

## **Release 4.8.5** (ETA end of October 18)

### ***Patch release***

- XrdCrypto certificate parsing
- xrdcp recursive copy
- errno assignment for proper error recovery
- Avoid double I/O for local checksum calculation
- HTTP performance additions
- HTTP error status code corrections
- HTTP header parsing
- HTTP error handling
- Expose kXR\_cancel for prepare requests
- Zip file extraction via CGI
- SSS keytab selection via CGI
- Pass proper endorsement for sss security protocol
- Various client edge case fixes to avoid a SEGV

## **Release 4.9** (ETA end of November 18)

### ***Patches plus new features***

- Vector write (kXR\_writev)
- Support xrdcp stream specification via TPC
- Support Xcache ingest via HTTP
- Allow xrdcp cross protocol copies (xroot <-> HTTP)
- Allow forced disconnection in the client
- Add pipelining dataflow API in the client
- Allow state-full redirection (e.g. redirect on read)
- Add redirect trace-back in client (enabled via logging level Debug)
- Add ability to list xip archive contents
- Add HTTP macaroon support
- Add HTTP TPC support
- Fix Xcache multi-source origin handling
- Fix client-side TPC timeouts

## **Release 5.0** (ETA 1Q19)

### ***New features that break ABI – only recompilation needed***

- User settable extended attributes (kXR\_fattr)
- Full TLS support for XRootD
- Extended stat information
- Trivialize OFS plugin wrapping
- Add additional field in SecEntity structure (e.g. uid/gid)
- Allow checksum check on close (kXR\_closev)
- Remove old XrdClient
- Add getFile() and putFile() OFS methods

## **Release 5.x Future Plans**

### ***Tentative list***

- Recursive delete (mostly for HTTP)
- Response data streaming
- Getfile (kXR\_getfie) and Putfile (kXR\_putfile) support
- Map/Reduce functionality to fully support data pipelining
- Erasure encoding plugin
- Allow client to effectively stripe data across partitions
- RDMA support
- Support uid/gid tracking for files
- Allow appends to a zip archive
- Dynamic data source selection in the client
- Enable mock testing of client
- Docker based distribution
- Enhancement to cmake build(i.e. package config)
- *Others???*