

Computational and Communications Fabric Department (Fermilab)

Provide underlying Fabric services to Fermilab Scientific community.

Main Technical directions and interests:

- 1) Very Capacious high speed networking, centered around our presence at the Starlight facility at Northwestern University and its interconnects to many places.
 - a. Production networks
 - b. International networks
 - c. Research networks

- 2) Very capacious tape and disk based
 - a. permanent data stores
 - b. buffering and caching stores
 - c. All with capacious data movement capabilities.
 - d. Implementation-agnostics protocols and interfaces. (SRM, et. Al)
 - e. Collaboration with DESY, LBL, LCG, JLAB

- 3) Security infrastructure and mechanisms apropos to both Scientific and DOE facilities.

- 4) Elements of relevant middleware
 - a. Grid based Job dispatching
 - b. Virtual organizations