

组网及说明

S10510与华为5720对接NTP典型组网配置，其中S10510为时钟源，华为5720为客户端
S10510版本信息如下：

H3C Comware Software, Version 7.1.070, Release 7536P05

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H3C S10510 uptime is 92 weeks, 2 days, 4 hours, 3 minutes

Last reboot reason : USER reboot

Boot image: flash:/S10500-CMW710-BOOT-R7536P05.bin

Boot image version: 7.1.070, Release 7536P05

Compiled Mar 28 2017 16:00:00

System image: flash:/S10500-CMW710-SYSTEM-R7536P05.bin

System image version: 7.1.070, Release 7536P05

Compiled Mar 28 2017 16:00:00

华为5720版本信息如下：

Huawei Versatile Routing Platform Software

VRP (R) software, Version 5.170 (S5720 V200R010C00SPC600)

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HUAWEI S5720-56C-EI-AC Routing Switch uptime is 98 weeks, 2 days, 13 hours, 51 minutes

ES5D2T52C002 0(Master) : uptime is 98 weeks, 2 days, 13 hours, 50 minutes

DDR Memory Size : 2048 M bytes

FLASH Memory Size : 344 M bytes

Pcb Version : VER.C

BootROM Version : 020a.0001

BootLoad Version : 020a.0001

CPLD Version : 010c

Software Version : VRP (R) Software, Version 5.170 (V200R010C00SPC600)

PWR1 information

Pcb Version : PWR VER.B

PWR2 information

Pcb Version : PWR VER.B

FAN1 information

Pcb Version : NA

配置步骤

S10510 NTP时钟源配置信息如下：

clock protocol none

ntp-service enable

ntp-service refclock-master 2

interface Vlan-interface100

description YunWeiGuanLi

ip address 10.190.8.1 255.255.255.192

quit

华为5720 NTP配置如下：

ntp-service server disable

```
ntp-service ipv6 server disable
ntp-service unicast-server 10.190.8.1
```

S10510查看NTP显示信息:

```
dis ntp sessions
  source      reference  stra reach poll now offset delay disper
*****
[25]10.190.8.252 LOCL      1 255 64 51 -28825 0.9002 18.218
[12345]LOCAL(0) LOCL      1 255 64 42 0.0000 0.0000 0.9155
Notes: 1 source(master), 2 source(peer), 3 selected, 4 candidate, 5 configured.
Total sessions: 2
```

```
dis ntp status
Clock status: synchronized
Clock stratum: 2
System peer: LOCAL(0)
Local mode: client
Reference clock ID: 127.127.1.0
Leap indicator: 00
Clock jitter: 0.000000 s
Stability: 0.000 pps
Clock precision: 2^-21
Root delay: 0.00000 ms
Root dispersion: 10.98633 ms
Reference time: e27ced67.56daf74f Sat, May 30 2020 14:34:15.339
System poll interval: 64 s
```

华为5720查看NTP显示信息:

```
dis ntp sessions
clock source: 10.190.8.1
clock stratum: 2
clock status: configured, master, sane, valid
reference clock ID: LOCAL(0)
reach: 177
current poll: 64
now: 0
offset: -0.6858 ms
delay: 3.69 ms
disper: 4.88 ms
```

```
dis ntp status
clock status: synchronized
clock stratum: 3
reference clock ID: 10.190.8.1
nominal frequency: 100.0000 Hz
actual frequency: 100.0000 Hz
clock precision: 2^16
clock offset: -10.4463 ms
root delay: 3.69 ms
root dispersion: 7216.57 ms
peer dispersion: 11.58 ms
reference time: 14:32:52.204 UTC May 30 2020(E27CED14.344AE85B)
synchronization state: clock set but frequency not determined
```

配置关键点

- 1、 确保时钟源和时钟客户端路由可达。
- 2、 时钟源及时钟客户端都需要开启NTP功能。
- 3、 时钟客户端指定时钟源为NTP服务器。
- 4、 时钟源所在的设备配置为时钟源。