

# Cisco Video Surveillance Manager for Cisco UCS E-Series Servers

Cisco UCS® E-Series Server modules are power-optimized 64-bit blade servers designed to be deployed in the Cisco Integrated Services Routers Generation 2 (ISR G2) family of routers. Cisco Video Surveillance Manager deployed on the Cisco UCS E-Series brings a more powerful integrated platform for physical security to branch offices.

More than 80 percent of today's branch offices around the world use Cisco integrated services routers. These routers are designed to provide branch offices with all primary communications services—voice, data, and video—in a single and flexible network access platform. This flexibility includes a physical security component: a virtualized Cisco Video Surveillance Manager offering for Cisco UCS E-Series Server modules. Integrating physical security into the router provides tighter linkage between video surveillance and other branch office applications that enhance efficiency and productivity.

Cisco Video Surveillance Manager for the Cisco UCS E-Series uses Video Surveillance Manager technology that has been optimized for virtual environments. This technology seamlessly integrates with new and existing Video Surveillance Manager deployments.

Table 1 describes the features of Cisco Video Surveillance Manager for the Cisco UCS E-Series.

**Table 1.** Cisco Video Surveillance Manager for the Cisco UCS E-Series Features

Item	Specification
<b>Proven surveillance platform</b>	<ul style="list-style-type: none"> <li>• Extends proven Video Surveillance Manager capabilities to a virtual environment within the Cisco UCS E-Series</li> <li>• Delivers seamless integration with new and existing Video Surveillance Manager deployments</li> </ul>
<b>Increased solution flexibility and operational efficiency</b>	<ul style="list-style-type: none"> <li>• Provides deployment flexibility and simplified management through the use of virtualization tools</li> <li>• Decreases time required to deploy a fully functional virtual machine</li> </ul>

## Software Packaging and Installation

Table 2 describes how to obtain Cisco Video Surveillance Manager for the Cisco UCS E-Series.

**Table 2.** Software Packaging and Installation for Cisco Video Surveillance Manager for the Cisco UCS E-Series

Package	Description
<b>Open Virtualization Format (OVF)</b>	<ul style="list-style-type: none"> <li>• Downloadable OVF virtual appliance in the form of a single file with the .ova extension</li> <li>• Deployed with OVF templates and packages</li> </ul>

## Solution Deployment Requirements

The products listed in Table 3 must be deployed when using Cisco Video Surveillance Manager for the Cisco UCS E-Series.

**Table 3.** Deployment Requirements for Cisco Video Surveillance Manager for the Cisco UCS E-Series

Package	Description
Hypervisor and hypervisor management	VMware vSphere 5.0 or later with VMware ESXi
Video Surveillance Manager	Release 7.0.1 or later

## Specifications

Table 4 describes the specifications of Cisco Video Surveillance Manager for the Cisco UCS E-Series.

**Table 4.** Specifications for Cisco Video Surveillance Manager for the Cisco UCS E-Series

Server Type	Number of vCPUs Configured	Maximum I/O (Mbps)	Maximum Raw Storage (TB)
UCS-E140XX	2	40	2 (single-wide)
	4	80	3 (double-wide)
UCS-E160XX	2	40	2 (PCIe slots used)
	4	80	3 (maximum slots used)

### Number of vCPUs Configured

The Cisco UCS E-Series servers have various configuration options for the CPU. The single-wide blade includes a four-core Intel Xeon E3-1100 processor and the double-wide blade includes either a four-core or six-core Intel Xeon E5-2400 processor. The Cisco UCS-E160xx CPU configuration used to yield maximum I/O results in Table 4 was the four-core Intel Xeon E5-2400 processor.

One or more virtual CPUs (vCPUs) can be assigned to each virtual machine (VM). The maximum I/O results in Table 4 were achieved with two or four dedicated vCPUs configured per virtual machine.

### Maximum I/O

The maximum I/O is defined as the highest aggregate bandwidth into and out of Cisco Video Surveillance Manager for the Cisco UCS E-Series when operating with exclusive access to the Cisco UCS E-Series hardware resources. Input sources include endpoint streams and output destinations include active viewing workstations and video walls.

### Maximum Raw Storage

The maximum raw storage is a simple calculation of the total number of disks available per platform multiplied by the maximum supported disk capacity. The actual usable storage will be less based on storage array, software, and operating system configurations. The single-wide blade can support up to two hard-disk drives and the double-wide blade can support up to three hard-disk drives. Refer to the Cisco UCS E-Series data sheets for technical specifications.

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## Ordering Information

Table 5 lists the part numbers for Cisco Video Surveillance Manager for the Cisco UCS E-Series.

**Table 5.** Ordering Information

Part Number	Description
<b>L-CPS-VSMS7-E-VM=</b>	eDelivery License for one Media Server on the Cisco UCS E-Series
<b>L-CPS-VSOM7-E-VM=</b>	eDelivery License for one Operations Manager on the Cisco UCS E-Series

## Services and Support

Cisco and our certified partners can help you accelerate success and improve the return on your investment in a Cisco Physical Security solution. The Cisco lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle:

- Reduce deployment costs by identifying the features that will best meet your business requirements
- Accelerate migration by assessing the readiness of your network to support the system and by developing a sound design
- Support smooth implementation through effective planning and expert installation, configuration, and integration
- Increase operational efficiency and extend the value of your investment with award-winning technical support

For more information about Cisco services, visit <http://www.cisco.com/go/services>.

## For More Information

For more information about Cisco Video Surveillance Manager, visit <http://www.cisco.com/go/videosurveillance> or contact your local account representative.



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