

Monitoring the T1 or E1 Interface Module

This chapter provides information on monitoring the T1 or E1 interface module. Some of monitoring tools available are:

- Perfomance Monitoring
- Performance Monitoring, on page 1

Performance Monitoring

Table 1: Feature History Table

Feature Name	Release Information	Description
GR-820-CORE Performance Monitoring	Cisco IOS XE Bengaluru 17.5.1	The show controller tabular command enables you to view the performance monitoring details in tabular form as per GR-820-Core standards.

The performance monitoring result displays the statistics or error count generated on the TDM lines for DS1.

To view the performance monitoring details, use the show controller command:

```
Router# show controllers t1 0/1/1
```

```
T1 0/1/1 is down.
 Applique type is -48T1E1-CE
 Cablelength is short 110
 No alarms detected.
 alarm-trigger is not set
 Soaking time: 3, Clearance time: 10
 AIS State:Clear LOS State:Clear LOF State:Clear
  Framing is ESF, FDL is ansi, Line Code is B8ZS, Clock Source is Line.
  BER thresholds: SF = 10e-3 SD = 10e-6
  Data in current interval (230 seconds elapsed):
  Near End
     O Line Code Violations, O Path Code Violations
    O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavailable Secs
    0 Path Failures, 0 SEF/AIS Secs
  Far End
    O Line Code Violations, O Path Code Violations
    O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavailable Secs
```

```
0 Path Failures
Data in Interval 1:
Near End
  O Line Code Violations, O Path Code Violations
   O Slip Secs, O Fr Loss Secs, 14 Line Err Secs, O Degraded Mins
   0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 15 Unavailable Secs
  1 Path Failures, 0 SEF/AIS Secs
Far End Data
   O Line Code Violations, O Path Code Violations
   O Slip Secs, 4 Fr Loss Secs, 2 Line Err Secs, 0 Degraded Mins
   4 Errored Secs, 0 Bursty Err Secs, 4 Severely Err Secs, 0 Unavailable Secs
   0 Path Failures
Total Data (last 1 15 minute intervals):
Near End
  O Line Code Violations, O Path Code Violations,
   O Slip Secs, O Fr Loss Secs, 14 Line Err Secs, O Degraded Mins,
   0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 15 Unavailable Secs
  1 Path Failures, 0 SEF/AIS Secs
Far End
   O Line Code Violations, O Path Code Violations,
   O Slip Secs, 4 Fr Loss Secs, 2 Line Err Secs, 0 Degraded Mins,
   4 Errored Secs, 0 Bursty Err Secs, 4 Severely Err Secs, 0 Unavailable Secs
   0 Path Failures
```

Router# show controllers e1 0/1/1

```
E1 0/1/1 is down.
  Applique type is -48T1E1-CE
  Cablelength is short 110
  No alarms detected.
  alarm-trigger is not set
  Soaking time: 3, Clearance time: 10
  AIS State:Clear LOS State:Clear LOF State:Clear
  Framing is ESF, FDL is ansi, Line Code is B8ZS, Clock Source is Line.
  BER thresholds: SF = 10e-3 SD = 10e-6
  Data in current interval (230 seconds elapsed):
  Near End
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavailable Secs
     0 Path Failures, 0 SEF/AIS Secs
   Far End
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavailable Secs
     0 Path Failures
  Data in Interval 1:
   Near End
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, 14 Line Err Secs, O Degraded Mins
     O Errored Secs, O Bursty Err Secs, O Severely Err Secs, 15 Unavailable Secs
     1 Path Failures, 0 SEF/AIS Secs
   Far End Data
     O Line Code Violations, O Path Code Violations
     O Slip Secs, 4 Fr Loss Secs, 2 Line Err Secs, 0 Degraded Mins
     4 Errored Secs, 0 Bursty Err Secs, 4 Severely Err Secs, 0 Unavailable Secs
     0 Path Failures
  Total Data (last 1 15 minute intervals):
   Near End
     O Line Code Violations, O Path Code Violations,
     O Slip Secs, O Fr Loss Secs, 14 Line Err Secs, O Degraded Mins,
    0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 15 Unavailable Secs
     1 Path Failures, 0 SEF/AIS Secs
   Far End
     0 Line Code Violations, 0 Path Code Violations,
```

0 Slip Secs, 4 Fr Loss Secs, 2 Line Err Secs, 0 Degraded Mins, 4 Errored Secs, 0 Bursty Err Secs, 4 Severely Err Secs, 0 Unavailable Secs 0 Path Failures

To view the performance monitoring details on T1 controller, use the **show controller t1 tabular** command:

```
Router#show controllers t1 0/1/0 tabular
```

```
T1 0/1/0 is up
 Applique type is -48T1E1-CE
 Cablelength is short 110
 No alarms detected.
  alarm-trigger is not set
 Soaking time: 3, Clearance time: 10
  Framing is ESF, Line Code is B8ZS, Clock Source is Line.
  BER thresholds: SF = 10e-3 SD = 10e-6
  Near End Data
                  ES-L CV-P ES-P SES-P CSS-P SAS-P UAS-P
  INTERVAL
             CV-L
                                                                FC-P
  09:49-10:01
              0
                    0
                         0
                                0
                                         0
                                                0
                                                     0
                                                         0
                                                                  0
 Far End Data
  INTERVAL ES-LFE ES-PFE SES-PFE SEFS-PFE CSS-PFE UAS-PFE FC-PFE
 09:49-10:01
                 0
                        0
                                 0
                                          0
                                                   0
                                                           0
                                                                  0
```

Starting with Cisco IOS XE 17.11.1, you can view the previous day performance monitoring details using the following **show controller** commands for the T1 or E1 controllers.

- show controllers { t1 | e1 }
- show controllers { t1 | e1} tabular
- show controllers { t1 | e1} remote performance
- show controllers { t1 | e1} remote performance tabular

```
router#show controllers t1 0/5/0
T1 0/5/0 is down
 Applique type is
 Cablelength is short 110
 Receiver has loss of signal.
  alarm-trigger is not set
  Soaking time: 3, Clearance time: 10
  Framing is ESF, Line Code is B8ZS, Clock Source is Line.
  BER thresholds: SF = 10e-3 SD = 10e-6
  Data in current interval (800 seconds elapsed):
  Near End
    O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, 799 Line Err Secs, O Degraded Mins
     0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 799 Unavail Secs
    0 Path Failures, 0 SEF/AIS Secs
   Far End
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs
     0 Path Failures
  Data in Interval 1:
  . . . . . . . . . .
  Total Data (last 24 hours)
  Near End
     O Line Code Violations, O Path Code Violations,
    O Slip Secs, O Fr Loss Secs, 86423 Line Err Secs, O Degraded Mins,
    0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 86423 Unavail Secs
     0 Path Failures, 0 SEF/AIS Secs
```

Far End O Line Code Violations, O Path Code Violations, O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins, 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavailable Secs 0 Path Failures Total (Previous Day) Near End 0 Line Code Violations, 0 Path Code Violations, O Slip Secs, O Fr Loss Secs, 86438 Line Err Secs, O Degraded Mins, O Errored Secs, O Bursty Err Secs, O Severely Err Secs, 86438 Unavail Secs 2 Path Failures, 0 SEF/AIS Secs Far End O Line Code Violations, O Path Code Violations, O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins, 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavailable Secs 0 Path Failures

router#show controllers t1 0/5/0 tabular

T1 0/5/0 is down Applique type is Cablelength is short 110 Receiver has loss of signal. alarm-trigger is not set Soaking time: 3, Clearance time: 10 Framing is ESF, Line Code is B8ZS, Clock Source is Line. BER thresholds: SF = 10e-3 SD = 10e-6 Near End Data CV-P ES-P SES-P CSS-P SAS-P UAS-P INTERVAL CV-L ES-L FC-P 05:56-05:58 0 119 0 0 0 0 0 119 Ω 0 900 05:41-05:56 0 0 0 900 0 0 0 06:11-06:26 0 900 05:56-06:11 0 901 0 0 900 0 0 0 0 0 0 0 0 0 901 0 0 86423 0 0 0 0 0 86423 0 Total Total (Previous Day) 05:26-05:26 0 86438 0 0 0 0 0 86438 2

```
Router#show controllers T1 0/3/0 remote performance
T1 0/3/0 is down.
 Applique type is
  Receiver has loss of signal.
  Cablelength is short 110
  Framing is ESF, FDL is ansi & att, Line Code is B8ZS, Clock Source is Line.
  Far End Data in current interval (590 seconds elapsed):
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs
  Far End Data in Interval 1:
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs
  Far End Data in Interval 2:
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs
  Far End Data in Interval 3:
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
     0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs
  Far End Data in Interval 4:
     O Line Code Violations, O Path Code Violations
     O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins
```

0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 5: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 6: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 7: O Line Code Violations, O Path Code Violations 0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 8: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 9: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 10: 0 Line Code Violations, 0 Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 11: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 12: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 13: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 14: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 15: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 16: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 17: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 18: 0 Line Code Violations, 0 Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 19: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 20: O Line Code Violations, O Path Code Violations

0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 21: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 22: O Line Code Violations, O Path Code Violations 0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 23: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 24: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 25: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 26: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 27: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 28: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 29: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 30: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 31: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 32: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 33: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 34: 0 Line Code Violations, 0 Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 35: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 36: O Line Code Violations, O Path Code Violations

0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 37: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 38: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 39: O Line Code Violations, O Path Code Violations 0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 40: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 41: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 42: 0 Line Code Violations, 0 Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 43: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 44: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 45: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 46: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 47: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 48: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 49: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 50: 0 Line Code Violations, 0 Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 51: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 52: O Line Code Violations, O Path Code Violations

0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 53: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 54: O Line Code Violations, O Path Code Violations 0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 55: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 56: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 57: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 58: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 59: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 60: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 61: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 62: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 63: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 64: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 65: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 66: 0 Line Code Violations, 0 Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 67: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 68: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins

0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 69: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 70: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 71: O Line Code Violations, O Path Code Violations 0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 72: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 73: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 74: 0 Line Code Violations, 0 Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 75: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 76: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 77: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 78: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 79: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 80: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 81: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 82: 0 Line Code Violations, 0 Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 83: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 84: O Line Code Violations, O Path Code Violations

0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 85: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 86: O Line Code Violations, O Path Code Violations 0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 87: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 88: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 89: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Far End Data in Interval 90: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 91: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 92: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 93: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 94: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 95: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Far End Data in Interval 96: O Line Code Violations, O Path Code Violations O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins O Errored Secs, O Bursty Err Secs, O Severely Err Secs, O Unavail Secs Total Far End Data (last 24 hours) O Line Code Violations, O Path Code Violations, O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins, 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Total (Previous Day) 0 Line Code Violations, 0 Path Code Violations, O Slip Secs, O Fr Loss Secs, O Line Err Secs, O Degraded Mins, 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs Router#show controllers T1 0/3/0 remote performance tabular T1 0/3/0 is down. Applique type is Receiver has loss of signal. Cablelength is short 110 Framing is ESF, FDL is ansi & att, Line Code is B8ZS, Clock Source is Line.

Far End Data							
INTERVAL	ES-LFE	ES-PFE	SES-PFE	SEFS-PFE	CSS-PFE	UAS-PFE	FC-PFE
04:33-04:44	0	0	0	0	0	0	0
04:18-04:33	0	0	0	0	0	0	0
04:03-04:18	0	0	0	0	0	0	0
03:48-04:03	0	0	0	0	0	0	0
03:33-03:48	0	0	0	0	0	0	0
03:18-03:33	0	0	0	0	0	0	0
03:03-03:18	0	0	0	0	0	0	0
02:48-03:03	0	0	0	0	0	0	0
02:33-02:48 02:18-02:33	0	0	0	0	0 0	0	0 0
02:03-02:18	0	0	0	0	0	0	0
01:48-02:03	0	0	0	0	0	0	0
01:33-01:48	Õ	0	0	0	0	0	0
01:18-01:33	0	0	0	0	0	0	0
01:03-01:18	0	0	0	0	0	0	0
00:48-01:03	0	0	0	0	0	0	0
00:33-00:48	0	0	0	0	0	0	0
00:18-00:33	0	0	0	0	0	0	0
00:03-00:18	0	0	0	0	0	0	0
23:48-00:03	0	0	0	0	0	0	0
23:33-23:48	0	0	0	0	0	0	0
23:18-23:33	0	0	0	0	0	0	0
23:03-23:18 22:48-23:03	0	0	0	0	0	0 0	0 0
22:33-22:48	0	0	0	0	0	0	0
22:18-22:33	0	0	0	0	0	0	0
22:03-22:18	0	0	0	0	0	0	0
21:48-22:03	0	0	0	0	0	0	0
21:33-21:48	0	0	0	0	0	0	0
21:18-21:33	0	0	0	0	0	0	0
21:03-21:18	0	0	0	0	0	0	0
20:48-21:03	0	0	0	0	0	0	0
20:33-20:48	0	0	0	0	0	0	0
20:18-20:33	0	0	0	0	0	0	0
20:03-20:18 19:48-20:03	0	0	0 0	0 0	0 0	0 0	0 0
19:33-19:48	0	0	0	0	0	0	0
19:18-19:33	0	0	0	0	0	0	0
19:03-19:18	0	0	0	0	0	0	0
18:48-19:03	0	0	0	0	0	0	0
18:33-18:48	0	0	0	0	0	0	0
18:18-18:33	0	0	0	0	0	0	0
18:03-18:18	0	0	0	0	0	0	0
17:48-18:03	0	0	0	0	0	0	0
17:33-17:48	0	0	0	0	0	0	0
17:18-17:33	0	0	0	0	0	0	0
17:03-17:18	0	0	0	0	0	0	0
16:48-17:03 16:33-16:48	0	0 0	0 0	0 0	0 0	0 0	0 0
16:18-16:33	0	0	0	0	0	0	0
16:03-16:18	0	0	0	0	0	0	0
15:48-16:03	0	0	0	0	0	0	0
15:33-15:48	0	0	0	0	0	0	0
15:18-15:33	0	0	0	0	0	0	0
15:03-15:18	0	0	0	0	0	0	0
14:48-15:03	0	0	0	0	0	0	0
14:33-14:48	0	0	0	0	0	0	0
14:18-14:33	0	0	0	0	0	0	0
14:03-14:18	0	0	0	0	0	0	0
13:48-14:03	0	0	0	0	0	0	0
13:33-13:48	0	0	0	0	0	0	0
13:18-13:33	U	U	0	0	0	0	0

13:03-13:18	0	0	0	0	0	0	0
12:48-13:03	0	0	0	0	0	0	0
12:33-12:48	0	0	0	0	0	0	0
12:18-12:33	0	0	0	0	0	0	0
12:03-12:18	0	0	0	0	0	0	0
11:48-12:03	0	0	0	0	0	0	0
11:33-11:48	0	0	0	0	0	0	0
11:18-11:33	0	0	0	0	0	0	0
11:03-11:18	0	0	0	0	0	0	0
10:48-11:03	0	0	0	0	0	0	0
10:33-10:48	0	0	0	0	0	0	0
10:18-10:33	0	0	0	0	0	0	0
10:03-10:18	0	0	0	0	0	0	0
09:48-10:03	0	0	0	0	0	0	0
09:33-09:48	0	0	0	0	0	0	0
09:18-09:33	0	0	0	0	0	0	0
09:03-09:18	0	0	0	0	0	0	0
08:48-09:03	0	0	0	0	0	0	0
08:33-08:48	0	0	0	0	0	0	0
08:18-08:33	0	0	0	0	0	0	0
08:03-08:18	0	0	0	0	0	0	0
07:48-08:03	0	0	0	0	0	0	0
07:33-07:48	0	0	0	0	0	0	0
07:18-07:33	0	0	0	0	0	0	0
07:03-07:18	0	0	0	0	0	0	0
06:48-07:03	0	0	0	0	0	0	0
06:33-06:48	0	0	0	0	0	0	0
06:18-06:33	0	0	0	0	0	0	0
06:03-06:18	0	0	0	0	0	0	0
05:48-06:03	0	0	0	0	0	0	0
05:33-05:48	0	0	0	0	0	0	0
05:18-05:33	0	0	0	0	0	0	0
05:03-05:18	0	0	0	0	0	0	0
04:48-05:03	0	0	0	0	0	0	0
04:33-04:48	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0
Total (Previous							
17:48-17:48	0	0	0	0	0	0	0