

EOS ⁴ EOL Plan

- **Update** to EOS⁵ until end of this year!
- Support stops at end of this year!
- We will do bug fixing concerning security and stability!

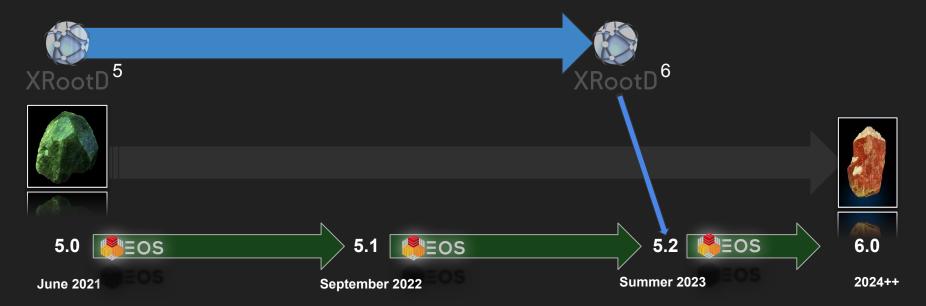


EOS ⁵ Releases Phases





- EOS⁵ was available since mid 2021
- We probably don't need a major version release this year
 - o even if XRootD might have one



EOS 5.2 Release





What we want to drop ...

- libmicrohttpd
- LevelDB file meta data
- Old FSCK reporting
- Old Balancer
- Transfer Queues/Multiplexer
- MQ Daemon
- Internal HTTP browser JS

What we will target ...

- HA without MQ
- MGM Latency Reduction (replacing global mutexes with local mutexes)
- FLAT Scheduler
- REST API MGM (summer project)
- Merge SHARE API and permission system homogenisation
- Possibly move to TPC processes instead of in-MGM multithreading with XrdCl
- o FUSE Performance
- FST Gateway IO & scheduling for shared backends
- EC Updates (when XRootD range-clone/copy-on-write functionality is available)

EOS Run 4 Directions





MGM Performance Strategy

- Try to improve performance for single MGM by O(1)
- Try to flatten meta-data ops JITTER using local locking
- If this fails, we might go for branching MGMs (multi MGMs)
- Investigate usability of read-only MGMs with active cache invalidation

API Evolution

Study benefits/feasibility of bulk APIs for opening files

Data Format Evaluations

- Study/Adapt future RNTuple format with erasure coding
- Study what range of file sizes are sustainable

EOS General Improvements





Documentation

- First step is done: new Diopside documentation
- Continue to remove outdated information deprecated options, configuration files etc.
- Document missing components

CLI Streamlining

 Implement common proposals for more standardized generic syntax/behaviour in UNIX similar commands

YOU tell us what you need!

- We discuss weekly what we need at CERN, but sometimes you need something else!
- Continue to use the Community Forum, JIRA, SNOW it is very appreciated

YOU contribute

- Every contribution is welcome code, configuration, documentation, ideas!
- GIT Merge Requests, Mattermost, Emails aso.

EOS Workshop Closing



- A big thank you to all participants for making the EOS workshop a success with a diverse program and many interesting contributions
 - I think we demonstrated that the support at CERN behind EOS and CTA is very solid
 - Both projects are supported by outstanding development and operations teams
 - The support load on us for external installations is still moderate
 - There is a healthy community using EOS and CTA
 - This is underpinned by the numerous contributions
 - This is underpinned by the fact that we have this workshop now for the **7th time**
 - This is underpinned by the fact that YOU are here!
- We hope this event was useful to you ... see you next time!

