



# Commands to Monitor Link and Interface Status

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# Commands to Monitor Link and Interface Status

1. Verify that the links are up:

## show ip int brief

```
Interface          IP-Address      OK?  Method  Status  Protocol
Te0/0/0            unassigned     YES  NVRAM   up       up
Te0/0/1            unassigned     YES  NVRAM   up       up
GigabitEthernet0/0/0 unassigned     YES  NVRAM   up       up
GigabitEthernet0/0/1 unassigned     YES  NVRAM   up       up
GigabitEthernet0/0/2 unassigned     YES  NVRAM   up       up
GigabitEthernet0/0/3 unassigned     YES  NVRAM   up       up
GigabitEthernet0/0/4 unassigned     YES  NVRAM   up       up
GigabitEthernet0/0/5 10.56.197.144 YES  NVRAM   up       up
```

2. Verify that traffic is arriving to the interfaces:

## show interfaces summary

```
TTA#show interfaces summary
*: interface is up
IHQ: pkts in input hold queue      IQD: pkts dropped from input queue
OHQ: pkts in output hold queue     OQD: pkts dropped from output queue
RXBS: rx rate (bits/sec)           RXPS: rx rate (pkts/sec)
TXBS: tx rate (bits/sec)           TXPS: tx rate (pkts/sec)
TRTL: throttle count

Interface          IHQ      IQD      OHQ      OQD      RXBS      RXPS      TXBS      TXPS      TRTL
-----
Te0/0/0            0        0        0        0        0        0        0        0        0
Te0/0/1            0        0        0        0        0        0        0        0        0
* GigabitEthernet0/0/0 0        0        0        0        0        0        0        0        0
* GigabitEthernet0/0/1 0        0        0        0        2832000 520      0        0        0
* GigabitEthernet0/0/2 0        0        0        0        500000  104     0        0        0
* GigabitEthernet0/0/3 0        0        0        0        139768000 32455   0        0        0
* GigabitEthernet0/0/4 0        0        0        0        0        0        0        0        0
```

3. Verify the interface counters:

**show interfaces** <interface-name>

```

TTA#show interfaces gigabitEthernet 0/0/2
GigabitEthernet0/0/2 is up, line protocol is up
Hardware is BUILT-IN-2T+6X1GE, address is 0000.0000.0004 (bia 0000.0000.0004)
MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 116/255
Encapsulation ARPA, loopback not set
Keepalive not supported
Full Duplex, 10Mbps, link type is auto, media type is T
output flow-control is on, input flow-control is on
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 00:00:12, output hang never
Last clearing of "show interface" counters never
Input queue: 0/375/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 4565000 bits/sec, 949 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  420245 packets input, 254656108 bytes, 0 no buffer
    received 0 broadcasts (0 IP multicasts)
    0 runts, 0 giants, 0 throttles
    1 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 packets output, 0 bytes, 0 underruns
    Output 0 broadcasts (0 IP multicasts)
    0 output errors, 0 collisions, 2 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 pause output
    0 output buffer failures, 0 output buffers swapped out
    129 carrier transitions
    
```

- Verify that traffic is classified by NBAR (CBAR):

```
sh ip nbar protocol-discovery stats packet-count
```

```

Last clearing of "show ip nbar protocol-discovery" counters 04:29:32
    
```

Protocol	Input ----- Packet Count	Output ----- Packet Count
dicom	95158	0
dhcp	15334	0
h17	9186	0
apple-ios-updates	8885	0
mdns	6231	0
snmp	3192	0
Total	137986	0

