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## GVP HSG Pages

Media Control Platform / Media Server Capacity Testing (Virtual Servers)

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| Application Type                                                                                                | Hardware                       | Peak CAPS | Peak Ports | Comment                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Windows</b>                                                                                                  |                                |           |            |                                                                                                                                  |
| Video bridge transfer (H264 + AMR, 720P, 30fps, 1Mbps, level 3.1, 70 seconds duration)                          | 1x Six-Core Xeon X5675 3.06GHz | 6         | 400 calls  | Unidirectional rtp (video + audio) stream. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| Video transcoding with bridge transfer (H264 + AMR, 30fps, 1Mbps, level 3.1, 720P -> CIF, 70 seconds duration)  | 1x Six-Core Xeon X5675 3.06GHz | 0.11      | 8 calls    | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| Video transcoding with bridge transfer (H264 + AMR, 30fps, 1Mbps, level 3.1, 720P -> QCIF, 70 seconds duration) | 1x Six-Core Xeon X5675 3.06GHz | 0.21      | 16 calls   | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| Video bridge transfer (H264 + AMR, VGA, 30fps, 1Mbps, level 3.0, 70 seconds duration)                           | 1x Six-Core Xeon X5675 3.06GHz | 7.2       | 500 calls  | Unidirectional rtp (video + audio) stream. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| Video transcoding with bridge transfer (H264 + AMR, 30fps, 1Mbps, level 3.0, VGA -> CIF, 70 seconds duration)   | 1x Six-Core Xeon X5675 3.06GHz | 0.43      | 30 calls   | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| Video transcoding with bridge transfer (H264 +                                                                  | 1x Six-Core Xeon X5675 3.06GHz | 0.72      | 50 calls   | Unidirectional down scale transcoding.                                                                                           |

| Application Type                                                                                                 | Hardware                       | Peak CAPS | Peak Ports | Comment                                                                                                                          |
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| AMR, 30fps, 1Mbps, level 3.0, VGA -> QCIF, 70 seconds duration)                                                  |                                |           |            | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.                                            |
| Video bridge transfer (H264 + AMR, CIF, 30fps, 256Kbps, level 2.0, 70 seconds duration)                          | 1x Six-Core Xeon X5675 3.06GHz | 11.3      | 800 calls  | Unidirectional rtp (video + audio) stream. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| Video transcoding with bridge transfer (H264 + AMR, 30fps, 256Kbps, level 2.0, CIF -> QCIF, 70 seconds duration) | 1x Six-Core Xeon X5675 3.06GHz | 1.43      | 100 calls  | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| Video bridge transfer (H264 + AMR, VGA, 60fps, 1Mbps, level 3.0, 70 seconds duration)                            | 1x Six-Core Xeon X5675 3.06GHz | 4.3       | 300 calls  | Unidirectional rtp (video + audio) stream. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| Video bridge transfer (H264 + AMR, VGA, 60fps, 1Mbps, level 3.1, 70 seconds duration)                            | 1x Six-Core Xeon X5675 3.06GHz | 6.43      | 450 calls  | Unidirectional rtp (video + audio) stream. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| Video transcoding with bridge transfer (H264 + AMR, VGA 1Mbps, level 3.1, 60fps -> 30fps, 70 seconds duration)   | 1x Six-Core Xeon X5675 3.06GHz | 0.43      | 30 calls   | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| Video transcoding with bridge transfer (H264 + AMR, VGA, 1Mbps, level 3.1, 60fps -> 15fps, 70 seconds duration)  | 1x Six-Core Xeon X5675 3.06GHz | 0.13      | 9 calls    | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |

| Application Type                                                                                               | Hardware                       | Peak CAPS | Peak Ports | Comment                                                                                                                          |
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| Video bridge transfer (H264 + AMR, VGA, 30fps, 1Mbps, level 3.0, 70 seconds duration)                          | 1x Six-Core Xeon X5675 3.06GHz | 6         | 420 calls  | Unidirectional rtp (video + audio) stream. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| Video transcoding with bridge transfer (H264 + AMR, VGA 1Mbps, level 3.0, 30fps -> 15fps, 70 seconds duration) | 1x Six-Core Xeon X5675 3.06GHz | 0.34      | 24 calls   | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| Video transcoding with bridge transfer (H264 + AMR, CIF, 30fps, 1.5Mbps -> 500Kbps, 70 seconds duration)       | 1x Six-Core Xeon X5675 3.06GHz | 0.5       | 35 calls   | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| Video transcoding with bridge transfer (H264 + AMR, CIF, 30fps, 1Mbps -> 192Kbps, 70 seconds duration)         | 1x Six-Core Xeon X5675 3.06GHz | 1.12      | 80 calls   | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| Video transcoding with bridge transfer (H264 + AMR, CIF, 30fps, 500Kbps -> 192Kbps, 70 seconds duration)       | 1x Six-Core Xeon X5675 3.06GHz | 2         | 140 calls  | Unidirectional down scale transcoding. Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.     |
| MSML CPA Answer Machine (~12.8 seconds duration)                                                               | 2x Six-Core Xeon X5675 3.06GHz | 150       | n/a        | MSML CPA only. Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.                             |
| MSML CPA Busy Machine (~7.7 seconds duration)                                                                  | 2x Six-Core Xeon X5675 3.06GHz | 120       | n/a        | MSML CPA only. Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.                             |

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| MSML CPA Fax Machine (6.3 seconds duration)                                                                    | 2x Six-Core Xeon X5675 3.06GHz  | 140       | n/a        | MSML CPA only. Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML CPA Human Machine (7.8 seconds duration)                                                                  | 2x Six-Core Xeon X5675 3.06GHz  | 170       | n/a        | MSML CPA only. Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML CPA SIT VC Machine (2.3 seconds duration)                                                                 | 2x Six-Core Xeon X5675 3.06GHz  | 130       | n/a        | MSML CPA only. Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement (Codec G711, 120 seconds duration)                                                      | 2x Quad-Core Xeon E5620 2.40GHz | 50        | 6000 calls | Tested on 4 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.                |
| MSML Play Announcement, (MP3, Any KHz, Any Kb, Cache enabled, Negotiated codec G711, 120 seconds duration)     | 2x Hex-Core Xeon X5675 3.06GHz  | 60        | 7200 calls | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.                |
| MSML Play Announcement, (MP3, 320Kbit, 44.1KHz, Cache disabled, Negotiated codec: G.711, 120 seconds duration) | 2x Hex-Core Xeon X5675 3.06GHz  | 18        | 2160 calls | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.                |
| MSML Play Announcement (MP3, 92Kbit, 32KHz, Cache disabled, Negotiated codec: G.711, 120 seconds duration)     | 2x Hex-Core Xeon X5675 3.06GHz  | 25        | 3000 calls | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.                |
| MSML Play Announcement (MP3, 92Kbit, 32KHz Negotiated codec: G.711, 120 seconds duration)                      | 1x Six-Core Xeon X5670 2.93GHz  | 13        | 1560 calls | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM.                |

| Application Type                                                                              | Hardware                       | Peak CAPS | Peak Ports | Comment                                                                               |
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| seconds duration)                                                                             |                                |           |            |                                                                                       |
| MSML Play Announcement (MP3, 320Kbit, 44.1KHz, Negotiated codec: G.711, 120 seconds duration) | 1x Six-Core Xeon X5670 2.93GHz | 12        | 1440 calls | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement (Codec H263 and AMR, CIF, 128Kbps 10fps, 60 seconds duration)          | 1x Six-Core Xeon X5670 2.93GHz | 25        | 1500 calls | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement (Codec AMR and H263 CIF, 512Kbps 30fps, 60 seconds duration)           | 1x Six-Core Xeon X5670 2.93GHz | 8.5       | 500 calls  | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement (Codec H263 and AMR, 4CIF, 512Kbps 10fps, 60 seconds duration)         | 1x Six-Core Xeon X5670 2.93GHz | 23        | 1380 calls | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement (Codec H263 and AMR, 4CIF, 2Mbps 30fps, 60 seconds duration)           | 1x Six-Core Xeon X5670 2.93GHz | 8         | 480 calls  | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement (Codec H264 and AMR, CIF, 128Kbps 10fps, 60 seconds duration)          | 1x Six-Core Xeon X5670 2.93GHz | 25        | 1500 calls | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement (Codec H264 and AMR, CIF, 256Kbps 15fps, 60 seconds duration)          | 1x Six-Core Xeon X5670 2.93GHz | 17        | 1000 calls | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement (Codec H264 and AMR, CIF, 512Kbps 30fps, 60 seconds duration)          | 1x Six-Core Xeon X5670 2.93GHz | 8.5       | 500 calls  | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play                                                                                     | 1x Six-Core Xeon               | 22        | 1300 calls | Tested on 3 VMs of                                                                    |

| Application Type                                                                                                                                    | Hardware                       | Peak CAPS | Peak Ports | Comment                                                                                     |
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| Announcement<br>(Codec H264 and AMR, 4CIF, 512Kbps 10fps, 60 seconds duration)                                                                      | X5670 2.93GHz                  |           |            | EXSi 5.0, Guest OS Windows 2008<br>Server R2 x64 SP1.<br>One MCP per VM.                    |
| MSML Play Announcement<br>(Codec H264 and AMR, 4CIF, 1Mbps 15fps, 60 seconds duration)                                                              | 1x Six-Core Xeon X5670 2.93GHz | 16        | 960 calls  | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008<br>Server R2 x64 SP1.<br>One MCP per VM. |
| MSML Play Announcement<br>(Codec H264 and AMR, 4CIF, 2Mbps 30fps, 60 seconds duration)                                                              | 1x Six-Core Xeon X5670 2.93GHz | 7.5       | 450 calls  | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008<br>Server R2 x64 SP1.<br>One MCP per VM. |
| MSML Play Announcement<br>(Codec H264 and AMR, 720P, 1Mbps 10fps, 60 seconds duration)                                                              | 1x Six-Core Xeon X5670 2.93GHz | 19        | 1100 calls | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008<br>Server R2 x64 SP1.<br>One MCP per VM. |
| MSML Play Announcement<br>(Codec H264 and AMR, 4CIF, 2Mbps 15fps, 60 seconds duration)                                                              | 1x Six-Core Xeon X5670 2.93GHz | 9         | 540 calls  | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008<br>Server R2 x64 SP1.<br>One MCP per VM. |
| MSML Play Announcement<br>(Codec H264 and AMR, 4CIF, 4Mbps 30fps, 60 seconds duration)                                                              | 1x Six-Core Xeon X5670 2.93GHz | 4         | 240 calls  | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008<br>Server R2 x64 SP1.<br>One MCP per VM. |
| MSML Play Announcement,<br>(Codec H264 and AMR, 720P, 4Mbps 30fps, 60 seconds duration, no transcoding)                                             | 2x Hex-Core Xeon X5675 3.06GHz | 2.5       | 150 calls  | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008<br>Server R2 x64 SP1.<br>One MCP per VM. |
| MSML Play Announcement,<br>(Codec H264 and AMR, 3gp file 720P, 4Mbps 30fps, high profile level 3, transcoding, cache disabled, 60 seconds duration) | 2x Hex-Core Xeon X5675 3.06GHz | 0.2       | 12 calls   | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008<br>Server R2 x64 SP1.<br>One MCP per VM. |

| Application Type                                                                                                                                                            | Hardware                        | Peak CAPS | Peak Ports                                | Comment                                                                               |
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| MSML Play Announcement, (Codec H264 and AMR, 3gp file 720P, 4Mbps 30fps, high profile level 3, transcoding to main profile level 2 CIF, cache enabled, 60 seconds duration) | 2x Hex-Core Xeon X5675 3.06GHz  | 16.6      | 1000 calls                                | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement, (Codec VP8 and G.711, avi file, VGA, 30fps 60 seconds duration, non-transcoding)                                                                    | 2x Hex-Core Xeon X5675 3.06GHz  | 20        | 2400 calls                                | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement, (Codec VP8 and G.711, avi file, CIF, 30fps 60 seconds duration, non-transcoding)                                                                    | 2x Hex-Core Xeon X5675 3.06GHz  | 30        | 3600 calls                                | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play Announcement, (Codec VP8 and G.711, avi file, QCIF, 20fps 60 seconds duration, non-transcoding)                                                                   | 2x Hex-Core Xeon X5675 3.06GHz  | 40        | 4800 calls                                | Tested on 6 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Play and Digit Connect (Codec G711 and SIP INFO Digit, 34 seconds duration)                                                                                            | 1x Six-Core Xeon X5670 2.93GHz  | 50        | 1700 calls                                | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Record (MP3, 96Kbit, 32KHz, 120 seconds duration)                                                                                                                      | 1x Six-Core Xeon X5670 2.93GHz  | 3         | 360 calls                                 | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Record (MP3, 320Kbit, 48KHz, 120 seconds duration)                                                                                                                     | 1x Hex-Core Xeon X5670 2.93GHz  | 2         | 240 calls                                 | Tested on 3 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1. One MCP per VM. |
| MSML Conference (32 participants per conference, all speakers. Each                                                                                                         | 2x Quad-Core Xeon E5620 2.40GHz | 2.6       | 768 participants (24 conference sessions) | Tested on 4 VMs of EXSi 5.0, Guest OS Windows 2008 Server R2 x64 SP1.                 |

| Application Type                                                                                               | Hardware                       | Peak CAPS | Peak Ports | Comment                                                                                                                |
|----------------------------------------------------------------------------------------------------------------|--------------------------------|-----------|------------|------------------------------------------------------------------------------------------------------------------------|
| participant stays and speaks (300 secs in the conference. Codec G.711)                                         |                                |           |            | One MCP per VM.                                                                                                        |
| Application Type                                                                                               | Hardware                       | Peak CAPS | Peak Ports | Comment                                                                                                                |
| <b>Linux</b>                                                                                                   |                                |           |            |                                                                                                                        |
| MSML Play Announcement, (Codec G711, 120 seconds duration)                                                     | 2x Hex-Core Xeon X5675 3.06GHz | 60        | 7200 calls | Tested on 6 VMs of EXSi 5.0, Guest OS RHEL 5.8 x64. One MCP per VM.                                                    |
| MSML Play Announcement, (Codec G711, 120 seconds duration)                                                     | 2x Hex-Core Xeon X5675 3.06GHz | 24        | 2880 calls | Tested on 6 VMs of EXSi 5.0, Guest OS RHEL 6.4 x64. One MCP per VM. Play cache enabled as default. GVP 8.1.7 or later. |
| MSML Play Announcement, (Codec G711, 120 seconds duration)                                                     | 2x Hex-Core Xeon X5675 3.06GHz | 42        | 5040 calls | Tested on 6 VMs of EXSi 5.0, Guest OS RHEL 6.4 x64. One MCP per VM. Play cache disabled. GVP 8.1.7 or later.           |
| MSML Play Announcement, (MP3, Any KHz, Any Kb, Cache enabled, Negotiated codec G711, 120 seconds duration)     | 2x Hex-Core Xeon X5675 3.06GHz | 60        | 7200 calls | Tested on 6 VMs of EXSi 5.0, Guest OS RHEL 5.8 x64. One MCP per VM.                                                    |
| MSML Play Announcement, (MP3, 320Kbit, 44.1KHz, Cache disabled, Negotiated codec: G.711, 120 seconds duration) | 2x Hex-Core Xeon X5675 3.06GHz | 16        | 1920 calls | Tested on 6 VMs of EXSi 5.0, Guest OS RHEL 5.8 x64. One MCP per VM.                                                    |
| MSML Play Announcement (MP3, 92Kbit, 32KHz, Cache disabled, Negotiated codec: G.711, 120 seconds duration)     | 2x Hex-Core Xeon X5675 3.06GHz | 23        | 2760 calls | Tested on 6 VMs of EXSi 5.0, Guest OS RHEL 5.8 x64. One MCP per VM.                                                    |