

SNTP Configuration Commands

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Chapter 1 SNTP Configuration Commands

1.1 SNTP Configuration Commands

The SNTP configuration commands include:

- sntp master
- sntp query-interval
- sntp server
- show sntp
- debug sntp
- time-zone

1.1.1 sntp master

To set the grade of the local clock, run `sntp master num`; to resume its default settings, run `no sntp master`.

`sntp master num`

`no sntp master`

Parameter

Parameter	Description
<i>num</i>	Stands for the grade of the clock.

Default value

The default grade of the local clock is 1 and it is enabled.

Command mode

Global configuration mode

Instruction

None

Example

```
Switch_config#sntp master 5
```

Related command

```
sntp server
```

1.1.2 sntp query-interval

To set the interval for SNTP to trigger the SNTP query, run `sntp query-interval time`. To cancel this settings, run `no sntp query-interval`.

```
sntp query-interval time
```

```
no sntp query-interval
```

Parameter

Parameter	Description
<i>Time</i>	Stands for the interval of query trigger, whose unit is minute.

Default value

The default value is 1, meaning a query will be triggered every minute.

Command mode

Global configuration mode

Instruction

The value of the **time** parameter ranges from 1 to 1440 minutes.

Example

```
Switch_config#sntp query-interval 5
```

1.1.3 sntp server

To set the address of the SNTP server, run `sntp server address version`.

```
sntp server address version
```

```
no sntp server address
```

Parameter

Parameter	Description
<i>address</i>	Stands for the IP address of the SNTP server.
<i>Version</i>	Stands for the SNTP version (1-4).

Default value

none

Command mode

Global configuration mode

Instruction

You can set one address or multiple addresses for the SNTP server. In the default settings there is no SNTP server.

Example

```
Switch_config#sntp server 1.1.1.1 4
```

Related command

None

1.1.4 show sntp

To display the related information about SNTP, run the following command:

```
Show sntp
```

Parameter

None

Default value

None

Command mode

EXEC

Instruction

This command is used to display the current state of SNTP.

Example

```
Switch_config#show sntp
Master Mode: Yes      Master Clock Stratum: 1
Debug Mode: Off      Client Status: idle
Interval to Query SNTP Server: 1 (minutes)
Configured SNTP Server List:
    IP: 1.1.1.1      Version: 4      Status: Off
The local time (UTC):  Date: 2011.6.23 Time: 21.26.33
```

1.1.5 debug sntp

To enable SNTP debugging, run `debug sntp`; to cancel SNTP debugging, run `no debug sntp`.

`Debug sntp`

`no debug sntp`

Parameter

None

Default value

None

Command mode

EXEC

Instruction

According to the information exported by the command, you can check the whole process of SNTP.

Example

None

1.1.6 time-zone

To open the time zone, run `time-zone name offset-hour offset-minute`; to close the time zone, run `no time-zone`.

`time-zone name offset-hour offset-minute`

`no time-zone`

Parameter

Parameter	Description
<i>name</i>	Stands for the name of a time zone.
<i>offset-hour</i>	Stands for the offset hour between the local time and the UTC time.
<i>offset-minute</i>	Stands for the offset minute between the local time and the UTC time.

Default value

None

Command mode

Global configuration mode

Instruction

This command can be used to transfer the UTC time to the local time.

Example

```
Switch_config#time-zone london 0
```