



# Community Release Update

Lustre BOF SC17

Peter Jones HPDD, Intel

OpenSFS Lustre Working Group

# Lustre 2.10

- Went GA July 13<sup>th</sup> 2017
- Supports RHEL 7.3 servers/clients and SLES12 SP2 clients
- Interop/upgrades from Lustre 2.9 servers/clients
- Designated LTS Release - freely available maintenance releases
- [http://wiki.lustre.org/Release\\_2.10.0](http://wiki.lustre.org/Release_2.10.0)
- A number of new features included in this release
  - Progressive File Layouts (LU-8998)
  - Multi-Rail LNET (LU-7734)
  - Project Quotas (LU-4017)
  - ZFS Snapshots (LU-8900)

# LTS Releases

- Long Term Support (LTS) releases will remain active for at least 18 months
  - Similar idea to Whamcloud maintenance release streams
  - Updates for bugfixes and to support newer Linux distro releases
  - Will announce details of next release as they become available
- Maintenance releases may also be produced for other community releases but only until next major release
  - i.e. no further updates for 2.n when 2.n+1 has been released
  - Will depend upon levels of adoption

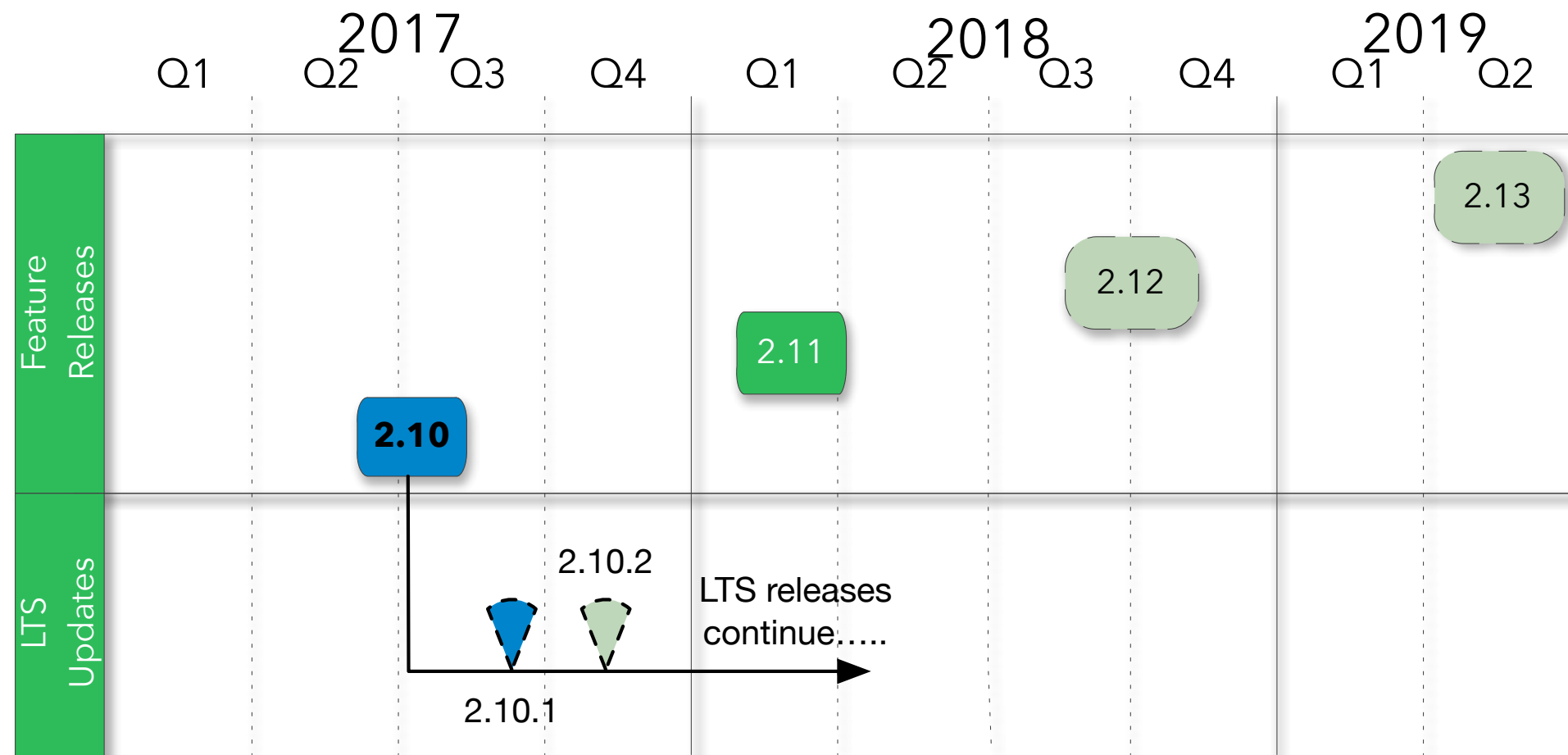
# Lustre 2.10.x Maintenance Releases

- Lustre 2.10.1 maintenance went GA last month
  - RHEL 7.4 server and client support
  - ZFS 0.7.1 default version of ZFS used
  - MOFED 4.1 support
  - Support for 4.9 kernel Lustre clients (LU-9183)
  - RHEL 6.9 Lustre client support
  - Ubuntu 16.04 LTS Lustre client support
- Lustre 2.10.2 planned for Q4 2017
- Coming in Future 2.10.x maintenance releases
  - Patchless servers (LU-20)
  - Support for 4.12 kernel Lustre clients (LU-9558)
  - Many-core architecture performance improvements (LU-8964)
  - SLES12 SPx server support

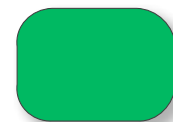
# Lustre 2.11

- Targeted for March 2018 release
- Will support
  - RHEL 7.4 servers/clients
  - SLES12 SP3 clients
  - Ubuntu 16.04 clients
- Interop/upgrades from latest Lustre 2.10.x servers/clients
- Several features targeted for this release
  - Lock-ahead (LU-6179) **LANDED**
  - Data on MDT (LU-3285) **LANDED**
  - File Level Redundancy – Delayed Resync (LU-9771) **ONGOING**
- [http://wiki.lustre.org/Release\\_2.11.0](http://wiki.lustre.org/Release_2.11.0)

# Lustre Community Roadmap



## LEGEND:



Expected  
Timeline



Timeline  
TBD



Completed



LTS Branch

### 2.10

- ZFS Snapshots
- Multi-rail LNet
- Progressive File Layouts
- Project Quotas

### 2.11

- Data on MDT
- FLR Delayed Resync
- Lock Ahead

### 2.12

- FLR Immediate Resync
- LNet Health
- DNE Directory Restriping

### 2.13

- FLR Erasure Coded Stripes
- Persistent Client Cache

\* Estimates are not commitments and are provided for informational purposes only

\* Fuller details of features in development are available at <http://wiki.lustre.org/Projects>

Updated: Nov 3<sup>rd</sup> 2017

# IML

- IML 4.0 GA
- <https://github.com/intel-hpdd/intel-manager-for-lustre/releases>
- First open source release of IML
  - Provides intuitive browser-based administration of Lustre filesystems
  - Distributed under an MIT license
  - Compatible with Lustre 2.10.1
- Possible for sites running Intel EE 2.x and 3.x to upgrade
- Your input into priorities for IML 4.1 welcomed



# IML 4.1

- Planned for Q1 2018; content being finalized
  - <https://github.com/intel-hpdd/intel-manager-for-lustre/issues>
  - **Your input into this process is welcomed!**
  - Mechanisms in place for community contributions
- Some areas under consideration
  - Scalability
  - Modularity
  - Localization



# Summary

- Lustre 2.10.1 GA; Lustre 2.10.2 targeted for Q4
- Feature freeze for Lustre 2.11 is approaching
- IML 4.0 GA; input welcome for IML 4.1
- Plenty of options for contributing to Lustre/IML

# Thank you

**Open Scalable File Systems, Inc.**

3855 SW 153rd Drive

Beaverton, OR 97006

Ph: 503-619-0561

Fax: 503-644-6708

[admin@opensfs.org](mailto:admin@opensfs.org)



[www.opensfs.org](http://www.opensfs.org)