SAM Tests for ARC CEs

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NORDIC DATAGRID FACILITY

General Availability Tests

- **ARCCE-auth**
  - Tests if the DN running the SAM tests can authenticate against the ARCCE (without sending a job)
- **ARCCE-caver**
  - Tests if the list of supported CAs published by the ARCCE is consistent with the latest IGTF release
- **ARCCE-job-submit**
  - Submits a test job to the cluster
- **ARCCE-softver**
  - Finds the middleware version installed on the ARCCE
- **ARCCE-status**
  - Checks ARCCE status published in the information system

- These tests are run on the worker node from within the ARCCE-job-submit test
  - ARCCE-csh
    - Tries to run a csh scripts
  - ARCCE-gcc
    - Finds the default installed gcc version
  - ARCCE-perl
    - Finds the default installed perl version
  - ARCCE-python
    - Finds the default installed python version

- Data management is done by the Grid Manager on the ARC CE – the test checks that it works – they don't move any files themselves
  - ARCCE-gridftp
    - Stage-in from and stage-out to a gridftp server
  - ARCCE-rls
    - Stage-in of a file registered in RLS, stage-out to one of the RLS servers default output locations with RLS registration
  - ARCCE-srm
    - Stage-in from and state-out to an SRM server
  - ARCCE-wn-gridftp, ARCCE-wn-rls, ARCCE-wn-srm
    - Parts of the above tests that are run at the worker node

- ARCCE tests
  - ARCCE-auth
  - ARCCE-status
  - ARCCE-caver
  - ARCCE-csh
  - ARCCE-job-submit
  - ARCCE-gridftp, -rls, -srm
  - ARCCE-softver

- LCG CE tests
  - CE-host-cert-valid
  - CE-sft-brokerinfo
  - CE-sft-caver
  - CE-sft-csh
  - CE-sft-job
  - CE-sft-lcg-rm
  - CE-sft-softver

- Not everything can be tested by sending jobs
- The tests are run via a client installation at `grid.tsl.uu.se`
  - proxy of the server certificate
  - the list of services to test is obtained from the SAM database
- The SAM database is filled from the ARC BDII by the central installation at CERN
- The following are exactly the same tests as for all the EGEE/WLCG sites, ran with OPS VO credentials:
  - Storage Element (SE)
  - SRM (SRM)
  - Site BDII (sBDII)