```
R3#
R3#
R3#show running-config
Building configuration...


Current configuration : 2433 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R3
!
boot-start-marker
boot-end-marker
!
logging message-counter syslog
enable secret 5 $1$p7Bj$JJYJbGT9E4K7craiToCfl.
!
no aaa new-model
!
dot11 syslog
ip source-route
!
!
ip cef
!
!
ip multicast-routing
ipv6 unicast-routing
ipv6 cef
!
multilink bundle-name authenticated
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
```

```
!
!
!
voice-card 0
!
!
!
!
!
archive
 log config
  hidekeys
!
!
!
!
!
!
!
!
!
interface Tunnel34
 no ip address
 ipv6 address 2026::34:1/122
 ipv6 enable
 ipv6 ospf 6 area 34
 tunnel source 10.1.1.9
 tunnel destination 10.1.1.10
 tunnel mode ipv6ip
!
interface FastEthernet0/0
 no ip address
 shutdown
 duplex auto
 speed auto
!
interface FastEthernet0/1
 no ip address
 shutdown
 duplex auto
 speed auto
!
interface Serial0/0/0
 no ip address
!
interface Serial0/0/1
 no ip address
 clock rate 2000000
!
interface Serial0/1/0
 no ip address
 shutdown
!
interface Serial0/2/0
```

```
 no ip address
 encapsulation frame-relay
!
interface Serial0/2/0.23 point-to-point
 ip address 10.1.1.6 255.255.255.252
 ip pim sparse-dense-mode
 snmp trap link-status
 ipv6 address 2026::1:2/122
 ipv6 enable
 ipv6 ospf 6 area 0
 frame-relay interface-dlci 302
!
interface Serial0/2/0.34 point-to-point
 ip address 10.1.1.9 255.255.255.252
 ip pim sparse-dense-mode
 snmp trap link-status
 frame-relay interface-dlci 304
!
interface Serial0/3/0
 no ip address
!
router ospf 1
 router-id 3.3.3.3
 log-adjacency-changes
 area 34 nssa no-summary
 passive-interface Serial0/2/0
 network 10.1.1.2 0.0.0.0 area 0
 network 10.1.1.8 0.0.0.3 area 34
 network 10.3.3.1 0.0.0.0 area 0
 network 10.3.3.3 0.0.0.0 area 0
 network 0.0.0.0 255.255.255.255 area 0
!
ip forward-protocol nd
no ip http server
no ip http secure-server
!
!
!
ip access-list standard DENY_10
 deny   10.0.0.0 0.255.255.255
 permit any
ip access-list standard DENY_ALL
 deny   any
ip access-list standard PERMIT_10
 permit 10.0.0.0 0.255.255.255
ip access-list standard PERMIT_ALL
 permit any
!
ipv6 router ospf 6
 log-adjacency-changes
!
!
!
!
```

```
!
!
!
!
control-plane
!
!
!
ccm-manager fax protocol cisco
!
mgcp fax t38 ecm
mgcp behavior g729-variants static-pt
!
!
!
!
!
!
line con 0
 exec-timeout 0 0
 logging synchronous
line aux 0
line vty 0 4
 exec-timeout 0 0
 password cisco
 login
!
scheduler allocate 20000 1000
ntp server 10.1.1.1
ntp peer 10.1.1.1
end

R3#
```

```
R3#ping 209.65.200.241

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 209.65.200.241, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 160/162/164
ms
R3#
```

```
R3#ping 209.65.200.226

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 209.65.200.226, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 160/164/172
ms
R3#
```

```
R3#ping 209.65.200.225

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 209.65.200.225, timeout is 2 seconds:
!!!!!
```

```
Success rate is 100 percent (5/5), round-trip min/avg/max = 128/130/132
ms
R3#
```

```
R3#ping 10.1.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 128/130/132
ms
R3#
```

```
R3#ping 10.1.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/65/68 ms
R3#
```

```
R3#ping 10.1.1.5

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/65/68 ms
R3#
```

```
R3#ping 10.1.1.6

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.6, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 128/132/136
ms
R3#
```

```
R3#ping 10.1.1.9

Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.1.1.9, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 132/134/140
ms
R3#
```

```
R3#ping 10.1.1.10

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/64/68 ms
R3#
```

```
R3#ping 10.1.4.10

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.4.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/66/68 ms
R3#
```

```
R3#ping 10.1.4.9

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.4.9, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/65/68 ms
R3#
```

```
R3#ping 10.1.4.6

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.4.6, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/65/68 ms
R3#
```

```
R3#ping 10.1.4.5

Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.1.4.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/65/68 ms
R3#
```

```
R3#ping 10.2.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/68/76 ms
R3#
```

```
R3#ping 10.2.2.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.2.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/64/68 ms
R3#
```

```
R3#ping 10.2.1.254

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.1.254, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/68/76 ms
R3#
```

```
R3#ping 10.2.4.14

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.4.14, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/66/68 ms
R3#
```

```
R3#ping 10.2.4.13

Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.2.4.13, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/66/68 ms
R3#
```

```
R3#ping 10.2.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.1.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/64/64 ms
R3#
```

```
R3#ping 10.2.2.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.2.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/67/72 ms
R3#
```

```
R3#ping 10.2.1.4

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.1.4, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/65/68 ms
R3#
```

```
R3#show ip interface brief
Interface                  IP-Address      OK? Method Status
Protocol
FastEthernet0/0            unassigned      YES NVRAM  administratively
down down
FastEthernet0/1            unassigned      YES NVRAM  administratively
down down
Serial0/0/0                unassigned      YES NVRAM  down
down
Serial0/0/1                unassigned      YES NVRAM  down
down
Serial0/1/0                unassigned      YES NVRAM  administratively
down down
Serial0/2/0                unassigned      YES NVRAM  up
up
Serial0/2/0.23             10.1.1.6        YES NVRAM  up
up
Serial0/2/0.34             10.1.1.9        YES NVRAM  up
up
Serial0/3/0                unassigned      YES NVRAM  down
down
Tunnel34                   unassigned      YES NVRAM  up
up
R3#
```

```
R3#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS
level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static
route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

     209.65.200.0/24 is variably subnetted, 2 subnets, 2 masks
O E2    209.65.200.240/29 [110/1] via 10.1.1.5, 00:24:27, Serial0/2/0.23
O E2    209.65.200.224/30 [110/20] via 10.1.1.5, 00:24:27, Serial0/2/0.23
     10.0.0.0/8 is variably subnetted, 8 subnets, 2 masks
O N2    10.2.4.12/30 [110/20] via 10.1.1.10, 00:24:37, Serial0/2/0.34
C       10.1.1.8/30 is directly connected, Serial0/2/0.34
O N2    10.1.4.8/30 [110/20] via 10.1.1.10, 00:24:37, Serial0/2/0.34
O N2    10.2.1.0/24 [110/20] via 10.1.1.10, 00:24:38, Serial0/2/0.34
O N2    10.2.2.0/24 [110/20] via 10.1.1.10, 00:24:38, Serial0/2/0.34
O IA    10.1.1.0/30 [110/128] via 10.1.1.5, 00:24:38, Serial0/2/0.23
O N2    10.1.4.4/30 [110/20] via 10.1.1.10, 00:24:38, Serial0/2/0.34
C       10.1.1.4/30 is directly connected, Serial0/2/0.23
R3#
```

```
R3#show processes cpu
CPU utilization for five seconds: 1%/0%; one minute: 2%; five minutes: 2%
 PID Runtime(ms)   Invoked      uSecs   5Sec   1Min   5Min TTY Process
   1           8        70        114  0.00%  0.00%  0.00%   0 Chunk
Manager
   2           8       357         22  0.07%  0.04%  0.02%   0 Load Meter
   3           4         7        571  0.00%  0.00%  0.00%   0 Collection
proce
   4           0         1          0  0.00%  0.00%  0.00%   0 EDDRI_MAIN
   5        2172       211      10293  0.00%  0.11%  0.11%   0 Check
heaps
   6           0         1          0  0.00%  0.00%  0.00%   0 Pool
Manager
   7           0         2          0  0.00%  0.00%  0.00%   0 Timers
   8           0         1          0  0.00%  0.00%  0.00%   0 License
Client N
   9          36       731         49  0.00%  0.00%  0.00%   0 OSPF-1
Hello
  10           0        31          0  0.00%  0.00%  0.00%   0 IPC
Dynamic Cach
  11           0         1          0  0.00%  0.00%  0.00%   0 IPC Zone
Manager
  12           0      1781          0  0.00%  0.00%  0.00%   0 IPC
Periodic Tim
  13           0      1781          0  0.00%  0.00%  0.00%   0 IPC
Deferred Por
  14           0         1          0  0.00%  0.00%  0.00%   0 IPC Seat
Manager
  15           0         1          0  0.00%  0.00%  0.00%   0 IPC
BackPressure
  16           0         1          0  0.00%  0.00%  0.00%   0 OIR
Handler
```

```
  17           0         1           0  0.00%  0.00%  0.00%   0 Crash
writer
  18           0        61           0  0.00%  0.00%  0.00%   0
Environmental mo
  19           0         1           0  0.00%  0.00%  0.00%   0 ARP Input
  20           0      1862           0  0.00%  0.00%  0.00%   0 ARP
Background
  21           0         2           0  0.00%  0.00%  0.00%   0 ATM Idle
Timer
  22           0         2           0  0.00%  0.00%  0.00%   0 AAA high-
capacit
  23           0         1           0  0.00%  0.00%  0.00%   0
AAA_SERVER_DEADT
  24           0         1           0  0.00%  0.00%  0.00%   0 Policy
Manager
  25           4         8         500  0.00%  0.00%  0.00%   0 DDR Timers
  26           4         2        2000  0.00%  0.00%  0.00%   0 Entity MIB
API
  27           8        54         148  0.00%  0.00%  0.00%   0 EEM ED
Syslog
  28           0       536           0  0.00%  0.00%  0.00%   0 HC Counter
Timer
  29           0        63           0  0.00%  0.00%  0.00%   0 Serial
Backgroun
  30           0         1           0  0.00%  0.00%  0.00%   0 RO Notify
Timers
  31           0         1           0  0.00%  0.00%  0.00%   0 RMI RM
Notify Wa
  32           0         2           0  0.00%  0.00%  0.00%   0 SMART
  33           0      1780           0  0.00%  0.00%  0.00%   0 GraphIt
  34           0         2           0  0.00%  0.00%  0.00%   0 Dialer
event
  35           0         1           0  0.00%  0.00%  0.00%   0 SERIAL
A'detect
  36           0         2           0  0.00%  0.00%  0.00%   0 XML Proxy
Client
  37           0         1           0  0.00%  0.00%  0.00%   0 Critical
Bkgnd
  38          60       899          66  0.00%  0.00%  0.00%   0 Net
Background
  39           0         2           0  0.00%  0.00%  0.00%   0 IDB Work
  40           4        63          63  0.00%  0.00%  0.00%   0 Logger
  41           0      1776           0  0.00%  0.00%  0.00%   0 TTY
Background
  42           4      1785           2  0.00%  0.02%  0.00%   0 Per-Second
Jobs
  43           0       120           0  0.00%  0.00%  0.00%   0 c2800
Periodic
  44           0         1           0  0.00%  0.00%  0.00%   0 Inode
Table Dest
  45           0         1           0  0.00%  0.00%  0.00%   0 IKE HA Mgr
  46           0         1           0  0.00%  0.00%  0.00%   0 IPSEC HA
Mgr
  47           4         4        1000  0.00%  0.00%  0.00%   0 rf task
```

```
  48           0         3          0  0.00%  0.00%  0.00%   0 Net Input
  49           0       358          0  0.00%  0.00%  0.00%   0 Compute
load avg
  50         720        31      23225  0.00%  0.04%  0.00%   0 Per-minute
Jobs
  51           0         1          0  0.00%  0.00%  0.00%   0 AggMgr
Process
  52           0         1          0  0.00%  0.00%  0.00%   0 Token
Daemon
  53           0         1          0  0.00%  0.00%  0.00%   0 Transport
Port A
  54           0         1          0  0.00%  0.00%  0.00%   0
dev_device_inser
  55           0         1          0  0.00%  0.00%  0.00%   0
dev_device_remov
  56           0         1          0  0.00%  0.00%  0.00%   0
sal_dpc_process
  57           0         1          0  0.00%  0.00%  0.00%   0 ARL Table
Manage
  58           0         2          0  0.00%  0.00%  0.00%   0 ESWPPM
  59           4         2       2000  0.00%  0.00%  0.00%   0 Eswilp
Storm Con
  60           0         2          0  0.00%  0.00%  0.00%   0 ESWILPPM
  61           0         2          0  0.00%  0.00%  0.00%   0 Eswilp
Storm Con
  62           0      7128          0  0.00%  0.01%  0.00%   0 Netclock
Backgro
  63           0         2          0  0.00%  0.00%  0.00%   0 SM Monitor
  64           0         2          0  0.00%  0.00%  0.00%   0 Bryce I2C
CMD Qu
  65         276         4      69000  0.00%  0.00%  0.00%   0 USB
Startup
  66           0       298          0  0.00%  0.00%  0.00%   0 mxt5100
  67           4         2       2000  0.00%  0.00%  0.00%   0 VNM DSPRM
MAIN
  68           0         1          0  0.00%  0.00%  0.00%   0 DSPFARM
DSP READ
  69           0         2          0  0.00%  0.00%  0.00%   0 FLEX DNLD
MAIN
  70           0         1          0  0.00%  0.00%  0.00%   0 HDV
background
  71           0         2          0  0.00%  0.00%  0.00%   0 VMI
Background
  72           0         1          0  0.00%  0.00%  0.00%   0
RF_INTERDEV_DELA
  73           0         1          0  0.00%  0.00%  0.00%   0
RF_INTERDEV_SCTP
  74           0         1          0  0.00%  0.00%  0.00%   0 chkpt
message ha
  75           0      1784          0  0.00%  0.00%  0.00%   0 Ether-
Switch RBC
  76           0         1          0  0.00%  0.00%  0.00%   0 IGMP
Snooping Pr
```

```
  77           0         1           0  0.00%  0.00%  0.00%   0 IGMP
Snooping Re
  78           0        61           0  0.00%  0.00%  0.00%   0 Call
Management
  79           0         1           0  0.00%  0.00%  0.00%   0 AAL2CPS
TIMER_CU
  80           0         1           0  0.00%  0.00%  0.00%   0 CES Line
Conditi
  81           0         1           0  0.00%  0.00%  0.00%   0
CF_INTERDEV_SCTP
  82           0         1           0  0.00%  0.00%  0.00%   0 Async
write proc
  83           0         1           0  0.00%  0.00%  0.00%   0 Async
write proc
  84           0         1           0  0.00%  0.00%  0.00%   0 Async
write proc
  85           0         1           0  0.00%  0.00%  0.00%   0 Async
write proc
  86           0        30           0  0.00%  0.00%  0.00%   0 DFS flush
period
  87           4         2        2000  0.00%  0.00%  0.00%   0 Dot1x Mgr
Proces
  88           0         1           0  0.00%  0.00%  0.00%   0 MAB
Framework
  89           0         1           0  0.00%  0.00%  0.00%   0 EAP
Framework
  90           0         2           0  0.00%  0.00%  0.00%   0 DTP
Protocol
  91           0      1785           0  0.00%  0.00%  0.00%   0 PI MATM
Aging Pr
  92           0       180           0  0.00%  0.00%  0.00%   0 EtherChnl
  93           0         2           0  0.00%  0.00%  0.00%   0 Ethernet
CFM
  94           0      1743           0  0.00%  0.00%  0.00%   0 Ethernet
Timer C
  95           0      1788           0  0.00%  0.00%  0.00%   0 linktest
  96           0         2           0  0.00%  0.00%  0.00%   0 Dot11 Mgmt
& Ass
  97           0         2           0  0.00%  0.00%  0.00%   0 Dot11 aaa
proces
  98           0        30           0  0.00%  0.00%  0.00%   0 pmkid
  99           4         2        2000  0.00%  0.00%  0.00%   0 Dot11 auth
Dot1x
 100           0         1           0  0.00%  0.00%  0.00%   0 Dot11 Mac
Auth
 101           0         2           0  0.00%  0.00%  0.00%   0 AAA
Dictionary R
 102           0         2           0  0.00%  0.00%  0.00%   0 AAA Server
 103           0         1           0  0.00%  0.00%  0.00%   0 AAA ACCT
Proc
 104           0         1           0  0.00%  0.00%  0.00%   0 ACCT
Periodic Pr
 105          76       302         251  0.00%  0.00%  0.00%   0 CDP
Protocol
```

106	4	2	2000	0.00%	0.00%	0.00%	0	Ethernet OAM Pro
107	0	2	0	0.00%	0.00%	0.00%	0	CEF switching ba
108	0	2	0	0.00%	0.00%	0.00%	0	ADJ resolve proc
109	0	1	0	0.00%	0.00%	0.00%	0	IP ARP Adjacency
110	4	1	4000	0.00%	0.00%	0.00%	0	IP ARP Retry Age
111	212	878	241	0.00%	0.01%	0.00%	0	IP Input
112	0	1	0	0.00%	0.00%	0.00%	0	ICMP event handl
113	0	4	0	0.00%	0.00%	0.00%	0	TurboACL
114	0	2	0	0.00%	0.00%	0.00%	0	TurboACL chunk
115	0	1	0	0.00%	0.00%	0.00%	0	IPv6 Echo event
116	0	1	0	0.00%	0.00%	0.00%	0	LSP Tunnel FRR
117	0	1	0	0.00%	0.00%	0.00%	0	MPLS Auto-Tunnel
118	0	5	0	0.00%	0.00%	0.00%	0	MOP Protocols
119	0	3	0	0.00%	0.00%	0.00%	0	PPP Hooks
120	3724	736	5059	0.07%	0.24%	0.23%	0	Exec
121	0	1	0	0.00%	0.00%	0.00%	0	SSS Manager
122	0	1	0	0.00%	0.00%	0.00%	0	SSS Feature Mana
123	0	1	0	0.00%	0.00%	0.00%	0	SSS Feature Time
124	0	2	0	0.00%	0.00%	0.00%	0	Spanning Tree
125	0	1	0	0.00%	0.00%	0.00%	0	X.25 Encaps Mana
126	4	32	125	0.00%	0.00%	0.00%	0	SSM connection m
127	0	1	0	0.00%	0.00%	0.00%	0	AC Switch
128	0	7	0	0.00%	0.00%	0.00%	0	Authentication P
129	0	1	0	0.00%	0.00%	0.00%	0	Auth-proxy AAA B
130	100	2	50000	0.00%	0.00%	0.00%	0	EAPoUDP Process
131	0	2	0	0.00%	0.00%	0.00%	0	IP Host Track Pr
132	0	2	0	0.00%	0.00%	0.00%	0	KRB5 AAA
133	0	2	0	0.00%	0.00%	0.00%	0	Ethernet LMI
134	0	2	0	0.00%	0.00%	0.00%	0	PPP IP Route
135	0	2	0	0.00%	0.00%	0.00%	0	PPP IPCP

```
 136          52        149         348  0.00%  0.00%  0.00%   0 IP
Background
 137          56         15        3733  0.00%  0.00%  0.00%   0 IP RIB
Update
 138           0          2           0  0.00%  0.00%  0.00%   0 Dot1x
Supplicant
 139           0          2           0  0.00%  0.00%  0.00%   0 Dot1x
Supplicant
 140           0          2           0  0.00%  0.00%  0.00%   0 Dot1x
Supplicant
 141           0          1           0  0.00%  0.00%  0.00%   0 Asy FS
Helper
 142           0         30           0  0.00%  0.00%  0.00%   0 Licensing
Auto U
 143           0          1           0  0.00%  0.00%  0.00%   0 Socket
Timers
 144           0        134           0  0.00%  0.00%  0.00%   0 CEF
background p
 145          12       2296           5  0.00%  0.01%  0.00%   0 CEF: IPv4
proces
 146           4         29         137  0.00%  0.00%  0.00%   0 ADJ
background
 147           0          2           0  0.00%  0.00%  0.00%   0 L2MM
 148           0          1           0  0.00%  0.00%  0.00%   0 MRD
 149           0          1           0  0.00%  0.00%  0.00%   0 IGMPSN
 150           0          1           0  0.00%  0.00%  0.00%   0 L2X Data
Daemon
 151           0          1           0  0.00%  0.00%  0.00%   0 TCP Timer
 152           0          1           0  0.00%  0.00%  0.00%   0 TCP
Protocols
 153           0          6           0  0.00%  0.00%  0.00%   0 HTTP CORE
 154           0          1           0  0.00%  0.00%  0.00%   0 IP
Traceroute
 155           0          2           0  0.00%  0.00%  0.00%   0 RLM groups
Proce
 156           0          2           0  0.00%  0.00%  0.00%   0 PPPoE Flow
Contr
 157           0          1           0  0.00%  0.00%  0.00%   0 SNMP
Timers
 158           0          2           0  0.00%  0.00%  0.00%   0 SCTP Main
Proces
 159           0          1           0  0.00%  0.00%  0.00%   0 IUA Main
Process
 160           0       1792           0  0.00%  0.00%  0.00%   0 RUDPV1
Main Proc
 161           0          1           0  0.00%  0.00%  0.00%   0 bsm_timers
 162           0       1795           0  0.00%  0.00%  0.00%   0
bsm_xmt_proc
 163           0          1           0  0.00%  0.00%  0.00%   0 CES Client
SVC R
 164           0          1           0  0.00%  0.00%  0.00%   0 COPS
 165           0          2           0  0.00%  0.00%  0.00%   0 Dialer
Forwarder
```

```
 166           0         3           0  0.00%  0.00%  0.00%   0 Flow
Exporter Ti
 167           0         2           0  0.00%  0.00%  0.00%   0 ATM OAM
Input
 168           0         2           0  0.00%  0.00%  0.00%   0 ATM OAM
TIMER
 169           0         1           0  0.00%  0.00%  0.00%   0 RARP Input
 170           0         1           0  0.00%  0.00%  0.00%   0 LAPB
Process
 171           0         1           0  0.00%  0.00%  0.00%   0 IPv6
Inspect Tim
 172           4         2        2000  0.00%  0.00%  0.00%   0 LFDp Input
Proc
 173           0         1           0  0.00%  0.00%  0.00%   0 PAD InCall
 174           0         2           0  0.00%  0.00%  0.00%   0 X.25
Background
 175           4         2        2000  0.00%  0.00%  0.00%   0 PPP Bind
 176           0         2           0  0.00%  0.00%  0.00%   0 PPP SSS
 177           0         1           0  0.00%  0.00%  0.00%   0 MQC Flow
Event B
 178          16    446080           0  0.79%  0.80%  0.79%   0 HQF Shaper
Backg
 179           0     17889           0  0.00%  0.03%  0.02%   0 RBSCP
Background
 180           0         1           0  0.00%  0.00%  0.00%   0 VPDN call
manage
 181           0         1           0  0.00%  0.00%  0.00%   0 CHKPT
EXAMPLE
 182           0         1           0  0.00%  0.00%  0.00%   0 CHKPT
DevTest
 183           0         1           0  0.00%  0.00%  0.00%   0 IPS
Process
 184           0         2           0  0.00%  0.00%  0.00%   0 IPS Auto
Update
 185           0         2           0  0.00%  0.00%  0.00%   0 SDEE
Management
 186           0      3501           0  0.00%  0.00%  0.00%   0 Inspect
process
 187           0         2           0  0.00%  0.00%  0.00%   0
cpf_process_msg_
 188           0      3501           0  0.00%  0.00%  0.00%   0 FW DP
Inspect pr
 189           0      3501           0  0.00%  0.00%  0.00%   0 CCE DP
URLF cach
 190           0         2           0  0.00%  0.00%  0.00%   0 URL filter
proc
 191           0         1           0  0.00%  0.00%  0.00%   0 Select
Timers
 192          32         2       16000  0.00%  0.00%  0.00%   0 HTTP
Process
 193           0         2           0  0.00%  0.00%  0.00%   0 CIFS API
Process
 194           0         2           0  0.00%  0.00%  0.00%   0 CIFS Proxy
Proce
```

```
 195           8         3       2666  0.00%  0.00%  0.00%   0 Crypto HW
Proc
 196           0        74          0  0.00%  0.00%  0.00%   0
CRM_CALL_UPDATE_
 197         116         2      58000  0.00%  0.00%  0.00%   0
CCVPM_HDSPRM
 198           0         4          0  0.00%  0.00%  0.00%   0 HDA DSPRM
MAIN
 199           4         2       2000  0.00%  0.00%  0.00%   0 STUN_APP
 200           0         1          0  0.00%  0.00%  0.00%   0 STUN_TEST
 201           0         1          0  0.00%  0.00%  0.00%   0
cpf_process_tpQ
 202           0         2          0  0.00%  0.00%  0.00%   0 AAA Cached
Serve
 203           0         2          0  0.00%  0.00%  0.00%   0 ENABLE AAA
 204           0         1          0  0.00%  0.00%  0.00%   0 EM
Background Pr
 205           0         1          0  0.00%  0.00%  0.00%   0 Key chain
liveke
 206           0         2          0  0.00%  0.00%  0.00%   0 LINE AAA
 207           0         2          0  0.00%  0.00%  0.00%   0 LOCAL AAA
 208           0         4          0  0.00%  0.00%  0.00%   0 MPLS Auto
Mesh P
 209           0         2          0  0.00%  0.00%  0.00%   0 TPLUS
 210           0         2          0  0.00%  0.00%  0.00%   0 VSP_MGR
 211           0         1          0  0.00%  0.00%  0.00%   0
FW_TEST_TRP
 212           4         1       4000  0.00%  0.00%  0.00%   0 EPM MAIN
PROCESS
 213           0         3          0  0.00%  0.00%  0.00%   0 Crypto WUI
 214           0         2          0  0.00%  0.00%  0.00%   0 Crypto
Support
 215           0         1          0  0.00%  0.00%  0.00%   0 IPSECv6 PS
Proc
 216           0         1          0  0.00%  0.00%  0.00%   0 CCVPM_HTSP
 217           0         2          0  0.00%  0.00%  0.00%   0
VPM_MWI_BACKGROU
 218           0         1          0  0.00%  0.00%  0.00%   0 CCVPM_R2
 219           0         1          0  0.00%  0.00%  0.00%   0 EPHONE MWI
Refre
 220           0         3          0  0.00%  0.00%  0.00%   0 FB/KS Log
HouseK
 221           0         2          0  0.00%  0.00%  0.00%   0 EPHONE MWI
BG Pr
 222           0         1          0  0.00%  0.00%  0.00%   0 Skinny HW
confer
 223           4       667          5  0.00%  0.00%  0.00%   0 FLEX DSPRM
MAIN
 224           0       665          0  0.00%  0.00%  0.00%   0 FLEX DSP
KEEPALI
 225           0        61          0  0.00%  0.00%  0.00%   0 VOICE REG
BG Pro
 226           0         1          0  0.00%  0.00%  0.00%   0 Presence
Process
```

```
 227           0         1           0  0.00%  0.00%  0.00%   0 CCSWVOICE
 229           0         1           0  0.00%  0.00%  0.00%   0 http
client proc
 230          12       527          22  0.07%  0.00%  0.00%   0 OSPFv3-6
Hello
 231           4         1        4000  0.00%  0.00%  0.00%   0
QOS_MODULE_MAIN
 232           0         1           0  0.00%  0.00%  0.00%   0
RPMS_PROC_MAIN
 233           0         1           0  0.00%  0.00%  0.00%   0 VoIP AAA
 234           0         2           0  0.00%  0.00%  0.00%   0 Dialog
Manager
 235           4         3        1333  0.00%  0.00%  0.00%   0 crypto
engine pr
 236           0         4           0  0.00%  0.00%  0.00%   0 Crypto CA
 237           0         1           0  0.00%  0.00%  0.00%   0 Crypto
PKI-CRL
 238           0         1           0  0.00%  0.00%  0.00%   0 encrypt
proc
 239           0         2           0  0.00%  0.00%  0.00%   0 crypto sw
pk pro
 240           0         1           0  0.00%  0.00%  0.00%   0 Crypto INT
 241           4         3        1333  0.00%  0.00%  0.00%   0 Crypto IKE
Dispa
 242           8         3        2666  0.00%  0.00%  0.00%   0 Crypto
IKMP
 243           0         1           0  0.00%  0.00%  0.00%   0 IPSEC
manual key
 244         192        93        2064  0.00%  0.00%  0.00%   0 IPSEC key
engine
 245           0         2           0  0.00%  0.00%  0.00%   0 CRYPTO QoS
proce
 246           4         4        1000  0.00%  0.00%  0.00%   0 Crypto ACL
 247           0         1           0  0.00%  0.00%  0.00%   0 Crypto PAS
Proc
 248           0         1           0  0.00%  0.00%  0.00%   0 GDOI GM
Process
 249           0         1           0  0.00%  0.00%  0.00%   0 UNICAST
REKEY
 250           0         1           0  0.00%  0.00%  0.00%   0 UNICAST
REKEY AC
 251           0      1803           0  0.00%  0.00%  0.00%   0 Crypto
Device Up
 252           0         2           0  0.00%  0.00%  0.00%   0 Multi-ISA
Event
 253           0         1           0  0.00%  0.00%  0.00%   0 Multi-ISA
Cleanu
 254           0         1           0  0.00%  0.00%  0.00%   0 PM
Callback
 255           0         1           0  0.00%  0.00%  0.00%   0 Licensing
MIB pr
 256           0      9008           0  0.00%  0.01%  0.00%   0 Atheros
LED Ctro
```

257	0	2	0	0.00%	0.00%	0.00%	0	Control-plane ho
258	0	1	0	0.00%	0.00%	0.00%	0	DATA Transfer Pr
259	0	1	0	0.00%	0.00%	0.00%	0	DATA Collector
260	0	2	0	0.00%	0.00%	0.00%	0	AAA SEND STOP EV
261	8	2	4000	0.00%	0.00%	0.00%	0	EEM ED Resource
262	0	2	0	0.00%	0.00%	0.00%	0	EEM ED Routing
263	0	3	0	0.00%	0.00%	0.00%	0	EEM ED Track
264	0	181	0	0.00%	0.00%	0.00%	0	RMON Recycle Pro
265	0	2	0	0.00%	0.00%	0.00%	0	RMON Deferred Se
266	0	1	0	0.00%	0.00%	0.00%	0	Syslog Traps
267	0	57	0	0.00%	0.00%	0.00%	0	Crypto cTCP proc
268	4	2	2000	0.00%	0.00%	0.00%	0	VLAN Manager
269	4	1	4000	0.00%	0.00%	0.00%	0	LICENSE AGENT
271	0	1784	0	0.00%	0.00%	0.00%	0	trunk conditioni
272	0	1	0	0.00%	0.00%	0.00%	0	trunk conditioni
273	0	1806	0	0.00%	0.00%	0.00%	0	CME Extension Mo
274	0	1	0	0.00%	0.00%	0.00%	0	IP SLAs Ethernet
275	0	84	0	0.00%	0.00%	0.00%	0	EEM Server
276	4	2	2000	0.00%	0.00%	0.00%	0	EEM Policy Direc
277	0	3	0	0.00%	0.00%	0.00%	0	EEM ED CLI
278	0	3	0	0.00%	0.00%	0.00%	0	EEM ED Counter
279	0	3	0	0.00%	0.00%	0.00%	0	EM ED GOLD
280	0	3	0	0.00%	0.00%	0.00%	0	EEM ED Interface
281	0	3	0	0.00%	0.00%	0.00%	0	EEM ED IOSWD
282	0	3	0	0.00%	0.00%	0.00%	0	EEM ED Ipsla
283	0	3	0	0.00%	0.00%	0.00%	0	EEM ED None
284	0	2	0	0.00%	0.00%	0.00%	0	EEM ED Nf
285	0	3	0	0.00%	0.00%	0.00%	0	EEM ED OIR
286	0	3	0	0.00%	0.00%	0.00%	0	EEM ED RF
287	0	3	0	0.00%	0.00%	0.00%	0	EEM ED SNMP

```
 288           0         2           0  0.00%  0.00%  0.00%   0 EEM ED
SNMP Noti
 289           4        50          80  0.00%  0.00%  0.00%   0 EEM ED
Timer
 290           4         3        1333  0.00%  0.00%  0.00%   0 EEM ED
Test
 291           0         3           0  0.00%  0.00%  0.00%   0 EEM ED
Config
 292           0         3           0  0.00%  0.00%  0.00%   0 EEM ED Env
 293           4        35         114  0.00%  0.00%  0.00%   0 Syslog
 294           0         1           0  0.00%  0.00%  0.00%   0 VPDN Test
 295           0         3           0  0.00%  0.00%  0.00%   0 EEM ED RPC
 296           0         2           0  0.00%  0.00%  0.00%   0 Key Proc
 297           0         1           0  0.00%  0.00%  0.00%   0 tHUB
 299          32        65         492  0.00%  0.00%  0.00%   0 IPv6 RIB
Event H
 300           4       903           4  0.00%  0.00%  0.00%   0 CEF: IPv6
proces
 301          24       174         137  0.00%  0.00%  0.00%   0 IPv6 IDB
 302          44       288         152  0.00%  0.00%  0.00%   0 IPv6 Input
 303          28        28        1000  0.00%  0.00%  0.00%   0 IPv6 ND
 304           0         1           0  0.00%  0.00%  0.00%   0 IPv6
Address
 305           8      7240           1  0.00%  0.02%  0.02%   0 MLD
 306          64      1932          33  0.00%  0.00%  0.00%   0 OSPFv3-6
Router
 307         232       329         705  0.00%  0.00%  0.00%   0 FR LMI
 308          20        42         476  0.00%  0.00%  0.00%   0 FR PVC
event man
 309           0     18023           0  0.07%  0.03%  0.02%   0 FR
Broadcast Out
 310           0        33           0  0.00%  0.00%  0.00%   0 FR ARP
 311           0        31           0  0.00%  0.00%  0.00%   0 FR
FRAGMENTATION
 312           0        91           0  0.00%  0.00%  0.00%   0 FR TUNNEL
 313           0         1           0  0.00%  0.00%  0.00%   0 FRF9
manager
 314           0         1           0  0.00%  0.00%  0.00%   0 FRF9 timed
event
 315           0       182           0  0.00%  0.00%  0.00%   0 compute
load per
 316           8      1812           4  0.07%  0.00%  0.00%   0 IGMP Input
 317           0     18018           0  0.00%  0.03%  0.02%   0 Mwheel
Process
 318          68     36125           1  0.07%  0.14%  0.15%   0 PIM
Process
 320          12      1855           6  0.00%  0.01%  0.02%   0 NTP
 322          80      1925          41  0.00%  0.00%  0.00%   0 OSPF-1
Router
R3#
```

```
R3#show interfaces
FastEthernet0/0 is administratively down, line protocol is down
  Hardware is MV96340 Ethernet, address is 0016.479a.f6e8 (bia
0016.479a.f6e8)
  MTU 1500 bytes, BW 100000 Kbit/sec, DLY 100 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto Speed, 100BaseTX/FX
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output never, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 watchdog
     0 input packets with dribble condition detected
```

```
     0 packets output, 0 bytes, 0 underruns
     0 output errors, 0 collisions, 0 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
FastEthernet0/1 is administratively down, line protocol is down
  Hardware is MV96340 Ethernet, address is 0016.479a.f6e9 (bia
0016.479a.f6e9)
  MTU 1500 bytes, BW 100000 Kbit/sec, DLY 100 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto Speed, 100BaseTX/FX
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output never, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 watchdog
     0 input packets with dribble condition detected
     0 packets output, 0 bytes, 0 underruns
     0 output errors, 0 collisions, 0 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
Serial0/0/0 is down, line protocol is down
  Hardware is GT96K Serial
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation HDLC, loopback not set
  Keepalive set (10 sec)
  CRC checking enabled
  Last input never, output never, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: weighted fair
  Output queue: 0/1000/64/0 (size/max total/threshold/drops)
     Conversations  0/0/256 (active/max active/max total)
     Reserved Conversations 0/0 (allocated/max allocated)
     Available Bandwidth 1158 kilobits/sec
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     0 packets output, 0 bytes, 0 underruns
```

```
     0 output errors, 0 collisions, 4 interface resets
     0 unknown protocol drops
     0 output buffer failures, 0 output buffers swapped out
     0 carrier transitions
     DCD=down  DSR=down  DTR=up  RTS=up  CTS=down

Serial0/0/1 is down, line protocol is down
  Hardware is GT96K Serial
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation HDLC, loopback not set
  Keepalive set (10 sec)
  CRC checking enabled
  Last input never, output never, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: weighted fair
  Output queue: 0/1000/64/0 (size/max total/threshold/drops)
     Conversations  0/0/256 (active/max active/max total)
     Reserved Conversations 0/0 (allocated/max allocated)
     Available Bandwidth 1158 kilobits/sec
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     0 packets output, 0 bytes, 0 underruns
     0 output errors, 0 collisions, 5 interface resets
     0 unknown protocol drops
     0 output buffer failures, 0 output buffers swapped out
     0 carrier transitions
     DCD=up  DSR=up  DTR=down  RTS=down  CTS=up

Serial0/1/0 is administratively down, line protocol is down
  Hardware is GT96K Serial
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation HDLC, loopback not set
  Keepalive set (10 sec)
  CRC checking enabled
  Last input 00:30:19, output 00:30:18, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: weighted fair
  Output queue: 0/1000/64/0 (size/max total/threshold/drops)
     Conversations  0/1/256 (active/max active/max total)
     Reserved Conversations 0/0 (allocated/max allocated)
     Available Bandwidth 1158 kilobits/sec
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     1 packets input, 24 bytes, 0 no buffer
     Received 1 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     1 packets output, 24 bytes, 0 underruns
```

```
     0 output errors, 0 collisions, 3 interface resets
     0 unknown protocol drops
     0 output buffer failures, 0 output buffers swapped out
     0 carrier transitions
     DCD=down  DSR=down  DTR=down  RTS=down  CTS=down

Serial0/2/0 is up, line protocol is up
  Hardware is GT96K Serial
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation FRAME-RELAY, loopback not set
  Keepalive set (10 sec)
  CRC checking enabled
  LMI enq sent  165, LMI stat recvd 163, LMI upd recvd 0, DTE LMI up
  LMI enq recvd 0, LMI stat sent  0, LMI upd sent  0
  LMI DLCI 1023  LMI type is CISCO  frame relay DTE
  FR SVC disabled, LAPF state down
  Broadcast queue 0/64, broadcasts sent/dropped 859/0, interface
broadcasts 822
  Last input 00:00:00, output 00:00:00, output hang never
  Last clearing of "show interface" counters 00:30:17
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: weighted fair
  Output queue: 0/1000/64/0 (size/max total/threshold/drops)
     Conversations  0/4/256 (active/max active/max total)
     Reserved Conversations 0/0 (allocated/max allocated)
     Available Bandwidth 1158 kilobits/sec
  5 minute input rate 1000 bits/sec, 3 packets/sec
  5 minute output rate 1000 bits/sec, 3 packets/sec
     5069 packets input, 378160 bytes, 0 no buffer
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     5247 packets output, 395339 bytes, 0 underruns
     0 output errors, 0 collisions, 7 interface resets
     0 unknown protocol drops
     0 output buffer failures, 0 output buffers swapped out
     68 carrier transitions
     DCD=up  DSR=up  DTR=up  RTS=up  CTS=up

Serial0/2/0.23 is up, line protocol is up
  Hardware is GT96K Serial
  Internet address is 10.1.1.6/30
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation FRAME-RELAY
  CRC checking enabled
  Last clearing of "show interface" counters never
Serial0/2/0.34 is up, line protocol is up
  Hardware is GT96K Serial
  Internet address is 10.1.1.9/30
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation FRAME-RELAY
  CRC checking enabled
```

```
  Last clearing of "show interface" counters never
Serial0/3/0 is down, line protocol is down
  Hardware is GT96K Serial
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation HDLC, loopback not set
  Keepalive set (10 sec)
  CRC checking enabled
  Last input 00:29:46, output 00:29:52, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: weighted fair
  Output queue: 0/1000/64/0 (size/max total/threshold/drops)
     Conversations  0/1/256 (active/max active/max total)
     Reserved Conversations 0/0 (allocated/max allocated)
     Available Bandwidth 1158 kilobits/sec
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     1 packets input, 24 bytes, 0 no buffer
     Received 1 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     5 packets output, 1026 bytes, 0 underruns
     0 output errors, 0 collisions, 63 interface resets
     0 unknown protocol drops
     0 output buffer failures, 0 output buffers swapped out
     8 carrier transitions
     DCD=down  DSR=down  DTR=up  RTS=up  CTS=down

Tunnel34 is up, line protocol is up
  Hardware is Tunnel
  MTU 17916 bytes, BW 100 Kbit/sec, DLY 50000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation TUNNEL, loopback not set
  Keepalive not set
  Tunnel source 10.1.1.9, destination 10.1.1.10
  Tunnel protocol/transport GRE/IP
    Key disabled, sequencing disabled
    Checksumming of packets disabled
  Tunnel TTL 255
  Fast tunneling enabled
  Tunnel transport MTU 1476 bytes
  Tunnel transmit bandwidth 8000 (kbps)
  Tunnel receive bandwidth 8000 (kbps)
  Last input 00:23:56, output 00:00:09, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 21
  Queueing strategy: fifo
  Output queue: 0/0 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     62 packets input, 9112 bytes, 0 no buffer
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     304 packets output, 30836 bytes, 0 underruns
```

```
     0 output errors, 0 collisions, 0 interface resets
     0 unknown protocol drops
     0 output buffer failures, 0 output buffers swapped out
R3#
```

```
R3#show cdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
                  S - Switch, H - Host, I - IGMP, r - Repeater

Device ID        Local Intrfce     Holdtme    Capability  Platform  Port
ID
R2               Ser 0/2/0.23       134         R S I     2811      Ser
0/2/0.23
R4               Ser 0/2/0.34       133         R S I     1841      Ser
0/1/0.34
R3#
```

```
R3#show cdp neighbors detail
-------------------------
Device ID: R2
Entry address(es):
  IP address: 10.1.1.5
  IPv6 address: 2026::1:1  (global unicast)
  IPv6 address: FE80::216:9DFF:FEFA:CAB0  (link-local)
Platform: Cisco 2811,  Capabilities: Router Switch IGMP
Interface: Serial0/2/0.23,  Port ID (outgoing port): Serial0/2/0.23
Holdtime : 126 sec

Version :
Cisco IOS Software, 2800 Software (C2800NM-ADVIPSERVICESK9-M), Version
12.4(22)T2, RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2009 by Cisco Systems, Inc.
Compiled Fri 19-Jun-09 15:34 by prod_rel_team

advertisement version: 2
VTP Management Domain: ''
```

```
-------------------------
Device ID: R4
Entry address(es):
  IP address: 10.1.1.10
Platform: Cisco 1841,  Capabilities: Router Switch IGMP
Interface: Serial0/2/0.34,  Port ID (outgoing port): Serial0/1/0.34
Holdtime : 125 sec

Version :
Cisco IOS Software, 1841 Software (C1841-ADVIPSERVICESK9-M), Version
12.4(25b), RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2009 by Cisco Systems, Inc.
Compiled Wed 12-Aug-09 10:49 by prod_rel_team

advertisement version: 2
VTP Management Domain: ''

R3#
```

```
R3#show frame-relay map
Serial0/2/0.23 (up): point-to-point dlci, dlci 302(0x12E,0x48E0),
broadcast
          status defined, active
Serial0/2/0.34 (up): point-to-point dlci, dlci 304(0x130,0x4C00),
broadcast
          status defined, active
R3#
```

```
R3#show ip interface
FastEthernet0/0 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/1 is administratively down, line protocol is down
  Internet protocol processing disabled
Serial0/0/0 is down, line protocol is down
  Internet protocol processing disabled
Serial0/0/1 is down, line protocol is down
  Internet protocol processing disabled
```

```
Serial0/1/0 is administratively down, line protocol is down
  Internet protocol processing disabled
Serial0/2/0 is up, line protocol is up
  Internet protocol processing disabled
Serial0/2/0.23 is up, line protocol is up
  Internet address is 10.1.1.6/30
  Broadcast address is 255.255.255.255
  Address determined by non-volatile memory
  MTU is 1500 bytes
  Helper address is not set
  Directed broadcast forwarding is disabled
  Multicast reserved groups joined: 224.0.0.1 224.0.0.2 224.0.0.22
224.0.0.13
      224.0.0.5
  Outgoing access list is not set
  Inbound  access list is not set
  Proxy ARP is enabled
  Local Proxy ARP is disabled
  Security level is default
  Split horizon is enabled
  ICMP redirects are always sent
  ICMP unreachables are always sent
  ICMP mask replies are never sent
  IP fast switching is enabled
  IP fast switching on the same interface is enabled
  IP Flow switching is disabled
  IP CEF switching is enabled
  IP CEF switching turbo vector
  IP multicast fast switching is enabled
  IP multicast distributed fast switching is disabled
  IP route-cache flags are Fast, CEF
  Router Discovery is disabled
  IP output packet accounting is disabled
  IP access violation accounting is disabled
  TCP/IP header compression is disabled
  RTP/IP header compression is disabled
  Policy routing is disabled
  Network address translation is disabled
  BGP Policy Mapping is disabled
  Input features: MCI Check
  WCCP Redirect outbound is disabled
  WCCP Redirect inbound is disabled
  WCCP Redirect exclude is disabled
Serial0/2/0.34 is up, line protocol is up
  Internet address is 10.1.1.9/30
  Broadcast address is 255.255.255.255
  Address determined by non-volatile memory
  MTU is 1500 bytes
  Helper address is not set
  Directed broadcast forwarding is disabled
  Multicast reserved groups joined: 224.0.0.1 224.0.0.2 224.0.0.22
224.0.0.13
      224.0.0.5
  Outgoing access list is not set
```

```
  Inbound  access list is not set
  Proxy ARP is enabled
  Local Proxy ARP is disabled
  Security level is default
  Split horizon is enabled
  ICMP redirects are always sent
  ICMP unreachables are always sent
  ICMP mask replies are never sent
  IP fast switching is enabled
  IP fast switching on the same interface is enabled
  IP Flow switching is disabled
  IP CEF switching is enabled
  IP CEF switching turbo vector
  IP multicast fast switching is enabled
  IP multicast distributed fast switching is disabled
  IP route-cache flags are Fast, CEF
  Router Discovery is disabled
  IP output packet accounting is disabled
  IP access violation accounting is disabled
  TCP/IP header compression is disabled
  RTP/IP header compression is disabled
  Policy routing is disabled
  Network address translation is disabled
  BGP Policy Mapping is disabled
  Input features: MCI Check
  WCCP Redirect outbound is disabled
  WCCP Redirect inbound is disabled
  WCCP Redirect exclude is disabled
Serial0/3/0 is down, line protocol is down
  Internet protocol processing disabled
Tunnel34 is up, line protocol is up
  Internet protocol processing disabled
R3#
```

```
R3#show ip cef
Prefix              Next Hop            Interface
0.0.0.0/0           no route
0.0.0.0/8           drop
0.0.0.0/32          receive
10.1.1.0/30         10.1.1.5            Serial0/2/0.23
10.1.1.4/30         attached            Serial0/2/0.23
10.1.1.4/32         receive             Serial0/2/0.23
10.1.1.6/32         receive             Serial0/2/0.23
10.1.1.7/32         receive             Serial0/2/0.23
10.1.1.8/30         attached            Serial0/2/0.34
10.1.1.8/32         receive             Serial0/2/0.34
10.1.1.9/32         receive             Serial0/2/0.34
10.1.1.11/32        receive             Serial0/2/0.34
10.1.4.4/30         10.1.1.10           Serial0/2/0.34
10.1.4.8/30         10.1.1.10           Serial0/2/0.34
10.2.1.0/24         10.1.1.10           Serial0/2/0.34
10.2.2.0/24         10.1.1.10           Serial0/2/0.34
10.2.4.12/30        10.1.1.10           Serial0/2/0.34
127.0.0.0/8         drop
209.65.200.224/30   10.1.1.5            Serial0/2/0.23
209.65.200.240/29   10.1.1.5            Serial0/2/0.23
224.0.0.0/4         multicast
224.0.0.0/24        receive
240.0.0.0/4         drop
255.255.255.255/32  receive
R3#
```

```
R3#show tcp statistics
Rcvd: 0 Total, 0 no port
      0 checksum error, 0 bad offset, 0 too short
      0 packets (0 bytes) in sequence
      0 dup packets (0 bytes)
      0 partially dup packets (0 bytes)
      0 out-of-order packets (0 bytes)
      0 packets (0 bytes) with data after window
      0 packets after close
      0 window probe packets, 0 window update packets
      0 dup ack packets, 0 ack packets with unsend data
      0 ack packets (0 bytes)
Sent: 0 Total, 0 urgent packets
      0 control packets (including 0 retransmitted)
      0 data packets (0 bytes)
      0 data packets (0 bytes) retransmitted
      0 data packets (0 bytes) fastretransmitted
      0 ack only packets (0 delayed)
      0 window probe packets, 0 window update packets
0 Connections initiated, 0 connections accepted, 0 connections
established
0 Connections closed (including 0 dropped, 0 embryonic dropped)
0 Total rxmt timeout, 0 connections dropped in rxmt timeout
0 Keepalive timeout, 0 keepalive probe, 0 Connections dropped in
keepalive
R3#
```

```
R3#show ip protocols
Routing Protocol is "ospf 1"
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Router ID 3.3.3.3
  It is an area border and autonomous system boundary router
  Redistributing External Routes from,
  Number of areas in this router is 2. 1 normal 0 stub 1 nssa
  Maximum path: 4
  Routing for Networks:
    10.1.1.2 0.0.0.0 area 0
    10.1.1.8 0.0.0.3 area 34
    10.3.3.1 0.0.0.0 area 0
    10.3.3.3 0.0.0.0 area 0
    0.0.0.0 255.255.255.255 area 0
 Reference bandwidth unit is 100 mbps
  Passive Interface(s):
    Serial0/2/0
  Routing Information Sources:
    Gateway         Distance      Last Update
    4.4.4.4              110      00:26:22
    2.2.2.2              110      00:26:22
```

```
    10.1.1.1             110      00:26:12
  Distance: (default is 110)

R3#
```

```
R3#show access-lists
Standard IP access list DENY_10
    10 deny   10.0.0.0, wildcard bits 0.255.255.255
    20 permit any
Standard IP access list DENY_ALL
    10 deny   any
Standard IP access list PERMIT_10
    10 permit 10.0.0.0, wildcard bits 0.255.255.255
Standard IP access list PERMIT_ALL
    10 permit any
R3#
```

```
R3#show ip ospf neighbor

Neighbor ID     Pri   State           Dead Time   Address
Interface
2.2.2.2           0   FULL/  -        00:00:38    10.1.1.5
Serial0/2/0.23
4.4.4.4           0   FULL/  -        00:00:37    10.1.1.10
Serial0/2/0.34
R3#
```

```
R3#show ip ospf interface
Serial0/2/0.23 is up, line protocol is up
  Internet Address 10.1.1.6/30, Area 0
  Process ID 1, Router ID 3.3.3.3, Network Type POINT_TO_POINT, Cost: 64
  Transmit Delay is 1 sec, State POINT_TO_POINT
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    oob-resync timeout 40
    Hello due in 00:00:05
  Supports Link-local Signaling (LLS)
  Cisco NSF helper support enabled
  IETF NSF helper support enabled
  Index 1/2, flood queue length 0
  Next 0x0(0)/0x0(0)
  Last flood scan length is 4, maximum is 4
  Last flood scan time is 0 msec, maximum is 0 msec
  Neighbor Count is 1, Adjacent neighbor count is 1
    Adjacent with neighbor 2.2.2.2
  Suppress hello for 0 neighbor(s)
Serial0/2/0.34 is up, line protocol is up
  Internet Address 10.1.1.9/30, Area 34
  Process ID 1, Router ID 3.3.3.3, Network Type POINT_TO_POINT, Cost: 64
  Transmit Delay is 1 sec, State POINT_TO_POINT
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    oob-resync timeout 40
    Hello due in 00:00:02
  Supports Link-local Signaling (LLS)
  Cisco NSF helper support enabled
  IETF NSF helper support enabled
  Index 1/1, flood queue length 0
  Next 0x0(0)/0x0(0)
```

```
  Last flood scan length is 1, maximum is 1
  Last flood scan time is 0 msec, maximum is 0 msec
  Neighbor Count is 1, Adjacent neighbor count is 1
    Adjacent with neighbor 4.4.4.4
  Suppress hello for 0 neighbor(s)
R3#
```

```
R3#show ip ospf database

            OSPF Router with ID (3.3.3.3) (Process ID 1)

                Router Link States (Area 0)

Link ID         ADV Router      Age         Seq#       Checksum Link
count
2.2.2.2         2.2.2.2         1622        0x8000000C 0x00C09D 2
3.3.3.3         3.3.3.3         1621        0x8000000C 0x0066F0 2

                Summary Net Link States (Area 0)
```

```
Link ID         ADV Router      Age         Seq#       Checksum
10.1.1.0        2.2.2.2         1623        0x80000001 0x0024C7
10.1.1.8        3.3.3.3         1622        0x80000001 0x00B52A

                Summary ASB Link States (Area 0)

Link ID         ADV Router      Age         Seq#       Checksum
10.1.1.1        2.2.2.2         1613        0x80000001 0x001EC8

                Router Link States (Area 34)

Link ID         ADV Router      Age         Seq#       Checksum Link
count
3.3.3.3         3.3.3.3         1621        0x8000000D 0x00D070 2
4.4.4.4         4.4.4.4         1623        0x8000000F 0x0069D1 2

                Summary Net Link States (Area 34)

Link ID         ADV Router      Age         Seq#       Checksum
0.0.0.0         3.3.3.3         1627        0x80000001 0x00DE4B

                Type-7 AS External Link States (Area 34)

Link ID         ADV Router      Age         Seq#       Checksum Tag
10.1.4.4        4.4.4.4         1625        0x80000004 0x00F369 0
10.1.4.8        4.4.4.4         1622        0x80000004 0x00CB8D 0
10.2.1.0        4.4.4.4         1625        0x80000002 0x00471B 0
10.2.2.0        4.4.4.4         1625        0x80000002 0x003C25 0
10.2.4.12       4.4.4.4         1625        0x80000002 0x009BBA 0

                Type-5 AS External Link States

Link ID         ADV Router      Age         Seq#       Checksum Tag
10.1.4.4        3.3.3.3         1607        0x80000001 0x00ACC1 0
10.1.4.8        3.3.3.3         1607        0x80000001 0x0084E5 0
10.2.1.0        3.3.3.3         1607        0x80000001 0x00FB75 0
10.2.2.0        3.3.3.3         1607        0x80000001 0x00F07F 0
10.2.4.12       3.3.3.3         1607        0x80000001 0x005015 0
209.65.200.224  10.1.1.1        1858        0x80000001 0x004693 0
209.65.200.240  10.1.1.1        1800        0x80000001 0x0031C6 65002
R3#
```

```
R3#show ip route ospf
     209.65.200.0/24 is variably subnetted, 2 subnets, 2 masks
O E2    209.65.200.240/29 [110/1] via 10.1.1.5, 00:26:51, Serial0/2/0.23
O E2    209.65.200.224/30 [110/20] via 10.1.1.5, 00:26:51, Serial0/2/0.23
     10.0.0.0/8 is variably subnetted, 8 subnets, 2 masks
O N2    10.2.4.12/30 [110/20] via 10.1.1.10, 00:27:01, Serial0/2/0.34
O N2    10.1.4.8/30 [110/20] via 10.1.1.10, 00:27:01, Serial0/2/0.34
O N2    10.2.1.0/24 [110/20] via 10.1.1.10, 00:27:01, Serial0/2/0.34
O N2    10.2.2.0/24 [110/20] via 10.1.1.10, 00:27:01, Serial0/2/0.34
O IA    10.1.1.0/30 [110/128] via 10.1.1.5, 00:27:01, Serial0/2/0.23
O N2    10.1.4.4/30 [110/20] via 10.1.1.10, 00:27:01, Serial0/2/0.34
R3#
```

```
R3#
R3#show ipv6 interface brief
FastEthernet0/0            [administratively down/down]
    unassigned
FastEthernet0/1            [administratively down/down]
    unassigned
Serial0/0/0                [down/down]
    unassigned
Serial0/0/1                [down/down]
    unassigned
Serial0/1/0                [administratively down/down]
    unassigned
Serial0/2/0                [up/up]
    unassigned
Serial0/2/0.23             [up/up]
    FE80::216:47FF:FE9A:F6E8
    2026::1:2
Serial0/2/0.34             [up/up]
    unassigned
Serial0/3/0                [down/down]
    unassigned
Tunnel34                   [up/up]
    FE80::A01:109
    2026::34:1
R3#
```

```
R3#ping ipv6 2026::12:1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::12:1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 128/129/132
ms
R3#
```

```
R3#ping ipv6 2026::12:2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::12:2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/66/68 ms
R3#
```

```
R3#ping ipv6 2026::1:1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::1:1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 64/64/68 ms
R3#
```

```
R3#ping ipv6 2026::1:2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::1:2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
R3#
```

```
R3#ping ipv6 2026::34:1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::34:1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
R3#
```

```
R3#ping ipv6 2026::34:2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::34:2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 76/77/80 ms
R3#
```

```
R3#ping ipv6 2026::2:1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::2:1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 76/76/80 ms
R3#
```

```
R3#ping ipv6 2026::2:2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::2:2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 76/77/80 ms
R3#
```

```
R3#ping ipv6 2026::3:1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::3:1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 76/79/80 ms
R3#
```

```
R3#ping ipv6 2026::3:2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2026::3:2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 80/81/84 ms
R3#
```

```
R3#show ipv6 route
IPv6 Routing Table - Default - 8 entries
Codes: C - Connected, L - Local, S - Static, U - Per-user Static route
       B - BGP, M - MIPv6, R - RIP, I1 - ISIS L1
       I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary, D - EIGRP
       EX - EIGRP external
       O - OSPF Intra, OI - OSPF Inter, OE1 - OSPF ext 1, OE2 - OSPF ext
2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
C   2026::1:0/122 [0/0]
     via Serial0/2/0.23, directly connected
L   2026::1:2/128 [0/0]
     via Serial0/2/0.23, receive
OE2 2026::2:0/122 [110/20]
     via FE80::A01:10A, Tunnel34
OE2 2026::3:0/122 [110/20]
     via FE80::A01:10A, Tunnel34
OI  2026::12:0/122 [110/128]
     via FE80::216:9DFF:FEFA:CAB0, Serial0/2/0.23
C   2026::34:0/122 [0/0]
     via Tunnel34, directly connected
L   2026::34:1/128 [0/0]
     via Tunnel34, receive
L   FF00::/8 [0/0]
     via Null0, receive
R3#
```

```
R3#show ipv6 ospf
 Routing Process "ospfv3 6" with ID 10.1.1.9
 It is an area border router
 SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
 Minimum LSA interval 5 secs. Minimum LSA arrival 1 secs
 LSA group pacing timer 240 secs
 Interface flood pacing timer 33 msecs
 Retransmission pacing timer 66 msecs
 Number of external LSA 2. Checksum Sum 0x011724
 Number of areas in this router is 2. 2 normal 0 stub 0 nssa
 Reference bandwidth unit is 100 mbps
    Area BACKBONE(0)
        Number of interfaces in this area is 1
        SPF algorithm executed 21 times
        Number of LSA 9. Checksum Sum 0x04C914
        Number of DCbitless LSA 0
        Number of indication LSA 0
        Number of DoNotAge LSA 0
        Flood list length 0
    Area 34
        Number of interfaces in this area is 1
        SPF algorithm executed 22 times
```

```
        Number of LSA 8. Checksum Sum 0x03820C
        Number of DCbitless LSA 0
        Number of indication LSA 0
        Number of DoNotAge LSA 0
        Flood list length 0

R3#
```

```
R3#show ipv6 ospf interface
Serial0/2/0.23 is up, line protocol is up
  Link Local Address FE80::216:47FF:FE9A:F6E8, Interface ID 19
  Area 0, Process ID 6, Instance ID 0, Router ID 10.1.1.9
  Network Type POINT_TO_POINT, Cost: 64
  Transmit Delay is 1 sec, State POINT_TO_POINT,
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    Hello due in 00:00:03
  Index 1/1/2, flood queue length 0
  Next 0x0(0)/0x0(0)/0x0(0)
  Last flood scan length is 2, maximum is 3
```

```
  Last flood scan time is 0 msec, maximum is 0 msec
  Neighbor Count is 1, Adjacent neighbor count is 1
    Adjacent with neighbor 2.2.2.2
  Suppress hello for 0 neighbor(s)
Tunnel34 is up, line protocol is up
  Link Local Address FE80::A01:109, Interface ID 18
  Area 34, Process ID 6, Instance ID 0, Router ID 10.1.1.9
  Network Type POINT_TO_POINT, Cost: 1000
  Transmit Delay is 1 sec, State POINT_TO_POINT,
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    Hello due in 00:00:02
  Index 1/1/1, flood queue length 0
  Next 0x0(0)/0x0(0)/0x0(0)
  Last flood scan length is 5, maximum is 5
  Last flood scan time is 0 msec, maximum is 0 msec
  Neighbor Count is 1, Adjacent neighbor count is 1
    Adjacent with neighbor 4.4.4.4
  Suppress hello for 0 neighbor(s)
R3#
```

```
R3#show ipv6 ospf neighbor

Neighbor ID     Pri   State           Dead Time   Interface ID
Interface
2.2.2.2           1   FULL/  -        00:00:35    20
Serial0/2/0.23
4.4.4.4           1   FULL/  -        00:00:31    13
Tunnel34
R3#
```