GVP HSG Pages

Resource Manager and MRCP Proxy Capacity Testing

4/26/2025

Resource Manager and MRCP Proxy Capacity Testing

Table: Resource Manager and MRCP Proxy Capacity Testing describes the capacity testing for overall system performance when the Resource Manager and MRCP Proxy (Windows only) are tested with multiple MCP instances.

Table: Resource Manager and MRCP Proxy Capacity Testing

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
Resource Manager (Windows)				
SIP Call (Resource Manager performance)	2x Core 2 Quad Xeon x5355, 2.66 GHz	800	Any number	Using both TCP and UDP. Results occur regardless of the port density or the type of calls routed. Multiple MCP instances are required to achieve the peak CAPS. **Reporting Server configured in one of two ways:** • Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
SIP Call (Resource Manager performance with 1000 tenants configured.)	2x Core 2 Quad Xeon x5335, 2.66 GHz	600	Any number	Results occur regardless of the port density and the type of calls being routed. To achieve the peak CAPS, multiple Media Control Platforms might be required. **Reporting Server configured in one of two ways:** • Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				Capacity Testing. • Disabled.
SIP Call (Resource Manager performance with MSML embedded in SIP INFO messages.)	2x Core 2 Quad Xeon x5335, 2.66 GHz	300	Any number	To achieve the peak CAPS, multiple Media Control Platforms might be required. **Reporting Server configured in one of two ways:** • Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
SIP Call (Resource Manager performance)	4 Virtual Cores, Intel Xeon E5-2695, 2.40 GHz	800	Any number	Tested on TLS only. Results occur regardless of the port density or the type of

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				calls routed. Multiple MCP instances are required to achieve the peak CAPS. **Reporting Server configured in one of two ways:** • Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
SIP Call (Resource Manager with Active - Active HA Pair performance)	4 Virtual Cores, Intel Xeon E5-2695, 2.40 GHz	500+500=1000	Any number	Tested on UDP only. Results occur regardless of the port density or the type of calls routed. Multiple MCP instances are required to achieve the peak CAPS. **Reporting Server configured in one of two ways:**

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				• Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
SIP Call (Resource Manager with Active - Active HA Pair performance)	4 Virtual Cores, Intel Xeon E5-2695, 2.40 GHz	400+400=800	Any number	Tested on TCP only. Results occur regardless of the port density or the type of calls routed. Multiple MCP instances are required to achieve the peak CAPS. **Reporting Server configured in one of two ways:** • Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
Resource Manager (Linux)				
SIP Call (Resource Manager performance)	2x Core 2 Quad Xeon x5355, 2.66 GHz	800	Any number	Using both TCP and UDP. Results occur regardless of the port density or the type of calls routed. Multiple Media Control Platform instances are required to achieve the peak CAPS. **Reporting Server configured in one of two ways:** • Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
SIP Call (Resource Manager performance)	2x Core 2 Quad Xeon x5355, 2.66 GHz	600	Any number	In this scenario, 100K of DID numbers are configured and mapped to 262 IVR applications, and defined without wild cards or ranges. In other words, ordinary one-to-one mappings. Results occur regardless of the port density or the type of calls routed. Multiple Media Control Platforms required to achieve the peak CAPS. **Reporting Server configured in one of two ways:**

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				• Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
SIP Call (Resource Manager performance)	2x Core 2 Quad Xeon x5355, 2.66 GHz	800	Any number	In this scenario, 1 million DID numbers are configured and mapped to 262 IVR applications, and defined in a multi-tenant environment (32 tenants with 30~35K of DIDs per tenant), without wildcards or ranges—In other words, simple one-to-one mappings. Results occurs regardless of the

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				port density or the type of calls routed. Multiple Media Control Platforms required to achieve the peak CAPS. **Reporting Server disabled** (due to the fact that the Reporting Server is unable to support 1 million DIDs).
SIP Call (Resource Manager performance with MSML embedded in SIP INFO messages.)	2x Core 2 Quad Xeon x5355, 2.66 GHz	350	Any number	Multiple Media Control Platforms required to achieve the peak CAPS. **Reporting Server configured in one of two ways:** • Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				Capacity Testing. • Disabled
SIP Call (Resource Manager performance)	2x Core 2 Quad Xeon 5355, 2.66 GHz	200	Any number	Tested on UDP only on RHEL 6.4 x64. GVP 8.1.7 or later. Results occur regardless of the port density or the type of calls routed. Multiple MCPs are required to achieve the peak CAPS. **Reporting Server Configured in one of two ways:** • Enabled, but No-DB mode—Without the DB (all data dropped), Reporting Server can afford much higher capacity. • Disabled With Reporting Server and DB enabled the peak CAPS bottleneck will be due to RS (see below).
SIP Call (Resource Manager performance)	4 Virtual Cores, Intel Xeon E5-2695, 2.40 GHz	800	Any number	Tested on TLS only. Results occur regardless of the port density or the type of calls routed. Multiple MCP instances are required to achieve the peak CAPS. **Reporting Server configured in one of two ways:** • Enabled and in No-DB

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities. If both Reporting Server and the DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
SIP Call (Resource Manager with Active - Active HA Pair performance)	4 Virtual Cores, Intel Xeon E5-2695, 2.40 GHz	400+400=800	Any number	Using both TCP and UDP. Results occur regardless of the port density or the type of calls routed. Multiple MCP instances are required to achieve the peak CAPS. **Reporting Server configured in one of two ways:** • Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher

Application Type	Hardware	Peak CAPS	Peak Ports	Comments
				capacities. If both Reporting Server and DB are enabled, a peak CAPS bottleneck would occur. See SIP Call (Reporting Server in partitioning mode with Microsoft SQL 2008 Enterprise Server) in Table: Reporting Server Capacity Testing. • Disabled
MRCP Proxy (Windows)				
MRCPv1 requests(MRCP Proxy performance)	2x Core 2 Quad Xeon x5355, 2.66 GHz	1600	N/A	Tested with simulated MRCP servers and clients; calculation is based on MRCP sessions. Tested on Windows 2008 R2.