



Title

Subtitle

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Replica Management Tests

- Goal is ensure correct behaviour of RM utils
- ◆ Can be used in middleware certification:
 - RMRepCycle_full
 - RMRepStorm
- and site validation:
 - RMRepCycle
 - RMRepCycle_alt
 - RMRepCycle_mss



- ◆ It covers the most usual replication cycle
 - copyAndRegisterFile
 - replicateFile
 - deleteFile
 - listReplicas
- RC queries and file integrity checks performed to ensure the operations were performed correctly



- Same as before, but forces a MSS capable SE to retrieve the file from the MSS.
 - copyAndRegisterFile
 - replicateFile
 - deleteFile
 - listReplicas
- RC queries and file integrity checks performed to ensure the operations were performed correctly



- It uses alternative commands to perform a replica operation:
 - copyFile
 - registerEntry
 - unregisterEntry
 - replicateFile
 - Edg-replica-manager(ls,cd,pwd,cat)
- The operations are also verified
- ◆It was intended to use getBestFile but could not figure the way it works (if it does).



- Performs a more complex test involving all RM utilities (excluding getBestFile and rcDump)
- It is slower, useful for MW certification / site validation, but not to be run often



- Destructive test, designed to be "bad", trying things like:
 - Fill the disk on SE
 - Reach the maximum parallel file transfer
 - Reach the maximum parallel streams
 - Overcome the RC
- On the design table by now.
- Cannot test it in a production environment (dangerous!)

RCIntegrityCheck (or RCConsistencyCheck)

- Checks for the files registered on a RC
- Tries to locate all the registered replicas on the corresponding SE
- Verifies all replicas are actually the same (CRC check)
- ◆ It checks RC consistency, but does not start any corrective action.



```
BaseTest: setContext
RCIntegrityCheck: setContext
BaseTest: checkArguments
BaseTest: setDefaults
BaseTest: checkPrerequisites
BaseTest: setupTest
RCIntegrityCheck: runTest
ENTERING DIR: edg testing/
edg testing/dummy file RM.030310122347: No replicas for that file
edg_testing/dummy_file_RM.030322172136: No replicas for that file
edg testing/dummy file RM.030322185501: No replicas for that file
edg_testing/dummy_file_RM.030324123414: No replicas for that file
edg testing/dummy file RM.030409153747: No replicas for that file
EssentialJobData.txt: [OK]
cmkin.err.030422095838: Replica not found on tuber6.phy.bris.ac.uk
cmkin.err.030422100035: Replica not found on tuber6.phy.bris.ac.uk
cmkin.err.030422103128: Replica not found on se010.fzk.de
cmkin.err.030422105659: Replica not found on se010.fzk.de
cmkin.err.030422105725: Replica not found on se010.fzk.de
cmkin.err.030422105853: [OK]
cmkin.err.030423092001: [OK]
```