SNTP Configuration Commands

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1.1   SNTP Configuration Commands

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1.1.1   sntp master

To set the level of the local clock, run **sntp master** *num*; to cancel this settings, run **no sntp master**.

sntp master *num*

no sntp master

Parameter

Parameter	Description
num	Means the level of the clock.

Default

None

Command mode

Routing configuration mode

Remark

The clock level is disabled by default; if it is enabled, the level ranges between 1 and 15, and will be 8 without configuration.

Example

Router_config#sntp master 5

Related Commands

sntp peer

sntp server

1.1.2 sntp query-interval

To set the interval of sending the SNTP requests, run **sntp query-interval** *time*. To resume the default settings, run **no sntp query-interval**.

sntp query-interval *time*

no sntp query-interval

Parameter

Parameter	Description
Time	Means the interval of sending the requests.

Default

The default value is 1, that is, the requests will be sent every minute.

Command mode

Routing configuration mode

Remark

The time ranges between 1 and 1440 minutes.

Example

Router_config#sntp query-interval 5

1.1.3   sntp server

To set the address of the SNTP server, run **sntp server *address* [key *key-number* |
version *version-number*]**.

sntp server *address*   ［**key** *key-number* | **version** *version-number*］

no sntp server *address*

Parameter

Parameter	Description
address	Means the address of the SNTP server.
version-number	Means the version ID of SNTP (1-4).
key-number	Means the key ID of the SNTP server.

Default

None

Command mode

Routing configuration mode

Remark

You can set multiple addresses for the SNTP server. There is no SNTP server by
default.

Example

Router_config#sntp server 1.1.1.1 4

Related Command

sntp peer

1.1.4   sntp peer

To set the SNTP peer, run **sntp peer *address version*.** To delete the SNTP peer, run
no sntp peer *address*.

sntp peer *address version*

no sntp peer *address*

Parameter

Parameter	Description
address	Means the address of the SNTP peer.
version	Means the version ID of SNTP (1-4).

Default

None

Command mode

Routing configuration mode

Remark

This command is used to set the address of the SNTP peer.

Example

Router_config#sntp peer 1.1.1.1 4

Related Command

Sntp server

1.1.5   sntp source

To set the designated local source address when SNTP is triggered, run **Sntp source [interface *inter* | *addr*]**.

Sntp source ［interface *inter* | *addr*］

No sntp source

Parameter

Parameter	Description
inter	Means an interface.
Address	Means a designated source address.

Default

None

Command mode

Routing configuration mode

Remark

This command is used to designate the source address of sending the SNTP packets.

Example

Router_config#sntp source 1.1.1.1

1.1.6   sntp authenticate

To enable the SNTP authentication, run **sntp authenticate**.

sntp authenticate

no sntp authenticate

Parameter

None

Default

The authentication is disabled.

Command mode

Routing configuration mode

Remark

This command is used to enable SNTP authentication.

Example

Router_config#sntp authenticate

1.1.7   sntp authentication-key

To set the local authentication key of SNTP, run **sntp authentication-key** *number* **md5** *type password*.

sntp authentication-key *number* **md5** *type password*

no sntp authentication-key *number*

Parameter

Parameter	Description
number	Key number
type	Means the mode to display the password.
password	Means the corresponding MD5 password.

Default

None

Command mode

Routing configuration mode

Remark

This command is used to set the local authentication key.

Example

Router_config#sntp authentication-key 2 md5 0 123456

1.1.8 sntp trusted-key

To set the trusted local key, run **sntp trusted-key** *number*.

sntp trusted-key *number*

no sntp trusted-key *number*

Parameter

Parameter	Description
number	Key number

Default

None

Command mode

Routing configuration mode

Remark

This command is used to set the trusted local key.

Example

Router_config#sntp trusted-key 1

1.1.9   show sntp

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

Show sntp

Parameter

None

Default

None

Command mode

EXEC mode

Remark

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

Example

Router_config#show sntp
Master Mode: Yes   Master Clock Stratum: 5
 Debug Mode: Off   Client Status: idle
Interval to Query SNTP Server: 1 (minutes)
Configured SNTP Server List:
Current SNTP Server :   00010003
Configured SNTP Peer List:
         IP: 1.1.1.1   Version: 4
Current SNTP Peer : 1.1.1.1 00010003

The local time (UTC):　　Date: 2002-3-25 Time: 17:36:59

1.1.10　debug sntp

To enable SNTP debugging, run **debug sntp**. To disable SNTP debugging, run **no debug sntp**.

Debug sntp

no debug sntp

Parameter

None

Default

None

Command mode

EXEC mode

Remark

You can browse the SNTP operation according to the displayed information.

Example

None

1.1.11　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
name	Means the name of a time zone.
offset-hour	Means the offset hour between the local time and the UTC time (-12-12).

offset-minute	Means the offset minute between the local time and the UTC time (0-59).

Default

None

Command mode

Routing configuration mode

Remark

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

Example

Router_config#time-zone BeiJing 8

1.1.12　time-range

To open the time range, run **time-range** *name*. To close the time zone, run **no time-range** *name*.

time-range *name*

no time-range *name*

Parameter

Parameter	Description
name	Means the name of a time range.

Default

None

Command mode

Routing configuration mode

Remark

This command is used to set a time range.

Example

Router_config#time-range aaa

1.1.13   absolute

To set the absolute time of a time range, run **absolute start *hh:mm day month year* end *hh:mm day month year***. To resume the default settings, run **no absolute**.

absolute start *hh:mm day month year* **end** *hh:mm day month year*

no absolute

Parameter

Parameter	Description
hh:mm	Stand for the hour and the minute respectively.
day	Stands for a day.
month	Stands for a month.
year	Stands for a year.

Default

None

Command mode

Time range configuration mode

Remark

This command is used to set an absolute time range.

Example

Router_config_time_range#absolute start 11:11 2 2 2000 end 22:22 3 3 2002

1.1.14   periodic

To set the periodic time of a time range, run the first one of the following two commands.

Periodic *[Monday ／ Tuesday ／ Wednesda ／ Thursday ／ Friday ／ Saturday ／ Sunday ／ daily ／ weekdays ／ weekend] hh:mm to [Monday ／ Tuesday ／*

Wednesda** ／ **Thursday** ／ **Friday** ／ **Saturday** ／ **Sunday** ／ **daily** ／ **weekdays** ／ **weekend] hh:mm

no Periodic

Parameter

Parameter	Description
hh:mm	Stand for the hour and the minute respectively.

Default

None

Command mode

Time range configuration mode

Remark

This command is used to set an absolute time range.

Example

Router_config_time_range#periodic monday 11:11 to tuesday 11:11