



CHAPTER 2

Preinstallation

Prerequisites

Your system must have the following hardware and software before installing the Cisco VAMS 1.5 software package:



Note

See the [“Install and Configure Prerequisite Hardware and Software Solution Components”](#) section on [page 2-2](#) for detailed installation procedures.

Hardware Installation

- The core network elements of the video transport network:
 - Cisco 7600 Series router
 - Cisco Catalyst 6500 Series switch
 - Cisco CRS-1
 - Cisco Catalyst 4948 Series switch
- Management servers for Cisco Active Network Abstraction (ANA) 3.6.3 (includes gateway, unit, and client installation).
- Management servers for Cisco Multicast Manager (CMM) 2.5.4.
- Third-party video probes:
 - Bridge Technologies VB Series
 - IneoQuest Singulus G1-T and IQ Cricket
 - Mixed Signals Sentry Digital Content Monitor
 - Pixelmetrix DVStation
 - Tektronix MTM400
- Management servers for Cisco Info Center/Netcool 7.2 Suite.

Software Installation

- The IPTV-enabled IOS software versions:
 - 12.2(33)SRB2, 12.2(33)SRB3, 12.2(33)SRC, or 12.2(33)SRC1 on the Cisco 7600 Series router
 - 12.2(33)SRB2, 12.2(33)SRB3, 12.2(33)SRC, or 12.2(33)SRC1 on the Cisco Catalyst 6500 Series switch

- IOS-XR 3.6.1.12 on the Cisco CRS-1
 - 12.2(31)SGA1 on the Cisco Catalyst 4948 Series switch
- Cisco ANA 3.6.3 (includes gateway, unit, and client installation).
- Cisco Multicast Manager (CMM) 2.5.4 software on dedicated server.
- Management software for the Cisco Info Center/Netcool 7.2 suite:
 - ObjectServer 7.2
 - Webtop 2.1
 - Impact 4.0
 - TBSM 4.1

Install and Configure Prerequisite Hardware and Software Solution Components

Before installing the Cisco VAMS 1.5 software package:

**Note**

Perform these tasks in the sequence shown.

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- Step 1** Install the Cisco 7600 Series routers, Cisco Catalyst 6500 switches, Cisco CRS-1, and Cisco Catalyst 4948 Series switches for the supported cable or wireline architecture.
- See the following installation guides for more information:
- Cisco 7600 Series installation guides, viewable online at:
http://www.cisco.com/en/US/products/hw/routers/ps368/prod_installation_guides_list.html
 - Cisco Catalyst 6500 Series installation guides, viewable online at:
http://www.cisco.com/en/US/products/hw/switches/ps708/prod_installation_guides_list.html
 - Cisco CRS-1 installation guides, viewable online at:
http://www.cisco.com/en/US/products/ps5763/prod_installation_guides_list.html
 - Cisco Catalyst 4948 installation guides, viewable online at:
http://www.cisco.com/en/US/docs/switches/lan/catalyst4900/4948-10ge/4948_10.html
- Step 2** Configure the Cisco 7600 Series routers, Cisco Catalyst 6500 Series switches, Cisco CRS-1, and Cisco Catalyst 4948 Series switches for the supported cable or wireline architecture.
- See the following configuration guides for more information:
- Cisco 7600 Series configuration guides, viewable online at:
http://www.cisco.com/en/US/products/hw/routers/ps368/products_installation_and_configuration_guides_list.html
 - Cisco Catalyst 6500 Series configuration guides, viewable online at:
http://www.cisco.com/en/US/products/hw/switches/ps708/products_installation_and_configuration_guides_list.html
 - Cisco CRS-1 configuration guides, viewable online at:
http://www.cisco.com/en/US/products/ps5763/products_installation_and_configuration_guides_list.html

- Cisco Catalyst 4948 configuration guides, viewable online at:
<http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/12.2/25ewa/configuration/guide/conf.html>
<http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/12.2/31sg/configuration/guide/conf.html>
- Also, consult configuration tasks documented in the “Cisco Internet Protocol Television (IPTV) Solutions” section on page xiii.

Step 3 Install the following multicast-enabled IOS images¹:

- Cisco 7600 Series routers with 12.2(33)SRB2, 12.2(33)SRB3, or 12.2(33)SRC1 image
- Cisco Catalyst 6500 Series switches with 12.2(33)SRB2, 12.2(33)SRB3, or 12.2(33)SRC1 image
- Cisco CRS-1 with IOS-XR 3.6.1.12 image
- Cisco Catalyst 4948 Series switches with 12.2(31)SGA1 image

See the following release notes for more information:

- Cisco 7600 release notes, viewable online at:
http://www.cisco.com/en/US/products/ps6922/prod_release_note09186a00806c096f.html
- Cisco Catalyst 6500 release notes, viewable online at:
http://www.cisco.com/en/US/products/hw/switches/ps708/prod_release_notes_list.html
- Cisco CRS-1 release notes, viewable online at:
http://www.cisco.com/en/US/docs/ios_xr_sw/iosxr_r3.4/general/release/notes/reln_342.html
- Cisco Catalyst 4948 release notes, viewable online at:
http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/release/note/OL_9592.html

Step 4 Install the Active Network Abstraction (ANA) hardware and software on dedicated servers (includes gateway, unit, and client installation and ANA 3.6.1, 3.6.2, and 3.6.3 updates):

See the following installation guides for more information:

- *Cisco Active Network Abstraction Installation Guide 3.6*, viewable online at:
http://www.cisco.com/en/US/docs/net_mgmt/active_network_abstraction/3.6/installation/install_1.html
- *Cisco Active Network Abstraction Installation Guide 3.6 Service Pack 1*, viewable online at:
http://www.cisco.com/en/US/docs/net_mgmt/active_network_abstraction/3.6_sp1/installation/guide/Install-Book-Wrapper.html).
- *Cisco Active Network Abstraction Installation Guide 3.6 Service Pack 2*², viewable online at:
http://www.cisco.com/en/US/docs/net_mgmt/active_network_abstraction/3.6_sp2/installation/guide/Install-Book-Wrapper.html
- *Cisco Active Network Abstraction Installation Guide 3.6 Service Pack 3*, viewable online at:
http://www.cisco.com/en/US/docs/net_mgmt/active_network_abstraction/3.6_sp3/installation/guide/Install-Book-Wrapper.html

Step 5 Install the Cisco Multicast Manager (CMM) 2.5.4 hardware and software on dedicated servers:

See the following installation guide for more information:

Cisco Multicast Manager Installation Guide 2.5, viewable online at:

http://www.cisco.com/en/US/products/ps6337/prod_installation_guides_list.html

1. Download the Cisco IOS software from <http://www.cisco.com/public/sw-center/index.shtml>.
2. If you encounter an error during installation of ANA 3.6.2, follow the workaround described here:
http://www.cisco.com/en/US/docs/net_mgmt/active_network_abstraction/3.6_sp2/release_notes/rn36_sp2.htm#wp82640

- Step 6** Install the third-party video probes for Bridge Technologies, IneoQuest, Mixed Signals, PixelMetrix and Tektronix:

See the following video probe guides for more information:

Bridge Technologies

VB120 Broadcast IP-Probe User's Manual v. 4.0.

IneoQuest Singulus G1-T

- *IQMedia QuickStart Guide*
- *IQ MediaMonitor Series M1 Singulus G1-T Network Monitoring and Analysis Systems Hardware User's Guide*
- *IQMediaAnalyzer Application User's Guide*

IneoQuest Cricket

See the IneoQuest website for more information.

Mixed Signals Sentry

Mixed Signals Sentry Digital Content Monitor User Guide

PixelMetrix

DVStation-IP-3 User Manual, Software Version 4.17

Tektronix MTM400

- *MTM400 MPEG Transport Stream Monitor User Manual*
- *MTM400 MPEG Transport Stream Monitor Technical Reference*
- *MTM400 MPEG Transport Stream Monitor Programmer Manual*

- Step 7** Install the hardware and software for the Cisco Info Center/Netcool 7.2 on dedicated servers:

See the following books for more information:

Documentation Guide and Supplemental License Agreement

Cisco Info Center 7.1 Documentation Guide and Supplemental Licence Agreement

Viewable online at:

http://www.cisco.com/en/US/products/sw/netmgts/ps996/products_documentation_roadmap09186a0080805796.html

IBM Tivoli Netcool/OMNibus

IBM Tivoli Netcool/OMNibus Installation and Deployment Guide

IBM Tivoli Netcool/Webtop

- *IBM Tivoli Netcool/Webtop QuickStart Guide*
- *IBM Tivoli Netcool/Webtop Administration Guide*

IBM Tivoli Netcool/Impact

- *IBM Tivoli Netcool/Impact Administration Guide*
- *IBM Tivoli Netcool/Impact User Interface Guide*
- *IBM Tivoli Netcool/Impact Solutions Guide*

IBM Tivoli Business Service Manager

- *IBM Tivoli Business Service Manager Installation Guide*
- *IBM Tivoli Business Service Manager Quick Start*
- *IBM Tivoli Business Service Manager Administrator's Guide*
- *IBM Tivoli Business Service Manager Service Configuration Guide*
- *IBM Tivoli Business Service Manager Customization Guide*

IBM Netcool GUI Foundation

Netcool GUI Foundation Version 1.1 Administration Guide
