



Planning for Coresidency

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Sizing for Coresidency

When planning a coresident deployment, consider four areas: CPU, RAM, storage, and network.

For details on virtual to physical sizing rules in a coresidency context, see https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/cisco-collaboration-infrastructure.html

Co-residency examples may be found at https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/cisco-collaboration-infrastructure.html#Intro

CPU

See the CPU/Processor Requirements section at https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/cisco-collaboration-infrastructure.html#Specs . For assistance with aligning with these specs, use the QuoteCollab tool at <https://cq.ccloudapps.cisco.com/#/>.

Sum of vCPUs must be less than or equal to the quantity of physical CPU cores.

Some applications will require their virtual machines to have ESXi setting "Latency Sensitivity" set to "High".

Due to Cisco application VM placement rules, no requirement to configure CPU reservations or limits.

RAM

See the CPU/Processor Requirements section at https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/cisco-collaboration-infrastructure.html#Specs_Ram. For assistance with aligning with these specs, use the QuoteCollab tool at www.cisco.com/go/quotecollab.

Sum of vRAM must be less than or equal to physical RAM (less physical RAM required by ESXi).



Note The overhead reservation by ESXi hosts is not applicable to BE6000S release 11.0 and older. As BE6000S is a special configuration with deployment model restrictions, in release 11.0 and older, it does not ship with, or require extra memory for ESXi as described for other Business Edition models.

Disk Storage and Performance

Replace entire section with See Storage Requirements & Guidelines section at https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/cisco-collaboration-infrastructure.html#Specs_Storage. For assistance with aligning with these specs, use the QuoteCollab tool at www.cisco.com/go/quotecollab.

Cisco Collaboration applications require max storage latency, min usable space and min IOPS capacity. BE6000/7000 appliance hardware specs follow these requirements for their targeted capacity points and application mixes. 3rd-party apps must abide by these rules; e.g. they must not overload the storage system (causing problems with latency or IOPS) and their required usable space must fit within what the appliance can provide.

Network

See Network Requirements & Guidelines section at https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/cisco-collaboration-infrastructure.html#Specs_Network. For assistance with aligning with these specs, use the QuoteCollab tool at www.cisco.com/go/quotecollab.

The total network load of Cisco applications and 3rd-party applications must not exceed the capacity of the appliance's physical networking interfaces.

Understand the networking requirements of the virtual machines that are deployed on the host and how to set up the host networking hardware to meet those needs. If we determine that application performance problems are due to networking congestion within the host, then some VMs must be moved off the host.