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Version 10.5(x)

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[OVA Download Location for Unity Connection Release 10.5](#) . Select Products->Cisco Unity Connection->Cisco Unity Connection Virtualization->OVA-10.5

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Component & Capacity Point	<u>VM Configuration Requirements</u> click to download OVA file for this version				<u>Supported Hardware (Latest)</u>						<u>Supported Hardware (Older)</u>				
	<u>vCPU</u>	<u>vRAM</u>	<u>vDisk</u>	<u>vNIC</u>	<u>UCS Tested Reference Configurations</u> S is same as BE6000 MD S+ is same as BE6000 HD M includes BE7000						<u>UCS or 3rd-party Specs-based on Intel Xeon</u>		<u>UCS Tested Reference Configurations</u>		
					<u>S</u>	<u>S+</u>	<u>M</u>	<u>L</u>	<u>XL</u>	<u>2XL</u>	<u>Full UC Perf. CPU</u>	<u>Restricted UC Perf. CPU</u>	<u>S</u>	<u>M</u>	<u>Full UC Perf. CPU</u>

- **Co-residency support** = Full

Virtualization_for_Cisco_Unity_Connection

- **Supported Versions of VMware vSphere ESXi** = 4.0, 4.1, 5.0, 5.1, 5.5
- **Click for "IOPS"**


100 users <u>See notes</u>	1	4 GB	1x 160 GB	1	Only available for special <u>Cisco Unity Connection on UCS E-Series</u>												
1000 users 1vcpu <u>See notes</u>	1	4 GB	1x 160 GB	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
1000 users 2vcpu <u>See notes</u>	2	4 GB	1x 160 GB	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	1.80+ GHz	Yes	Yes	Yes	
5000 users (larger vDisk) <u>See notes</u>	2	6GB	1x 200 GB	1	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
10,000 users <u>See notes</u>	4	6 GB	2x 146 GB or 2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
20,000 users <u>See notes</u>	7	8 GB	2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	

Version 10.0(1)

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<u>VM Configuration Requirements</u> <u>click to download OVA file for this version</u>					<u>Supported Hardware (Latest)</u>							<u>Support</u>		
<u>Component & Capacity Point</u>	<u>vCPU</u>	<u>vRAM</u>	<u>vDisk</u>	<u>vNIC</u>	<u>UCS Tested Reference Configurations</u> S is same as BE6000 MD S+ is same as BE6000 HD M includes BE7000						<u>UCS or 3rd-party Specs-based on Intel Xeon</u>		<u>UCS Tested Reference Configurations</u>	
					<u>S</u>	<u>S+</u>	<u>M</u>	<u>L</u>	<u>XL</u>	<u>2XL</u>	<u>Full UC Perf. CPU</u>	<u>Restricted UC Perf. CPU</u>	<u>S</u>	<u>M</u>
100 users See notes	1	4 GB	1x 160 GB	1	Only available for special Cisco Unity Connection on UCS E-S									
1000 users See notes	1	4 GB	1x 160 GB	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2.13+ GHz	Yes	Yes
5000 users (larger vDisk) See notes	2	6GB	1x 200 GB	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No	No	Yes
10,000 users See notes	4	6 GB	2x 146 GB or 2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No	No	Yes
20,000 users See notes	7	8 GB	2x 300 GB or 2x 500 GB disks with	1	No	No	Yes, but See	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+	No	No	Yes

- **Co-residency support** = Full
- **Supported Versions of VMware vSphere ESXi** = 4.0, 4.1, 5.0, 5.1, 5.5
- **Click for "IOPS"**

Virtualization_for_Cisco_Unity_Connection

pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.


notes

GHz

Version 9.1(x)

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VM Configuration Requirements click to download OVA file for this version

Supported Hardware (Latest)

Component & Capacity <center></center>
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 Intel Xeon

	<u>S</u>	<u>S+</u>	<u>M</u>	<u>L</u>	<u>XL</u>	<u>2XL</u>		<u>Full UC Perf. CPU</u>	<u>Restrict UC Perf. CPU</u>
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- **Co-residency support** = Full
- **Supported Versions of VMware vSphere ESXi** = 4.0, 4.1, 5.0, 5.1, 5.5
- **Click for "IOPS"**

100 users See notes	1	4 GB	1x 160 GB	1	Only available for special Cisco Unity Connection							
1000 users See notes	1	4 GB	1x 160 GB	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2.13+ C
5000 users (larger vDisk)	2	6GB	1x 200 GB	1	No	No	Yes, but See	Yes	Yes	Yes	2.40+ GHz on	No

Virtualization_for_Cisco_Unity_Connection


See notes

10,000 users <u>See notes</u>	4	6 GB	2x 146 GB or 2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes, but <u>See notes</u>	Yes	Yes	Yes	E7v1, else 2.53+ GHz 2.40+ GHz on E7v1, else 2.53+ GHz	No
20,000 users <u>See notes</u>	7	8 GB	2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes, but <u>See notes</u>	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No

Version 9.0(x)

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VM Configuration Requirements
click to download OVA file for this
version

Supported Hardware (Latest)

Component
Version 9.0(x)
& Capacity <center></center>
Point

	vCPU	vRAM	vDisk	vNIC	UCS Tested Reference Configurations						UCS or 3rd-party Specs-based on Intel Xeon	
					S is same as BE6000 MD S+ is same as BE6000 HD M includes BE7000						Full UC Perf. CPU	Restrict UC Perf. CPU
					S	S+	M	L	XL	2XL		
100 users See notes	1	4 GB	1x 160 GB	1	Only available for special Cisco Unity Connection							
1000 users See notes	1	4 GB	1x 160 GB	1	Yes	No	Yes	Yes	Yes	Yes	Yes	2.13+ GHz
5000 users (larger vDisk) See notes	2	6GB	1x 200 GB	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No
10,000 users See notes	4	6 GB	2x 146 GB or 2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No
20,000 users See notes	7	8 GB	2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No

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


overlay.



Version 8.6(2)

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Component & Capacity Point	<u>VM Configuration Requirements</u> click to download OVA file for this version				<u>Supported Hardware (Latest)</u>							<u>Supported Hardware (Older)</u>				
	vCPU	vRAM	vDisk	vNIC	<u>UCS Tested Reference Configurations</u> S is same as BE6000 MD S+ is same as BE6000 HD M includes BE7000						<u>UCS or 3rd-party Specs-based on Intel Xeon</u>		<u>UCS Tested Reference Configurations</u>		<u>Full UC Perf. CPU</u>	
					S	S+	M	L	XL	2XL	Full UC Perf. CPU	Restricted UC Perf. CPU	S	M		
100 users See notes	1	4 GB	1x 160 GB	1	Only available for special Cisco Unity Connection on UCS E-Series											
1000 users See notes	1	4 GB	1x 160 GB	1	Yes	No	Yes	Yes	Yes	Yes	Yes	2.13+ GHz	Yes	Yes	Yes	
5000 users (larger vDisk) See notes	2	6GB	1x 200 GB	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No	No	Yes	Yes	
10,000 users See notes	4	6 GB	2x 146 GB or 2x 300 GB or 2x 500 GB disks with pre-aligned disk	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else	No	No	Yes	Yes	


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

Virtualization_for_Cisco_Unity_Connection

20,000 users	7	8 GB	partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay. 2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.53+ GHz	2.40+ GHz on E7v1, else 2.53+ GHz	No	No	Yes	Yes
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Version 8.6(1)

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Component & Capacity Point	<u>VM Configuration Requirements</u> <u>click to download OVA file for this version</u>				<u>Supported Hardware (Latest)</u>						<u>Supported Hardware (Older)</u>				
	vCPU	vRAM	vDisk	vNIC	<u>UCS Tested Reference Configurations</u>						<u>UCS or 3rd-party Specs-based on Intel Xeon</u>		<u>UCS Tested Reference Configurations</u>		
					S	S+	M	L	XL	2XL	Full UC Perf. CPU	Restricted UC Perf. CPU	S	M	3

- Co-residency support = Full


Virtualization_for_Cisco_Unity_Connection

- **Supported Versions of VMware vSphere ESXi** = 4.0, 4.1, 5.0, 5.1
- [Click for "IOPS"](#)

500 users See notes	1	4 GB	1x 160 GB	1	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
1000 users See notes	1	4 GB	1x 160 GB	1	Yes	No	Yes	Yes	Yes	Yes	Yes	2.13+ GHz	Yes	Yes	Yes
5000 users (larger vDisk) See notes	2	6GB	1x 200 GB	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No	No	Yes	Yes
10,000 users See notes	4	6 GB	2x 146 GB or 2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No	No	Yes	Yes
20,000 users See notes	7	8 GB	2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes, but See notes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No	No	Yes	Yes

Version 8.5(x)

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Virtualization_for_Cisco_Unity_Connection

specifically the Table for Virtual Platform Overlays like this:

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/10x/supported_platforms/10xcucspl.html#pgf

<u>Component & Capacity</u> <u>Point</u>	<u>VM Configuration Requirements</u> <u>click to download OVA file for this version</u>				<u>Supported Hardware (Latest)</u>							
	<u>vCPU</u>	<u>vRAM</u>	<u>vDisk</u>	<u>vNIC</u>	<u>UCS Tested Reference Configurations</u> S is same as BE6000 MD S+ is same as BE6000 HD M includes BE7000						<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>Full UC Perf. CPU</u>	<u>Restrict UC Per CPU</u>

- **Co-residency support** = Full
- **Supported Versions of VMware vSphere ESXi** = 4.0, 4.1, 5.0, 5.1
- **Click for "IOPS"**

500 users <u>See notes</u>	1	2 GB	1x 160 GB	1	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
1000 users <u>See notes</u>	1	4 GB	1x 160 GB	1	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	2.13+ GHz
5000 users (larger vDisk) <u>See notes</u>	2	4GB	1x 200 GB	1	No	No	Yes, but <u>See notes</u>	Yes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No
10,000 users <u>See notes</u>	4	4 GB	2x 146 GB or 2x 300 GB or 2x 500 GB disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.	1	No	No	Yes, but <u>See notes</u>	Yes	Yes	Yes	Yes	2.40+ GHz on E7v1, else 2.53+ GHz	No
20,000 users	7	8 GB	2x 300 GB or 2x 500 GB	1	No	No	Yes, but	Yes	Yes	Yes	Yes	2.40+ GHz	No

[See notes](#)


disks with pre-aligned disk partitions. If using UCS C210M2 TRC#1, requires at least one additional physical disk for the 500GB overlay.

[See notes](#)

on E7v1, else 2.53+ GHz

Version 8.0(2+)

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Component & Capacity Point	<u>VM Configuration Requirements</u> click to download OVA file for this version				<u>Supported Hardware (Latest)</u>								<u>Supported Hardware (Older)</u>		
	vCPU	vRAM	vDisk	vNIC	<u>UCS Tested Reference Configurations</u>						<u>UCS or 3rd-party Specs-based on Intel Xeon</u>		<u>UCS Tested Reference Configurations</u>		
					S	S+	M	L	XL	2XL	Full UC Perf. CPU	Restricted UC Perf. CPU	S	M	Full UC Perf. CPU
500 users See notes	1	2 GB	1x 160 GB	1	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
1000 users See notes	1	4 GB	1x 160 GB	1	Yes	No	Yes	Yes	Yes	Yes	Yes	2.13+ GHz	Yes	Yes	Yes
	2	4GB	1x 200 GB	1	No	No		Yes	Yes	Yes		No	No	Yes	Yes

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

Virtualization_for_Cisco_Unity_Connection

◇ Voice mail only (No Integrated or Unified Messaging)

Additional Features:

Feature	Descriptions	Minimum Software Version
Total number of Tenants supported on Unity Connection	None	N/A
Total number of concurrent video calls	0	N/A
Total number of Connection SRSV branches supported	0	N/A

Notes on 500 user VM configuration

Requires reserving one physical core per physical server - see [co-residency policy](#).

Limits for Standalone Configuration:

- ◇ 16 ports G.711 or G.729a (combined TUI, VUI, or TTS)
- ◇ 4 ports iLBC or G.722

Limits for Active/Active Cluster Configuration:

- ◇ 32 ports G.711 or G.729a (combined TUI, VUI, or TTS)
- ◇ 8 ports iLBC or G.722

Deprecated in the 8.6(2) release.

Notes on 1000 user 1vcpu VM configuration

Requires reserving one physical core per physical server - see [co-residency policy](#).

Limits for Standalone Configuration:

- ◇ 24 ports G.711 or G.729a (combined TUI, VUI, or TTS)
- ◇ 6 ports iLBC or G.722

Limits for Active/Active Cluster Configuration:

- ◇ 48 ports G.711 or G.729a (combined TUI, VUI, or TTS)
- ◇ 12 ports iLBC or G.722

For use on BE6000 as well as other TRC and non-TRC configurations.

Additional Features:

Virtualization_for_Cisco_Unity_Connection

Feature	Descriptions	Minimum Software Version
Total number of Tenants supported on Unity Connection	5	10.x
Total number of concurrent video calls	0	N/A
Total number of Connection SRSV branches supported	5	9.1(2)
Total number of Unified Messaging (Single Inbox) users	0	N/A

Notes on 1000 user 2vcpu VM configuration

Requires reserving one physical core per physical server - see [co-residency policy](#).

Limits for Standalone Configuration:

- ◇ 24 ports G.711 or G.729a (combined TUI, VUI, or TTS)
- ◇ 6 ports iLBC or G.722

Limits for Active/Active Cluster Configuration:

- ◇ 48 ports G.711 or G.729a (combined TUI, VUI, or TTS)
- ◇ 12 ports iLBC or G.722

For use on BE6000 as well as other TRC and non-TRC configurations.

Additional Features:

Feature	Descriptions	Minimum Software Version
Total number of Tenants supported on Unity Connection	5	10.x
Total number of concurrent video calls	0	N/A
Total number of Connection SRSV branches supported	5	9.1(2)
Total number of Unified Messaging (Single Inbox) users	1000	10.5(1)

Notes on 5000 user VM configurations

If Unity Connection 8.x or 9.x and installing on UCS C240 M3S TRC#2 (including Cisco Business Edition 7000 server SKUs BE7K-K9 and BE7K-K9-XU), OVA modification is required as described in the Unity Connection Installation Guide.

Requires reserving one physical core per physical server - see [co-residency policy](#).

Limits for Standalone Configuration:

Notes on 1000 user 1vcpu VM configuration

Virtualization_for_Cisco_Unity_Connection

◇ 100 ports G.711 or G.729a (combined TUI, VUI, or TTS)

◇ 25 ports iLBC or G.722

Limits for Active/Active Cluster Configuration:

◇ 200 ports G.711 or G.729a (combined TUI, VUI, or TTS)

◇ 50 ports iLBC or G.722

Additional Features:

Feature	Descriptions	Minimum Software Version
Total number of Tenants supported on Unity Connection	20	10.x
Total number of concurrent video calls	0	N/A
Total number of Connection SRSV branches supported	10	9.1(2)

Notes on 10000 user VM configuration

If Unity Connection 8.x or 9.x and installing on UCS C240 M3S TRC#2 (including Cisco Business Edition 7000 server SKUs BE7K-K9 and BE7K-K9-XU), OVA modification is required as described in the Unity Connection Installation Guide.

For the larger 300GB or 500 GB disks, the datastore where the Connection virtual machine will reside must be formatted with a VMware VMFS block size of 2MB or more. A block size of 1MB limits the maximum virtual hard disk size to 256GB. A block size of 2MB allows 512GB virtual disks. The 500 GB disks will require atleast one additional disk if using the C210 TRC.

Requires reserving one physical core per physical server - see [co-residency policy](#).

Limits for Standalone Configuration:

◇ 150 ports G.711 or G.729a (combined TUI, VUI, or TTS)

◇ 35 ports iLBC or G.722

Limits for Active/Active Cluster Configuration:

◇ 300 ports G.711 or G.729a (combined TUI, VUI, or TTS)

◇ 70 ports iLBC or G.722

Additional Features:

Feature	Descriptions	Minimum Software Version
Total number of Tenants supported on Unity Connection	30	10.x
Total number of concurrent video calls	0	N/A
Total number of Connection SRSV branches supported	10	9.1(2)

Notes on 5000 user VM configurations

Notes on 20000 user VM configuration

If Unity Connection 8.x or 9.x and installing on UCS C240 M3S TRC#2 (including Cisco Business Edition 7000 server SKUs BE7K-K9 and BE7K-K9-XU), OVA modification is required as described in the Unity Connection Installation Guide.

When running under ESXi 4.1, requires ESXi Enterprise Plus Licensing since it uses over 4 vCPUs for the Virtual Machine. ESXi 5.x does not have this restriction.

The datastore where the Connection virtual machine will reside must be formatted with a VMware VMFS block size of 2MB or more. A block size of 1MB limits the maximum virtual hard disk size to 256GB. A block size of 2MB allows 512GB virtual disks.

The 500 GB disks will require atleast one additional disk if using the C210 TRC.

Requires reserving one physical core per physical server - see [co-residency policy](#).

Limits for Standalone Configuration:

- ◇ 250 ports G.711 or G.729a (combined TUI, VUI, or TTS)
- ◇ 60 ports iLBC or G.722

Limits for Active/Active Cluster Configuration:

- ◇ 500 ports G.711 or G.729a (combined TUI, VUI, or TTS)
- ◇ 120 ports iLBC or G.722

Additional Features:

Feature	Descriptions	Minimum Software Version
Total number of Tenants supported on Unity Connection	60	10.x
Total number of concurrent video calls	35	N/A
Total number of Connection SRSV branches supported	10	9.1(2)

IOPS and Storage System Performance Requirements

Summary of IOPS for Unity Connection (Data from the 8.5 release):

IOPS Type	1vCPU	2vCPU	4vCPU	7vCPU
Avg Total	78.66	129.01	217.89	201.73
Peak Total	760.99	714.06	867.88	773.70
Avg Read	5.90	19.60	45.67	9.53
Peak Read	601.84	469.46	693.21	526.22
Avg Write	72.77	109.40	172.22	192.20
Peak Write	247.14	293.51	371.97	413.50