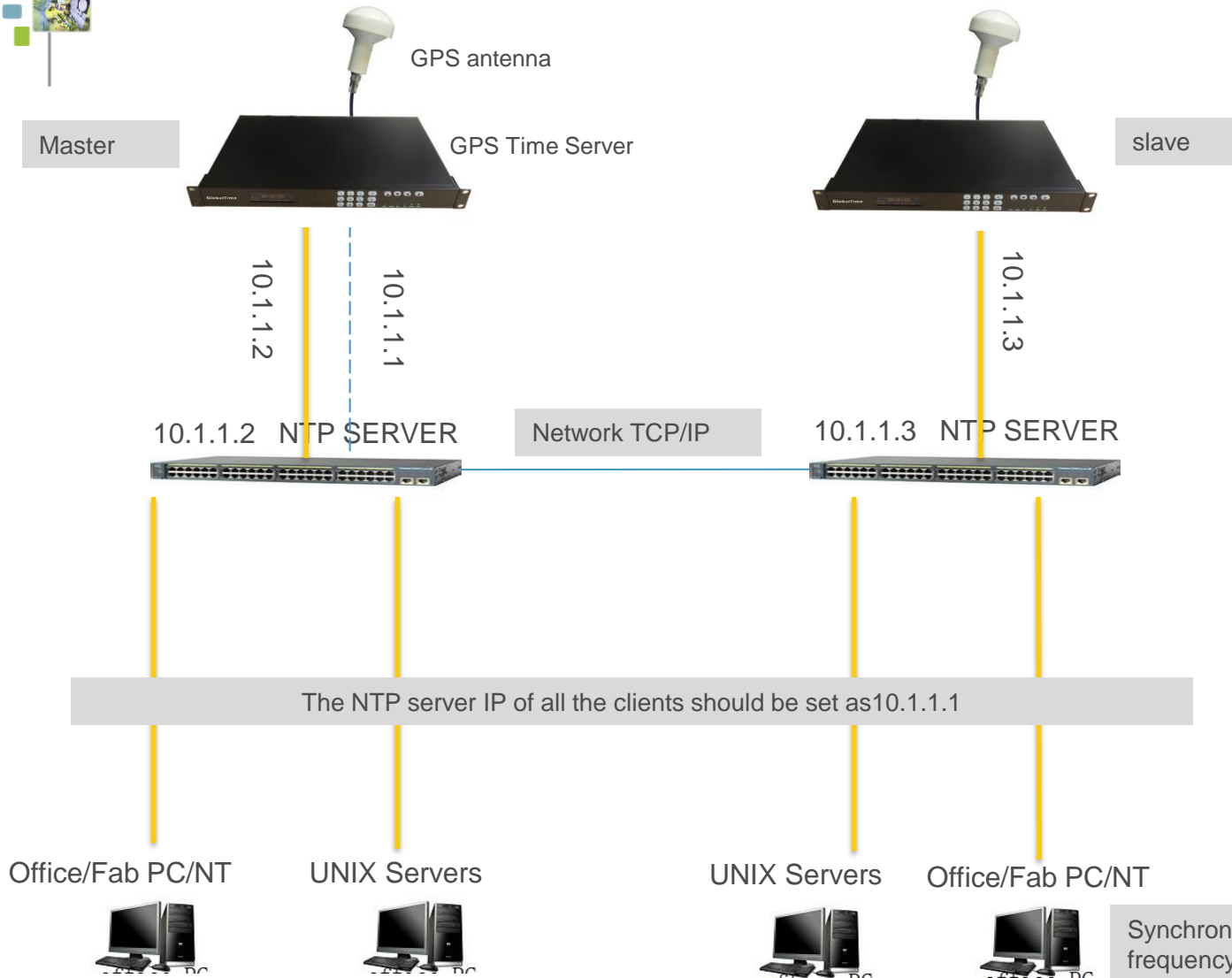




Topology of NTP Server for Redundancy



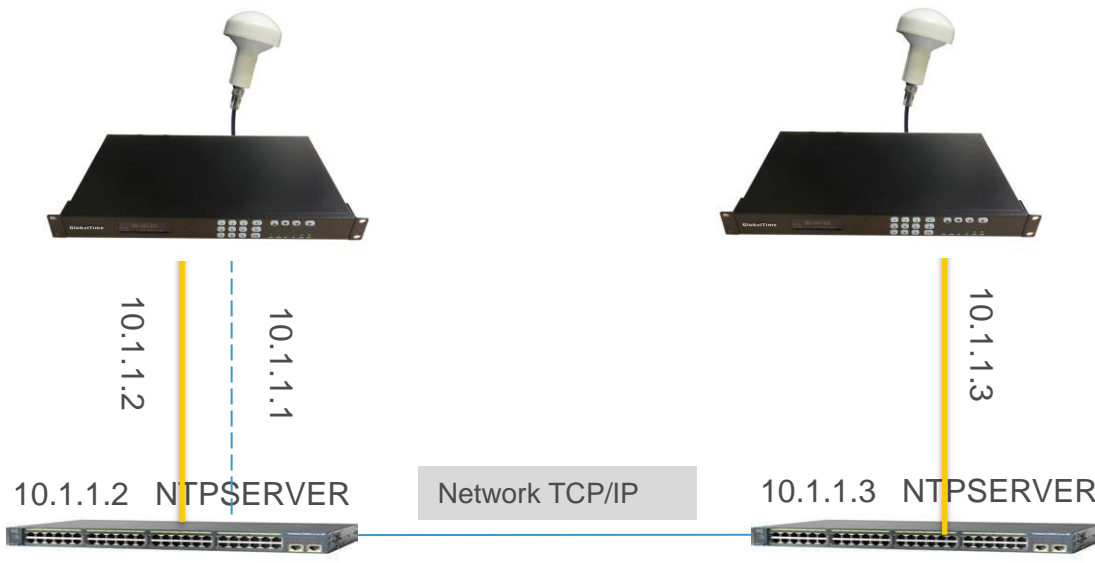
10.1.1.1 is the virtual IP of the port eth2; 10.1.1.1 and 10.1.1.2 or 10.1.1.3 are from the same port

Synchronization frequency:
NT-- 60 minutes
PC-- 8 Hours

Status 1: Master and slave servers are both working normally

Master

slave



The IP will not float when both the master and slave server are working well or have problems at the same time

The NTP server IP of all the clients should be set as 10.1.1.1

Office/Fab PC/NT

UNIX Servers

UNIX Servers

Office/Fab PC/NT



Synchronization Frequency:
NT-- 60 minutes
PC-- 8 hours



Status 2: Master server performs normally, but slave server has problem

Master



10.1.1.2

10.1.1.2 NTPSERVER



NetworkTCP/IP



slave

10.1.1.3

10.1.1.1

10.1.1.3 NTPSERVER



When master can get satellite signal but slave can not or when the root error of the master is abnormal but of the slave is normal, 10.1.1.1 will float to the other server.

The NTP server IP of all the clients should be set as 10.1.1.1

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Synchronization frequency:
NT-- 60 minutes
PC-- 8 hours

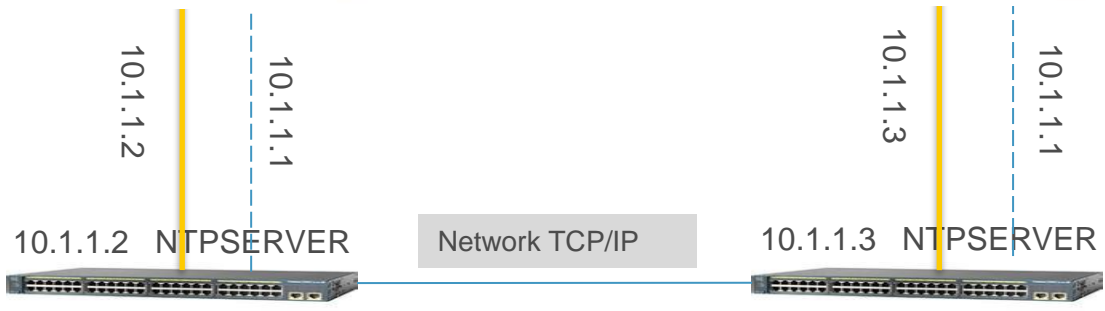


Status 3: When there are network problems between master and slave server

Master



slave



When there are network problems, both the master and slave will use the virtual IP 10.1.1.1. As soon as the network problems are solved, the IP 10.1.1.1 will float to the server whose status is better than the other's, and the other server will not use the virtual IP.

The NTP server IP of all the clients should be set as 10.1.1.1

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Synchronization frequency:
NT-- 60 minutes
PC-- 8 hours

Status 4: When the master and slave can communicate normally

Master

slave

10.1.1.2

10.1.1.1

10.1.1.3

10.1.1.2 NTPSERVER

NetworkTCP/IP

10.1.1.3 NTPSERVER

The NTP server IP of all the clients should be set as 10.1.1.1

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Synchronization
Frequency:
NT-- 60 minutes
PC-- 8 hours

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