

```
*****
WARNING: AUTHORIZED PERSONEL ONLY
ACCESS BEYOND THIS POINT IS UNLAWFUL UNLESS
YOU HAVE BEEN PREVIOUSLY AUTHORIZED BY VERIZON
THIS UNIT IS MANAGED BY VERIZON
*****
```

User Access Verification

Waiting on TACACS+ server...
User Access Verification (Domain 8 ACS V5)

TACACS Username: \$c-joverstreet
Password:

```
*****
*                                     *
*                LEGAL NOTICE        *
*                                     *
* THIS COMPUTER SYSTEM INCLUDING ALL  *
* RELATED EQUIPMENT NETWORKS         *
* AND NETWORK DEVICES ARE PROVIDED   *
* FOR LEGITIMATE BUSINESS            *
* PURPOSES ONLY. UNAUTHORIZED ACCESS *
* USE, OR MODIFICATION OF           *
* THIS SYSTEM IS STRICTLY PROHIBITED *
* BY VERIZON., AND APPLICABLE       *
* FEDERAL STATUTES. USE OF THIS     *
* COMPUTER SYSTEM, CONSTITUTES      *
* EXPRESS CONSENT TO MONITORING AND  *
* RECORDING OF ANY ACTIONS          *
* TAKEN WHILE USING THIS SYSTEM.    *
* EVIDENCE COLLECTED DURING         *
* MONITORING MAY BE USED IN LEGAL   *
* PROCEEDINGS OR DISCIPLINARY       *
* ACTIONS. UNAUTHORIZED USE MAY BE  *
* PUNISHABLE BY TERMINATION OR     *
* CRIMINAL OR CIVIL LITIGATION.     *
*                                     *
*                LEGAL NOTICE        *
*                                     *
*****
```

```
vumc-tnnashro4x-7452973>show inter
vumc-tnnashro4x-7452973>show interfaces
Displaying interfaces...
```

```
t1 0/1 is UP
Description: - Vzb Circuit ID = N1019219
Receiver has no alarms
T1 coding is B8ZS, framing is ESF
Clock source is system, FDL type is ANSI
Line build-out is 0dB
No remote loopbacks, No network loopbacks
Acceptance of remote loopback requests enabled
Tx Alarm Enable: rai
Last clearing of counters 2w 5d 17:05:12
  loss of frame : 5, last occurred 6d 07:09:05
  loss of signal : 0
  AIS alarm : 5, last occurred 6d 07:09:06
  Remote alarm : 0
```

DS0 Status: 123456789012345678901234
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Status Legend: '-' = DS0 is not allocated
'X' = DS0 is allocated (nailed)

Signaling Bit Status: 123456789012345678901234
RxA: 000000000000000000000000
RxB: 000000000000000000000000

TxA: 000000000000000000000000
TxB: 000000000000000000000000
123456789012345678901234

Line Status: -- No Alarms --

5 minute input rate 593136 bits/sec, 99 packets/sec
5 minute output rate 393152 bits/sec, 97 packets/sec
Current Performance Statistics:

0 Errored Seconds, 0 Bursty Errored Seconds
0 Severely Errored Seconds, 0 Severely Errored Frame Seconds
0 Unavailable Seconds, 0 Path Code Violations
0 Line Code Violations, 0 Controlled Slip Seconds
0 Line Errored Seconds, 0 Degraded Minutes

TDM group 1, line protocol is UP
Encapsulation PPP (ppp 1)
288418345 packets input, 664673431 bytes, 0 no buffer
0 runts, 0 giants, 0 throttles
9935 input errors, 4126 CRC, 3381 frame
2428 abort, 0 discards, 0 overruns
254500894 packets output, 171481311 bytes, 0 underruns

t1 0/2 is UP

Description: - Vzb Circuit ID = N1019220
Receiver has no alarms
T1 coding is B8ZS, framing is ESF
Clock source is system, FDL type is ANSI
Line build-out is 0dB
No remote loopbacks, No network loopbacks
Acceptance of remote loopback requests enabled
Tx Alarm Enable: rai
Last clearing of counters 5d 22:00:41
loss of frame : 6, last occurred 6d 07:09:05
loss of signal : 0
AIS alarm : 6, last occurred 6d 07:09:06
Remote alarm : 6, last occurred 6d 06:34:47

DS0 Status: 123456789012345678901234
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Status Legend: '-' = DS0 is not allocated
'X' = DS0 is allocated (nailed)

Signaling Bit Status: 123456789012345678901234

RxA: 000000000000000000000000

RxB: 000000000000000000000000

TxA: 000000000000000000000000

TxB: 000000000000000000000000

123456789012345678901234

Line Status: -- No Alarms --

5 minute input rate 494416 bits/sec, 100 packets/sec

5 minute output rate 392328 bits/sec, 96 packets/sec

Current Performance Statistics:

0 Errored Seconds, 0 Bursty Errored Seconds

0 Severely Errored Seconds, 0 Severely Errored Frame Seconds

0 Unavailable Seconds, 0 Path Code Violations

0 Line Code Violations, 0 Controlled Slip Seconds

0 Line Errored Seconds, 0 Degraded Minutes

TDM group 1, line protocol is UP

Encapsulation PPP (ppp 1)

260533974 packets input, 3390368456 bytes, 0 no buffer

0 runts, 0 giants, 0 throttles

6278 input errors, 2377 CRC, 2086 frame

1815 abort, 0 discards, 0 overruns

231155855 packets output, 1847905633 bytes, 0 underruns

t1 0/3 is UP

Description: - Vzb Circuit ID = N1019221

Receiver has no alarms

T1 coding is B8ZS, framing is ESF

Clock source is system, FDL type is ANSI

Line build-out is 0dB

No remote loopbacks, No network loopbacks

Acceptance of remote loopback requests enabled

Tx Alarm Enable: rai

Last clearing of counters 2w 5d 17:05:12

loss of frame : 4, last occurred 6d 07:09:05

loss of signal : 1, last occurred 6w 1d 14:13:13

AIS alarm : 4, last occurred 6d 07:09:06

Remote alarm : 0

DS0 Status: 123456789012345678901234

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Status Legend: '-' = DS0 is not allocated

'X' = DS0 is allocated (nailed)

Signaling Bit Status: 123456789012345678901234

RxA: 000000000000000000000000

RxB: 000000000000000000000000

TxA: 000000000000000000000000

TxB: 000000000000000000000000

123456789012345678901234

Line Status: -- No Alarms --

5 minute input rate 628616 bits/sec, 98 packets/sec
5 minute output rate 391984 bits/sec, 97 packets/sec

Current Performance Statistics:
0 Errored Seconds, 0 Bursty Errored Seconds
0 Severely Errored Seconds, 0 Severely Errored Frame Seconds
0 Unavailable Seconds, 0 Path Code Violations
0 Line Code Violations, 0 Controlled Slip Seconds
0 Line Errored Seconds, 0 Degraded Minutes

TDM group 1, line protocol is UP
Encapsulation PPP (ppp 1)
280332682 packets input, 2442763358 bytes, 0 no buffer
0 runts, 0 giants, 0 throttles
281868 input errors, 121649 CRC, 95074 frame
65145 abort, 0 discards, 0 overruns
254419548 packets output, 107392664 bytes, 0 underruns

t1 0/4 is UP

Description: - Vzb Circuit ID = N1019222
Receiver has no alarms
T1 coding is B8ZS, framing is ESF
Clock source is system, FDL type is ANSI
Line build-out is 0dB
No remote loopbacks, No network loopbacks
Acceptance of remote loopback requests enabled
Tx Alarm Enable: rai
Last clearing of counters 2w 5d 17:05:12
loss of frame : 4, last occurred 6d 07:09:05
loss of signal : 1, last occurred 6w 5d 23:05:08
AIS alarm : 5, last occurred 6d 07:09:06
Remote alarm : 0

DS0 Status: 123456789012345678901234
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Status Legend: '-' = DS0 is not allocated
'X' = DS0 is allocated (nailed)

Signaling Bit Status: 123456789012345678901234
RxA: 000000000000000000000000
RxB: 000000000000000000000000

TxA: 000000000000000000000000
TxB: 000000000000000000000000
123456789012345678901234

Line Status: -- No Alarms --

5 minute input rate 684816 bits/sec, 106 packets/sec
5 minute output rate 392264 bits/sec, 96 packets/sec
Current Performance Statistics:

0 Errored Seconds, 0 Bursty Errored Seconds
0 Severely Errored Seconds, 0 Severely Errored Frame Seconds
0 Unavailable Seconds, 0 Path Code Violations
0 Line Code Violations, 0 Controlled Slip Seconds
0 Line Errored Seconds, 0 Degraded Minutes

TDM group 1, line protocol is UP
Encapsulation PPP (ppp 1)
276623998 packets input, 3970205020 bytes, 0 no buffer
0 runts, 0 giants, 0 throttles
124118 input errors, 42368 CRC, 37699 frame
44051 abort, 0 discards, 0 overruns
249450491 packets output, 2928319641 bytes, 0 underruns

ppp 1 is UP

Configuration:

Description: Verizon Business MPLS Circuit nashville-tn_c1020629-66933649-5596462

Keep-alive is set (10 sec.)

Multilink

MTU = 1500, MRRU = 1520

Peer authenticates with CHAP

IP is configured

152.161.42.174 255.255.255.252

Last clearing of "show interface" counters: 2w 5d 17:05:12

Link thru t1 0/1 is UP; LCP state is OPENED, negotiated MTU is 1500

near-end MRU is 1500, far-end MRU is 1500

near-end MRRU is 1500, far-end MRRU is 1500

Actual Bandwidth is 1536 kbps

Receive: bytes=664673651, pkts=288418349, errors=188

Transmit: bytes=196184196, pkts=256558800, errors=0

5 minute input rate 593128 bits/sec, 99 packets/sec

5 minute output rate 393152 bits/sec, 97 packets/sec

Link thru t1 0/2 is UP; LCP state is OPENED, negotiated MTU is 1500

near-end MRU is 1500, far-end MRU is 1500

near-end MRRU is 1500, far-end MRRU is 1500

Actual Bandwidth is 1536 kbps

Receive: bytes=1580805080, pkts=287109835, errors=50

Transmit: bytes=154935609, pkts=256532170, errors=0

5 minute input rate 494408 bits/sec, 100 packets/sec

5 minute output rate 392328 bits/sec, 96 packets/sec

Link thru t1 0/3 is UP; LCP state is OPENED, negotiated MTU is 1500

near-end MRU is 1500, far-end MRU is 1500

near-end MRRU is 1500, far-end MRRU is 1500

Actual Bandwidth is 1536 kbps

Receive: bytes=2442763408, pkts=280332683, errors=5106

Transmit: bytes=132089908, pkts=256477367, errors=0

5 minute input rate 628616 bits/sec, 98 packets/sec

5 minute output rate 391976 bits/sec, 97 packets/sec

Link thru t1 0/4 is UP; LCP state is OPENED, negotiated MTU is 1500

near-end MRU is 1500, far-end MRU is 1500

near-end MRRU is 1500, far-end MRRU is 1500

Actual Bandwidth is 1536 kbps

Receive: bytes=3970205020, pkts=276623998, errors=135
Transmit: bytes=2952107503, pkts=251432649, errors=0
5 minute input rate 684808 bits/sec, 106 packets/sec
5 minute output rate 392264 bits/sec, 96 packets/sec

Bundle information

Aggregate Bandwidth is 6144 kbps
Total receive: bytes=68512567, pkts=1132484865, errors=5479
Total transmit: bytes=3435317216, pkts=1021000986, errors=0
5 minute input rate 2400960 bits/sec, 403 packets/sec
5 minute output rate 1569720 bits/sec, 386 packets/sec

Queueing method

Configured Queueing Method: weighted fair
Effective Queueing Method: fifo

HDLC tx ring limit: 2

Output queue: 25/200/200/25216 (size/highest/max total/drops)

IP is UP, IPCP state is OPENED

Address=152.161.42.174 Mask=255.255.255.252

Peer address=152.161.42.173

IPv4 MTU=1500, Bandwidth=6144 Kbps

LLDPCP State is STOPPED

eth 0/1 is UP, line protocol is UP

Hardware address is 00:A0:C8:DF:AE:B4

Ip address is 172.20.159.254, netmask is 255.255.255.128

Secondary IP:

10.254.110.53, 255.255.255.252

IP MTU is 1500 bytes

BW is 100000 Kbit

100Mb/s, full-duplex

ARP type: ARPA; ARP timeout is 20 minutes

Last clearing of "show interface" counters: 2w 5d 17:05:12

5 minute input rate 1577888 bits/sec, 385 packets/sec

5 minute output rate 2439792 bits/sec, 405 packets/sec

Queueing method: fifo

Output queue: 0/256/0 (size/max total/drops)

Interface Shaper: NOT ENABLED

998755009 packets input, 3643611840 bytes

992517355 unicasts, 3525444 broadcasts, 2712210 multicasts input

126931 unknown protocol, 0 symbol errors, 0 discards

0 input errors, 0 runts, 0 giants

0 no buffer, 0 overruns, 0 internal receive errors

0 alignment errors, 0 crc errors

1123763967 packets output, 420375216 bytes

1121533656 unicasts, 785849 broadcasts, 1444462 multicasts output

0 output errors, 0 deferred, 0 discards

0 single, 0 multiple, 0 late collisions

0 excessive collisions, 0 underruns

0 internal transmit errors, 0 carrier sense errors

0 resets, 0 throttles

eth 0/2 is admin down, line protocol is DOWN

Hardware address is 00:A0:C8:DF:AE:B5

BW is 0 Kbit

```
Auto-negotiate speed, full-duplex
ARP type: ARPA; ARP timeout is 20 minutes
Last clearing of "show interface" counters: 2w 5d 17:05:12
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
Queueing method: fifo
Output queue: 0/256/0 (size/max total/drops)
Interface Shaper: NOT ENABLED
0 packets input, 0 bytes
0 unicasts, 0 broadcasts, 0 multicasts input
0 unknown protocol, 0 symbol errors, 0 discards
0 input errors, 0 runts, 0 giants
0 no buffer, 0 overruns, 0 internal receive errors
0 alignment errors, 0 crc errors
0 packets output, 0 bytes
0 unicasts, 0 broadcasts, 0 multicasts output
0 output errors, 0 deferred, 0 discards
0 single, 0 multiple, 0 late collisions
0 excessive collisions, 0 underruns
0 internal transmit errors, 0 carrier sense errors
0 resets, 0 throttles
```

giga-eth 0/1 is admin down, line protocol is DOWN

Hardware address is 00:A0:C8:DF:AE:B3

BW is 0 Kbit

RJ-45

Auto-negotiate speed, full-duplex

ARP type: ARPA; ARP timeout is 20 minutes

Last clearing of "show interface" counters: 2w 5d 17:05:12

5 minute input rate 0 bits/sec, 0 packets/sec

5 minute output rate 0 bits/sec, 0 packets/sec

Queueing method: fifo

Output queue: 0/256/0 (size/max total/drops)

Interface Shaper: NOT ENABLED

0 packets input, 0 bytes

0 unicasts, 0 broadcasts, 0 multicasts input

0 unknown protocol, 0 symbol errors, 0 discards

0 input errors, 0 runts, 0 giants

0 no buffer, 0 overruns, 0 internal receive errors

0 alignment errors, 0 crc errors

0 packets output, 0 bytes

0 unicasts, 0 broadcasts, 0 multicasts output

0 output errors, 0 deferred, 0 discards

0 single, 0 multiple, 0 late collisions

0 excessive collisions, 0 underruns

0 internal transmit errors, 0 carrier sense errors

0 resets, 0 throttles

fxs 0/1 is UP

Two-wire Status is: Onhook

Busyout Status is: Not Configured

Test Status is INACTIVE

No Tests

Impedance is: 600 ohms +2.16uF
Transmit Gain is: -6.0dB
Receive Gain is: -3.0dB
Ring frequency is: 20 Hz
Ring voltage is: 50 Vrms
Ring voltage DC Offset is: -20 V
Signal Mode: Loop-Start
Last clearing of "show interface" counters: 2w 5d 17:05:12
Caller ID Format is: Multiple Data Message Format
Caller ID Time is: Oct 08 04:00 PM
Caller ID TimeZone is: -5
On Hook Transmission Mode is: Always On

fxs 0/2 is UP

Two-wire Status is: Onhook
Busyout Status is: Not Configured
Test Status is INACTIVE
No Tests
Impedance is: 600 ohms +2.16uF
Transmit Gain is: -6.0dB
Receive Gain is: -3.0dB
Ring frequency is: 20 Hz
Ring voltage is: 50 Vrms
Ring voltage DC Offset is: -20 V
Signal Mode: Loop-Start
Last clearing of "show interface" counters: 2w 5d 17:05:12
Caller ID Format is: Multiple Data Message Format
Caller ID Time is: Oct 08 04:00 PM
Caller ID TimeZone is: -5
On Hook Transmission Mode is: Always On

fxs 0/3 is UP

Two-wire Status is: Onhook
Busyout Status is: Not Configured
Test Status is INACTIVE
No Tests
Impedance is: 600 ohms +2.16uF
Transmit Gain is: -6.0dB
Receive Gain is: -3.0dB
Ring frequency is: 20 Hz
Ring voltage is: 50 Vrms
Ring voltage DC Offset is: -20 V
Signal Mode: Loop-Start
Last clearing of "show interface" counters: 2w 5d 17:05:12
Caller ID Format is: Multiple Data Message Format
Caller ID Time is: Oct 08 04:00 PM
Caller ID TimeZone is: -5
On Hook Transmission Mode is: Always On

fxs 0/4 is UP

Two-wire Status is: Onhook
Busyout Status is: Not Configured
Test Status is INACTIVE

No Tests

Impedance is: 600 ohms +2.16uF
Transmit Gain is: -6.0dB
Receive Gain is: -3.0dB
Ring frequency is: 20 Hz
Ring voltage is: 50 Vrms
Ring voltage DC Offset is: -20 V
Signal Mode: Loop-Start
Last clearing of "show interface" counters: 2w 5d 17:05:12
Caller ID Format is: Multiple Data Message Format
Caller ID Time is: Oct 08 04:00 PM
Caller ID TimeZone is: -5
On Hook Transmission Mode is: Always On

fxs 0/5 is UP

Two-wire Status is: Onhook
Busyout Status is: Not Configured
Test Status is INACTIVE

No Tests

Impedance is: 600 ohms +2.16uF
Transmit Gain is: -6.0dB
Receive Gain is: -3.0dB
Ring frequency is: 20 Hz
Ring voltage is: 50 Vrms
Ring voltage DC Offset is: -20 V
Signal Mode: Loop-Start
Last clearing of "show interface" counters: 2w 5d 17:05:12
Caller ID Format is: Multiple Data Message Format
Caller ID Time is: Oct 08 04:00 PM
Caller ID TimeZone is: -5
On Hook Transmission Mode is: Always On

fxs 0/6 is UP

Two-wire Status is: Onhook
Busyout Status is: Not Configured
Test Status is INACTIVE

No Tests

Impedance is: 600 ohms +2.16uF
Transmit Gain is: -6.0dB
Receive Gain is: -3.0dB
Ring frequency is: 20 Hz
Ring voltage is: 50 Vrms
Ring voltage DC Offset is: -20 V
Signal Mode: Loop-Start
Last clearing of "show interface" counters: 2w 5d 17:05:12
Caller ID Format is: Multiple Data Message Format
Caller ID Time is: Oct 08 04:00 PM
Caller ID TimeZone is: -5
On Hook Transmission Mode is: Always On

fxs 0/7 is UP

Two-wire Status is: Onhook
Busyout Status is: Not Configured

Test Status is INACTIVE
No Tests
Impedance is: 600 ohms +2.16uF
Transmit Gain is: -6.0dB
Receive Gain is: -3.0dB
Ring frequency is: 20 Hz
Ring voltage is: 50 Vrms
Ring voltage DC Offset is: -20 V
Signal Mode: Loop-Start
Last clearing of "show interface" counters: 2w 5d 17:05:12
Caller ID Format is: Multiple Data Message Format
Caller ID Time is: Oct 08 04:00 PM
Caller ID TimeZone is: -5
On Hook Transmission Mode is: Always On

fxs 0/8 is UP
Two-wire Status is: Onhook
Busyout Status is: Not Configured
Test Status is INACTIVE
No Tests
Impedance is: 600 ohms +2.16uF
Transmit Gain is: -6.0dB
Receive Gain is: -3.0dB
Ring frequency is: 20 Hz
Ring voltage is: 50 Vrms
Ring voltage DC Offset is: -20 V
Signal Mode: Loop-Start
Last clearing of "show interface" counters: 2w 5d 17:05:12
Caller ID Format is: Multiple Data Message Format
Caller ID Time is: Oct 08 04:00 PM
Caller ID TimeZone is: -5
On Hook Transmission Mode is: Always On

vumc-tnnashro4x-7452973>