

File Management, Number of Files in FileGroup Exceeded

OPERATING INSTRUCTIONS

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File Management, Number of Files in FileGroup Exceeded



1 Alarm Description

Table 1 File Management, Number of Files in FileGroup Exceeded Alarm Causes

Alarm Cause	Description	Fault Reason	Fault Location	Impact
Too many files in a file group	The total number of files in a file group has exceeded a threshold according to a file group policy	The total number of files in a file group has exceeded a configured threshold. Some ME or management system functionality responsible for deleting the files is misbehaving.	Network problems	Eventually the ME can lack storage space
			ME function	
			External system	

Note: It is assumed that a Managed Element (ME) function called `Function2` produces files that are regularly transferred and deleted by some external system. The produced files are stored in a directory represented by a file group called `Function2Files`, which is monitored by a file group policy `alarmHighFileNumber`. When the number of files in this file group exceeds the defined limit, an alarm is raised.

2 Procedure

2.1 Handling Alarm File Management, Number of Files in FileGroup Exceeded

Prerequisites

- The instruction references the following document:
 - *Data Collection Guideline*



- No tools are required.
- The following conditions must apply:
 - The alarm is raised.
 - The user has appropriate access rights to the *FileGroup* Managed Object (MO).
 - An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.

Steps

1. Check the connection to the external system using `ping` and `traceroute`.
2. Is the external system reachable in a delay lower than 10 seconds?

Yes: The file collection process can be interrupted because of some fault in the external system. Request the external system administrator to act on the fault.

No: The network can have a configuration fault. Request the network administrator to act on the fault.

3. Navigate to *FileGroup* MO indicated by the alarm attribute Additional Text, for example:

```
>dn ManagedElement=NODE06ST, SystemFunctions=1, FileM=1, LogicalFS=1, FileGroup=Functions2Files
```

4. Check which policy is applicable to the MO:

```
(FileGroup=Functions2Files) >show reservedByPolicy
```

The following is an example output:

```
reservedByPolicy="ManagedElement=NODE06ST, ⇒  
SystemFunctions=1, FileM=1, FileGroupPolicy=⇒  
alarmHighFileNumber"
```

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

```
(FileGroup=Functions2Files) >dn ManagedElement=NODE06ST  
, SystemFunctions=1, FileM=1, FileGroupPolicy=alarmHighFi  
leNumber
```

6. Observe the defined value for `thresholdLow` in the identified policy:

```
(FileGroupPolicy=alarmHighFileNumber) >show -m  
ThresholdMonitoring
```

The following is an example output:



```
ThresholdMonitoring=warningAt10
  monitoredAspect=QUANTITY
  thresholdHigh=11
  thresholdLow=5
  userLabel="More Than Ten Files in File Group"
```

Note: If there are several *ThresholdMonitoring* MOs, find the `thresholdHigh` value corresponding the alarm, then observe the associated `thresholdLow` value.

7. Is it appropriate to manually delete the files in the *FileGroup* MO without loss of important data?

Yes: Continue with Step 8.

No: The external system is expected to delete these files automatically. Once this has happened, proceed with Step 10.

8. Identify the files that can be deleted to decrease the number of files in the file group to or below the `thresholdLow` value:

```
>dn ManagedElement=NODE06ST, SystemFunctions=1, FileM=1, LogicalFs=1, FileGroup=Functions2File
```

```
(FileGroup=Functions2File) >show
```

The following is an example output:



```
FileGroup=Functions2Files
  internalHousekeeping=false
  files="Functions2File.cfg"
    fileType="cfg"
    modificationTime="2014-11-20T13:33:57"
    size=108
  files="Functions2File_20141025_210916.cfg"
    fileType="cfg"
    modificationTime="2014-10-25T21:09:16"
    size=108
  files="Functions2File_20141025_210925.log"
    fileType="log"
    modificationTime="2014-10-25T21:09:27"
    size=0
  files="Functions2File_20141025_211150_20141025_212046.log"
    fileType="log"
    modificationTime="2014-10-25T21:20:46"
    size=7168
  files="Functions2File_20141025_212046.cfg"
    fileType="cfg"
    modificationTime="2014-10-25T21:20:46"
    size=108
  files="Functions2File_20141027_175033_20141027_175714.log"
    fileType="log"
    modificationTime="2014-10-27T17:57:14"
    size=2048
  files="Functions2File_20141027_175714.cfg"
    fileType="cfg"
    modificationTime="2014-10-27T17:57:14"
    size=108
  files="Functions2File_20141027_180112_20141027_185409.log"
    fileType="log"
    modificationTime="2014-10-27T18:54:09"
    size=4096
  files="Functions2File_20141027_185409.cfg"
    fileType="cfg"
    modificationTime="2014-10-27T18:54:09"
    size=108
  files="Functions2File_20141028_184309.cfg"
    fileType="cfg"
    modificationTime="2014-10-28T18:43:09"
    size=108
  files="Functions2File_20141120_133357.log"
    fileType="log"
    modificationTime="2014-11-20T14:34:10"
    size=5120
```

9. Delete each identified file:

```
(FileGroup=Functions2File) >config
```

```
(config-FileGroup=Functions2File) >removeFile  
Functions2File_20141025_211150_20141025_212046.log
```

The system returns `true` after a successful deletion operation. The system returns `false` when the operation fails. The operation fails when the file does not exist or is in use.

```
(config-FileGroup=Functions2File) >commit
```

10. Is the alarm cleared?

Yes: Proceed with Step 13.

No: Proceed with Step 11.

11. Perform data collection, refer to *Data Collection Guideline*.



12. Consult the next level of maintenance support. Further actions are outside the scope of this instruction.
13. Job is completed.