



OGC



Sandia
National
Laboratories

LDMS USER GROUP MEETING

Sep 22, 2025

Agenda

- Update on v4.5.1 release
- Testing feedback
- Q&A

Issue 1813 - Resolved

- **Issue**: race condition causing assertion failures and memory corruption when LDMS daemon processes ldms_ls connections during configuration loading startup
- **Cause**: ldmsd incorrectly removes request contexts from config files during transport disconnection cleanup
 - Request message tree uses composite keys (flags + connection ID)
 - flags indicate context type: config file, remote request, local request
 - connection ID identifies the connection or config file
 - Disconnection cleanup only checked the connection ID part of the key
 - This caused removal of config files contexts that happened to share the same connection ID as disconnecting remote contexts
- **Fix**: updated cleanup logic to check both flags and connection ID when removing contexts (PR 1964)
- **Future**: generate connection ID that don't overlap between transport and config files

RHEL8/RHEL9 Communication Issue (#1916)

- `ldms_ls -l` hangs when client runs on RHEL8 and server runs on RHEL9
 - Same-platform communication (RHEL9 to RHEL9) works correctly
 - Issue appears system-specific - not reproducible in Alma 8/9 containers

Progress Since Last Meeting

~40 PR have been merged since last meeting:

- Make stream disabled by default
- Add `stream_enable` command
- Add `msg_enable` command
- Various bug fixes (selected):
 - Leak fixes in many paths
 - Race condition in initializing a passive endpoint
 - Fix an infinite loop when processing YAML config files (introduced by a patch)
 - Fix an unexpected sample scheduling when the offset is negative
- Bug fixes in storage and sampler plugins

Testing Feedback

- What testing have you done with v4.5.1-rc.1?
- What testing have you done with top of main (cfced96df)?



Sandia
National
Laboratories

OGC

Q&A

- V4.5.1-rc.2 will be created
- Ben A. plans to do scalable testing with stream next week
- Encourage everyone to try out the top of tree on the main branch



Thank you!