

Cisco Networking Services Config Retrieve Enhancement with Retry and Interval

- Information About CNS Config Retrieve Enhancement with Retry and Interval, on page 1
- How to Configure CNS Config Retrieve Enhancement with Retry and Interval, on page 1
- Configuration Examples for CNS Config Retrieve Enhancement with Retry and Interval, on page 2
- Additional References, on page 3
- Feature Information for CNS Config Retrieve Enhancement with Retry and Interval, on page 4

Information About CNS Config Retrieve Enhancement with Retry and Interval

Cisco Networking Services Config Retrieve Enhancement with Retry and Interval

The Cisco Networking Services Config Retrieve Enhancement with Retry and Interval feature adds new functionality to the **cns config retrieve** command enabling you to specify the retry interval and an amount of time in seconds to wait before attempting to retrieve a configuration from a trusted server.

How to Configure CNS Config Retrieve Enhancement with Retry and Interval

Retrieving a Cisco Networking Services Configuration from a Server

Use this task to request the configuration of a device from a configuration server. Use the **cns trusted-server** command to specify which configuration server can be used (trusted).

Before you begin

This task assumes that you have specified a trusted server.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **cns config retrieve** {*host-name* | *ip-address*} [**encrypt**] [*port-number*] [**page** *page*] [**overwrite-startup**] [**retry** *retries* **interval** *seconds*] [**syntax-check**] [**no-persist**] [**source** *interface name*] [**status** *url*] [**event**] [**inventory**]

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	**enable** **Example:** `Device> enable`	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	**configure terminal** **Example:** `Device# configure terminal`	Enters global configuration mode.
Step 3	**cns config retrieve** {*host-name* | *ip-address*} [**encrypt**] [*port-number*] [**page** *page*] [**overwrite-startup**] [**retry** *retries* **interval** *seconds*] [**syntax-check**] [**no-persist**] [**source** *interface name*] [**status** *url*] [**event**] [**inventory**] **Example:** `Device(config)# cns config retrieve server1 retry 5 interval 45`	Allows the device to retrieve configuration data from a web server. • The **retry** keyword is a number in the range 1 to 100, and will prompt for an **interval** in the range 1 to 3600 seconds. **Note** Troubleshooting Tips If you need to stop the retrieval process, enter the Ctrl+Shift+6 key sequence.

Configuration Examples for CNS Config Retrieve Enhancement with Retry and Interval

Example: Retrieving a Cisco Networking Services Configuration from a Server

Retrieving Configuration Data from the Cisco Networking Services Trusted Server

The following example shows how to request a configuration from a trusted server at 10.1.1.1:

```
cns trusted-server all 10.1.1.1
```

```
exit
cns config retrieve 10.1.1.1
```

The following example shows how to request a configuration from a trusted server at 10.1.1.1 and to configure a Cisco Networking Services configuration retrieve interval using the **cns config retrieve** command:

```
cns trusted-server all 10.1.1.1
exit
cns config retrieve 10.1.1.1 retry 50 interval 1500
CNS Config Retrieve Attempt 1 out of 50 is in progress
Next cns config retrieve retry is in 1499 seconds (Ctrl-Shft-6 to abort this command).
..
00:26:40: %CNS-3-TRANSPORT: CNS_HTTP_CONNECTION_FAILED:10.1.1.1 -Process= "CNS config retv",
 ipl= 0, pid= 43
```

00:26:40: %CNS-3-TRANSPORT: CNS_HTTP_CONNECTION_FAILED -Process= "CNS config retv", ipl= 0, pid= 43.....

```
cns config retrieve 10.1.1.1
```

Applying the Retrieved Data to the Running Configuration File

The following example shows how to check and apply configuration data retrieved from the server to running configuration file only. The Cisco Networking Services Configuration Agent will attempt to retrieve configuration data at 30-second intervals until the attempt is successful, or is unsuccessful five times in these attempts.

```
cns config retrieve 10.1.1.1 syntax-check no-persist retry 5 interval 30
```

Overwriting the Startup Configuration File with the Retrieved Data

The following example shows how to overwrite the startup configuration file with the configuration data retrieved from the server. The configuration data will not be applied to the running configuration.

```
cns config retrieve 10.1.1.1 syntax-check no-persist retry 5 interval 30
cns config retrieve 10.1.1.1 overwrite-startup
```

Additional References

Related Documents

Related Topic	Document Title
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
Cisco Networking Services commands: complete command syntax, command mode, command history, defaults, usage guidelines, and examples.	Cisco IOS Cisco Networking Services Command Reference
Cisco Networking Services Configuration Engine	Cisco CNS Configuration Engine Administrator Guide, 1.3

Standards and RFCs

Standard/RFC	Title
No new or modified standards/RFCs are supported by this feature, and support for existing standards/RFCs has not been modified by this feature.	--

MIBs

MIB	MIBs Link
No new or modified MIBs are supported by this feature, and support for existing MIBs has not been modified by this feature.	To locate and download MIBs for selected platforms, Cisco software releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for CNS Config Retrieve Enhancement with Retry and Interval

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Table 1: Feature Information for Cisco Networking Services Config Retrieve Enhancement with Retry and Interval

Feature Name	Releases	Feature Information
Cisco Networking Services Config Retrieve Enhancement with Retry and Interval	Cisco IOS XE Release 2.1 12.4(15)T 12.2(33)SRC 12.2(33)SB 12.2(50)SY	The Cisco Networking Services Config Retrieve Enhancement with Retry and Interval feature adds two options to the **cns config retrieve** command enabling you to specify an amount of time in seconds to wait before attempting to retrieve a configuration from a trusted server. The number of retries is restricted to 100 to prevent the configuration agent from indefinitely attempting to reach an unreachable server. Use the keyboard combination **Ctrl-Shift-6** to abort the **cns config retrieve** command. The following command was modified by this feature: **cns config retrieve**.