



# All about TSTG Testing Suites

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# Agenda



- Detailed description of the available suites
  - the current set
  - the contents of each test
  - the options
- Discussion
  - feedback
  - comments
  - suggestions
  - needs
  - requests
  - improvements



# Credits



- The Testing Suites have been contributed by:
  - Miquel Barcelo
  - Frédérique Chollet
  - Gilbert Grosdidier
  - Andrey Kiryanov
  - Charles Loomis
  - Gonzalo Merino
  - René Météry
  - Danila Oleynik
  - Andrea Sciabà
  - Elena Slabospitskaya
- Many other people have been contributing to the design and ideas leading to the current suites



# The different kinds of Tests [v0.1.3]



- **Watch out:** several test names are currently far from meaningful
- **CEGate:** Globus Gatekeeper Unit Testing (CEs)
  - 10 tests achieved on each node
- **CECycle:** submit jobs to specific CEs systematically
- **UI\_ST:** UI functionality tests for SiteTesting
- **FTP:** GridFTP functionality tests (RB, CEs, SEs)
- **DNS:** reverse DNS Tests (RB, CEs, SEs, MDS, PX)
- **RB:** Functionality tests for RB (Unit testing)
  - it's a suite of 6 small jobs submitted through JDL files
- **SEwsCycle:** Checkup of SE setup (SEs) - does not work yet
- **RMCycle:** Checkup of RM setup (SEs, RM)



# The different kinds of Tests (2)



- The different kind of Storms (All components, Global & Stress testing):
  - **JStorm**: Job Storm
    - Simple jobs with InpOut sandbox transfers, and check of output contents
    - batchSleep option available
  - **CStorm**: Copy Storm
    - Achieves **GridFTP** transfers from UI, and checks availability from jobs submitted to RB
  - **RStorm**: Replica Storm
    - Broadcasts files thru RM running on **UI**, and checks availability from jobs on WNs
  - **KStorm**: Checksum Storm
    - Achieves **big file** sandbox transfers, with both end checksums
  - **DStorm**: Data Storm
    - Replica file transfers from the **WNs**, and check of output contents
  - **UStorm**: User Storm
    - Jobs where the **user** may provide his own **JDL** xor **Script** files



## The different kinds of Tests (3)



- **MDS**: Consistency tests for MDS + BDII (2 tests in serie)
- **MM**: MatchMaking Test for RB
  - exercising either of file/gridftp/rfio protocols
- **RLS**: Basic functionality Test for RMC/LRC/RLS
- **SEs**: GridFTPUMask checks for SEs (should be merged with ?)
  
- **Deprecated**:
- **ProXyf**: Security Test for RB (stealing proxies - better if failing)



# The different Options provided



- `. MainScript --TList="test"`
  - test = CEGate CECycle FTP DNS RB SEwsCycle RMCycle
    - also: MDS RLS MM UI\_ST
    - and storms: JStorm CStorm RStorm KStorm DStorm UStorm
- `. "MainScript --List"` :
  - Prints the List of available Tests.
- `. "MainScript --help"` :
  - Prints this README file, plus the full option List.
- `. "MainScript --MDebug"` :
  - Prints some Variable values from inside the MainScript.
- `. "MainScript --TList="test" --fullHelp"` :
  - To Force printing of a detailed Help about the selected Tests.
- `. "MainScript --TList="test" --showME"` :
  - To Force printing of option values and machine names for the selected Tests.



## The different Options provided (2)



- `. MainScript --TList="test" --forcingTB= "yourTB"`
  - To Force a TB other than "CertTB". This option is mandatory.
- `. MainScript --TList="test" --addOptionList="--opt1=val1 --opt2=val2 ..."`
  - To Provide a list of additional Options to the Tests to be achieved.
- `. MainScript --TList="test" --forceMachineList="node1 node2"`
  - To Provide a list of Machines to be used in the tests, overriding the default
- `. MainScript --TList="test" --addMachineList="node1 node2 ..."`
  - To Provide a list of Machines to be used in the tests, adding them to the default ones
- `. MainScript --TList="test" --forcingVO="otherVO"`
  - To Force a VO other than "dteam". Useful in a many tests now.
- Combining `showME` option with the above ones could be smart to figure out their actual action
- All above options can be used together
- Their usefulness is NOT guaranteed for all tests





## Detailed examples, and other links



- A detailed example of a recent Result Web page, produced on the CertTB (23/10/03, morning) is available in the LCG/TSTG area:
  - [http://grid-deployment.web.cern.ch/grid-deployment/tstg/examples/031023-000042\\_TSTG\\_Lecture](http://grid-deployment.web.cern.ch/grid-deployment/tstg/examples/031023-000042_TSTG_Lecture)
- The relevant full output file (showing the running log, useful when trying to spot failures) is available in the same area:
  - [http://grid-deployment.web.cern.ch/grid-deployment/tstg/examples/LogFile\\_TSTG\\_Lecture](http://grid-deployment.web.cern.ch/grid-deployment/tstg/examples/LogFile_TSTG_Lecture)
- A detailed Install help is also available here:
  - <http://grid-deployment.web.cern.ch/grid-deployment/tstg/docs/LCG-Certification-help>