

vDicos, Diameter Link Congestion

OPERATING INSTRUCTIONS

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1 Alarm Description

The alarm is raised when the number of messages that are discarded because of congestion at the Diameter transport layer exceeds a configured threshold value in a given time interval.

Table 1 vDicos, Diameter Link Congestion Alarm Causes

Alarm Cause	Description	Fault Reason	Fault Location	Impact
Too high traffic at Diameter transport layer	The number of messages that get discarded because of congestion exceeds a configured threshold value in a given time interval	Congestion at Diameter transport layer	Transport layer – SCTP or TCP	Message loss

2 Procedure

2.1 Handle Alarm vDicos, Diameter Link Congestion

Prerequisites

- This instruction references the following document:
 - *Data Collection Guideline*
- No tools are required.
- The following conditions must apply:
 - The alarm is raised.
 - An Ericsson Command-Line Interface session in exec mode is in progress.

Steps

1. Navigate to the *PmJob* Managed Object (MO) indicated by alarm source attribute, for example:



```
>ManagedElement=NODE06ST, SystemFunctions=1, Pm=1, PmJob=D  
ia_Cong_Thr_Job
```

2. Check the value of attribute `granularityPeriod`:

```
(PmJob=Dia_Cong_Thr_Job) >show granularityPeriod
```

The following is an example output:

```
granularityPeriod=FIVE_MIN
```

3. Wait up to the time of the Granularity Period for the alarm to be cleared automatically.

4. Is the alarm cleared?

Yes: Proceed with Step 13.

No: Continue with the next step.

5. Navigate to the *PmThresholdMonitoring* MO, for example:

```
(PmJob=Dia_Cong_Thr_Job) >MeasurementReader=1, PmThresh  
oldMonitoring=1
```

6. Check the values of attributes `thresholdHigh` and `thresholdLow`:

```
(PmThresholdMonitoring=1) >show
```

The following is an example output:

```
PmThresholdMonitoring=1  
  pmThresholdMonitoringId="1"  
  thresholdHigh=1  
  thresholdLow=0  
  thresholdSeverity=MINOR
```

7. Contact the network administrator to establish root cause of the fault, for example network dimensioning, alarm threshold values, or network configuration fault. Are the attributes `thresholdHigh` and `thresholdLow` set to correct values?

Yes: Proceed with Step 9.

No: Continue with the next step.

8. Set appropriate values for attributes `thresholdHigh` and `thresholdLow`, for example:

```
(PmThresholdMonitoring=1) >config
```

```
(config-PmThresholdMonitoring=1) >thresholdHigh=2
```



```
(config-PmThresholdMonitoring=1) >commit
```

```
(config-PmThresholdMonitoring=1) >up
```

9. Wait for the alarm to be cleared automatically after elapsing of two Granularity Periods.
10. Is the alarm cleared?

Yes: Proceed with Step 13.

No: Continue with the next step.
11. Perform data collection, refer to *Data Collection Guideline*.
12. Contact the network administrator for further analysis.
13. Job is completed.