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### Version 10.x

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 **Note:**

- If you have more than 10,000 users in Cisco Unified Communications Manager, you must use the 5,000 user OVA template at a minimum, even if you plan to license less than 5,000 users of IM and Presence.
- The recommendations below only apply to single cluster deployments. For multi-cluster deployments, it is recommended that you use the 5000 user VM configuration at a minimum.

#### VM Configuration

Requirements  
[click to download OVA file for this version](#)

#### Supported Hardware (Latest)

#### Supported Hardware (Older)

<u>Component &amp; Capacity Point</u>	<u>vCPU vRAM vDisk vNIC</u>				<u>UCS Tested Reference Configurations</u>						<u>UCS or 3rd-party Specs-based</u>		<u>UCS Tested Reference Configurations</u>				<u>UCS or 3rd-party Specs-based</u>	
					S is same as BE6000 MD S+ is same as BE6000 HD M includes BE7000						on Intel Xeon		on Intel Xeon				on Intel Xeon	
					S	S+	M	L	XL	2XL	Full UC Perf. CPU	Restricted UC Perf. CPU	S	M	Full UC Perf. CPU	Restricted UC Perf. CPU		
500 users (Full UC) <a href="#">See notes</a>	1	2 GB	1x 80 GB	1	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No		
1000 users (Full UC)	1	2 GB	1x 80 GB	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		

- **Co-residency support** = Full
- **Supported Versions of VMware vSphere ESXi** = 4.0 U4, 4.1 U2, 5.0 U1, 5.1, 5.5
- [Click for "IOPS"](#)

## Virtualization\_for\_Unified\_CM\_IM\_and\_Presence

See notes

2000 users (Full UC)	1	4 GB	1x 80 GB	1	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No
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See notes

5000 users (Full UC)	2	4 GB	2x 80 GB	1	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No
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See notes

15,000 users (Full UC)	4	8 GB	2x 80 GB	1	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No
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See notes

## Version 9.x

[Click here for a Legend](#)

 **Note:**

- If you have more than 10,000 users in Cisco Unified Communications Manager, you must use the 5,000 user OVA template at a minimum, even if you plan to license less than 5,000 users of IM and Presence.
- The recommendations below only apply to single cluster deployments. For multi-cluster deployments, it is recommended that you use the 5000 user VM configuration at a minimum.

### VM Configuration

Requirements  
[click to download OVA](#)  
[file for this version](#)

### Supported Hardware (Latest)

### Supported Hardware (Older)

Component  
& Capacity  
Point

vCPU vRAM vDisk vNIC

### UCS Tested Reference Configurations

S is same as BE6000 MD  
S+ is same as BE6000 HD  
M includes BE7000

UCS or  
3rd-party  
Specs-based on  
Intel Xeon

UCS  
Tested  
Reference  
Configurations

UCS or  
3rd-party  
Specs-based on  
Intel Xeon

<u>Full UC Perf. CPU</u>		<u>Restricted UC Perf. CPU</u>		<u>UCS Tested Reference Configurations</u>		<u>UCS or 3rd-party Specs-based on Intel Xeon</u>	
<u>S</u>	<u>S+</u>	<u>M</u>	<u>L</u>	<u>XL</u>	<u>2XL</u>	<u>S</u>	<u>M</u>

- Co-residency support = Full
- Supported Versions of VMware vSphere ESXi = 4.0 U3, 4.1 U1, 5.0, 5.1 with 9.x, or 5.5 with 9.1(1) and later releases only
- Click for "IOPS"

500 users (Full UC)	1	2 GB	1x 80 GB	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No
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See notes

1000 users (Full UC)	1	2 GB	1x 80 GB	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
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## Virtualization\_for\_Unified\_CM\_IM\_and\_Presence

See notes

2000 users (Full UC)	1	4 GB	1x 80 GB	1	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No
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See notes

5000 users (Full UC)	2	4 GB	2x 80 GB	1	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No
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See notes

15,000 users (Full UC)	4	6 GB	2x 80 GB	1	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No
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See notes

### Notes on 500 user VM configuration

This is a minimal VM configuration for use with Cisco Hosted Collaboration Solution.

Maximum capacity:

- 500 Full UC users
- 1000 IM-only users
- 6 single nodes or sub-clusters

This VM size can be used when performing a DRS migration from a non-virtualized/physical server with a disk capacity of 80 GB or less (e.g. MCS-7825-H2).

If you are migrating from a physical server with more than 80 GB of storage space to a virtual machine with a user deployment size of either 500 or 2000, see the Disaster Recovery System Administration Guide for more information.

### Notes on 1000 user VM configurations

Maximum capacity:

- 1000 Full UC users
- 2000 IM-only users

This VM size can be used when performing a DRS migration from a non-virtualized/physical server with a disk capacity of 80 GB or less (e.g. MCS-7825-H2).

## Notes on 2000 user VM configurations

Maximum capacity:

- 2000 Full UC users per node
- 2000 IM-only users
- 3 single nodes or sub-clusters

This VM size can be used when performing a DRS migration from a non-virtualized/physical server with a disk capacity of 80 GB or less (e.g. MCS-7825-H2).

If you are migrating from a physical server with more than 80 GB of storage space to a virtual machine with a user deployment size of either 500 or 2000, see the Disaster Recovery System Administration Guide for more information.

## Notes on 5000 user VM configuration

Maximum capacity:

- 5000 Full UC users
- 12,500 IM-only users
- 6 single nodes or sub-clusters

This VM size can be used when performing a DRS migration from a non-virtualized/physical server with a disk capacity of 80 GB or less (e.g. MCS-7825-H2).

## Notes on 15000 user VM configuration

Maximum capacity:

- 15,000 Full UC users
- 25,000 IM-only users
- 6 single nodes or sub-clusters

This VM size can be used when performing a DRS migration from a non-virtualized/physical server with a disk capacity of 80 GB or less (e.g. MCS-7825-H2).

## **IOPS and Storage System Performance Requirements**

Expect similar peaks as Cisco Unified Communications Manager during backups and upgrades.

The 1000 user VM configurations generates about 60 IOPS during steady-state.

For VM configurations supporting more than 1000 users, plan for 160 IOPS during steady-state.