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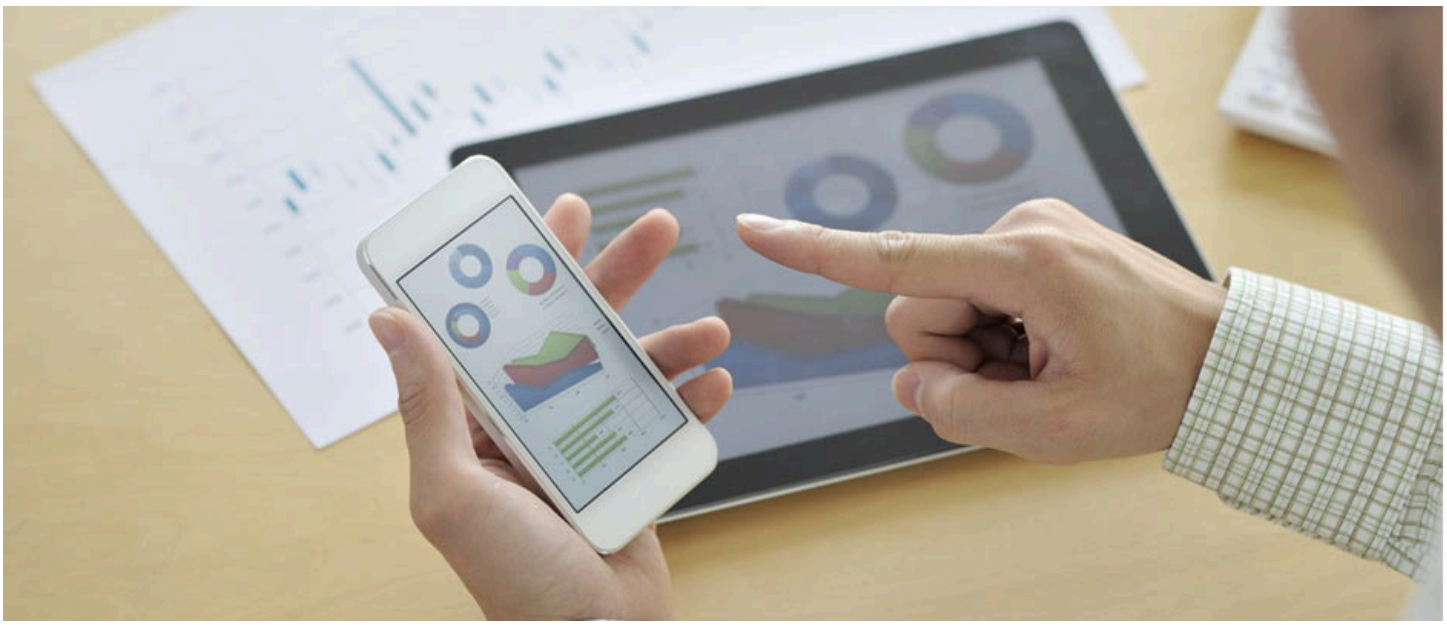

# WURFL VIDEO CODEC CAPABILITY INFERENCE VALUES

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scientiamobile

www.scientiamobile.com

Tel +1.703.310.6650

E-mail: sales@scientiamobile.com

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# WURFL Video Codec Capability Inference Values

## Inference Tables

| TABLE 1 (H.264 Levels) | | | |
|---|---|---|---|
| **Levels** | **Typical Picture Size** | **Typical frame rate** | **Maximum bit rate** |
| 1 | sQCIF<br><br>QCIF | sQCIF@30 fps<br>QCIF@15 fps | 64 Kbps |
| 1b | sQCIF<br>QCIF | sQCIF@30 fps<br>QCIF@15 fps | 128 Kbps |
| 1.1 | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30 fps<br>QCIF@15 fps<br>QVGA@10 fps<br>CIF@7.5 fps | 192 Kbps |
| 1.2 | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30 fps<br>QCIF@30 fps<br>QVGA@20 fps<br>CIF@15 fps | 384 Kbps |
| 1.3 | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30 fps<br>QCIF@30 fps<br>QVGA@30 fps<br>CIF@30 fps | 768 Kbps |
| 2 | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30 fps<br>QCIF@30 fps<br>QVGA@30 fps<br>CIF@30 fps | 2 Mbps |
| 2.1 | sQCIF<br>QCIF<br>QVGA<br>CIF½ D1 (352×576 PAL; 352×480 NTSC)<br>1/3 D1(480×576 PAL; 480×480 NTSC) | sQCIF@30 fps<br>QCIF@30 fps<br>QVGA@30 fps<br>CIF@30 fps<br>½ D1@30.0<br>1/3 D1@25.0 | 4 Mbps |
| 2.2 | sQCIF<br>QCIF<br>QVGA<br>CIF<br>½ D1 (352×576 PAL; 352×480 NTSC)<br>1/3 D1(480×576 PAL; 480×480 NTSC)<br>Full D1 (720×576 PAL; 720×480 NTSC) | 352×480@30.7<br>352×576@25.6<br>720×480@15.0<br>720×576@12.5 | 4 Mbps |
| 3 | | 352×480@61.4<br>352×576@51.1<br>720×480@30.0<br>720×576@25.0 | 10 Mbps |

| | | | |
|---|---|---|---|
| 3.1 | | 720×480@80.0<br>720×576@66.7<br>1280×720@30.0 | 14 Mbps |
| 3.2 | | 1,280×720@60.0<br>1,280×1,024@42.2 | 20 Mbps |
| 4 | | 1,280×720@68.3<br>1,920×1,080@30.1<br>2,048×1,024@30.0 | 20 Mbps |
| 4.1 | | 1,280×720@68.3<br>1,920×1,080@30.1<br>2,048×1,024@30.0 | 50 Mbps |
| 4.2 | | 1,920×1,080@64.0<br>2,048×1,080@60.0 | 50 Mbps |
| 5 | | 1,920×1,080@72.3<br>2,048×1,024@72.0<br>2,048×1,080@67.8<br>2,560×1,920@30.7<br>3,680×1,536@26.7 | 135 Mbps |
| 5.1 | | 1,920×1,080@120.5<br>4,096×2,048@30.0<br>4,096×2,304@26.7 | 240 Mbps |

**TABLE 2 (H.263 Levels)**

| Levels | Typical Picture Size | Typical frame rate | Maximum bit rate |
|---|---|---|---|
| 10 | QCIF/sQCIF | 15 | 64 Kbps |
| 20 | CIF, QVGA, QCIF, sQCIF | 15 (CIF) 30 (QVGA, QCIF, sQCIF) | 128 Kbps |
| 30 | CIF, QVGA, QCIF, sQCIF | 30 (=<CIF) | 384 Kbps |
| 40 | CIF, QVGA, QCIF, sQCIF | 30 (=<CIF) | 2 Mbps |
| 45 | QCIF/sQCIF | 15 | 128 Kbps |
| 50 | CIF | 50 (=<CIF) 60 (=<SIF 352×240) | 4 Mbps |

**TABLE 3 (MPEG-4 SP (Simple Profile) Levels)**

| Levels | Typical Picture Size | Typical Frame Rate | Maximum Bit Rate |
|---|---|---|---|
| 0 | QCIF | 15 | 64 Kbps |
| 0b | QCIF | 15 | 128 Kbps |
| 1 | sQCIF<br>QCIF | sQCIF@30<br>QCIF@15 | 64 Kbps |

| | | | |
|---|---|---|---|
| 2 | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30<br>QCIF@30<br>QVGA@15<br>CIF@15 | 128 Kbps |
| 3 | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30<br>QCIF@30<br>QVGA@30<br>CIF@30 | 384 Kbps |

**TABLE 4 (MPEG-4 ASP (Advanced Simple Profile) Levels)**

| Levels | Typical Picture Size | Typical frame rate | Maximum bit rate |
|---|---|---|---|
| 0 | sQCIF<br>QCIF | 30 | 128 Kbps |
| 1 | sQCIF<br>QCIF | 30 | 128 Kbps |
| 2 | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30<br>QCIF@30<br>QVGA@15<br>CIF@15 | 384 Kbps |
| 3 | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30<br>QCIF@30<br>QVGA@30<br>CIF@30 | 768 Kbps |
| 3.b | sQCIF<br>QCIF<br>QVGA<br>CIF | sQCIF@30<br>QCIF@30<br>QVGA@30<br>CIF@30 | 1500 Kbps |
| 4 | sQCIF<br>QCIF<br>QVGA<br>CIF½ D1 (352×576 PAL; 352×480 NTSC)<br>2CIF (704×288) | sQCIF@30QCIF@30QVGA@30CIF@30Half D1@302CIF@30 | 3000 Kbps |

**TABLE 5 (HEVC/H.265 Levels)**

| Level | Resolution@Framerate (Maximum decoded picture buffer[dpb] size) | |
|---|---|---|
| 1 | 128×96@33.7 (6)<br>176×144@15.0 (6) | |

| | | |
|---|---|---|
| 2 | 176×144@100.0 (16)<br>320×240@45.0 (6)<br>352×240@37.5 (6)<br>352×288@30.0 (6) | |
| 2.1 | 320×240@90.0 (12)<br>352×240@75.0 (12)<br>352×288@60.0 (12)<br>352×480@37.5 (6)<br>352×576@33.3 (6)<br>640×360@30.0 (6) | |
| 3 | 352×480@84.3 (12)<br>352×576@75.0 (12)<br>640×360@67.5 (12)<br>720×480@42.1 (8)<br>720×576@37.5 (8)<br>960×540@30.0 (6) | |
| 3.1 | 720×480@84.3 (12)<br>720×576@75.0 (12)<br>960×540@60.0 (8)<br>1280×720@33.7 (6) | |
| 4 | 1,280×720@68.0 (12)<br>1,920×1,080@32.0 (6)<br>2,048×1,080@30.0 (6) | |
| 4.1 | 1,280×720@136.0 (12)<br>1,920×1,080@64.0 (6)<br>2,048×1,080@60.0 (6) | |
| 5 | 1,920×1,080@128.0 (16)<br>2,048×1,080@120.0 (16)<br>3,840×2,160@32.0 (6)<br>4,096×2,160@30.0 (6) | |
| 5.1 | 1,920×1,080@256.0 (16)<br>2,048×1,080@240.0 (16)<br>3,840×2,160@64.0 (6)<br>4,096×2,160@60.0 (6) | |
| 5.2 | 1,920×1,080@300.0 (16)<br>2,048×1,080@300.0 (16)<br>3,840×2,160@128.0 (6)<br>4,096×2,160@120.0 (6) | |
| 6 | 3,840×2,160@128.0 (16)<br>4,096×2,160@120.0 (16)<br>7,680×4,320@32.0 (6)<br>8,192×4,320@30.0 (6) | |
| 6.1 | 3,840×2,160@256.0 (16)<br>4,096×2,160@240.0 (16)<br>7,680×4,320@64.0 (6)<br>8,192×4,320@60.0 (6) | |

| | | |
|---|---|---|
| 6.2 | 3,840×2,160@300.0 (16)<br>4,096×2,160@300.0 (16)<br>7,680×4,320@128.0 (6)<br>8,192×4,320@120.0 (6) | |