

Vocera Messaging Platform Server Sizing Guide



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Contents

- Introduction..... 4**
- About This Guide..... 4
- Related Information..... 4
- Vocera Messaging Platform Server Sizing Matrix..... 5**
- Operating System Requirements..... 5
- VMP MS SQL Server Requirements..... 5
- VMP CPU and Memory Recommendations..... 6
- Hard Drive Storage Recommendations..... 6
- SQL Server VMP Instance Database Growth and Storage Recommendations..... 6
- Virtual Environment Support..... 7



Introduction

The section summarizes the information covered in this guide and the related documentation that you can refer to.

About This Guide

This guide provides the sizing and scalability guidelines for implementing Vocera server infrastructure.

A list of hardware and software requirements is provided in the Server Sizing guide and it is available for the following Vocera products:

- [Vocera Engage](#)
 - [Vocera Messaging Platform](#)
 - [Vocera Platform](#)
 - [Vocera Voice Server](#)
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Related Information

Here is a list of recommended Vocera products and reference documentation that support the information in this guide.

Vocera Product Documentation

- [Vocera Messaging Platform documentation](#)
- [Vocera Platform documentation](#)
- [Vocera Voice Server documentation](#)

Server Sizing Guides for Vocera Products

- [Engage Server Sizing Guide](#)
- [Vocera Messaging Platform Server Sizing Guide](#)
- [Vocera Platform Server Sizing Guide](#)
- [Vocera Voice Server Sizing Guide](#)

Cisco and VMware Documents

- [vSphere Resource Management Guide](#)
- [Performance Best Practices for VMware vSphere® 5.5](#)
- [Unified Communications Virtualization Sizing Guidelines](#)



Note: Cisco server sizing guidelines formed the basis for Vocera's recommendations for the Vocera Voice Server.


Vocera Messaging Platform Server Sizing Matrix

The Vocera Messaging Platform Server Sizing Guide provides the sizing and scalability guidelines for implementing Vocera Messaging Platform server infrastructure.

Operating System Requirements

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

Table 1: Operating system requirements

Item	Requirement
Operating System	<ul style="list-style-type: none">Windows Server 2012 R2 Update (KB2919355) StandardWindows Server 2016Windows Server 2019  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 4.7.1



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	<ul style="list-style-type: none">MS SQL Server 2012MS SQL Server 2014MS SQL Server 2016MS SQL Server 2017MS SQL Server 2019 <p>If you have upgraded your SQL server from an older version, you must ensure that the compatibility level for your server is set to 100 (MS SQL Server 2008) or higher.</p>
Database Connectivity	The SQL Server must be configured to enable: <ul style="list-style-type: none">Remote ConnectionsTCP/IPNamed PipesSQL 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 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	6 GB
200 - 3,000	500 - 10,000	Xeon	4	12 GB
3,000 - 10,000	10,000 - 30,000	Xeon	8	16 GB
10,000 +	30,000 +	Xeon	8	24 GB

Hard Drive Storage Recommendations

This lists the disk space requirements.



Note: Vocera applications must be installed on a dedicated hard drive separate from the server operating system.

Active Users	Minimum 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

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