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**Supporting Commercial OpenDaylight
Deployments**

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- What is commercial deployment?
- Why to do it?
- What are the challenges?
- How to overcome those?
- How can we benefit?

What is it?

- OpenDaylight distribution deployed by customer
- We provide customer support for extended periods
 - How-to
 - Fixes
 - Enhancements

- Customers unable to deploy at current release velocity due to required operational practices
 - Time to validate & deploy: lab tests, security compliance, compatibility, integration points, device versioning, etc.
 - Customers internal projects life-cycle
 - Overheads of maintaining cadence of ODL releases
 - Failing to a limited number of people
- Customers require Long Term Support (LTS) distribution

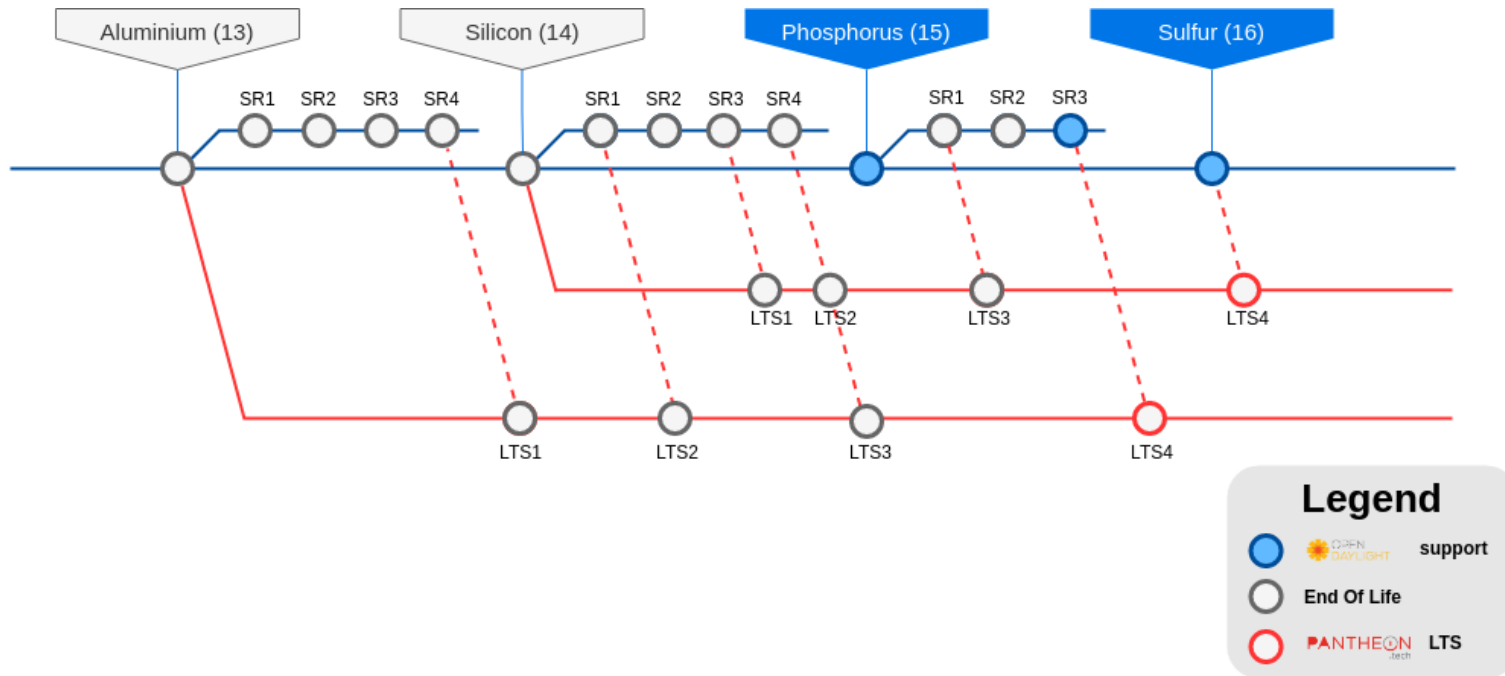
Challenges

- Place to store supported code-base
- CI/CD infrastructure to build and test ODL
- Release notes and documentation
- Delivery to the customer
- Diagnosing issues in customer deployment
- Sync with upstream code-base
- Resource optimization

- Mirror open-source repositories into your organization
 - GitHub, GitLab, Gerrit
- To avoid confusion with open-source, use your own versioning schema

- LTS versions have no strict release cycle
- Provide new LTS release on customer demand and/or periodically
- When updating to later ODL release, reset custom versioning to zero/one

LTS Versioning Example



- Need for own CI/CD infrastructure to
 - Verify patches
 - Build distribution
 - Test distribution
 - Publish artifacts
- Automate as much as possible

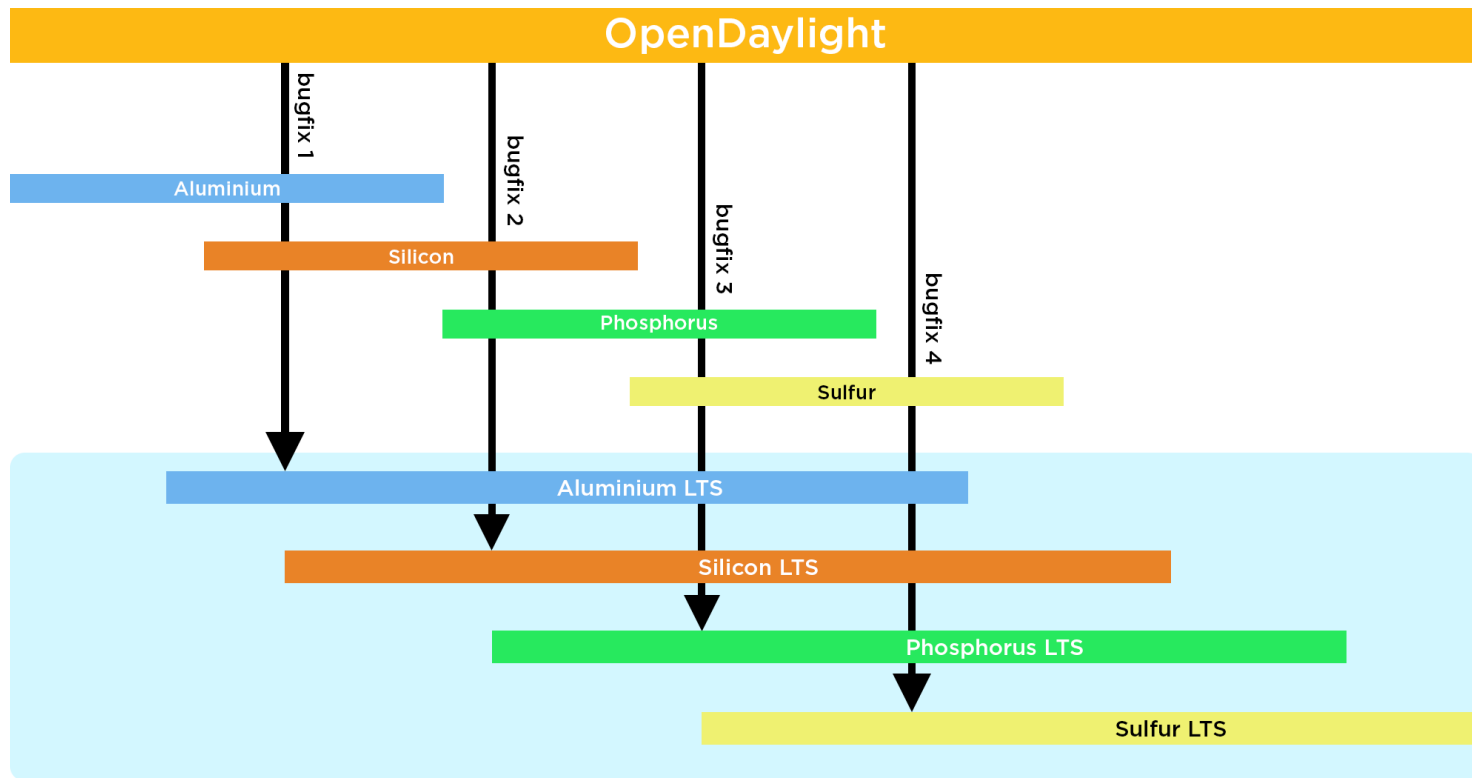
- Create (at least) semi-automated script to gather release notes
 - Mention improvements done in **open-source**
 - Mention improvements done by **you**

- Need for delivery channel to the customer
- Artifacts
 - Nexus
- Documentation
 - Cloud storage for documents

- Simply asking for details
- Using automated diagnostic tools/scripts to collect run-time information
 - Java environment
 - Operating system
 - System resources

- The best way to not lost patches created during support period on LTS version, is to publish them to the latest open-source
- When upgrading to newer ODL versions, you will find all your work already there 😊

Contribution Schema



Optimize Resources

- Follow best practices
- Use available solutions

- Use your own versioning schema
- Automate release, release notes process
- Use and enhance tools which already exist
- Upstream bug-fixes and improvements with open-source community

- OpenDaylight's tool to bump versions
 - <https://github.com/skitt/odl-tools/blob/master/bump-odl-version>
- OpenDaylight's release notes script
 - <https://github.com/opendaylight/docs/blob/master/docs/ext/odl-jira.py>
- OpenDaylight's test and deploy scripts
 - See *releng/builder*, *integration/test* and other ODL projects

- Benefits for customer
 - Security and performance improvements delivered to no-more supported releases
- Benefits for community
 - Customers share the cost of improvements and bug-fixes delivered to open-source
- Benefits for you
 - Opportunity to monetize your effort contributed to OpenDaylight

Current Highlights

- Provided security release for log4j2 vulnerability and other security issues
- Cherry-picked fixes to enable tell-based protocol in LTS version
- Developed segmented journal and netty-replicator on customer's demand to open-source upstream



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Questions?

Thank you for attending!

- **Useful links**

- pantheon.tech
- opendaylight.org
- wiki.opendaylight.org

- ODL @ PANTHEON.tech



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