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Version X8.1, X8.2 and X8.5

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Component & Capacity Point	<u>VM Configuration Requirements</u> <u>click to download OVA file for this version (AES-encrypted)</u>				<u>Supported Hardware (Latest)</u>						<u>Supported Hardware</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
- **Supported Versions of VMware vSphere ESXi** = X8.1 supports 4.1, 5.0 U1, 5.1. X8.1.1 and later support 4.1, 5.0 U1, 5.1.
- [Click for "IOPS"](#)

Small Expressway-C or Expressway-E See notes	2	4 GB	Total 132 GB	3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Medium Expressway-C or Expressway-E See notes	2	6 GB	Total 132 GB	3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2.40+ GHz only	No	Yes	Yes
Large Expressway-C or Expressway-E See notes	8	8 GB	Total 132 GB	3 (10Gb)	No	No	No	No	No	No	3.20+ GHz only	No	No	No	3.20+ GHz only

Notes on Expressway VM configurations

Cisco Expressway on the Cisco Business Edition 6000 requires only 4GB memory.

vDisk 1 = 4 GB, vDisk 2 = 128 GB.

Large VM configuration requires 10Gb NIC and the host CPU must support the AES-NI instruction set (and it must not be masked by ESXi).

Testing was performed on a Cisco UCS C220 M3S platform. Based on evidence from this testing we do not expect there to be any issues with other supported hardware options.

For more information, see [Cisco Expressway on Virtual Machine Installation Guide](#).

IOPS and Storage System Performance Requirements

This section provides the IOPS data for a Cisco Expressway system under load.

Test results:

Activity	Average IOPS	Average r/w latency	Peak read latency	Peak write latency
Performance test*	5	0.5ms	15ms	2ms
Software upgrade	35	5ms	300ms	160ms
Core dump	40	10ms	100ms	10ms
Burnin test suite	35	50ms	400ms	60ms

* Performance test comprised 100 simultaneous interworked and encrypted calls at 768kbp/s

Note that Cisco VCS software X7.2 and later takes advantage of AES acceleration on Intel Advanced Encryption Standard New Instruction set available on the Cisco C2xx family of servers. This provides enhanced performance for encrypted calls.