Vocera Messaging Platform Server Sizing Matrix

Version 5.1.0

Notice

Contents

Server Sizing Matrix

The following information provides guidelines for implementing the VMP Server infrastructure.

Device Operating System Requirements

This section lists the device operating system requirements.

Item	Requirement
iOS devices	iOS 8.0 or later
Android Devices	Android OS 4.1 or later

Operating System Requirements

This table lists the VMP Server operating system and software framework requirements.

Table 1: Operating system requirements

Item	Requirement
Operating System	• Windows Server 2008 R2 64-bit • Windows Server 2012 R2 **Note:** If you are implementing VMP as a high availability solution, Vocera recommends that you use the same operating system on all servers.
Software Framework	Microsoft .NET Framework 3.5.1 If this framework is not installed on your system, the VMP Server installer notifies you that the framework is not installed and exits.

Tip: The VMP Server can run on a 32-bit system, but a 64-bit system is recommended for enterprise deployments.

VMP MS SQL Server Requirements

This table lists the VMP MS SQL Server requirements.

Table 2: SQL server requirements

Item	Requirement
MS SQL Server	• MS SQL Server 2008 SP2 • MS SQL Server 2008 R2 • MS SQL Server 2012

Item	Requirement
Database Connectivity	The SQL Server must be configured to enable: • Remote Connections • TCP/IP • Named Pipes • SQL Authentication
SQL Instance Name	The SQL Server should be configured with a unique instance to house the VMP SQL database.
Collation (sort order)	SQL_Latin1_General_CP1_CI_AS

The SQL_Latin1_General_CP1_CI_AS collation supports the following capabilities that are required by the Vocera Messaging Platform:

Collation Capability	Description
Latin1	Specifies the Latin 1 character set (ASCII)
CP1	Specifies code page 1 (ANSI code page 1252)
CI	Specifies case-insensitive sorting, so "ABC" is treated the same as "abc"
AS	Specifies accent-sensitive sorting, so "ü" is not treated the same as "u"

Important: In addition to the supported platform requirements, SQL Server System Administrator (SA) credentials are required. The credentials are requested during the installation to connect with the SQL Server during the initial configuration. These credentials are also required for future upgrades.

VMP Server CPU and Memory Recommendations

This lists computer performance and storage requirements for VMP.

Active Users	Active Directory synchronized entities	CPU Class	Min. Total Cores	Min. Memory
1 - 200	1 - 500	Xeon	2	4 GB
200 - 3,000	500 - 10,000	Xeon	4	8 GB
3,000 - 10,000	10,000 - 30,000	Xeon	8	16 GB
10,000 +	30,000 +	Xeon	8	24 GB

VMP Server Hard Drive Storage Recommendations

This lists the disk space requirements.

Active Users	Minimum VMP Storage
1 - 200	100 GB
200 - 3,000	250 GB
3,000 - 10,000	500 GB
10,000 +	750 GB

SQL Server VMP Instance Database Growth and Storage Recommendations

This describes the database and storage requirements as the number of database instances increases.

Active Users	CPU Class	Min. CPU Cores assigned to VMP database instance	Min. Memory assigned to VMP database instance
1 - 200	Xeon	2	8 GB
200 - 3,000	Xeon	4	16 GB
3,000 - 10,000	Xeon	8	32 GB
10,000 +	Xeon	10	64 GB

Active Users	Database Size / 2 Years	Log File Size / 2 Years
1 - 200	10 GB	100 GB
200 - 3,000	20 GB	200 GB
3,000 - 10,000	60 GB	250 GB
10,000 +	120 GB	1 TB

Vocera Smartphone Proxy Requirements

To install the Vocera Smartphone Proxy, your server must meet these minimum requirements.

- Xeon 2.6 GHz, 1-2 cores
- 8 GB minimum of RAM
- 250 GB free hard disk space

Virtual Environment Support

VMP can be deployed on a virtual machine (VM).

The following VMware platforms are supported:

- VMware vSphere 5 with ESXi 5.0 and later
- VMware vSphere VMware virtualization platform must include VMware vCenter Server (formerly VMware Virtual Center) with a Standard license or better.
- Virtual Server requirements are identical to the equivalent physical server requirements.
- To maintain real-time performance, the virtual environment must be designed to avoid oversubscription or resource contention on the VM host. Failure to provide sufficient resources can result in poor server and client performance.

Table 3: VMP Server VM requirements

Active Users	CPU Class	Minimum Memory
1 - 200	Xeon	4 GB
200 - 3,000	Xeon	8 GB
3,000 - 10,000	Xeon	16 GB
10,000 +	Xeon	24 GB

Table 4: SQL Server VMP instance requirements

Active Users	CPU Class	Minimum Memory
1 - 200	Xeon	8 GB (if the total of Distribution Lists, contacts, and users in the VMP Server does not exceed 5,000)
200 - 3,000	Xeon	16 GB
3,000 - 10,000	Xeon	32 GB
10,000 +	Xeon	64 GB