

## 知 The configuration of NTP multicast mode on H3C 5600 switch

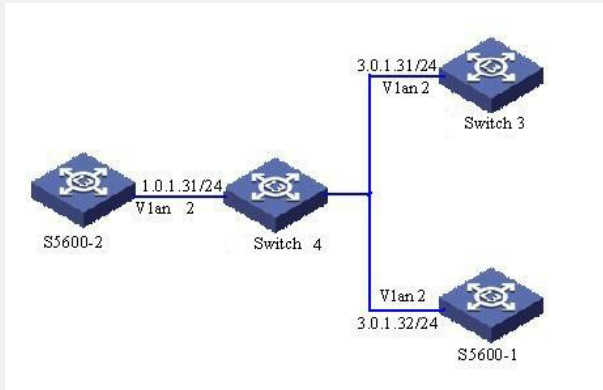
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### The configuration of NTP multicast mode on H3C 5600 switch

#### I Requirement for the diagram

1. Set the switch3's local clock as the master clock of NTP. Layer is 2 and the switch3 send the multicast message capsule via vlan-interface2.
2. S5600-1 and S5600-2 listen multicast message from corresponding vlan-interface2.

#### II Network topology.



#### III Steps of configuration

##### Configure switch3:

1. enter system view  
<Switch3> system-view
2. Enter the vlan-interface2 interface view  
[Switch3] interface Vlan-interface 2  
[Switch3-Vlan-interface2]
3. Set the switch as broadcast server and send the broadcast message from vlan-interface2.  
[Switch3-Vlan-interface2] ntp-service multicast-server

##### Configure S5600-1:

1. enter system view  
<S5600-1> system-view
2. Enter the vlan-interface2 interface view  
[S5600-1] interface Vlan-interface 2  
[S5600-1-Vlan-interface2]
3. Set the switch as broadcast client.  
[S5600-1-Vlan-interface2] ntp-service multicast-client

##### Configure S5600-2:

1. enter system view  
<S5600-2> system-view
2. Enter the vlan-interface2 interface view  
[S5600-2] interface Vlan-interface 2  
[S5600-2-Vlan-interface2]
3. Set the switch as broadcast client.  
[S5600-2-Vlan-interface2] ntp-service multicast-client

#### IV Key notes in the configuration

1. S5600-1 and S5600-2 listen the multicast message from vlan-interface2 and the switch3 send the multicast message from vlan-interface2. Because S5600-2 and switch3 are not the same network segment, S5600-2 can't receive the multicast message from switch3. But S5600-1 can receive the multicast from switch3 and then keep synchronization with switch3.
2. After keep synchronization, the status of S5600-1:

```
[S5600-1] display ntp-service status
```

```
Clock status: synchronized
```

```
Clock stratum: 3
```

```
Reference clock ID: 3.0.1.31
```

```
Nominal frequency: 250.0000 Hz
```

```
Actual frequency: 249.9992 Hz
Clock precision: 2^19
Clock offset: 198.7425 ms
Root delay: 27.47 ms
Root dispersion: 208.39 ms
Peer dispersion: 9.63 ms
Reference time: 17:03:32.022 UTC Thu Sep 6 2001 (BF422AE4.05AEA86C)
3. display the NTP sessions:
[S5600-1] display ntp-service sessions
source      reference      stra reach poll now offset delay disper
*****
[1]3.0.1.31  127.127.1.0  2  1  64  377  26.1  199.53  9.7
note: 1 source(master),2 source(peer),3 selected,4 candidate,5 configured.
```