

# HTTP Update

WLCG DOMA / TPC

Brian Bockelman, 12 September 2018

# Quick Update

- Goals from last time:
  - 4 PhEDEx links upgraded. **PARTIAL**. 3 done.
  - “10TB scale test”. **PARTIAL**. We have hit 1TB (and still increasing on the Rucio side).
- Switching to Rucio for stageout revealed some unknown problems in the combination of token auth and creating parent directories.
  - Filed as bug dCache RT#9503.
  - dCache has scheduled a number of minor Macaroon fixes in the next bug fix update.
- SToRM: Any update on the POST issue? Andrea C. noted the problematic behavior (StoRM responds to POST as if it was GET instead of an error) is a bug, but I don't have a link to an issue tracker...
- Echo: Test endpoint not yet available! We are now at 4 weeks on this... how can we help?
- Starting to capture the precise Macaroon semantics and agreed-upon HTTP headers (i.e., <https://twiki.cern.ch/twiki/bin/view/LCG/HttpTpcTechnical>).
  - Paul, Andrea C., and Brian had a good working meeting about switching token acquisition to OAuth.

# Connectivity Matrix



To	Xrd	dCache	DPM	EOS	StoRM	Echo
From Xrd	Working	Working	Working	Broken	Broken	Untested
dCache	Working	Working	Working	Broken	Broken	Untested
DPM	Working	Working	Working	Working	Broken	Untested
EOS	Broken	Broken	Working	Broken	Broken	Untested
StoRM	Broken	Broken	Broken	Broken	Broken	Untested
Echo	Untested	Untested	Untested	Untested	Untested	Untested

# Known Issues

- Removed all items that have been fixed for more than one month.
- DAVIX: All open issues fixed in 0.6.9 (unreleased?)
- gfal2: All open issues fixed in 2.16.0 (unreleased?)
- DPM: Is there any plan to support Adler32 for the “legacy DPM”?
  - This is the only source of failures I see in the Rucio dashboard.
- dCache:
  - Macaroon does not work with COPY unless its path points to parent directory. dCache RT#9468. **Workaround in FTS3 PR #18.** Fixed in next dCache minor update.
  - Macaroon authorization does not allow parent directory creation. dCache RT#9503. Issue acknowledged and being tackled short-term.
- Xrootd: Any update on when a 4.9.0 RC will appear?