



Dedicated LArSoft cvmfs volume

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Why the change?

- We install files on /grid/fermiapp/products/larsoft and rsync
 - /cvmfs/fermilab.opensciencegrid.org/products/larsoft
 - It takes 2-3 hours before the products are found
 - We announce the release before the rsync completes
- This delay is problematic
 - Someone might start trying to work while the rsync is in progress
 - Users wonder where the release is
- A direct copy to a dedicated volume is far more efficient
- We requested and were granted a volume for the LArSoft project
- /cvmfs/larsoft.opensciencegrid.org



Plans

- Ups products: [/cvmfs/larsoft/opensciencegrid.org/products](https://cvmfs.larsoft.org/products)
- Clean installs of only the releases we use
 - all v06 production releases
 - v05_14_00 for DUNE
 - v05_08_00_01 for MicroBooNE
 - v03_08_02 for SBND
 - regular releases v06_69_01 and above
- What other releases are in use?
 - No reason to install lots of releases that no one is using.
- Is there something we are missing?
- Remove many releases from [/grid/fermiapp/products/larsoft](https://grid.fermiapp/products/larsoft)
- Freeze [/grid/fermiapp/products/larsoft](https://grid/fermiapp/products/larsoft)

Known issues

- cvmfs is somewhat unstable on macOS
 - This affects Jenkins builds
- The current lar_ci uses all available cores on macOS
 - This overloads the machines
 - A new CI release that uses a single core is due March 20
- We have to make sure that the Jenkins builds work
 - Long term retention of /grid/fermiapp/products/larsoft may not be an option
 - We have other ideas, but want to see if the CI update helps
- We cannot freeze /grid/fermiapp/products/larsoft until the macOS Jenkins builds work with cvmfs

What do you need to do?

- Add the new volume to the experiment setup scripts
 - prefer the new cvmfs volume
- source [/cvmfs/larsoft.opensciencegrid.org/products/setup](https://cvmfs.larsoft.opensciencegrid.org/products/setup)
- Use the new volume and let us know what problems you have so we can fix them ASAP
 - open a redmine issue
 - <https://cdcvcs.fnal.gov/redmine/projects/larsoft/issues/new>
 - send email to larsoft-team@fnal.gov
 - no private communication, please