telephone-event | telephone-event-0-16    | 0-16       | 8000  | 20px | 20px | 20px | 20px | 20px | 0  |
| telephone-event | telephone-event-no-fmtp |            | 8000  | 20px | 20px | 20px | 20px | 20px | 0  |

**Default Codec List:** g722,pcmu,pcma,gsm,g723,g726-32,aal2-g726-32,g729,telephone-event

## Supported Codecs on D120

| SDP Name | Setting Name | Fmtp | Rate | Ptime 10ms | Ptime 20ms | Ptime 30ms | Ptime 40ms | Ptime 60ms | Bandwidth | Default Codec |
|----------|--------------|------|------|------------|------------|------------|------------|------------|-----------|---------------|
|----------|--------------|------|------|------------|------------|------------|------------|------------|-----------|---------------|

|                 |                         |            |       |      |      |      |      |      |    |      |   |
|-----------------|-------------------------|------------|-------|------|------|------|------|------|----|------|---|
| G722            | g722                    |            | 16000 | 20px | 20px | 20px | 20px | 20px | 64 | 20px | 1 |
| PCMU            | pcmu                    |            | 8000  | 20px | 20px | 20px | 20px | 20px | 64 | 20px | 1 |
| PCMA            | pcma                    |            | 8000  | 20px | 20px | 20px | 20px | 20px | 64 | 20px | 1 |
| GSM             | gsm                     |            | 8000  | 20px | 20px | 20px | 20px | 20px | 13 | 20px | 1 |
| G723            | g723                    |            | 8000  | 20px | 20px | 20px | 20px | 20px | 7  | 20px | 1 |
| G726-32         | g726-32                 |            | 8000  | 20px | 20px | 20px | 20px | 20px | 32 | 20px | 1 |
| AAL2-G726-32    | aal2-g726-32            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 32 | 20px | 1 |
| G729            | g729                    | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  | 20px | 1 |
| G729            | g729-annexb=no          | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  | 20px | 1 |
| G729            | g729-annexb=yes         | annexb=yes | 8000  | 20px | 20px | 20px | 20px | 20px | 8  | 20px | 1 |
| G729            | g729-no-fmtp            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 8  | 20px | 1 |
| G729A           | g729-annexb=no          | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  | 20px | 1 |
| G729A           | g729-annexb=no          |            | 8000  | 20px | 20px | 20px | 20px | 20px | 8  | 20px | 1 |
| CN              | cn                      |            | 8000  | 20px | 20px | 20px | 20px | 20px | 0  | 20px | 1 |
| CN              | cn-wb                   |            | 16000 | 20px | 20px | 20px | 20px | 20px | 0  | 20px | 1 |
| telephone-event | telephone-event         | 0-15       | 8000  | 20px | 20px | 20px | 20px | 20px | 0  | 20px | 1 |
| telephone-event | telephone-event-0-16    | 0-16       | 8000  | 20px | 20px | 20px | 20px | 20px | 0  | 20px | 1 |
| telephone-event | telephone-event-no-fmtp |            | 8000  | 20px | 20px | 20px | 20px | 20px | 0  | 20px | 1 |

**Default Codec List:** g722,pcmu,pcma,gsm,g723,g726-32,aal2-g726-32,g729,telephone-event

## Supported Codecs on D335, D717 and D735

| SDP Name | Setting Name | Fmtp                  | Rate  | Ptime 10ms | Ptime 20ms | Ptime 30ms | Ptime 40ms | Ptime 60ms | Bandwi |
|----------|--------------|-----------------------|-------|------------|------------|------------|------------|------------|--------|
| G722     | g722         |                       | 16000 | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| opus     | opus-wb      | maxplaybackrate=16000 | 48000 | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| opus     | opus-nb      | maxplaybackrate=8000  | 48000 | 20px       | 20px       | 20px       | 20px       | 20px       | 12     |
| opus     | opus         |                       | 48000 | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| PCMU     | pcmu         |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| PCMA     | pcma         |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 64     |
| GSM      | gsm          |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 13     |
| G723     | g723         |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 7      |
| G726-32  | g726-32      |                       | 8000  | 20px       | 20px       | 20px       | 20px       | 20px       | 32     |

|                 |                         |            |       |      |      |      |      |      |    |
|-----------------|-------------------------|------------|-------|------|------|------|------|------|----|
| AAL2-G726-32    | aal2-g726-32            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 32 |
| G729            | g729                    | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729            | g729-annexb=no          | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729            | g729-annexb=yes         | annexb=yes | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729            | g729-no-fmtp            |            | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729A           | g729-annexb=no          | annexb=no  | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| G729A           | g729-annexb=no          |            | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| ilbc            | ilbc-30                 | mode=30    | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| ilbc            | ilbc-20                 | mode=20    | 8000  | 20px | 20px | 20px | 20px | 20px | 8  |
| CN              | cn                      |            | 8000  | 20px | 20px | 20px | 20px | 20px | 0  |
| CN              | cn-wb                   |            | 16000 | 20px | 20px | 20px | 20px | 20px | 0  |
| telephone-event | telephone-event         | 0-15       | 8000  | 20px | 20px | 20px | 20px | 20px | 0  |
| telephone-event | telephone-event-0-16    | 0-16       | 8000  | 20px | 20px | 20px | 20px | 20px | 0  |
| telephone-event | telephone-event-no-fmtp |            | 8000  | 20px | 20px | 20px | 20px | 20px | 0  |