



## CHAPTER 3

# Installing Cisco Video Assurance Management Solution 2.0

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## Before You Install

This chapter describes the procedure for a new installation of Cisco VAMS 2.0.



**Note**

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**Important:** The procedures in this chapter are for a new installation of Cisco VAMS 2.0 and the Cisco Info Center components. Installing the Cisco Info Center components provided with Cisco VAMS where there is an existing Cisco Info Center installation might result in overwriting rules files and existing configuration settings. If you are installing VAMS 2.0 in an existing Cisco Info Center environment, please contact Cisco Advanced Services for assistance

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**Note**

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You must meet all preinstallation tasks listed in Chapter 2, “Preinstallation” before continuing. Complete these tasks before installing the Cisco VAMS 2.0 software package.

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## Release Notes

Before you install Cisco VAMS 2.0, see the *Release Notes for Cisco Video Assurance Management Solution, 2.0*, which are available online on Cisco.com:

[http://www.cisco.com/en/US/products/ps9518/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps9518/prod_release_notes_list.html)

The release notes contain important information about system requirements, installation and upgrade, and open and resolved caveats.

## Software on the Installation Media

The Cisco VAMS 2.0 software package contains two DVDs:

- **Disk 1**—Contains Cisco ANA Extensions for VAMS 2.0.
- **Disk 2**—Contains the Cisco Info Center software.

## Install the Cisco ANA 3.6 Extensions

To install the Cisco ANA Extensions for Cisco VAMS 2.0:

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- Step 1** Log in to the server as the root user.
- Step 2** Insert the first Cisco VAMS 2.0 installation DVD into the DVD drive on your system.
- Step 3** Check the system prerequisites such as required disk space. See [Chapter 1, “Overview.”](#)
- Step 4** If an older version of the Cisco VAMS exists, uninstall it. See [Chapter 4, “Uninstalling Cisco Video Assurance Management Solution 2.0.”](#)
- Step 5** Change directory to the root directory on the DVD.  
For example:
- ```
cd /cdrom/cdrom0/
```
- Step 6** Start the installation script.  
For example:
- ```
./install.sh -o
```
- The installation script prompts you to enter site-specific values for the installation.
- Step 7** When prompted to enter login information for Cisco ANA, you must enter an administrative-level user ID and password. If necessary, obtain this information from your administrator.
- Step 8** If your login information does not authenticate, retry by entering **r**, or bypass the Cisco ANA authentication by entering **y**.

The specified login and password do not authenticate.  
Do you wish to continue with the installation? [Y(es)/N(o)/R(etry)]:



### Caution

If you enter **y** to bypass authentication, you must run the *setCimsCredentials.sh* script later. That script is in the *pdf/scripts/* directory. Cisco VAMS 2.0 will not operate correctly if you do not run the *setCimsCredentials.sh* script after a failed authentication.

A message similar to this one should appear on your screen:

```
Installation of <CSCOsgm> was successful.
Modifying configuration files
preparing client configuration..
updating client configuration..
Restarting ANA Gateway
...
Installation completed.
```

- Step 9** After successful installation, continue to [Chapter 5, “Configuring the Components of the Cisco Video Assurance Management Solution 2.0.”](#)
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## Install Cisco Info Center

The second DVD in the VAMS 2.0 installation media contains the Cisco Info Center software. Install the hardware and software for the Cisco Info Center/Netcool on dedicated servers.

The Cisco Info Center software provided with Cisco VAMS 2.0 includes:

- **Netcool Omnibus**—Includes the Tivoli Netcool Object Server, probes, gateways, desktop tools, and administration tools.
- **TBSM**—Tivoli Business Service Manager (TBSM) is the high-level interface used to view network services, including the devices in your Cisco VAMS 2.0 installation. It allows you to launch an event list that includes Cisco VAMS 2.0 alerts, and also allows you to launch CMM to perform additional monitoring functions.
- **Webtop**—Tivoli Netcool Webtop is the web-based event is a component of the IBM Tivoli Netcool suite that provides user authentication for applications like Netcool/Webtop, Netcool/Impact, Netcool/Precision and Tivoli Business Service Manager (TBSM).
- **Impact**—Netcool/Impact is a set of runnable server components that work together to provide enhanced event management processing and integration functionality for the Netcool suite of products.
- **NcKL**—Includes the Tivoli Netcool probes and the Netcool Knowledge Library.

Complete these steps to install the Cisco Info Center software:

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- Step 1** On the host where you want to install the Cisco Info Center components, install the GNU Compiler Collection (GCC).

- Step 2** Complete these steps to create a *ncoadmin* user:

- a. Enter the following command:

```
# useradd -m -s /bin/bash -d /export/home/ncoadmin ncoadmin
```

You are prompted for the NCO admin password:

- b. Enter the NCO admin password

```
# passwd ncoadmin
```

- c. When prompted to verify the password, verify it:

```
# New Password:ncoadmin
# Re-enter new Password:ncoadmin
```

- Step 3** Add the following lines to the `.bashrc` file for root and for the `ncoadmin` user:

```
export PATH="${PATH}:/usr/local/bin"
export LD_LIBRARY_PATH="${LD_LIBRARY_PATH}:/usr/local/lib:/lib"
export NCHOME="/opt/vams"
export NC_RULES_HOME="$NCHOME/omnibus/probes/solaris2/rules"
export NETCOOL_LICENSE_FILE="27000@localhost"
```

- Step 4** On the host where you want to install the Cisco Info Center components, insert Disk 2 of the Cisco VAMS 2.0 distribution.

- Step 5** Navigate to the `/cdrom/cdrom0` directory:

This directory includes the `vams-2.0_build-0.6.tar` file, which contains the Cisco Info Center components.

- Step 6** Copy the `vams-2.0_build-0.6.tar` file to a temporary directory:

```
# cp vams-2.0_build-0.6.tar /tmp/
```

- Step 7** As the `ncoadmin` user, untar the file:

```
tar -xvf vams-2.0_build-0.6.tar
```

The extraction process creates a `/VAMS-2.0-image` directory and extracts the Cisco Info Center distribution files to the directory. Messages similar to the following appear:

```
x VAMS-2.0-image, 0 bytes, 0 tape blocks
x VAMS-2.0-image/images, 0 bytes, 0 tape blocks
x VAMS-2.0-image/images/omnibus, 0 bytes, 0 tape blocks
x VAMS-2.0-image/images/omnibus/Netcool-OMNIBus-7.2-Solaris.tar, 181621248 bytes, 354729
tape blocks
x VAMS-2.0-image/images/webtop, 0 bytes, 0 tape blocks
x VAMS-2.0-image/images/webtop/ncw-2.1.59-solaris2.tar, 248013312 bytes, 484401 tape
blocks
x VAMS-2.0-image/images/tbsm, 0 bytes, 0 tape blocks
x VAMS-2.0-image/images/tbsm/TBSM-v4.1.1-Solaris.tar, 1669099520 bytes, 3259960 tape
blocks
x VAMS-2.0-image/images/impact, 0 bytes, 0 tape blocks
x VAMS-2.0-image/images/impact/NetcoolImpact-Solaris_V4.0.tar, 513187840 bytes, 1002320
tape blocks
x VAMS-2.0-image/images/ncsm, 0 bytes, 0 tape blocks
x VAMS-2.0-image/images/ncsm/ncsm-1.3-solaris2.tar, 92426240 bytes, 180520 tape blocks
.....
```

- Step 8** Navigate to the `VAMS-2.0-image` directory and list the directory files:

```
# cd VAMS-2.0-image/
# ls -ltr
```

Messages similar to the following appear:

```
total 118
drwxr-xr-x  8 ncoadmin other          512 Feb 23 14:43 custom
drwxr-xr-x 10 ncoadmin other          512 May  8 14:33 images
-rwxr-xr-x  1 ncoadmin other        25201 May  9 08:17 install_vams.sh
drwxr-xr-x  2 ncoadmin other          512 May 13 07:30 options
-rwxr-xr-x  1 ncoadmin other        31313 May 20 00:53 customize_vams.sh
```

**Step 9** Start the Cisco Info Center installation script:

```
# ./install_vams.sh
```

The script starts and prompts you to select the components to install:

```
=====
Product Selection Menu
=====
1. omnibus
2. tbsm
3. webtop
4. ncsn
5. impact
6. NcKL
=====
Select:
1-6) Select Product
s) Select all
u) Unselect all
I) Start Installation
Q) Quit
```

**Step 10** Enter **s** to select all products.

The products are marked as **SELECTED**:

```
=====
Product Selection Menu
=====
1. omnibus          SELECTED
2. tbsm             SELECTED
3. webtop           SELECTED
4. ncsn             SELECTED
5. impact           SELECTED
6. NcKL             SELECTED
=====
Select:
1-6) Select Product
s) Select all
u) Unselect all
I) Start Installation
Q) Quit
```

**Step 11** Enter **i** to install all of the selected products.

Messages display indicating the progress of the installation.

You are prompted to customize the products:

```
Would you like to customize the products? [y]:
```

**Step 12** Enter **y** to start the product customization process.

The product customization menu appears:

```

=====
Product Customization Menu
=====
1. omnibus
2. security
3. tbsm
4. webtop
5. impact
6. rules
=====
Select:
1-6) Select Product
s) Select all
u) Unselect all
C) Start Customization
Q) Quit

```

**Step 13** Enter **s** to select all of the products.

The products are marked as **SELECTED**.

```

=====
Product Customization Menu
=====
1. omnibus      SELECTED
2. security     SELECTED
3. tbsm        SELECTED
4. webtop      SELECTED
5. impact      SELECTED
6. rules       SELECTED
=====
Select:
1-6) Select Product
s) Select all
u) Unselect all
C) Start Customization
Q) Quit

```

**Step 14** Enter **c** to start customization.

The installation script customizes the products and displays informational messages  
Installation of the Cisco Info Center components is now complete.

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## Distributing the Cisco Info Center Components

The installation scenario described in the previous section installs all of the Cisco Info Center components on one host. It is also possible to distribute the components over one or more hosts.

For detailed information on planning your installation and installing Cisco Info Center, see the Cisco Info Center and Netcool/OMNIBus documents referenced in the following publications:

- *Documentation Guide for Cisco Video Assurance Management Solution, 2.0*

This document provides links to the IBM Tivoli/Netcool documentation for the Cisco Info Center components and to the documentation for the other Cisco VAMS 2.0 components. The VAMS 2.0 documentation guide is viewable online at:

[http://www.cisco.com/en/US/docs/net\\_mgmt/cisco\\_video\\_assurance\\_mgt\\_solution/2.0/roadmap/vams20dg.html](http://www.cisco.com/en/US/docs/net_mgmt/cisco_video_assurance_mgt_solution/2.0/roadmap/vams20dg.html)

- *Cisco Info Center 7.1 Documentation Guide and Supplemental Licence Agreement*
- *Cisco Info Center 7.2 Documentation Guide and Supplemental Licence Agreement*

The Cisco Info Center documentation guides are viewable online at:

[http://www.cisco.com/en/US/products/sw/netmgtsw/ps996/products\\_documentation\\_roadmaps\\_list.html](http://www.cisco.com/en/US/products/sw/netmgtsw/ps996/products_documentation_roadmaps_list.html)

## Starting Cisco Info Center

### Starting the Object Server

To start the Object Server, issue the following command:

```
./nco start
```

### Starting the MTTrapd Probe

To start the MTTrapd probe, complete these steps:

- 
- Step 1** Log in to the Cisco Info Center host as *root*.
- Step 2** To enable the license for the MTTrapd probe, add the following lines to the *.bash\_profile* file for the root user:
- ```
export NC_RULES_HOME="$NCHOME/omnibus/probes/solaris2/rules"  
export NETCOOL_LICENSE_FILE="27000@localhost"
```
- Step 3** Enter the following command to start the MTTrapd probe:
- ```
# $NCHOME/omnibus/probes/nco_p_mttrapd_ems -rulesfile  
# $NCHOME/omnibus/probes/solaris2/rules/snmpttrap.rules &
```
-

# Starting the Netcool GUI

## Starting Netcool Webtop

To check the status of Netcool, log in to the GUI at <http://<hostname>:8080> where *hostname* is the name of the host where you installed Cisco Info Center Webtop.

## Starting TBSM

For information on starting the Tivoli Business Services Manager (TBSM) application, see the “Starting and Stopping TBSM Components or Services” section in the *Tivoli Business Service Manager 4.1 Administrator’s Guide*. This section describes `tbsm_suite.sh` script that you can use to start and stop TBSM components. The TBSM 4.1 Administrator’s Guide is locatable at the following location:

<http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/index.jsp?topic=/com.ibm.tivoli.itbsm.doc/welcome.htm>

## Logging in to TBSM

To log in to TBSM, go to the URL for the TBSM application:

`http://ip_address.:8080/`

where `ip_address` is the IP address of the TBSM server.

# Upgrading to Cisco VAMS 2.0

If you need to upgrade an existing Cisco VAMS 1.5 installation to Cisco VAMS 2.0, consult with Cisco Advanced Services for assistance in the upgrade.