



# Using the Device Management User Interface

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Using the WebNS Device Management user interface, you can manage your CSS using a standard Web browser. This chapter describes the basics of using the Device Management user interface. It includes:

- [Accessing and Logging in to the WebNS Device Management User Interface](#)
- [Navigating the WebNS Device Management Interface](#)
- [Adding or Modifying Configuration Information](#)
- [Using a Monitor Form](#)
- [Using a Summary Form](#)
- [Using Online Help](#)
- [Troubleshooting](#)

# Accessing and Logging in to the WebNS Device Management User Interface

Before establishing a WebNS Device Management user interface session, you must enable Device Management through the CLI and optionally create an ACL that defines the IP address that can connect to the management port. For more information, refer to Chapter 2, [Configuring the CSS for Device Management](#), the [“Enabling the WebNS Device Management User Interface”](#) and [“Configuring an SNMP Community”](#) sections. For information on creating an ACL, refer to the *Cisco Content Services Switch Security Configuration Guide*.



## Note

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When you establish a connection to the CSS for Device Management using your Web browser, the CSS maintains that connection until the Web browser times out the connection. If you enter the **restrict web-mgmt** command at the CLI while a Device Management session is in progress, the CSS rejects any further navigation with the browser until you enter the **no restrict web-mgmt** command.

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To access the WebNS Device Management user interface:

1. In your Web browser, enter the IP address of the CSS in the Address or Location field (depending on your browser). The URL requires an “s” (https://) when accessing the WebNS Device Management user interface to obtain a secure connection.

For example:

```
https://161.16.2.3
```

The Security Alert message boxes appear informing you that you are about to view pages over a secure connection. These are the standard Web browser message boxes that appear when requesting any secure page on the Internet. For details on SSL security and installing the SSL security certificate, refer to Chapter 2, [Configuring the CSS for Device Management](#), the [“Viewing and Installing the SSL Security Certificate”](#) section.

2. Click **Yes**. The WebNS Device Management Login form appears.

Figure 3-1 WebNS Device Management Login Form

The screenshot shows a Microsoft Internet Explorer browser window displaying the login form for Cisco's Content Services Switch (CSS) WebNS Device Management User Interface. The address bar shows the URL <https://110.86.208.79>. The page content includes a welcome message, a disclaimer about cryptographic features, a link to U.S. laws, and a login form with fields for 'User Name' and 'Password', and a 'Login' button. The status bar at the bottom indicates 'Enter the password' and 'Internet'.

**Welcome to Cisco's Content Services Switch (CSS) WebNS Device Management User Interface.**

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:  
<http://www.cisco.com/www/export/crypto/cool/starg.html>

If you require further assistance please contact us by sending email to [export@cisco.com](mailto:export@cisco.com).

Please enter your username and password to access the CSS device management user interface.

User Name	<input type="text"/>
Password	<input type="password"/>

Enter the password

Internet

104033

## Accessing and Logging in to the WebNS Device Management User Interface

3. Enter a user name and password, then click **Login**. The MIB-II System Information form appears.



### Note

The first time you log in to the WebNS Device Management user interface, use the default username of **admin** and the default password of **system**. To configure usernames and passwords, refer to the *Cisco Content Services Switch Getting Started Guide*, Chapter 1, Logging in and Getting Started.

**Figure 3-2** WebNS Device Management MIB-II System Information Form

Information related to the operating environment of the CSS.

Description	Value
Name	Support
Contact	Cisco Systems, Content Network Systems
Location	Customer Premises
Description	Content Switch SW Version 5.10 Build 1 with SNMPv1A2c Agent
Object ID	1.3.6.1.4.1.2467.4.5
System Up Time	0 days 00h:01m:43s (10324)

Update Cancel Help

# Navigating the WebNS Device Management Interface

The Navigation tree (located in the lower left frame of the browser window) displays a list of folders that contain Configuration, Monitor, and Summary options that you select to configure and manage a CSS. Expand the appropriate folder, then select the option you want to configure. The Navigation tree lists Configuration, Monitor, and Summary options arranged by category.

**Note**

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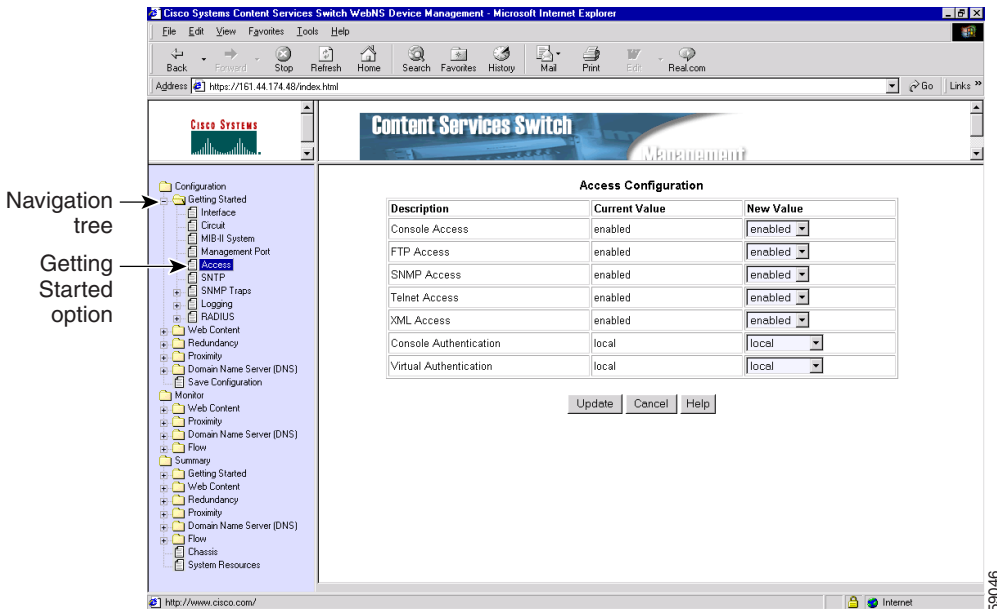
Navigation tree icons may not always display properly, but the pages function correctly. Open a page by clicking the corresponding text.

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For example, to configure access to your CSS:

1. Click the plus sign (+) next to the **Getting Started** folder in the Navigation tree. The folder expands to display a list of options that you can select to configure your CSS.
2. Click the **Access** icon. The Access Configuration form appears in the Workspace (right frame of the Device Management user interface) as shown in [Figure 3-3](#).

Figure 3-3 Access Configuration Form



3. Select the appropriate settings from the drop-down lists, then click **Update**. The software updates the CSS running configuration.

To remove any changes you made in the form and return to the default values, click **Cancel**.

To obtain Online Help on a Device Management form and its fields, click the **Help** button at the bottom of the form (see the “Using Online Help” section for details on using Online Help).

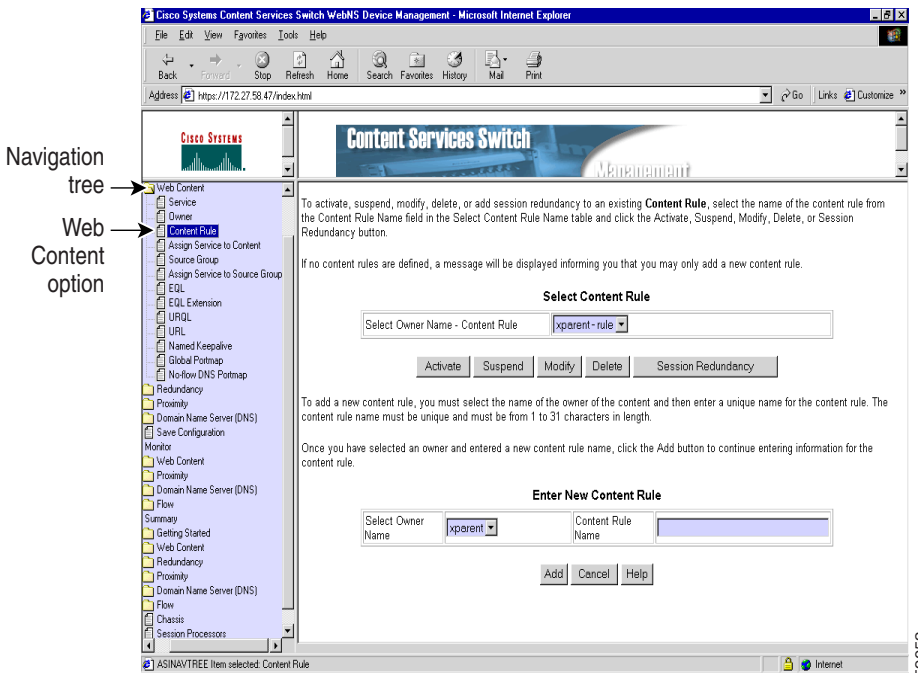
## Adding or Modifying Configuration Information

A number of Configuration forms in the Web Content, Proximity, and Domain Name Server (DNS) Navigation tree allow you to add new configuration information to the CSS running configuration, and then to access, view, and modify that configuration information at a later time.

For example, to add a new content rule to the CSS running configuration, and then modify parameters in the content rule:

1. Click the plus sign (+) next to the **Web Content** folder in the Navigation tree. The folder expands to display a list of options that you can select to configure your CSS (Figure 3-4).

**Figure 3-4 Content Rule Name Configuration Form**



2. Click the **Content Rule** icon. The Content Rule Name Configuration form appears in the Workspace (right frame of the Device Management user interface) as shown in Figure 3-4.

## Adding or Modifying Configuration Information

3. Select an owner name from the Select Owner Name drop-down list, then enter a content rule name. Click **Add** to access the Content Rule Configuration form (Figure 3-5) where you configure information related to the new content rule.

Figure 3-5 Content Rule Configuration Form

The screenshot shows the 'Add Content Rule' form in a web browser. The browser address bar shows 'https://161.44.174.48/index.html'. The page title is 'Content Services Switch Management'. The form has a table with two columns: 'Description' and 'Value'. The 'Value' column contains the following information:

Description	Value
Owner Name	lerin
Content Name	rule1
VIP Address	
TCP/UDP Port Number	
IP Protocol	Any (no protocol)
DNS Balance	useownerdnsbalance
Load Balance	roundrobin
Load Threshold	254
Bypass Transparent Caches	disable
Failover	linear
Primary Server	
Secondary Server	
Persistence	enable
Application Type	http

A callout box on the right side of the form points to the 'Content Name' field with the text: 'Enter information to configure a new content rule or to modify the information in an existing content rule.'

4. Specify content rule, sticky, and content rule URL parameters to configure the content rule. When you are finished, click the **Add** button (located at the bottom of the Content Rule Configuration form) to save the content rule information in the CSS running configuration. The Content Rule Name Configuration form (see Figure 3-4) is redisplayed.
5. Click **Activate** to activate the content rule.
6. If you want to make a change to a content rule, select from the list of existing content rules in the Content Rule Name Configuration form, then click **Modify**. The Content Rule Configuration form (see Figure 3-5) for that content rule appears.



- As necessary, modify content rule, sticky, and content rule URL parameters. When you are finished, click the **Modify** button (located at the bottom of the Content Rule Configuration form) to update the content rule information in the CSS running configuration. You return to the Content Rule Name Configuration form (see [Figure 3-4](#)).

## Using a Monitor Form

There are a number of forms in the WebNS Device Management user interface that allow you to view statistical information about your CSS. Refer to Chapter 1, [Using the Device Management User Interface](#), the “CSS Monitor Form Features” section.

To use a Monitor form, click the plus sign next to a folder in the Monitor tree. The folder expands to display a list of areas in your CSS that you can monitor.

**Figure 3-6 Monitor Form Example**

The screenshot displays the Cisco Systems Content Services Switch WebNS Device Management interface. The main content area shows the 'Content Service Statistics' table:

Owner Name	Content Name	Service Name	Hits	Bytes	Frames	DNS Hits	DNS Proximity Hits
erin	rule	s3	0	0	0	0	0
erin	ruleredund	s3	0	0	0	0	0
erin	ruleredund2	s3	0	0	0	0	0

Below the table are the following buttons: Enable Polling, Disable Polling, Change Poll Timer, Refresh, and Help. The 'Monitor tree' on the left shows the 'Content Service' folder expanded. Annotations include 'Monitor tree' pointing to the tree, 'Monitor option' pointing to the plus sign next to 'Content Service', and 'Monitor buttons' pointing to the buttons below the table.

Monitor forms are polled pages, that is, the software automatically updates the information in the active Monitor form every 60 seconds. The polling interval (time between automatic refreshes) defaults to 60 seconds with a maximum of 24 hours.

Each Monitor form includes the following buttons:

- **Enable Polling**—Enables the automatic refresh of data in the Monitor form. The polling window is based on the specified poll timer.
- **Disable Polling**—Disables polling on any monitored form.
- **Change Poll Timer**—Allows you to change the polling interval for displaying statistical information. The button accesses a dialog box, from which you enter the desired poll interval. Available range is 60 seconds (default) to 86400 seconds (24 hours).
- **Refresh**—Updates the information displayed in the form.

## Using a Summary Form

There are a number of forms in the WebNS Device Management user interface that allow you to view configuration and statistical summary information about your CSS. Refer to Chapter 1, [Using the Device Management User Interface](#), the “CSS Summary Form Features” section.

To use a Summary form:

1. Click the plus sign next to a folder in the Summary tree. The folder expands to display a list of functional areas in your CSS in which you can view summary information ([Figure 3-7](#)).

Figure 3-7 Summary Form Example

The screenshot displays the Cisco Content Services Switch Device Management User Interface. The browser window title is "Cisco Systems Content Services Switch WebNS Device Management - Microsoft Internet Explorer". The address bar shows "https://161.44.174.48/index.html".

The interface features a navigation tree on the left side. Annotations indicate the "Summary tree" and "Summary option" (Source Group Services).

The main content area displays two tables:

**Source Group Services**

Source Group Name	Source Group IP	Service Name	Service IP Address	Service State
redundgroup	192.168.2.228	s3	192.168.2.3	down

**Source Group Destination Services**

Source Group Name	Source Group IP	Destination Service Name	Destination Service IP Address	Destination Service State
redundgroup	192.168.2.228	s1	172.168.254.16	suspended

Below the tables are "Refresh" and "Help" buttons. An annotation points to the "Refresh button".

At the bottom of the browser window, a status bar reads: "Click Refresh to view the latest list of configured source groups".

2. Click **Refresh** to update the information displayed in the active Monitor form.

# Using Online Help

Each form in the WebNS Device Management user interface has a context-sensitive Online Help file associated with it. Each Online Help file contains information related to the form that you are using and also contains links to related topics. Online Help also includes a series of quick start procedures to assist you in navigating through the specific forms in the user interface and perform specific configuration procedures (for example, to configure a service or to configure a Client Side Accelerator).

**Note**

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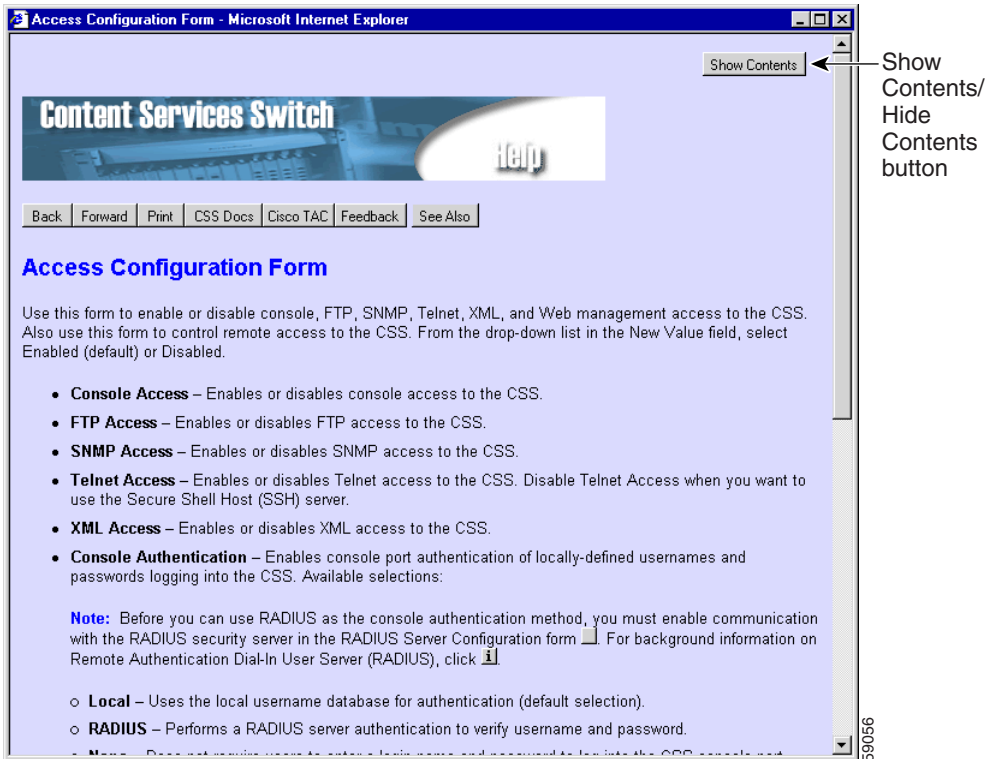
For details on using the Online Help and its features, refer to the “Using WebNS Device Management User Interface Online Help” topic in the Help system.

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To access Online Help:

1. In a form displayed in the workspace area, click the **Help** button at the bottom of the form (see [Figure 3-7](#)). The Online Help topic associated with the form displays in a separate browser window ([Figure 3-8](#)).

Figure 3-8 Online Help Topic Example



2. Click the **Show Contents** button (in the upper right corner of the Online Help topic) to display the Contents, Index, and Search tabs, which allow you to access all the topics in the Help system. The name of this button changes to **Hide Contents** when the Contents, Index, and Search tabs appear.

**Note**

If you are using Internet Explorer to display the Contents, Index, and Search tabs, you must have Microsoft Virtual Machine installed on your computer. You can download Virtual Machine from [www.microsoft.com](http://www.microsoft.com).

3. To return to a previous Help topic, right-click the current topic, then select **Back** from the context menu.

## Exiting from the Device Management User Interface

When you have finished configuring and monitoring your CSS with the Device Management user interface, exit from the software. This action clears the cache.

## Troubleshooting

In addition to the information in this section, refer to the release notes that are included with your CSS for any additional caveats related to the WebNS Device Management user interface.

When establishing a Device Management session, if you experience a problem where your web browser fails to display the initial Device Management user interface screen, your Web browser may have failed to properly connect to the CSS. Verify that you have performed the following actions:

- Enabled Device Management. See the “[Enabling the WebNS Device Management User Interface](#)” section in Chapter 2, [Configuring the CSS for Device Management](#).
- Specified a Simple Network Management Protocol (SNMP) community name to enable SNMP access to the WebNS Device Management user interface. See the “[Configuring an SNMP Community](#)” section in Chapter 2, [Configuring the CSS for Device Management](#).
- Enabled cookies and JavaScript in your Web browser. See the “[Configuring Your Browser](#)” section in Chapter 2, [Configuring the CSS for Device Management](#).
- Used the https:// designation when accessing the WebNS Device Management user interface URL (for example, https://161.16.2.3). If you do not use the proper URL designation, the Device Management user interface does not display and an error page appears.
- Ensured ACLs are not rejecting access to the management port IP address. To determine the status of configured ACLs, enter:

```
# show acl config
```

For information on ACLs, refer to the *Cisco Content Services Switch Security Configuration Guide*.

- Ran Device Management in a supported browser. For details, see Chapter 1, [WebNS Device Management User Interface Overview](#), the “[Browser and Platform Support](#)” section.

## Known Caveats with Netscape Communicator

The WebNS Device Management user interface may experience problems if you are using an unsupported version of Netscape Navigator or Communicator. Currently, the Device Management user interface supports the following versions of Netscape:

- Navigator 4.08
- Communicator 4.51 and 4.71

To download a supported Netscape browser, enter the following URL in your browser:

<http://www.netscape.com/>

## Known Caveats with Microsoft Internet Explorer

With Microsoft Internet Explorer 6.0, when a Device Management page is displayed and you highlight the page in the Address field and press Enter, an Internet Explorer expired page appears. To redisplay the Device Management page, click **Refresh** in the browser navigation bar, then click **Retry** in the message box that appears.

