CHAPTER 2

Getting Started

This chapter provides information on configuring the TV CDS servers. The topics covered in this chapter include:

This chapter assumes the CDS servers are already installed and takes you through the next steps toward configuring and monitoring the CDS.

Initially Configuring the Devices

You must initially configure the Content Delivery Engines (CDEs) before they can participate in the CDS network. The CDE that runs the TV Content Delivery System Manager (CDSM) must be initialized first so that the CDEs running the Streamers and Vaults, and optionally Caching Nodes, or the ISVs can communicate with it. For more information about initially configuring the CDEs, see the *Cisco ASR 9000 Series Aggregation Services Router ISM Line Card Hardware Installation Guide*, or the *Cisco TV CDS 2.2 Installation, Upgrade, and Maintenance Guide for the Cisco ISM (Integrated Service Module) Line Card*.

Initial configuration of your CDEs includes basic network configuration settings to provide connectivity to the CDSM. After the CDEs are configured with these settings you can use the CDSM to configure and manage all the servers in the CDS.

After you have initially configured your CDEs, you must initially set up your CDS and activate any optional features. See the "Initializing the CDS and Activating the Optional Features" section on page 2-3 for more information.

Logging In to the TV CDSM

To log in to the TV CDSM, do the following:

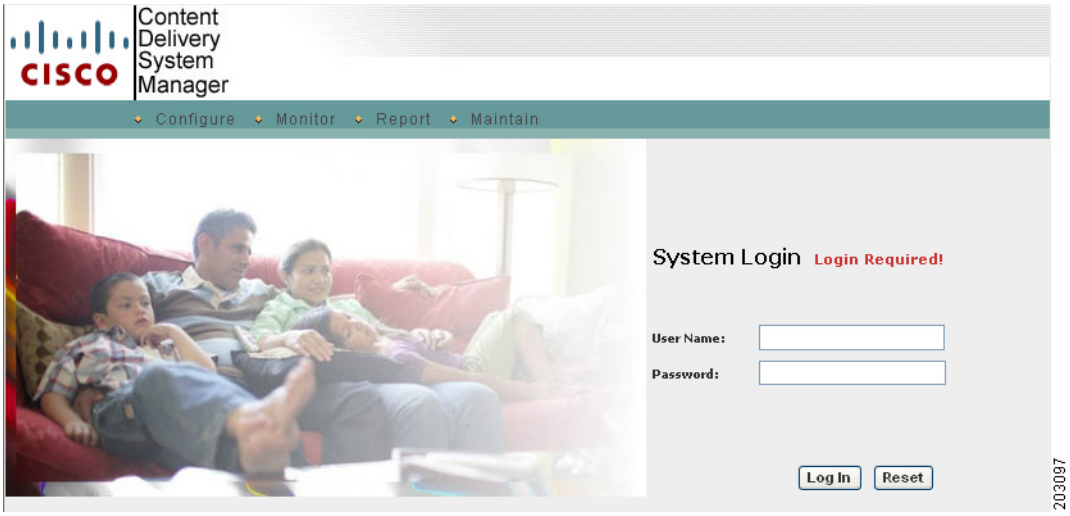
Step 1 Using your web browser, enter the IP address or hostname of your CDSM.

For example, if the IP address of your CDSM is 192.168.0.236, you can access it by entering http://192.168.0.236 in the address or location text box of your browser program.

Note Consult your as-built documentation for the IP address of the CDSM. If you have redundant CDSMs, use the virtual IP address, not the IP addresses of the physical Ethernet interfaces.

The System Login page is displayed, as shown in Figure 2-1.

Figure 2-1 System Login Page



Note The CDSM supports Microsoft Internet Explorer version 6 or higher.

Step 2 Enter your user name and password and click **Log In**.

The built-in user name is *admin* and the initial password is *admin*.

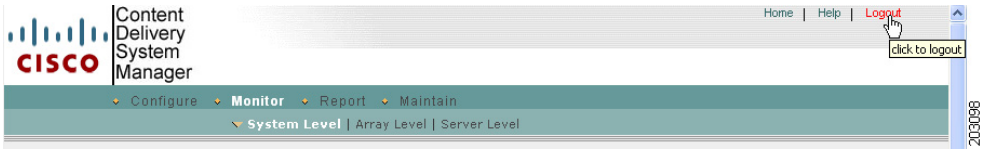
Note We strongly recommend that you change the built-in user password as soon as possible. See the "Editing User Settings" section on page 7-3 for more information.

Tip To navigate within the CDSM, click one of the navigation bar options (for example, Maintain), then one of the tab options (for example, Users), and then one of the left-panel menu options (for example, Add Users). Navigational directions in procedures are written as in the following example:
Choose **Maintain > Users > Add Users**.

Logging Out

To log out of the CDSM from any page, click **Logout** at the upper-right part of the page. See Figure 2-2.

Figure 2-2 Logging Out



Initializing the CDS and Activating the Optional Features

Initial configuration of your CDS includes selecting the CServer version, the installation type, and other parameters that must be configured before you can continue the configuration process.

If the Media Scheduler or Ingest Manager are part of your deployment, you need to activate these features.

To initialize your CDS or activate the Media Scheduler and Ingest Manager, do the following:

Step 1 Log in to the CDSM as *admin*, or use another user account that has master access.

Step 2 Add a user with engineering access.

a. Choose **Maintain > User > Add Users**. The Add Users page is displayed.

b. In the **New User** and **Password** fields, enter the user name and password for this account.

c. From the **Access** drop-down list, choose **Engineering**.

d. Click **Add User**.

Step 3 Log out of the CDSM, and log in as the user with the engineering access level that you specified in Step 2. The CDSM Setup page is displayed.

Step 4 Choose the options for your deployment and click **Submit**. For more information about the fields on this page, see the "CDSM or VVIM Setup" section on page D-3.

Step 5 Scroll down to the Media Scheduler section, and click the **ON** radio button next to the **Media Scheduler** field.

Step 6 In the **Activation Key** field, enter the software access key from your Right to Use Notification for the Content Delivery Application Media Scheduler (CDAMS) product.

Step 7 In the **Importer/Transformer Type** field, choose either **OCN** or **SA Tribune**. The Importer/Transformer Type specifies the expected EPG format, the fields for the Input Channels page, and the expected ADI metadata.

Step 8 Scroll down to the Ingest Manager section, and click the **ON** radio button next to the **Ingest Manager** field.

Step 9 In the **Activation Key** field, enter the software access key from your Right to Use Notification for the Content Delivery Application Ingest Manager (CDAIM) product.

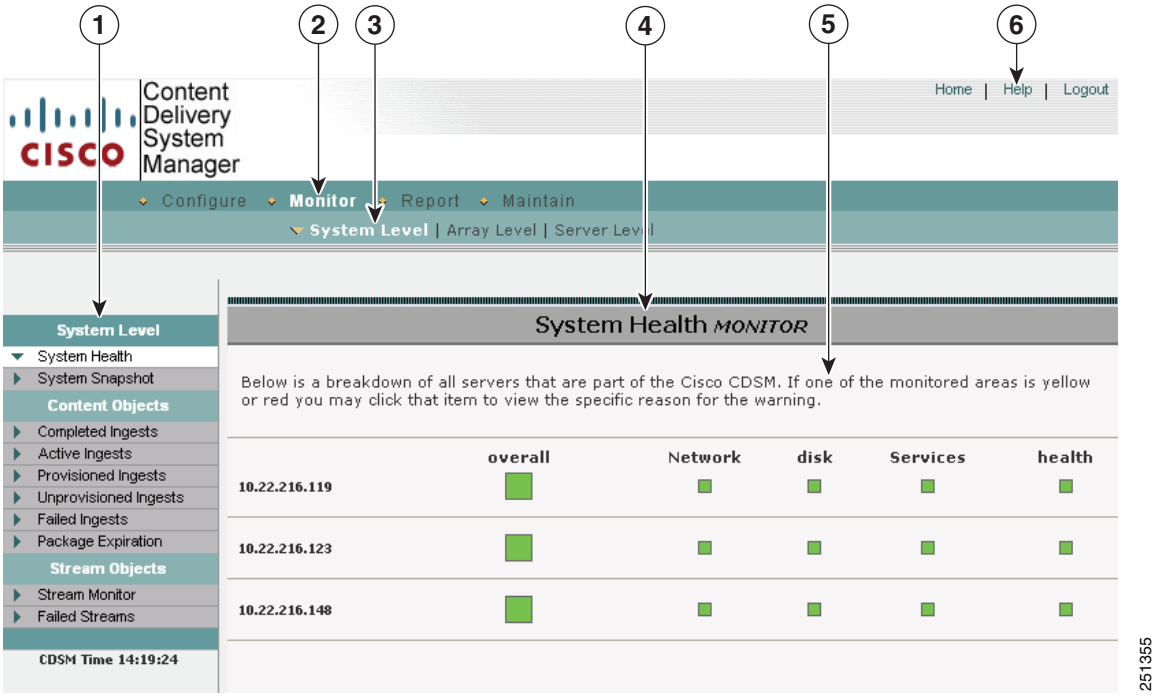
Step 10 Click **Submit**.

Step 11 Log out of the CDSM.

Navigating the CDSM

The CDSM pages consist of the elements illustrated in Figure 2-3.

Figure 2-3 CDSM User Interface



1	Left panel menu	**4**	Page title
2	Tabs	**5**	Main panel
3	Tab options	**6**	Tools (Home, Help, and, Logout)

The tabs are accessible from any page in the CDSM.

The tab options are used to select the applicable level. In the Configure and Monitor pages, the tab option selected determines whether the configuration or monitoring applies to the system as a whole, to the array level, or to a specific server.

Using Online Help

Online help is available in the CDSM. You can use it by clicking on the **Help** button in the upper-right corner of any of the pages.

Context-sensitive help is provided for the page you are viewing.

The CDSM offers several levels of help:

- Each page of the CDSM includes some basic help, normally displayed in the main panel.
- The Help button displays context-sensitive help presented in a separate browser window. The content of this page is different depending on the page of the CDSM you are viewing when you click **Help**. After inside the help system you can move around to view different topics by using a variety of navigation tools:
  - Back/forward page buttons
  - Links within the page contents
  - Table of Contents, accessed through the navigation panel at the left of the page.
  - **Contents** icon shows and hides the Table of Contents.
  - **Print** icon prints the page you are viewing.
- From the Help window, you can display the full *Cisco TV CDS 2.4 RTSP Software Configuration Guide for the Cisco ISM (Integrated Service Module) Line Card* by clicking the View PDF button.

Configuration Workflows

After you have completed the initial installation and configuration of the CDEs for the CDS and you have verified connectivity to the CDSM, you are ready to configure the CDS for content delivery. The configuration workflow consists of one ore more of the following:

- CDS Workflow
- VVI Workflow
- TV MediaX Configuration Workflow

CDS Workflow

Table 2-1 lists the basic tasks, in the recommended order, for configuring the CDS for content delivery with references to the associated sections in each chapter.

Table 2-1 CDS Configuration Workflow

Task	Description	Where to Find More Information
Change admin password	Change the administrator password for the CDSM.	"Editing User Settings," page 7-3
Interface setup	Configure the different interfaces on the CDS servers.	"Configuring the Interfaces," page 3-55
Server setup	Configure the IP addresses and ports for the interfaces, as well as other settings such as quality of service (QoS).	"Configuring the Servers," page 3-58

Table 2-1 CDS Configuration Workflow (continued)

Task	Description	Where to Find More Information
Route table	Route Table identifies destination subnetworks for cache, stream, and stream control interfaces. Route Table is optional.	"Configuring the Route Table," page 3-66
Stream Groups setup	A Stream Group consists of one or more Streamers. Stream Groups relate to QAM gateways or destination subnetwork by the Stream Group preference.	"Configuring Stream Groups," page 3-29
Control and setup IPs	Configure the Control server and Setup server IP address for the Stream Groups.	"Configuring the Control and Setup IPs," page 3-42
QAM gateways[1]	Configure the QAM Gateways for the CDS.	"Configuring QAM Gateways," page 3-4
Headend setup[1]	Associate service groups with Stream Groups.	"Configuring the Headend Setup," page 3-7
Ingest tuning	Configure the trick-mode speeds for ingested content.	"Configuring Ingest Tuning" section on page 3-17

1. If the Stream Destination feature is enabled, the QAM Gateway page and Headend Setup page are replaced with the Stream Destination page. For more information, see the "Configuring Stream Destinations" section on page 3-8.

The other configuration settings, DNS settings, and so on, can be configured in any order.

VVI Workflow

The Virtual Video Infrastructure can be centrally managed or can use split-domain management.

Central Management Workflow

Table 2-2 lists the basic tasks, in the recommended order, for configuring the VVI with central management for content delivery with references to the associated sections in each chapter.

Table 2-2 VVI Configuration Workflow

Task	Description	Where to Find More Information
Change administrator password	Change the administrator password for the CDSM.	"Editing User Settings," page 7-3
Interface setup	Configure the different interfaces on the CDS servers.	"Configuring the Interfaces," page 3-55
Server setup	Configure the IP addresses and ports for the interfaces, as well as other settings such as quality of service (QoS).	"Configuring the Servers," page 3-58
Route table	Route Table identifies destination subnetworks for cache, stream, and stream control interfaces. Route Table is optional.	"Configuring the Route Table," page 3-66

Table 2-2 VVI Configuration Workflow (continued)

Task	Description	Where to Find More Information
Stream Groups setup	A Stream Group consists of one or more Streamers. Stream Groups relate to QAM gateways or destination subnetwork by the Stream Group preference.	"Configuring Stream Groups," page 3-29
Control and Setup IP addresses	Configure the Control server and Setup server IP address for the Stream Groups.	"Configuring the Control and Setup IPs," page 3-42
Cache Groups setup	A Cache Group consists of one or more Caching Nodes.	"Configuring Cache Groups," page 3-36
Stream to cache map	Cache Groups are mapped to Stream Groups and given a preference.	"Mapping Stream Groups to Cache-Fill Sources," page 3-39
QAM gateways[1]	Configure the QAM Gateways for the CDS.	"Configuring QAM Gateways," page 3-4
Headend setup[1]	Associate service groups with Stream Groups.	"Configuring the Headend Setup," page 3-7
Ingest tuning	Configure the trick-mode speeds for ingested content.	"Configuring Ingest Tuning" section on page 3-17

1. If the Stream Destination feature is enabled, the QAM Gateway page and Headend Setup page are replaced with the Stream Destination page. For more information, see the "Configuring Stream Destinations" section on page 3-8.

The other configuration settings, DNS settings, and so on, can be configured in any order.

Split-Domain Management Workflow

Table 2-3 lists the basic tasks, in the recommended order, for configuring the VVI with split-domain management (VVIM and Stream Manger) for content delivery with references to the associated sections in each chapter. For more information, see the Chapter 6, "Network Design," and the "CDSM or VVIM Setup" section on page D-3.

Table 2-3 VVI Split-Domain Configuration Workflow

Task	Manager	Description	Where to Find More Information
Change administrator password	VVIM and Stream Manager	Change the administrator password for the CDSM.	"Editing User Settings," page 7-3
Interface setup	VVIM and Stream Manager	Configure the different interfaces on the CDS servers.	"Configuring the Interfaces," page 3-55
Server setup	VVIM and Stream Manager	Configure the IP addresses and ports for the interfaces, as well as other settings such as quality of service (QoS).	"Configuring the Servers," page 3-58
Route table	VVIM and Stream Manager	Route Table identifies destination subnetworks for cache, stream, and stream control interfaces. Route Table is optional.	"Configuring the Route Table," page 3-66

Table 2-3 VVI Split-Domain Configuration Workflow (continued)

Task	Manager	Description	Where to Find More Information
Stream Groups setup	Stream Manager	A Stream Group consists of one or more Streamers. Stream Groups relate to QAM gateways or destination subnetwork by the Stream Group preference.	"Configuring Stream Groups," page 3-29
Control and setup IPs	Stream Manager	Configure the Control server and Setup server IP address for the Stream Groups.	"Configuring the Control and Setup IPs," page 3-42
Cache Groups setup	VVIM	A Cache Group consists of one or more Caching Nodes.	"Configuring Cache Groups," page 3-36
Cache Group locator	Stream Manager	Locate Cache Groups in VVIM domain.	"Locating Cache Groups," page 3-31
Stream to cache map	Stream Manager	Cache Groups are mapped to Stream Groups and given a preference.	"Mapping Stream Groups to Cache-Fill Sources," page 3-39
QAM gateways[1]	Stream Manager	Configure the QAM Gateways for the CDS.	"Configuring QAM Gateways," page 3-4
Headend setup[1]	Stream Manager	Associate service groups with Stream Groups.	"Configuring the Headend Setup," page 3-7
Ingest tuning	VVIM	Configure the trick-mode speeds for ingested content.	"Configuring Ingest Tuning" section on page 3-17

1. If the Stream Destination feature is enabled, the QAM Gateway page and Headend Setup page are replaced with the Stream Destination page. For more information, see the "Configuring Stream Destinations" section on page 3-8.

The other configuration settings, DNS settings, and so on, can be configured in any order.

TV MediaX Configuration Workflow

Table 2-4 lists the basic tasks for configuring the TV MediaX Suite CDA with references to the associated sections in each chapter.

Table 2-4 TV MediaX Configuration Workflow

Task	Where to Find More Information
Specify the data feed import type used to populate the Media Scheduler, and the transformer type used to process the ADI metadata.	"Configuring Input Channels" section on page 3-24
Map each channel to a multicast group IP address and port, and specify the settings for every program in the channel.	"Configuring Input Channels" section on page 3-24

Table 2-4 TV MediaX Configuration Workflow (continued)

Task	Where to Find More Information
Upload an EPG file. During the upload process, the EPG file is parsed into database records that in turn populates the Media Scheduler.	"Uploading an EPG File" section on page 7-10
Schedule the ingest of content. The Media Scheduler does the following: 1. Values from the EPG file are combined with the values from the Input Channels page, and the ADI metadata XML file is created. 2. The database records are marked according to the Media Scheduler settings (scheduled, unscheduled, marked for scheduling, and so on). 3. The ADI metadata is published to the backoffice.	"Configuring the Media Scheduler" section on page 3-47