

# Data Access Hangout 2014-11-24

## Date

24 Nov 2014

## Attendees

- [Unknown User \(xiuqin\)](#)
- [Trey Roby](#)
- [Gregory Dubois-Felsmann](#)
- [Unknown User \(zhang\)](#)
- [Kian-Tat Lim](#)
- [John Gates](#)
- [Fabrice Jammes](#)
- [Jacek Becla](#)

## Goals

- Discuss Data Archive related topics

## Discussion items

Example urls for dataCat?

- ask Brian (Jacek)

Testing qserv for SUI

- jdbc issues fixed, still need to install latest qserv at ipac and verify
- want more rapid cycle
- ultimately will have machine(s) at NCSA, it is ~2 months away, purchasing now
- short term: install qserv at slac for IPAC
  - open mysql for selected ipac machine(s), ipac team can use ssh tunnel to connect

Performance optimizations

- SUI wants high performance, near direct access speed, reconstructing fits headers requires making a copy of file
- don't design something that rules out direct file access (direct file access might be needed for SUI, we won't expose it for end-users)

html-type access

- not urgent
- SUI can access qserv directly
- but for qserv-proprietary interfaces, it should be web-wrapped from the beginning

User upload tables

- tension between having one simple interface for users, vs multiple for performance reasons
- example: 3-row upload table vs 3-million-row, opportunities to optimize for small tables
  - these optimizations belong to SUI level
- Level 3 in LDM-240 planned for 2019-2020 time frame
  - SUI needs user upload tables much earlier
  - doable, unless we want uploads concurrently with user queries
- also, cross-matching will be essential during commissioning
  - not clear if it would be done via database though

SUI requirements

- sui team going through all sui requirements, exposing hidden requirements (like need for user upload tables in Qserv)

Next meeting

- next Monday, DM audio line for audio + google hangout for video