



# Cisco Video Surveillance 7 Documentation Roadmap

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**Revised: May 19, 2016**

This document describes the user documentation available for the Cisco Video Surveillance release 7 products, including the server platforms and software. To find a document on-line, click one of the links in this roadmap.

- [Server and Storage Platform Documentation, page 2](#)
- [Cisco Video Surveillance Manager Documentation, page 2](#)
- [Design Documentation, page 5](#)
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**Tip**

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Go to [www.cisco.com/go/physicalsecurity/](http://www.cisco.com/go/physicalsecurity/) for information on all Cisco Physical Security Products.

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# Server and Storage Platform Documentation

Refer to the following documentation for information about Cisco Video Surveillance servers, storage solutions, and virtual machine platforms.

**Table 1** *Server and Storage Platform Documentation*

Topic	Document	Description
Software installation	<a href="#">Cisco Video Surveillance Install and Upgrade Guide</a>	Instructions to install, upgrade, and recover the various software components used in a Cisco Video Surveillance deployment.
Physical servers pre-installed with Release 7.7 or higher	Cisco Connected Safety and Security UCS Platform Series Servers: <ul style="list-style-type: none"> <li><a href="#">Cisco CSS UCS Server User Guide</a></li> <li><a href="#">Release Notes for the Cisco CSS UCS Servers</a></li> </ul>	Instructions to install and set up the <b>Cisco VSM server appliance</b> deployed on the Cisco Connected Safety and Security UCS Platform Series servers: <ul style="list-style-type: none"> <li>CPS-UCS-1RU-K9 and CPS-UCS-2RU-K9</li> </ul> <b>Note</b> For more information, see the <a href="#">Cisco UCS C-Series Server Documentation Roadmap</a> .
Virtual machine (VM) deployment	<a href="#">Cisco Video Surveillance Virtual Machine Deployment and Recovery Guide for UCS Platforms</a>	This document includes instructions to do the following: <ul style="list-style-type: none"> <li>Deploy a virtualized Cisco Video Surveillance server on a supported Cisco Unified Computing System platform.</li> <li>Recover a virtual machine image (.OVA), and configure high availability.</li> </ul>
External Storage	<a href="#">Cisco Video Surveillance Storage System</a> : <ul style="list-style-type: none"> <li><a href="#">Data Sheet</a></li> <li><a href="#">Installation Guide</a></li> <li><a href="#">Administration Guide</a></li> </ul>	Instructions to install and administer the Cisco Video Surveillance Storage System (CPS-SS-4RU and CPS-SS-4RU-EX).

## Cisco Video Surveillance Manager Documentation

Refer to the following documentation for additional information about Cisco Video Surveillance, including server setup, system configuration, video monitoring, and other features.

**Table 2** *Cisco Video Surveillance Documentation*

Topic	Document	Description
Documentation Roadmap (this document)	<a href="#">Cisco Video Surveillance 7 Documentation Roadmap</a>	Descriptions and links to Cisco Video Surveillance documentation, server and storage platform documentation, and related documentation.
Technical documentation homepage	<a href="#">Cisco Video Surveillance Manager documentation website</a>	The website providing links to all Cisco Video Surveillance technical documentation.

**Table 2** *Cisco Video Surveillance Documentation (continued)*

Topic	Document	Description
Data Sheets and Use Cases	<a href="#">Cisco Video Surveillance Manager Data Sheets and Literature</a>	See the Data Sheet for descriptions of the main features and part numbers for the Cisco Video Surveillance solution.  This site also includes case studies, user cases, and other information.
Release Notes	<a href="#">Release Notes for Cisco Video Surveillance Manager</a>	Describes the new and changed features, open and resolved caveats, and other information.
System Design	<a href="#">Cisco Video Surveillance Solution Design Guide</a>	Describes the deployment scenarios, network considerations, best practices, and features used to design a Cisco Video Surveillance Manager system, release 7.7.
Network design and planning	<a href="#">Cisco Video Surveillance Solution Reference Network Design Guide</a>	Summarizes high-level design recommendations and best practices for implementing IP Video Surveillance on the enterprise network infrastructure.
Performance and Scalability	<a href="#">Cisco Video Surveillance Manager Release 7 Server Performance Guidelines</a>	Describes the core capabilities and performance of a supported Video Surveillance Manager server for use when designing and deploying Cisco Physical Security solutions.  This document provides the scalability limits for server platforms supported in Cisco Video Surveillance Release 7.0.1 and higher.
Management Console	<a href="#">Cisco Video Surveillance Management Console Administration Guide</a>	Use the browser-based <b>Cisco VSM Management Console</b> to set up and maintain a Cisco VSM server. Tasks include server software and driver pack upgrades, Media Server backups.
Browser-based configuration and monitoring	<a href="#">Cisco Video Surveillance Operations Manager User Guide</a>	Use the browser-based <b>Operations Manager</b> to configure and manage a Cisco VSM deployment.  The Operation Manager can also be used to monitor live and recorded video.
Workstation application for video monitoring	<a href="#">Cisco Video Surveillance Safety and Security Desktop User Guide</a>	Use the <b>Cisco Video Surveillance Safety and Security Desktop</b> (Cisco SASD) application to view cameras, video and alerts on a graphical map. You can also display a video grid on a separate monitor, view Video Walls on multiple workstations, or create unattended workstations.
Video clip player	<a href="#">Cisco Video Surveillance Review Player User Guide</a>	Use the <b>Cisco VSM Review Player</b> desktop application for basic playback of multi-pane video clips.
Mobile device video monitoring	<a href="#">Cisco Video Surveillance Operations Manager Mobile App User Guide</a>	Use an Android-based mobile device to monitor live and recorded video.
Workstation Profiler Tool	<a href="#">Using the Cisco Video Surveillance Monitoring Workstation Profiler Tool</a>	Describes how to use the Cisco Video Surveillance Workstation Profiler Tool to analyze the ability of a PC client to render video.
Workstation requirements	<a href="#">Cisco Video Surveillance Monitoring Workstation Performance Baseline Specification</a>	Baseline performance specifications for a video surveillance monitoring workstation.

**Table 2** *Cisco Video Surveillance Documentation (continued)*

Topic	Document	Description
Restore or repair the server software	<ul style="list-style-type: none"> <li>• <a href="#">Cisco Video Surveillance Manager Recovery Guide (Cisco Connected Safety and Security UCS Platform Series), Release 7.5</a></li> <li>• <a href="#">Cisco Video Surveillance Manager Recovery Guide (Cisco Connected Safety and Security UCS Platform Series), Release 7.2</a></li> <li>• <a href="#">Cisco Video Surveillance Manager Recovery Guide (Cisco MSP Platform)</a></li> </ul>	<p>Instructions to repair or restore the Cisco VSM server software.</p> <ul style="list-style-type: none"> <li>• <b>Repair:</b> reinstalls the Operating System files and partitions without erasing video files stored on the server. You must backup the Cisco VSM database before using the recovery image, and then restore the database after the recovery process is complete. This action also preserves the RAID configuration.</li> <li>• <b>Factory Restore:</b> Restores the server to its factory default settings, reinstalls the operating system, and clears and reconfigures the RAID. This action deletes all data, configurations, software and video files from the appliance, and then reinstalls the operating system and Cisco VSM software. Perform this procedure only if necessary.</li> </ul>
API Reference	<ul style="list-style-type: none"> <li>• <i>Cisco Video Surveillance API Programming Guide</i></li> <li>• <i>Cisco Video Surveillance API Reference Guide</i></li> </ul>	<p>Describes the application programming interface (API) used to display video using third party applications.</p> <p><b>Note</b> These documents are available on the Cisco Developer Network (CDN). See your Cisco support representative for more information.</p>
Migrating a 6.3.2 system to release 7	<i>Cisco Video Surveillance Migration Guide, Release 6.3.2 to 7</i>	<p>Describes how to migrate a release 6.3.2 Cisco VSM deployment to release 7.0, 7.1 or 7.2.</p> <p>Migrating a Cisco Video Surveillance deployment from release 6.3.2 to release 7.x is a one-time process that is performed using a special set of Cisco utilities. You can migrate the entire deployment, including all Media Servers at a single time, or migrate the Media Servers over an extended period of time.</p> <p><b>Note</b> To access this document, contact PDI, Cisco Advanced Services or your Cisco support representative for more information.</p>

## Troubleshooting Documentation

**Table 3** *Troubleshooting Documentation*

Topic	Document	Description
Operations Manager HA	<a href="#">Cisco VSM Operations Manager High Availability Troubleshooting Guide</a>	Solutions and workarounds to common issues encountered when configuring or managing Operations Manager High Availability (HA).

# Design Documentation

For more information to design a Cisco Video Surveillance deployment, see the following resources:

**Table 4**      **Design Documentation**

Design Documentation	Subject Or Document	Description and Location
Deployment planning	<a href="#">Cisco Video Surveillance Solution Design Guide</a>	Introduces the main Cisco VSM components and features, and describes how to design and deploy Cisco VSM in a variety of scenarios.
Network design and planning	<a href="#">Cisco Video Surveillance Solution Reference Network Design Guide</a>	Summarizes high-level design recommendations and best practices for implementing IP Video Surveillance on the enterprise network infrastructure.
Related Design Guides	Network Readiness Assessment for IP Video Surveillance	<a href="http://www.cisco.com/en/US/docs/solutions/Enterprise/Video/IPVS/IPVS_Network_Assessment.pdf">http://www.cisco.com/en/US/docs/solutions/Enterprise/Video/IPVS/IPVS_Network_Assessment.pdf</a>
	Cisco Validated Designs	<a href="http://www.cisco.com/go/cvd">http://www.cisco.com/go/cvd</a>
	Cisco Design Zone	<a href="http://www.cisco.com/go/designzone">http://www.cisco.com/go/designzone</a>  See the Cisco IP Video Surveillance Design page at: <a href="http://www.cisco.com/en/US/partner/solutions/ns340/ns414/ns742/ns819/landing_vid_surveillance.html">http://www.cisco.com/en/US/partner/solutions/ns340/ns414/ns742/ns819/landing_vid_surveillance.html</a>
	Designing a Campus Network for High Availability	<a href="http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/HA_campus_DG/hacampusdg.html">http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/HA_campus_DG/hacampusdg.html</a>
	HA Campus Recovery Analysis	<a href="http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/HA_recovery_DG/campusRecovery.html">http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/HA_recovery_DG/campusRecovery.html</a>
	Not All Packets Are Equal, Part 1: Streaming Video Coding and SLA Requirements	<a href="https://www.cisco.com/en/US/solutions/collateral/ns341/ns524/ns610/jg-je-ab-ieee-int-comp-jan09.pdf">https://www.cisco.com/en/US/solutions/collateral/ns341/ns524/ns610/jg-je-ab-ieee-int-comp-jan09.pdf</a>
Network Security	Cisco SAFE: Security Blueprints for Enterprise Networks	<a href="http://www.cisco.com/en/US/solutions/ns340/ns414/ns742/ns744/landing_safe.html">http://www.cisco.com/en/US/solutions/ns340/ns414/ns742/ns744/landing_safe.html</a>
At-a Glance	<i>Cisco Enterprise Campus and Branch Network Architecture for IP Video Surveillance - At-a-Glance</i>	
	<i>Cisco IP Video Surveillance Solution Offering - At-a-Glance Document</i>	<a href="http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6918/ps9692/ps9944/at_a_glance_c45-528372.pdf">http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6918/ps9692/ps9944/at_a_glance_c45-528372.pdf</a> <a href="http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6918/ps6921/ps6937/product_data_sheet0900aecd80456f3e.pdf">http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6918/ps6921/ps6937/product_data_sheet0900aecd80456f3e.pdf</a>
MediaNet	<i>Design Zone for Medianet/Video: IP Video Surveillance</i>	<a href="http://www.cisco.com/en/US/solutions/ns340/ns414/ns742/ns819/landing_vid_surveillance.html">http://www.cisco.com/en/US/solutions/ns340/ns414/ns742/ns819/landing_vid_surveillance.html</a>
	<i>Overview of a Medianet Architecture: IP Video Surveillance</i>	<a href="http://www.cisco.com/en/US/docs/solutions/Enterprise/Video/vrn.html">http://www.cisco.com/en/US/docs/solutions/Enterprise/Video/vrn.html</a>
	<a href="#">Cisco Medianet website</a>	<a href="http://www.cisco.com/go/medianet">http://www.cisco.com/go/medianet</a>
	<a href="#">Cisco Medianet FAQ</a>	<a href="http://www.cisco.com/en/US/solutions/collateral/ns340/ns856/ns156/ns1094/qa_C67-511731.html">http://www.cisco.com/en/US/solutions/collateral/ns340/ns856/ns156/ns1094/qa_C67-511731.html</a>

**Table 4** *Design Documentation (continued)*

Design Documentation	Subject Or Document	Description and Location
	<a href="#">Medianet Reference Guide</a>	<a href="http://www.cisco.com/en/US/docs/solutions/Enterprise/Video/Medianet_Ref_Gd/medianet_ref_gd.html">http://www.cisco.com/en/US/docs/solutions/Enterprise/Video/Medianet_Ref_Gd/medianet_ref_gd.html</a>
	<a href="#">Auto Smartports Configuration Guide</a>	<a href="http://www.cisco.com/en/US/docs/switches/lan/auto_smartports/15.0_1_se/configuration/guide/asp_cg.html">http://www.cisco.com/en/US/docs/switches/lan/auto_smartports/15.0_1_se/configuration/guide/asp_cg.html</a>
IP and Standards	TCP/IP Illustrated Vol 1: The Protocols, 2 <sup>nd</sup> Edition	<a href="http://www.informit.com/store/product.aspx?isbn=0132808218">http://www.informit.com/store/product.aspx?isbn=0132808218</a>
	IEEE Standards Organization	<a href="http://www.ieee.org/portal/index.jsp">http://www.ieee.org/portal/index.jsp</a>

## Virtual Machine Deployment

For more information about Cisco UCS servers and blades, VMWare and deploying Cisco Video Surveillance OVA images, see the following resources:

**Table 5** *Cisco Video Surveillance Virtual Machine Deployment*

VM Documentation	Description	URL
Virtual machine (VM) deployment, recovery and high availability	<ul style="list-style-type: none"> <li>Deploy a virtualized Cisco Video Surveillance server on a supported Cisco Unified Computing System platform.</li> <li>Recover a virtual machine image (.OVA), and configure high availability.</li> <li>Deploy a Cisco VSM 7.0 VM using VMware HA.</li> </ul>	<a href="#">Cisco Video Surveillance Virtual Machine Deployment and Recovery Guide for UCS Platforms</a>
Physical Security Virtualized Applications for UCS	Information to deploy virtualized physical security applications on Cisco UCS platforms.	<a href="http://www.cisco.com/en/US/products/ps12689/index.html">http://www.cisco.com/en/US/products/ps12689/index.html</a>
Data Sheets	Data Sheets for virtualized Cisco Video Surveillance on the UCS platforms.	<a href="http://www.cisco.com/en/US/products/ps10818/products_data_sheets_list.html">http://www.cisco.com/en/US/products/ps10818/products_data_sheets_list.html</a>
Cisco UCS Platform	Cisco Unified Computing and Servers general information	<a href="http://www.cisco.com/en/US/products/ps10265/index.html">http://www.cisco.com/en/US/products/ps10265/index.html</a>
	Cisco UCS Manager Configuration Guides	<a href="http://www.cisco.com/en/US/products/ps10281/products_installation_and_configuration_guides_list.html">http://www.cisco.com/en/US/products/ps10281/products_installation_and_configuration_guides_list.html</a>

**Table 5** *Cisco Video Surveillance Virtual Machine Deployment (continued)*

VM Documentation	Description	URL
VMware	Installing and Configuring VMware Tools (EN-000478-01)	<a href="http://www.vmware.com/pdf/vmware-tools-installation-configuration.pdf">http://www.vmware.com/pdf/vmware-tools-installation-configuration.pdf</a>
	VMware ESXi Configuration Guides	<a href="http://www.vmware.com/support/pubs/vsphere-esxi-vcenter-server-pubs.html">http://www.vmware.com/support/pubs/vsphere-esxi-vcenter-server-pubs.html</a>
	vSphere High Availability Deployment Best Practices (White Paper)	<a href="http://www.vmware.com">www.vmware.com</a>
	Troubleshooting VMware High Availability (HA) in vSphere (KB 1001596)	<a href="http://www.vmware.com">www.vmware.com</a>
Cisco UCS Manager	Cisco UCS Manager Configuration Guide	<a href="http://www.cisco.com/en/US/products/ps10281/products_installation_and_configuration_guides_list.html">http://www.cisco.com/en/US/products/ps10281/products_installation_and_configuration_guides_list.html</a>
UCS B- & C-Series Platforms	Cisco UCS Site Preparation Guide	<a href="http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/site_prep/guide/ucs_site_prep.html">http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/site_prep/guide/ucs_site_prep.html</a>
	Cisco UCS 6100 Series Fabric Interconnect Hardware Installation Guide	<a href="http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/switch/install/ucs6100_install.html">http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/switch/install/ucs6100_install.html</a>
	Cisco UCS 5108 Server Chassis Installation Guide	<a href="http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/chassis/install/ucs5108_install.html">http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/chassis/install/ucs5108_install.html</a>
	Cisco UCS C-Series Rack Servers Installation and Upgrade Guides	<a href="http://www.cisco.com/en/US/products/ps10493/product_installation_guides_list.html">http://www.cisco.com/en/US/products/ps10493/product_installation_guides_list.html</a>
	Cisco UCS Servers RAID Guide	<a href="http://www.cisco.com/en/US/docs/unified_computing/ucs/c/sw/raid/configuration/guide/RAID_GUIDE.html">http://www.cisco.com/en/US/docs/unified_computing/ucs/c/sw/raid/configuration/guide/RAID_GUIDE.html</a>
	Cisco UCS B-Series Blade Servers VMware Installation Guide	<a href="http://www.cisco.com/en/US/docs/unified_computing/ucs/sw/b/os/vmware/install/bseries-vmware-install.html">http://www.cisco.com/en/US/docs/unified_computing/ucs/sw/b/os/vmware/install/bseries-vmware-install.html</a>
UCS E-Series Platform	Data sheets and installation and configuration guides	<a href="http://www.cisco.com/en/US/products/ps12629/index.html">http://www.cisco.com/en/US/products/ps12629/index.html</a>
UCS Express	Data sheets and installation and configuration guides	<a href="http://www.cisco.com/en/US/products/ps11273/index.html">http://www.cisco.com/en/US/products/ps11273/index.html</a>

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