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## GVP HSG Pages

Resource Manager and MRCP Proxy Capacity Testing

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# 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<br>(Resource Manager performance) | 2x Core 2 Quad Xeon x5355, 2.66 GHz | 800       | Any number | Using both TCP and UDP.<br>Results occur regardless of the port density or the type of calls routed.<br>Multiple MCP instances are required to achieve the peak CAPS.<br><b>Reporting Server configured in one of two ways:</b> <ul style="list-style-type: none"><li>• 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</li></ul> |

| Application Type                                                         | Hardware                            | Peak CAPS | Peak Ports | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------|-------------------------------------|-----------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                          |                                     |           |            | 2008 Enterprise Server) in <a href="#">Table: Reporting Server Capacity Testing</a> . <ul style="list-style-type: none"><li>• Disabled</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SIP Call<br>(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.<br><b>Reporting Server configured in one of two ways:</b> <ul style="list-style-type: none"><li>• 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 <a href="#">Table: Reporting Server</a></li></ul> |

| Application Type                                                                               | Hardware                                             | Peak CAPS  | Peak Ports        | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------|------------------------------------------------------|------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                |                                                      |            |                   | <p><b>Capacity Testing.</b></p> <ul style="list-style-type: none"> <li>Disabled.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>SIP Call</p> <p>(Resource Manager performance with MSML embedded in SIP INFO messages.)</p> | <p>2x Core 2 Quad Xeon x5335, 2.66 GHz</p>           | <p>300</p> | <p>Any number</p> | <p>To achieve the peak CAPS, multiple Media Control Platforms might be required.</p> <p><b>Reporting Server configured in one of two ways:</b></p> <ul style="list-style-type: none"> <li>Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities.</li> </ul> <p>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 <a href="#">Table: Reporting Server Capacity Testing.</a></p> <ul style="list-style-type: none"> <li>Disabled</li> </ul> |
| <p>SIP Call</p> <p>(Resource Manager performance)</p>                                          | <p>4 Virtual Cores, Intel Xeon E5-2695, 2.40 GHz</p> | <p>800</p> | <p>Any number</p> | <p>Tested on TLS only.</p> <p>Results occur regardless of the port density or the type of</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Application Type                                                                   | Hardware                                             | Peak CAPS           | Peak Ports        | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------|---------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    |                                                      |                     |                   | <p>calls routed. Multiple MCP instances are required to achieve the peak CAPS.</p> <p><b>Reporting Server configured in one of two ways:</b></p> <ul style="list-style-type: none"> <li>Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities.</li> </ul> <p>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 <a href="#">Table: Reporting Server Capacity Testing</a>.</p> <ul style="list-style-type: none"> <li>Disabled</li> </ul> |
| <p>SIP Call</p> <p>(Resource Manager with Active - Active HA Pair performance)</p> | <p>4 Virtual Cores, Intel Xeon E5-2695, 2.40 GHz</p> | <p>500+500=1000</p> | <p>Any number</p> | <p>Tested on UDP only.</p> <p>Results occur regardless of the port density or the type of calls routed. Multiple MCP instances are required to achieve the peak CAPS.</p> <p><b>Reporting Server configured in one of two ways:</b></p>                                                                                                                                                                                                                                                                                                                                                                                                   |

| Application Type                                                        | Hardware                                         | Peak CAPS     | Peak Ports | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------|--------------------------------------------------|---------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                         |                                                  |               |            | <ul style="list-style-type: none"> <li>Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities.</li> </ul> <p>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 <a href="#">Table: Reporting Server Capacity Testing</a>.</p> <ul style="list-style-type: none"> <li>Disabled</li> </ul> |
| SIP Call<br>(Resource Manager with Active - Active HA Pair performance) | 4 Virtual Cores,<br>Intel Xeon E5-2695, 2.40 GHz | $400+400=800$ | Any number | Tested on TCP only.<br><br>Results occur regardless of the port density or the type of calls routed. Multiple MCP instances are required to achieve the peak CAPS.<br><b>Reporting Server configured in one of two ways:</b> <ul style="list-style-type: none"> <li>Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can</li> </ul>                                                                                                                  |

| Application Type                           | Hardware                            | Peak CAPS | Peak Ports | Comments                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------|-------------------------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            |                                     |           |            | <p>handle much higher capacities.</p> <p>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 <a href="#">Table: Reporting Server Capacity Testing</a>.</p> <ul style="list-style-type: none"><li>• Disabled</li></ul>                                               |
| <b>Resource Manager (Linux)</b>            |                                     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                    |
| SIP Call<br>(Resource Manager performance) | 2x Core 2 Quad Xeon x5355, 2.66 GHz | 800       | Any number | <p>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.</p> <p><b>Reporting Server configured in one of two ways:</b></p> <ul style="list-style-type: none"><li>• Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can</li></ul> |

| Application Type                           | Hardware                            | Peak CAPS | Peak Ports | Comments                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------|-------------------------------------|-----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            |                                     |           |            | <p>handle much higher capacities.</p> <p>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 <a href="#">Table: Reporting Server Capacity Testing</a>.</p> <ul style="list-style-type: none"><li>• Disabled</li></ul>                                                |
| SIP Call<br>(Resource Manager performance) | 2x Core 2 Quad Xeon x5355, 2.66 GHz | 600       | Any number | <p>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.</p> <p><b>Reporting Server configured in one of two ways:</b></p> |

| Application Type                           | Hardware                            | Peak CAPS | Peak Ports | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------|-------------------------------------|-----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            |                                     |           |            | <ul style="list-style-type: none"><li>Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities.</li><li>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 <a href="#">Table: Reporting Server Capacity Testing</a>.</li><li>Disabled</li></ul> |
| SIP Call<br>(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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------|--------------------------------------------|------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                |                                            |            |                   | <p>port density or the type of calls routed.</p> <p>Multiple Media Control Platforms required to achieve the peak CAPS.</p> <p><b>Reporting Server disabled</b><br/>(due to the fact that the Reporting Server is unable to support 1 million DIDs).</p>                                                                                                                                                                                                                                                                                             |
| <p>SIP Call</p> <p>(Resource Manager performance with MSML embedded in SIP INFO messages.)</p> | <p>2x Core 2 Quad Xeon x5355, 2.66 GHz</p> | <p>350</p> | <p>Any number</p> | <p>Multiple Media Control Platforms required to achieve the peak CAPS.</p> <p><b>Reporting Server configured in one of two ways:</b></p> <ul style="list-style-type: none"> <li>Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities.</li> </ul> <p>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 <a href="#">Table: Reporting Server</a></p> |

| Application Type                        | Hardware                                      | Peak CAPS | Peak Ports | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|-----------------------------------------------|-----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |                                               |           |            | <p>Capacity Testing.</p> <ul style="list-style-type: none"> <li>Disabled</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SIP Call (Resource Manager performance) | 2x Core 2 Quad Xeon 5355, 2.66 GHz            | 200       | Any number | <p>Tested on UDP only on RHEL 6.4 x64. GVP 8.1.7 or later.</p> <p>Results occur regardless of the port density or the type of calls routed. Multiple MCPs are required to achieve the peak CAPS.</p> <p><b>Reporting Server Configured in one of two ways:</b></p> <ul style="list-style-type: none"> <li>Enabled, but No-DB mode—Without the DB (all data dropped), Reporting Server can afford much higher capacity.</li> <li>Disabled With Reporting Server and DB enabled the peak CAPS bottleneck will be due to RS (see below).</li> </ul> |
| SIP Call (Resource Manager performance) | 4 Virtual Cores, Intel Xeon E5-2695, 2.40 GHz | 800       | Any number | <p>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.</p> <p><b>Reporting Server configured in one of two ways:</b></p> <ul style="list-style-type: none"> <li>Enabled and in No-DB</li> </ul>                                                                                                                                                                                                                                          |

| Application Type                                                     | Hardware                                      | Peak CAPS   | Peak Ports | Comments                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------|-----------------------------------------------|-------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                      |                                               |             |            | <p>mode—Without the DB (all data is dropped), the Reporting Server can handle much higher capacities.</p> <p>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 <a href="#">Table: Reporting Server Capacity Testing</a>.</p> <ul style="list-style-type: none"> <li>Disabled</li> </ul> |
| 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 | <p>Using both TCP and UDP.</p> <p>Results occur regardless of the port density or the type of calls routed. Multiple MCP instances are required to achieve the peak CAPS. <b>Reporting Server configured in one of two ways:</b></p> <ul style="list-style-type: none"> <li>Enabled and in No-DB mode—Without the DB (all data is dropped), the Reporting Server can handle much higher</li> </ul>                           |

| Application Type                        | Hardware                            | Peak CAPS | Peak Ports | Comments                                                                                                                                                                                                                                                                           |
|-----------------------------------------|-------------------------------------|-----------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |                                     |           |            | capacities.<br><br>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 <a href="#">Table: Reporting Server Capacity Testing</a> .<br><br>• Disabled |
| <b>MRCP Proxy (Windows)</b>             |                                     |           |            |                                                                                                                                                                                                                                                                                    |
| 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.                                                                                                                                                                  |