

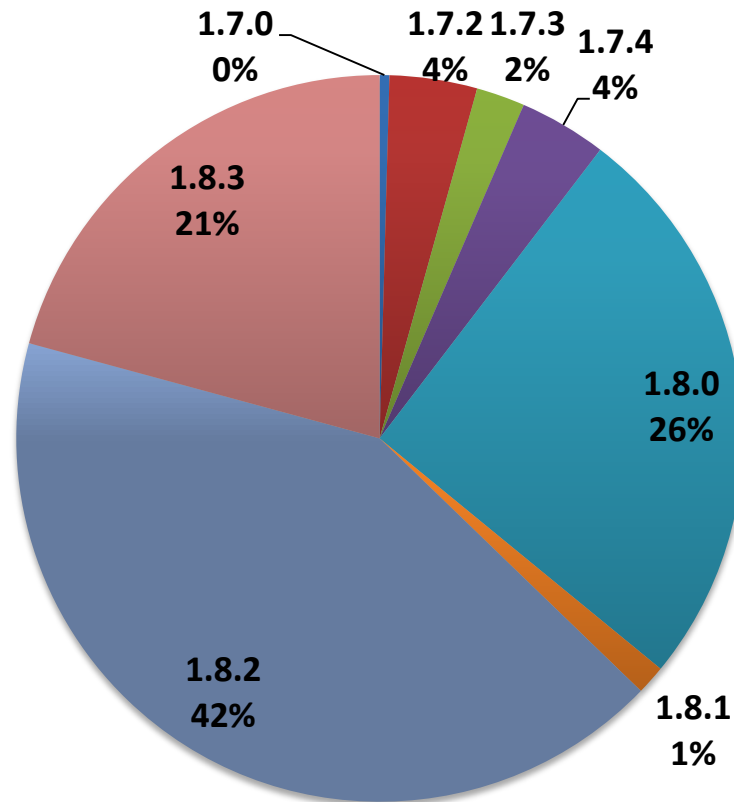
# DPM: from gLite to EMI

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( on behalf of the DPM team )

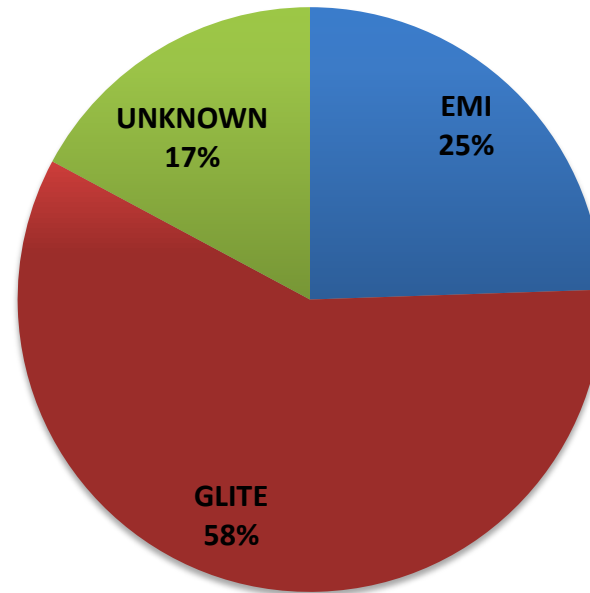


# DPM Deployment: Versions



- First EMI release was 1.8.1
- Proper Fedora/EPEL support only in 1.8.3

# DPM Deployment: Distribution Flavors



- Checks are done by directly querying the services
- gLite still on top, but things moving fast
  - EMI was at <5% 2 months ago

# DPM gLite vs EMI: Why upgrade?

- New developments on the core are EMI only
- But we understand some sites might be reluctant to upgrade right now
  - So frontends and some other tools are released separately (http/dav, nfs, xrootd, ...)
  - And are fully compatibility with older core versions
  - <https://svnweb.cern.ch/trac/lcgdm/wiki/Dpm/Dev/Components>
- Other components will never be available for gLite
  - Lots of new things coming up...
  - Memcache on nameserver, support for multiple pool types (hadoop, vfs, s3, ...), 'dmlite' for future proof storage
  - <http://cdsweb.cern.ch/record/1458022/files/dpm-future-proof.pdf>
- There is ***real motivation to upgrade***

# Upgrade Details

- Some things are easy
  - Packages names have changed (for Fedora compliance)
  - New packages Provide/Obsolete the old ones
- Some things have become easy
  - Externals in both EMI and EPEL
  - With different packaging
  - Provides/Obsoletes in EPEL for the EMI names
    - Either by asking or taking over 😊
    - Example is gridsite
- Some things are harder : globus
  - In gLite it comes with VDT
  - In EMI it comes from EPEL, with a totally different packaging
  - Manually clean leftovers... see upgrade procedure

# Common Questions

- Should I upgrade or reinstall?
  - If reinstalling is an option, then do it
- Are you confident with the upgrade?
  - Yes, many sites have done this. Issues on the mailing list are minimal
- Is there a procedure on how to upgrade?
  - Yes, thanks to our large user base we documented potential issues
  - <https://svnweb.cern.ch/trac/lcgdm/wiki/Dpm/Admin/Maintenance#CaniupgradedfromagLitetoaEMIUMDrelease>
- Can I have a 'multi-flavor' setup ?
  - Example: EMI Head Node and gLite Disk Nodes
  - Yes, the protocols remain unchanged
- I have a new machine... ?
  - Install EMI-2 and the latest production version (1.8.3 now)
- I tried, but it didn't quite work...
  - [dpm-users-forum@cern.ch](mailto:dpm-users-forum@cern.ch)
  - We will be happy too help

# What's next?

- Our packages are available in Fedora/EPEL
  - With exception of packages depending on oracle and yaim
  - These will never make it
- Packaging is the same between EMI and Fedora
  - We have fixed all remaining issues, including the ones coming from external dependencies
  - And we also keep the versions in sync
- Sites willing to do it, can already install from EPEL
  - But still need the EMI repo for yaim, mkgridmap, etc...