



# WLCG Worldwide LHC Computing Grid

**SAM**  
**DataManagement**  
**Tests**



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Information Society  
and Media

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# How does SAM test SRM?

HOW DOES SAM TEST SRM?

- **Central tests:** put, get and delete
  - Tests are run from the CERN SAM UI
  - All SEs are tested
  - All tests run via lcg-util commands
    - **Using default configuration**
- Lcg-util default configuration: → **SRM-V1 interface is tested**
  - **Lcg-cr**
  - **Lcg-cp**
  - **Lcg-del**
- **Distributed tests:** Same tests, but only the “Default-SE” is tested
  - Some sites configured this for OPS to point to a dedicated Classic-SE
- Summary: **SAM tests do NOT test SRM-V2 interfaces**



# Why?

- LCG-util clients had initial no command line options for selecting protocols
- Now:
  - No option == support for legacy clients (srm-v1)
  - -D == indicate preferred version (defaults back to v1)
  - -T,-U == specify mandatory versions for source and destination
- Using classic SE as default SE for OPS VO
  - Site admins way to get an orthogonal set of tests
  - Tests mix different services
    - SE, InfoSystem, Catalogue, WN config.
- **Summary: We miss relevant aspects in our tests**
- What to do?



# Changes

## CPAN&G2

- Short term:
  - Modify tests to test both: SRM-V1 and SRM-V2 (SAM team)
  - OPS should use same SE as experiments (Site admins)
- Longer term:
  - Better interpretation of test results
    - Define dependency matrix
    - Use **in addition** “static” file based information
      - Avoids coupling between information system and SE
    - Test catalogues independently
  - Test accessibility of all SEs on a site



# Other Critical Tests involving the SE

## Other Critical Tests Involving the SE

- [CriticalProbes](#)
- **CE-sft-lcg-rm** uses the default SE and the result is an AND of:
  - Test that \$LCG\_GFAL\_INFOSYS is set
    - No test that this points to anything
  - Local SE: lcg-cr , lcg-cp
  - Central SE: lcg-rep
  - lcg-del
- These are mixed tests: Catalogue, InfoSystem, Config, and SE
- **SE Tests**
  - SE-lcg-cr
  - SE-lcg-cp
  - SE-lcg-del
- I guess this will need some work.....