GVP HSG Pages

Media Control Platform Capacity Testing (Physical Servers Running Windows)

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This table does not focus on GVP as a whole, but rather shows the impact of media services (announcements, call parking, bridging, conferencing, transcoding and video) on the performance of the Media Control Platform (MCP).

Application Type	Hardware	Peak CAPS	Peak Ports	Comment
Audio bridge transfer G711u <-> G711u (baseline ~117 seconds duration)	Quad-Core Xenon 5355 2.66GHz	6.8	800	Bi-directional audio streams. Tested on Windows 2003.
Transcoding with bridge transfer G711u <-> AMR (~117 seconds duration)	Quad-Core Xenon 5355 2.66GHz	2.6	300	Bi-directional transcoding. Tested on Windows 2003.
Transcoding with bridge transfer G711u <-> AMR-WB (~117 seconds duration)	Quad-Core Xenon 5355 2.66GHz	2.0	230	Bi-directional transcoding. Tested on Windows 2003.
Transcoding with bridge transfer G711u <-> G722 (~117 seconds duration)	Quad-Core Xenon 5355 2.66GHz	3.0	350	Bi-directional transcoding. Tested on Windows 2003.
Transcoding with bridge transfer G711u <-> G726 (~117 seconds duration)	Quad-Core Xenon 5355 2.66GHz	2.6	300	Bi-directional transcoding. Tested on Windows 2003.
Transcoding with bridge transfer G711u <-> G729 (~117 seconds duration)	Quad-Core Xenon 5355 2.66GHz	3.0	350	Bi-directional transcoding. Tested on Windows 2003.
SRTP with bridge transfer – G.711u (~67 seconds duration)	Quad-Core Xenon 5355 2.66GHz	18	1200	The capacity is the same for RTP and SRTP of both encryption and decryption, one direction only of audio stream. Tested on Windows 2003.
MSML CPD + VXML	Quad-Core Xenon	30	n/a	CPD enabled

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dialog (helloworld) (8 seconds overall call duration which includes 2.5 seconds CPD time)	5355 2.66GHz			within MSML which also invoke a VXML dialog using default helloworld page. VXML dialog will start after CPD result returned the result of human successfully.
Netann announcement – 3 seconds audio	Quad-Core Xenon 5355 2.66GHz	120 (preferred) 200 (peak)	500 (preferred) 1100 (peak)	Preferred – with call setup + call tear down latency < 1sec (500ms each) Peak – ignore call setup/tear down delay
Netann announcement – 10 seconds audio	Quad-Core Xenon 5355 2.66GHz	90 (preferred) 150 (peak)	900 (preferred) 1500 (peak)	Preferred – with call setup + call tear down latency < 1sec (500ms each) Peak – ignore call setup/tear down delay
Netann Play Treatment - G.711u, G.729, GSM (~60 seconds audio)	Quad-Core Xenon 5355 2.66GHz	30	1800	No transcoding. The capacity is the same for G.711u, G.729, or GSM. Tested on Windows 2003.
Netann 2 party Call Recording - G.711u (~60 seconds duration)	Quad-Core Xenon 5355 2.66GHz	12	720 call legs (360 recording sessions)	Tested on Windows 2003.
Netann 2 party Call Recording - G.729 (~60 seconds duration)	Quad-Core Xenon 5355 2.66GHz	9	540 call legs (270 recording sessions)	Tested on Windows 2003.
Netann 2 party Call Recording - GSM (~60 seconds duration)	Quad-Core Xenon 5355 2.66GHz	8	480 call legs (240 recording sessions)	Tested on Windows 2003.
MSML Conference (all participants using the same codec) – G711u, G.729, GSM (3-party; ~60 seconds duration)	Quad-Core Xenon 5355 2.66GHz	6	360 participants (120 conference sessions)	The capacity is the same for G.711u, G.729, or GSM. Tested on Windows 2003.
MSML Conference (different codecs	Quad-Core Xenon 5355 2.66GHz	6	360 participants (120 conference	Tested on Windows 2003.

Application Type	Hardware	Peak CAPS	Peak Ports	Comment
between participants) – G711 and G.729 (3-party; ~60 seconds duration)			sessions)	
MSML Conference (different codecs between participants) – G711 and GSM (3-party; ~60 seconds duration)	Quad-Core Xenon 5355 2.66GHz	6	360 participants (120 conference sessions)	Tested on Windows 2003.
MSML Conference (3-party conference; all participants using the same code – G711, HR Timer disabled ~60 seconds duration)	1x Hex-Core Xeon X5670 2.93GHz	6	360 participants (120 conference sessions)	Tested on Windows 2008 R2 x64 SP1 with HR Timer disabled in 8.1.6.
MSML Conference (3-party conference; all participants using the same code – G711, HR Timer enabled ~60 seconds duration)	1x Hex-Core Xeon X5670 2.93GHz	5	300 participants (100 conference sessions)	Tested on Windows 2008 R2 x64 SP1 with HR Timer enabled in 8.1.6.
MSML Conference (One giant conference with 3 speakers; all other participants are listeners. Each participant stays 1800 secs (30 mins) in the conference. Codec G.711)	1x Six-Core Xeon X5675 3.06GHz	0.72	1300 participants (1 conference session)	Tested on Windows 2008 Server R2 x64 SP1 with only one MCP instance. Threaded outputs enabled (`conference.threadedoutputs = true`).
MSML Conference (One giant conference with 3 speakers; all other participants are listeners. Each participant stays 1800 secs (30 mins) in the conference. Codec H263 + G.711)	1x Six-Core Xeon X5675 3.06GHz	0.61	1100 participants (1 conference session)	Tested on Windows 2008 Server R2 x64 SP1 with only one MCP instance. Threaded outputs enabled (`conference.threadedoutputs = true`).
MSML Conference (One giant conference with 3	1x Six-Core Xeon X5670 2.93GHz	0.72	1300 participants (1 conference session)	Tested on Windows 2008 Server R2 x64 SP1 with only

Application Type	Hardware	Peak CAPS	Peak Ports	Comment
speakers; all other participants are listeners. Each participant stays 1800 secs (30 mins) in the conference. Codec G.711, HR Timer disabled & gain control enabled)				one MCP instance. Threaded outputs enabled (conference.threadedoutputs = true).
MSML Conference (One giant conference with 3 speakers; all other participants are listeners. Each participant stays 1800 secs (30 mins) in the conference. Codec G.711, HR Timer enabled & gain control enabled)	1x Six-Core Xeon X5670 2.93GHz	0.56	1000 participants (1 conference session)	Tested on Windows 2008 Server R2 x64 SP1 with only one MCP instance. Threaded outputs enabled (conference.threadedoutputs = true).
MSML Conference (One giant conference with 3 speakers; all other participants are listeners. Each participant stays 1800 secs (30 mins) in the conference. Codec G.711, HR Timer enabled & gain control disabled)	1x Six-Core Xeon X5670 2.93GHz	0.78	1400 participants (1 conference session)	Tested on Windows 2008 Server R2 x64 SP1 with only one MCP instance. Threaded outputs enabled (conference.threadedoutputs = true).
MSML Conference (One giant conference with 3 speakers; all other participants are listeners. Each participant stays 1800 secs (30 mins) in the conference. Codec G.711, HR Timer disabled & gain control disabled)	1x Six-Core Xeon X5670 2.93GHz	0.99	1800 participants (1 conference session)	Tested on Windows 2008 Server R2 x64 SP1 with only one MCP instance. Threaded outputs enabled (conference.threadedoutputs = true).
Note:				

Application Type	Hardware	Peak CAPS	Peak Ports	Comment

- *Preferred* means the highest capacity that the system can sustain while maintaining optimal user experience.

- *Peak* means the highest capacity that the system can sustain regardless of the user experience.