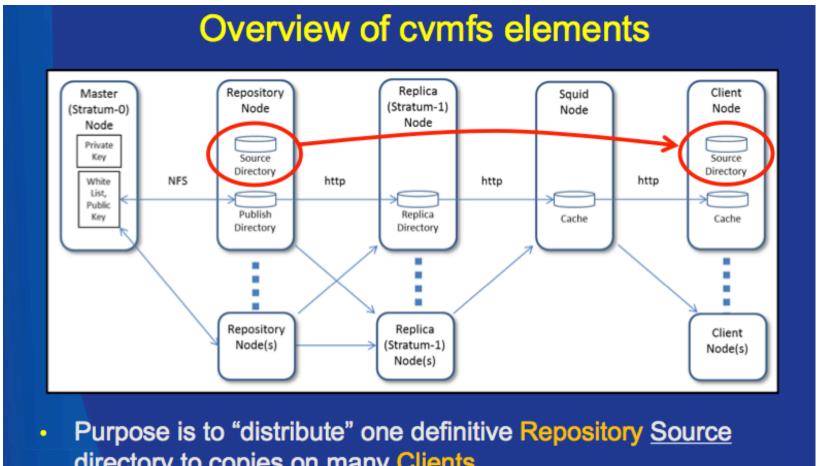
Distributing LBNE software using CVMFS

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- directory to copies on many Clients
- Distribution via http of compressed/encrypted/cached files

https://cd-docdb.fnal.gov:440/cgi-bin/ShowDocument?docid=5150&version=2

LBNE Software Distribution Requirements

- what types of files will be distributed?
 - binaries, libraries, scripts, and configuration files
 - no distribution of data or source code
- where do we anticipate the files being accessed from?
 - OSG worker nodes
 - interactive nodes (?)
 - laptops (?)
- How often will files be updated?

- currently see this as only official tags
- nightly builds and CI results will not be part of CVMFS distribution
- will begin with a manual rsync command and work towards automatically triggered
- How much access control do we want?
 - is this an issue at all?
 - limit access to only the VO?
- What flavors of software need to be distributed?

options for installation locations

- OASIS on OSG.org
 - configured on a large majority of the OSG worker nodes
 - available now, but obviously not under LBNE control
- Fermilab Ibnecfs.fnal.gov
 - full control (within limits of SCD policy)

- not actively distributed to worker nodes
- BNL CVMFS server
 - could be the local server for BNL
- either could serve as the mirror of central repo at either location
- no need to make choice right now

packages needed to be distributed

- Ibnecode extensions of LArSoft for LBNE
- LArSoft already distributed on OASIS
- FastMC software
- G4LBNE
- others...

Current plan for LBNE on CVMFS

- utilize the OASIS server for access to LArSoft in:
 - /cvmfs/\$OASIS/fermilab/products/larsoft
- distribute the Ibnecode through:
 - /cvmfs/\$OASIS/lbne/??????
- updates will be done manually with the script written by Dave Dykstra
- every tagged version of Ibnecode will go onto OASIS
- when the structure for other packages exist, begin to integrate them into the LBNE area on OASIS