

DISK OPERATION ERROR in AIX

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Last month, we noted errpt showing an error:

| | | | | |
|----|---------------------------|------------|-------------|----------------------|
| 1 | [root@aix:/] errpt -a | | | |
| 2 | IDENTIFIER TIMESTAMP T C | | | |
| 3 | RESOURCE_NAME DESCRIPTION | | | |
| 4 | DCB47997 | 1122091816 | T H hdisk29 | DISK OPERATION ERROR |
| 5 | F31FFAC3 | 1122091816 | I H hdisk29 | PATH HAS RECOVERED |
| 6 | DE3B8540 | 1122091816 | P H hdisk29 | PATH HAS FAILED |
| 7 | DCB47997 | 1122075216 | T H hdisk26 | DISK OPERATION ERROR |
| 8 | F31FFAC3 | 1122075216 | I H hdisk26 | PATH HAS RECOVERED |
| 9 | DE3B8540 | 1122075216 | P H hdisk26 | PATH HAS FAILED |
| 10 | DCB47997 | 1122070516 | T H hdisk31 | DISK OPERATION ERROR |
| 11 | F31FFAC3 | 1122070516 | I H hdisk31 | PATH HAS RECOVERED |

```
DE3B8540 1122070516 P H hdisk31      PATH
HAS FAILED
```

A way to find what's causing this error is using 'lsmpio' command to display detailed device statistics for the hdisks devices.

NOTE: lsmPIO command was introduced in AIX 7.1 TL3 and 6.1 TL9.

```

1      [root@aix:/] lsmpio -Sdl hdisk29
2
3      Disk: hdisk29
4
5      Path statistics since Fri Dec 09 12:56:32 CET
6      2016
7
8      Path 0:
9      (fscsi0:500a09829af63ecf,7000000000000000)
10
11      Path Selections:                1282755
12
13      Adapter Errors:                  0
14
15      Software:                        0
16
17      Hardware:                        0
18
19      Transport Dead:                  0
20
21      Transport Busy:                  0
22
23      Transport Fault:                 0
24
25      No Device Response:              0

```

| | | |
|----|-------------------------|-----|
| 15 | Target Port ID Changed: | 0 |
| 16 | Command Timeouts: | 0 |
| 17 | Reservation Conflicts: | 0 |
| 18 | SCSI Queue Full: | 0 |
| 19 | SCSI Busy: | 0 |
| 20 | SCSI ACA Active: | 0 |
| 21 | SCSI Task Aborted: | 0 |
| 22 | SCSI Aborted Command: | 0 |
| 23 | SCSI Check Condition: | 0 |
| 24 | Medium Error: | 0 |
| 25 | Hardware Error: | 0 |
| 26 | Not Ready: | 0 |
| 27 | Other: | 0 |
| 28 | Last Error: | N/A |
| 29 | Last Error Time: | N/A |
| 30 | Path Failure Count: | 0 |
| 31 | Due to Adapter Error: | 0 |
| 32 | Due to I/O Error: | 0 |
| 33 | Due to Health Check: | 0 |

| | | |
|----|--|---------|
| 34 | Due to SCSI Sense: | 0 |
| 35 | Due to Qualifier Bit: | 0 |
| 36 | Due to Opening Error: | 0 |
| 37 | Last Path Failure: | N/A |
| 38 | Last Path Failure Time: | N/A |
| 39 | Disk: hdisk29 | |
| 40 | Path statistics since Fri Dec 09 12:56:31 CET 2016 | |
| 41 | Path 1: | |
| 42 | (fscsi1:500a09828af63ecf,70000000000000) | |
| 43 | Path Selections: | 1254441 |
| 44 | Adapter Errors: | 3 |
| 45 | Software: | 0 |
| 46 | Hardware: | 0 |
| 47 | Transport Dead: | 0 |
| 48 | Transport Busy: | 0 |
| 49 | Transport Fault: | 0 |
| 50 | No Device Response: | 0 |
| 51 | Target Port ID Changed: | 0 |
| 52 | Command Timeouts: | 3 |

| | | |
|----|--------------------------------|------------|
| 53 | Reservation Conflicts: | 0 |
| 54 | SCSI Queue Full: | 0 |
| 55 | SCSI Busy: | 0 |
| 56 | SCSI ACA Active: | 0 |
| 57 | SCSI Task Aborted: | 0 |
| 58 | SCSI Aborted Command: | 0 |
| 59 | SCSI Check Condition: | 0 |
| 60 | Medium Error: | 0 |
| 61 | Hardware Error: | 0 |
| 62 | Not Ready: | 0 |
| 63 | Other: | 0 |
| 64 | Last Error: Command Timeout | SCSI |
| 65 | Last Error Time: | Mon Dec 12 |
| 66 | 09:12:08 CET 2016 | |
| 67 | Path Failure Count: | 0 |
| 68 | Due to Adapter Error: | 0 |
| 69 | Due to I/O Error: | 0 |
| 70 | Due to Health Check: | 0 |
| 71 | Due to SCSI Sense: | 0 |

| | |
|-------------------------|-----|
| Due to Qualifier Bit: | 0 |
| Due to Opening Error: | 0 |
| Last Path Failure: | N/A |
| Last Path Failure Time: | N/A |

As you can see in the output, the cause of the issue is “**SCSI Command Timeout**” on FC adapter. Please, check FC network (VIOS, NPIV, SAN zoning).

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