



Configuring Authentication for the Controller and NTP/SNTP Server

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Authentication for the Controller and NTP/SNTP Server

We highly recommend that controllers synchronize their time with an external NTP/SNTP server. We also recommend that you authenticate this connection to the NTP/SNTP server, as a best practice. By default, an MD5 checksum is used in this scenario.

Each NTP/SNTP server IP address is added to the controller database. The respective controller then attempts to poll an NTP/SNTP server from this database in the index order. The controller then obtains and synchronizes the current time at each user-defined polling interval, as well as following a reboot event. By default, the NTP polling interval is 600 seconds.

Guidelines and Restrictions on NTP

- When the time difference between the NTP server and the controller exceeds 1000s, the **ntpd** process exits and adds a panic message to the system log. In this situation, set the time on the controller manually.
- NTPv4 protocol is not supported in Cisco 2504 and 5508 Wireless Controllers.

Configuring the NTP/SNTP Server to Obtain the Date and Time (GUI)

- Step 1** Choose **Controller > NTP > Server** to open the **NTP Servers** page.
- Step 2** Click **New** to add a new NTP/SNTP Server.
- Step 3** (Optional) In the **Server Index (Priority)** field, enter the NTP/SNTP server index.

The controller tries Index 1 first, then Index 2 through 3, in a descending order. Set this to 1 if your network is using only one NTP/SNTP server.

Step 4 Enter the server IP address.

You can enter an IPv4 or an IPv6 address or a fully qualified domain name (FQDN), which should meet the following criteria:

- Contains only a-z , A-Z, and 0-9 characters.
- Does not start with a dot (.) or a hyphen (-).
- Does not end with a dot (.
- Does not have 2 consecutive dots (..).

Step 5 Enable or disable the NTP/SNTP Authentication.

Step 6 If you enable the NTP/SNTP Authentication, enter the Key Index.

Step 7 Click **Apply**.

Step 8 Delete an existing NTP server IP address or DNS server by hovering the cursor over the blue drop-down arrow for that server index and choose **Remove**.

Step 9 Confirm the deletion by clicking on **OK** in the dialog box.

Configuring the NTP/SNTP Server for Authentication (CLI)

Procedure

- **config time ntp auth enable** *server-index key-index*—Enables NTP/SNTP authentication on a given NTP/SNTP server.
- **config time ntp key-auth add** *key-index key-typekey-format key*—Adds an authentication key. By default MD5 is used. The key format can be "ascii" or "hex".
- Configure the NTP interval by entering this command:
config time ntp interval *interval_seconds*
- **config time ntp key-auth delete** *key-index*—Deletes authentication keys.
- **config time ntp auth disable** *server-index*—Disables NTP/SNTP authentication.
- **show ntp-keys**—Displays the NTP/SNTP authentication related parameter.