

N7K-A PTP Config:

```
Enter configuration commands, one per line. End wit N7K-A-Pod8(config)# vlan 10 N7K-A-Pod8(config-vlan)# int vlan 10 N7K-A-Pod8(config-if)# no shut N7K-A-Pod8(config-if)# no shut N7K-A-Pod8(config-if)# ip address 172.16.30.1/24 N7K-A-Pod8(config-if)# router ospf 0 N7K-A-Pod8(config-if)# router ospf 0 area 0 N7K-A-Pod8(config-if)# ip router ospf 0 area 0 N7K-A-Pod8(config-if)# feature ptp N7K-A-Pod8(config)# ptp source 172.16.30.1 N7K-A-Pod8(config)# ptp priority1 1 N7K-A-Pod8(config)# ptp priority2 10 N7K-A-Pod8(config)# ptp priority2 10 N7K-A-Pod8(config)# int eth8/8 N7K-A-Pod8(config-if)# ptp announce interval 2 ERROR: PTP is not enabled on some of the interfaces N7K-A-Pod8(config-if)# ptp
                         OR: PTP is not enabled of A-Pod8(config-if)# ptp
-A-Pod8(config-if)# ptp announce interval 2
-A-Pod8(config-if)# ptp announce timeout 2
-A-Pod8(config-if)# ptp sync interval -1
```

N7K-A PTP Verifications:

```
PTP Device Mode : boundary-clock
PTP Device Encapsulation : layer-3
PTP Source IP Address : 172.16.30.1
PTP SwitchLatency Estimated: 5000 (ns)
Clock Identity: 50:87:89:ff:fe:42:bd:49
Clock Domain: 10
Two-Step Clock Mode : Enabled
Slave-Only Clock Mode : Disabled
Number of PTP ports : 1
Priority1 : 1
Priority2 : 10
Clock Quality :
             Class : 248
            Accuracy : 254
Offset (log variance) : 65535
Offset From Master : 0 (ns)
Mean Path Delay : 0 (ns)
Steps removed : 0
Local clock time : Tue Jan 3 19:22:25 2023
```

PTP Port Dataset: Eth8/8 Port identity: clock identity: 50:87:89:ff:fe:42:bd:49 Port identity: port number: 1820 PTP version: 2 Port state: Master Port mode: boundary-clock Port encapsulation: layer-3 Delay request interval(log mean): 2 Announce receipt time out: 2 Peer mean path delay: 0 Announce interval(log mean): 2 Sync interval(log mean): -1 Delay Moghanism Full to Full Delay Mechanism: End to End

```
PTP PARENT PROPERTIES
Parent Clock:
Parent Clock:
Parent Clock Identity: 50:87:89:ff:fe:42:bd:49
Parent Port Number: 0
Parent Statistics: not available
Observed Parent Offset (log variance): N/A
Observed Parent Clock Phase Change Rate: N/A
Grandmaster Clock:
PTP past corrections
                           SUP Time
```

```
PTP port status
Port
           State
Eth8/8 Master
```

N9K-A PTP Config:

```
Enter configuration commands, one per line. End with CNT
N9K-A-Pod8(config)# vlan 10
N9K-A-Pod8(config-vlan)# int vlan 10
N9K-A-Pod8(config-if)# no shut
N9K-A-Pod8(config-if)# in address 172.16.10.1/24
N9K-A-Pod8(config-if)# router ospf 0
N9K-A-Pod8(config-if)# in address 172.16.10.1/24
N9K-A-Pod8(config-if)# router ospf 0 area 0
N9K-A-Pod8(config-if)# ip router ospf 0 area 0
N9K-A-Pod8(config-if)# feature ptp
N9K-A-Pod8(config)# ptp source 172.16.10.1
N9K-A-Pod8(config)# ptp prior
priority1 priority2
N9K-A-Pod8(config)# ptp priority1 1
N9K-A-Pod8(config)# ptp priority2
N9K-A-Pod8(config)# ptp priority2 50
N9K-A-Pod8(config)# int eth1/49
N9K-A-Pod8(config)# int eth1/49
N9K-A-Pod8(config-if)# no shut
N9K-A-Pod8(config-if)# ptp
N9K-A-Pod8(config-if)# ptp
N9K-A-Pod8(config-if)# ptp
N9K-A-Pod8(config-if)# ptp announce interval 2
N9K-A-Pod8(config-if)# ptp sync interval -
  Enter configuration commands, one per line. End with CNTL/Z.
```

N9K-A PTP Verifications:

```
PTP Device Type : boundary-clock
PTP Device Encapsulation : NA
PTP Source IP Address : 172.16.10.1
Clock Identity: 7c:ad:4f:ff:fe:40:20:87
Clock Domain: 10
Slave Clock Operation : Two-step
Master Clock Operation : Two-step
Slave-Only Clock Mode : Disabled
Number of PTP ports: 1
Priority1 : 1
Priority2 : 50
Clock Quality:
         Class : 248
         Accuracy : 254
         Offset (log variance) : 65535
Offset From Master: 20
Mean Path Delay : 264
Steps removed: 1
Correction range : 100000
MPD range : 1000000000
Local clock time : Tue Jan 3 19:14:15 2023
PTP Clock state
```

```
PTP PARENT PROPERTIES
Parent Clock:
Parent Port Number: 1820
Observed Parent Offset (log variance): N/A
Observed Parent Clock Phase Change Rate: N/A
Grandmaster Clock:
Grandmaster Clock Identity: 50:87:89:ff:fe:42:bd:49
Grandmaster Clock Quality:
           Class: 248
           Accuracy: 254
Offset (log variance): 65535
Priority1: 1
Priority2: 10
```

```
9R-A-Pod8(config-if) # show ptp port interface eth1/49
PP port Dataset: Bth1/49
rp port Dataset: Bth1/49
rot identity: clock identity: 7c:ad:4f:ff:fe:40:20:87
ort identity: port number: 192
TP version: 2
ort state; Slave
LAN info: 1
elay request interval(log mean): 0
nnounce receipt time out: 2
eer mean path delay: 264
nnounce interval(log mean): 2
ync interval(log mean): -1
elay Mechanism: End to End
ost: 255
```

```
N9K-A-Pod8(config-if)# show ptp brief
PTP port status
                      State
Eth1/49
                      Slave
```

®Created by Matthew Rich, TCE, Cisco Systems, Inc.

