GVP HSG Pages

Single Server Test Cases

12/14/2025

Single Server Test Cases

Single-server performance testing was conducted on hardware slightly different from the suggested hardware requirements. The servers used for the performance test cases had the following hardware specifications: 1x Intel Xeon 5160, with a 3.0 GHz CPU, 8GB of RAM, and a 73GB SAS HD.

The following software components were installed:

- Windows 2008 Enterprise Server, SP2, x86 or Windows 2008 Enterprise Server R2, x64
- Microsoft SQL Server 2008 Standard version
- Microsoft Internet Information Server (IIS) configured as a Web Application Server (WAS)
- Management Framework 8.0.3 (Database Server, Configuration Server, Solution Control Server, Message Server)
- Genesys Voice Platform 8.1.3 or 8.1.4 (Resource Manager, Media Control Platform [Squid], Reporting Server)
- SNMP Master Agent 8.0.2
- Genesys Administrator 8.0.3
- SIP Server 8.0.4
- An ASR/TTS Server (Nuance Recognizer 9.0.12, RealSpeak 4.5, Nuance Speech Server 5.0.9)

The following test results indicate higher performance metrics than GVP 7.6 with 48 ports has achieved:

- 600 ports - VoiceXML_App1 (DTMF)
- 100 ports - VoiceXML_App2 (ASR with MRCP v1)
- 160 ports - VoiceXML_App3 (AS ASR/TTS with MRCP v1)
- 120 ports - VoiceXML_App3 (AS ASR/TTS with MRCP v2)

Figure: Port Density Versus CPU Usage (Single Server) depicts the trend of overall CPU usage versus ports density of the VoiceXML_App1 profile.
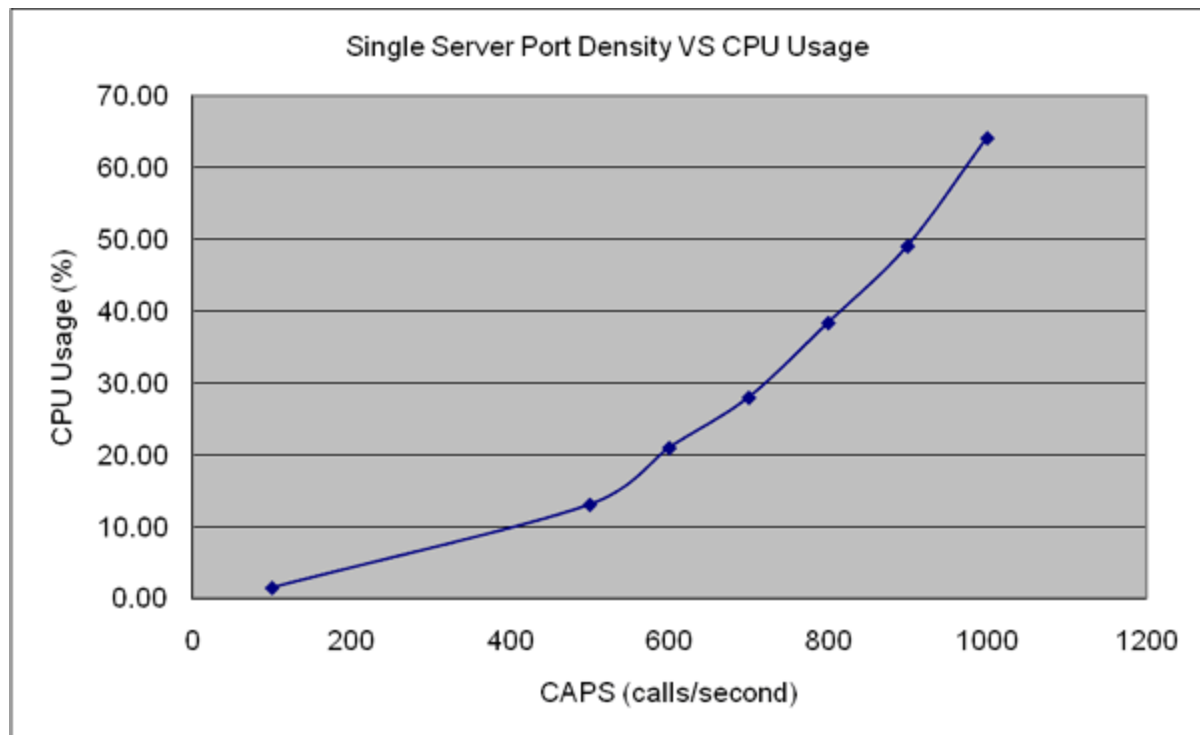
Figure: Port Density Versus CPU Usage (Single Server)

Figure: Call Setup Latency Versus Port Density (MCP only) depicts call setup latency versus concurrent calls in a Media Control Platform only configuration.
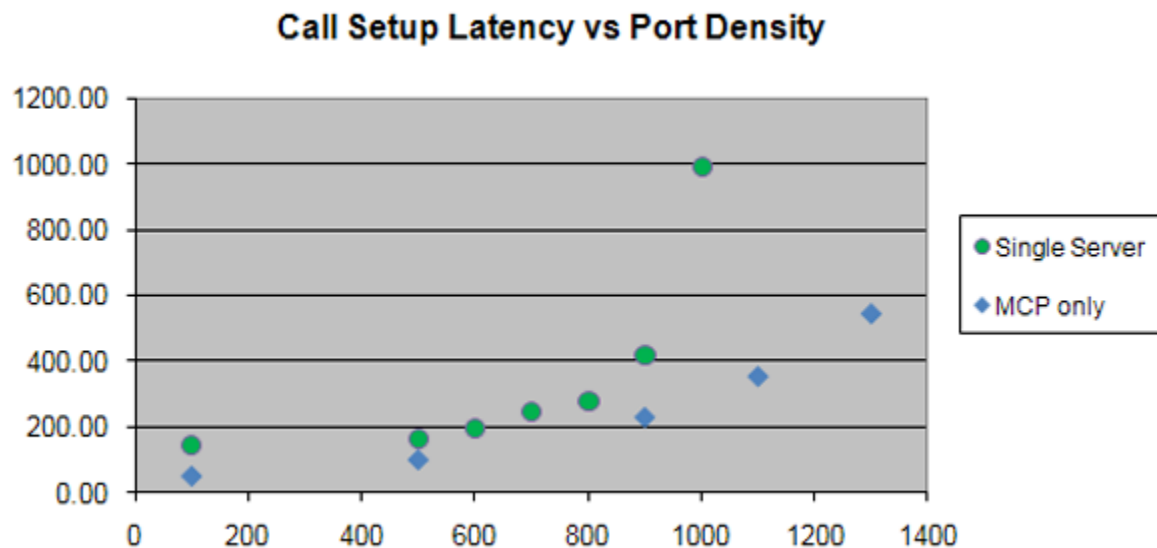

Figure: Call Setup Latency Versus Port Density (MCP only)

In this test case, the latency aligns with the Media Control Platform only configuration with fewer ports configured. Here, the latency is slightly than higher, because in a single-server configuration,

the Resource Manager and SIP Server are configured before Media Control Platform. Latency jumps beyond peak capacity after 800 ports.

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