DISK OPERATION ERROR in AIX

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Last month, we noted errpt showing an error:

```
[root@aix:/] errpt -a

IDENTIFIER TIMESTAMP  T C RESOURCE_NAME  DESCRIPTION

DCB47997   1122091816 T H hdisk29       DISK OPERATION ERROR

F31FFAC3   1122091816 I H hdisk29       PATH HAS RECOVERED

DE3B8540   1122091816 P H hdisk29       PATH HAS FAILED

DCB47997   1122075216 T H hdisk26       DISK OPERATION ERROR

F31FFAC3   1122075216 I H hdisk26       PATH HAS RECOVERED

DE3B8540   1122075216 P H hdisk26       PATH HAS FAILED

DCB47997   1122070516 T H hdisk31       DISK OPERATION ERROR

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 introduce in AIX 7.1 TL3 and 6.1 TL9.

```
1
                                [root@aix:/] lsmpio -Sdl hdisk29
2
                                Disk: hdisk29
3
                                  Path statistics since Fri Dec 09 12:56:32 CET
4                               2016
5                                 Path 0:
                                (fscsi0:500a09829af63ecf,7000000000000)
6
                                    Path Selections:                1282755
7
                                    Adapter Errors:                       0
8
                                      Software:                 0
9
                                      Hardware:                 0
10
                                      Transport Dead:           0
11
                                      Transport Busy:           0
12
                                      Transport Fault:          0
13
                                      No Device Response:       0
14
```

```
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,7000000000000)
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:                             SCSI
                                    Command Timeout
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 zonning).

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