ODL – 2023: The year of new Contributors

The impact of new contributors on the community

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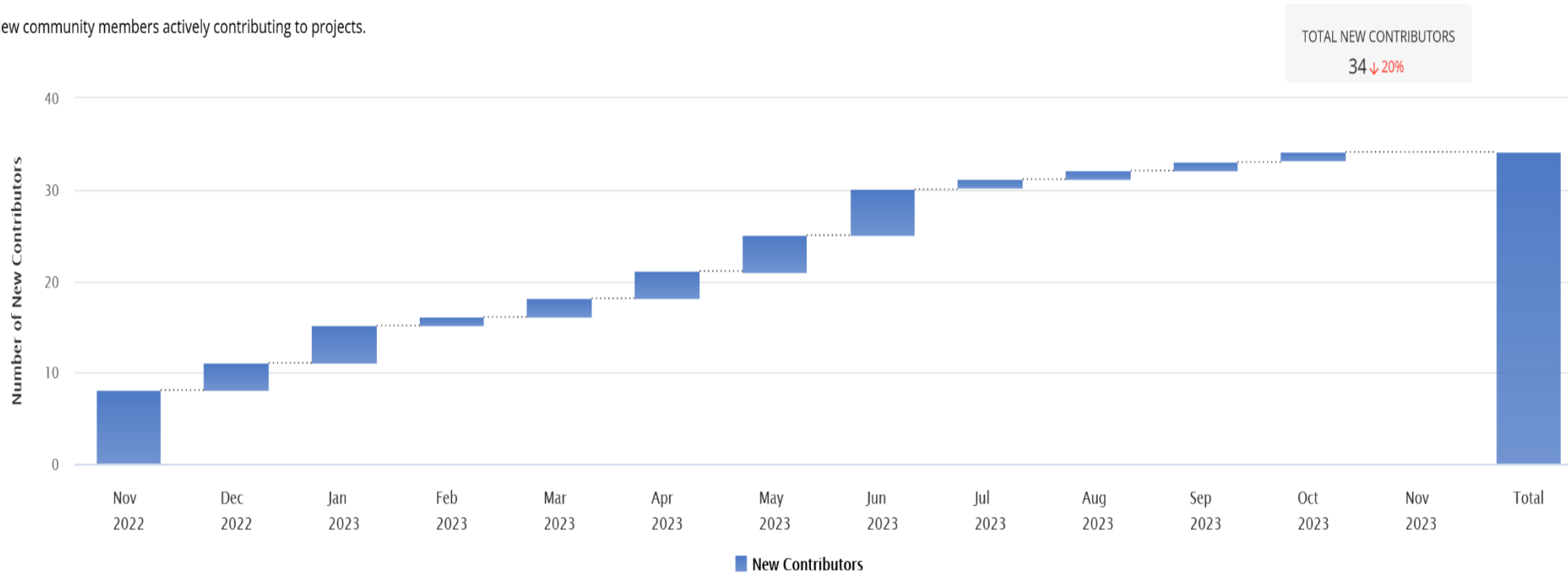https://lfnetworking.org

Motivation

- We see new names in git and JIRA in OpenDaylight project in 2023

- Let's verify this observation by investigating:
  - LFN statistics

  - Git statistics

  - JIRA statistics
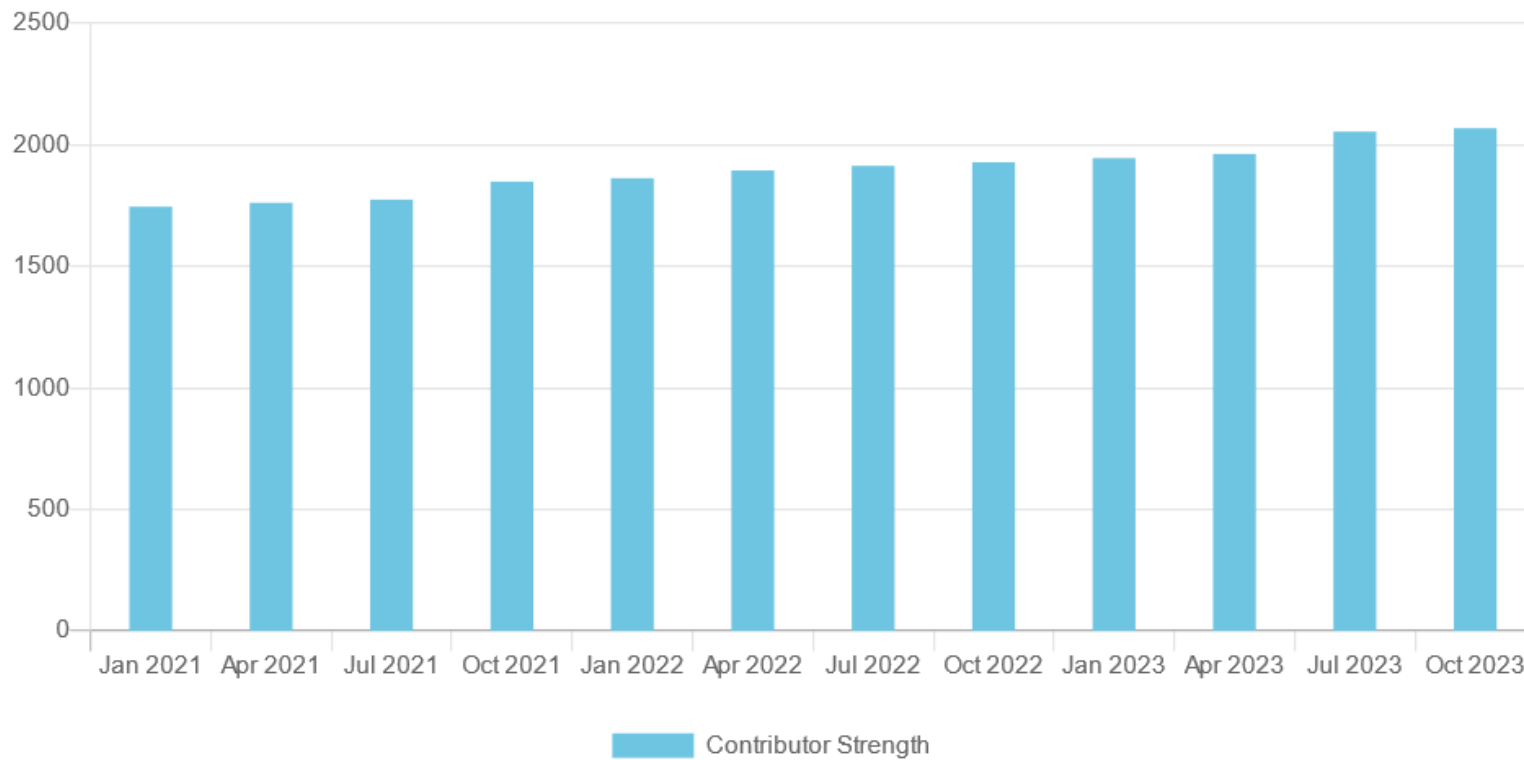
  - Tasks solved
  - Releases made

(new) Contributor growth

(new) Contributor growth 3years

The contributor strength grew the most between the time period **Apr 2023 and Jul 2023** during the last 3 Years.

(new) Active submitters increase
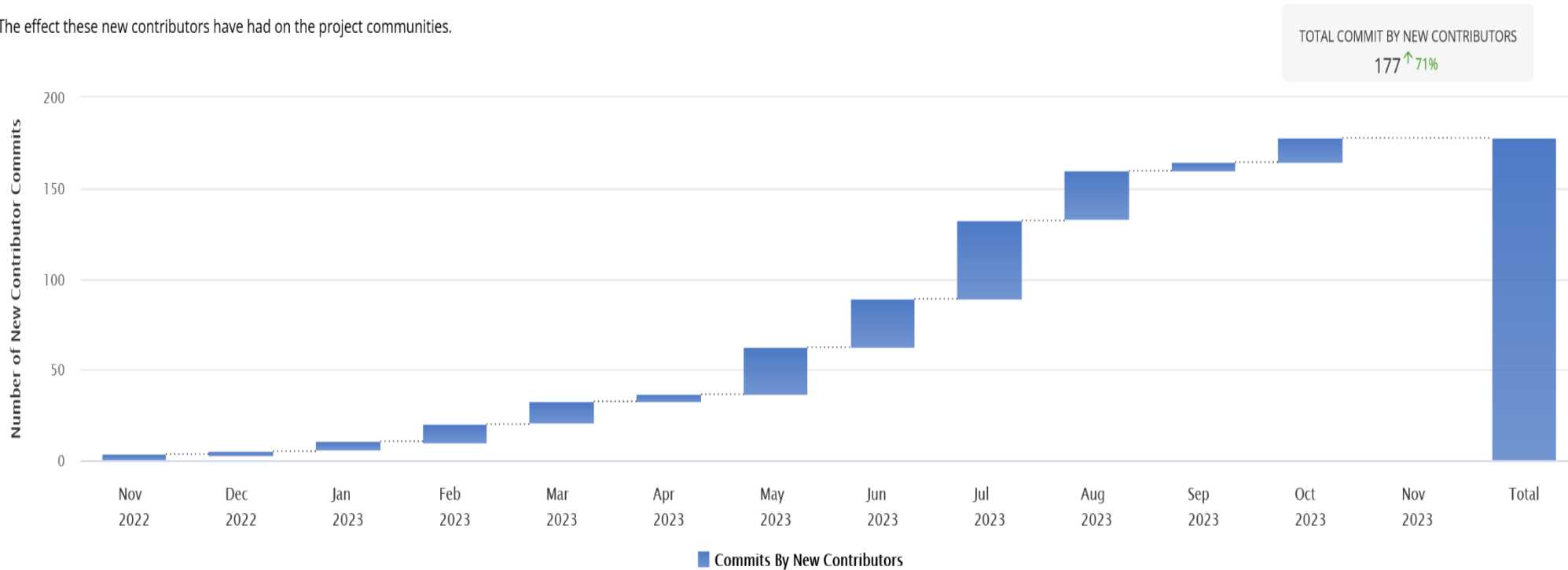

Active Submitters

The number of unique pull request/changeset submitters showing new and repeat submitters
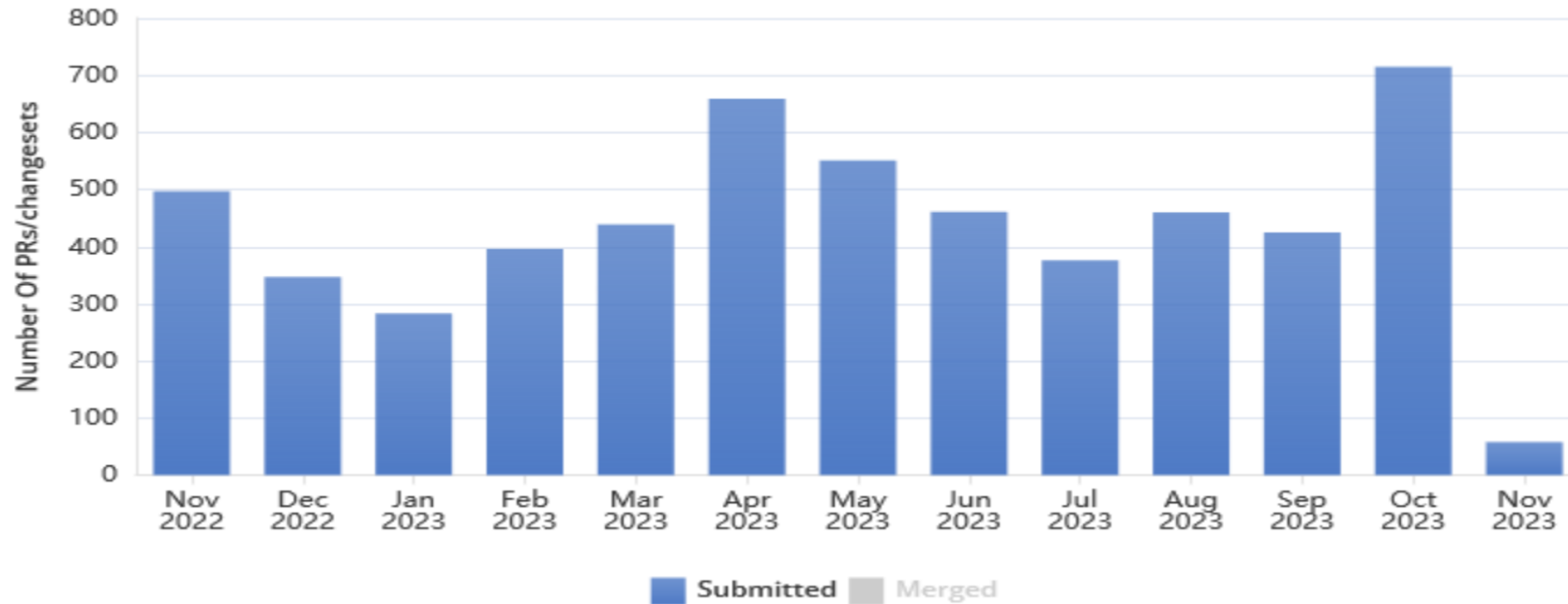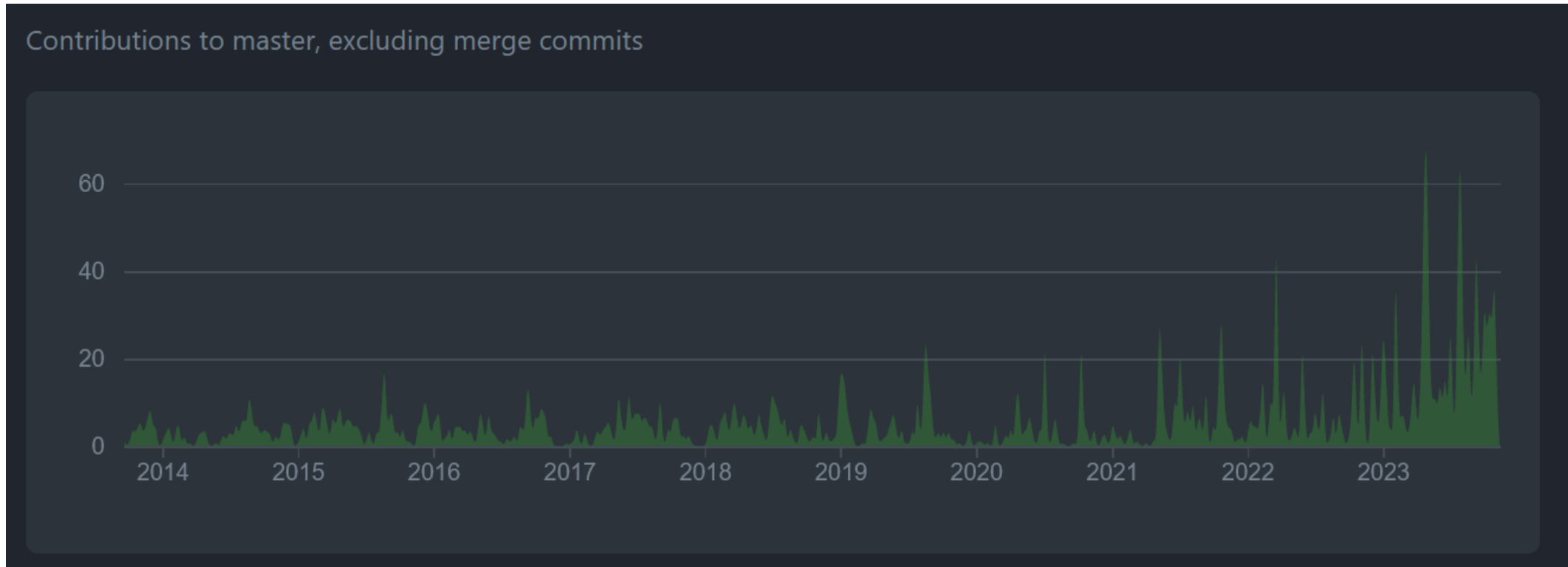
(new) Contributors impact

The number of new PRs

Pull Request/Changeset Trends

The number of pull requests/changesets submitted and merged during the selected time period.

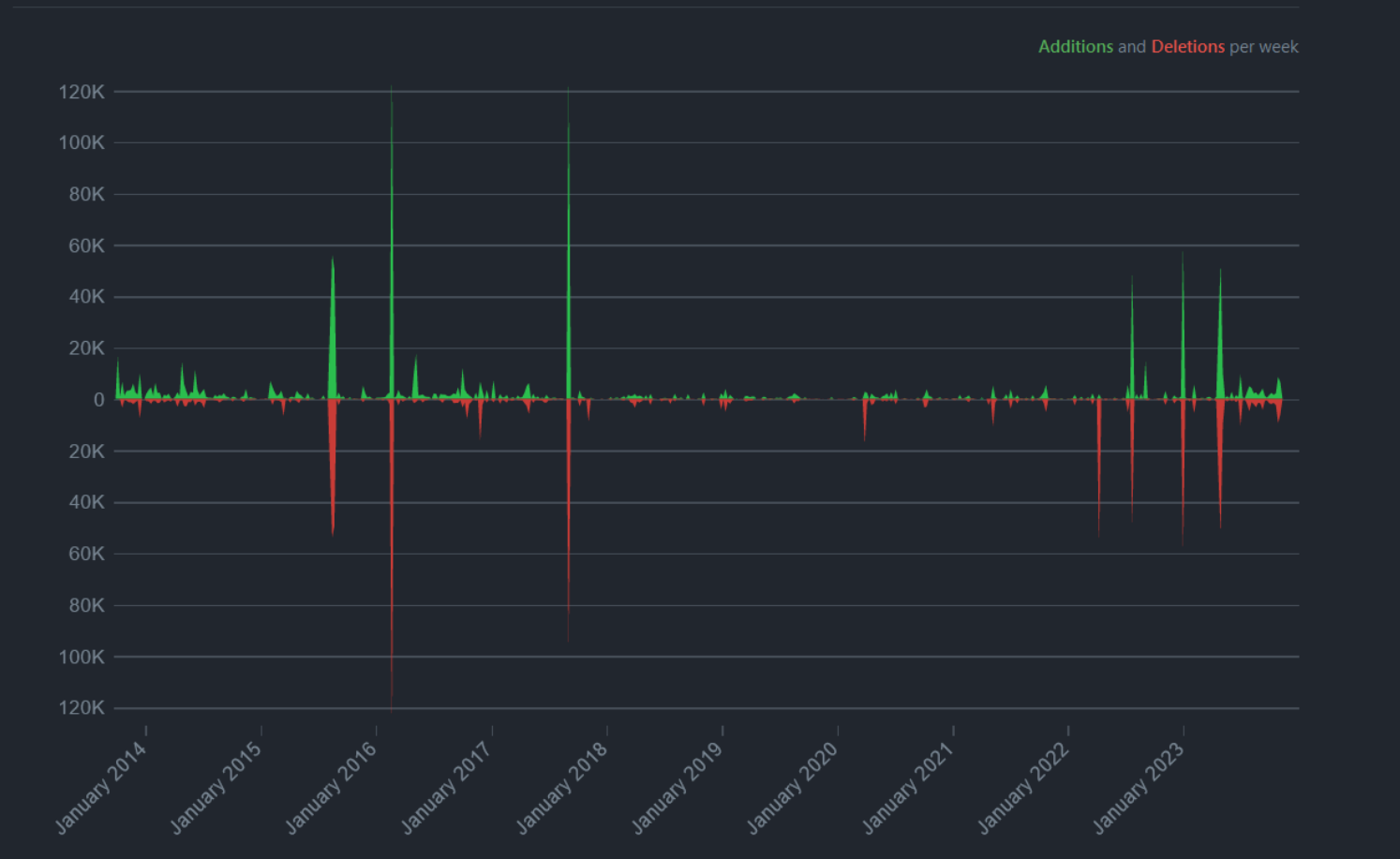# Contributions increase

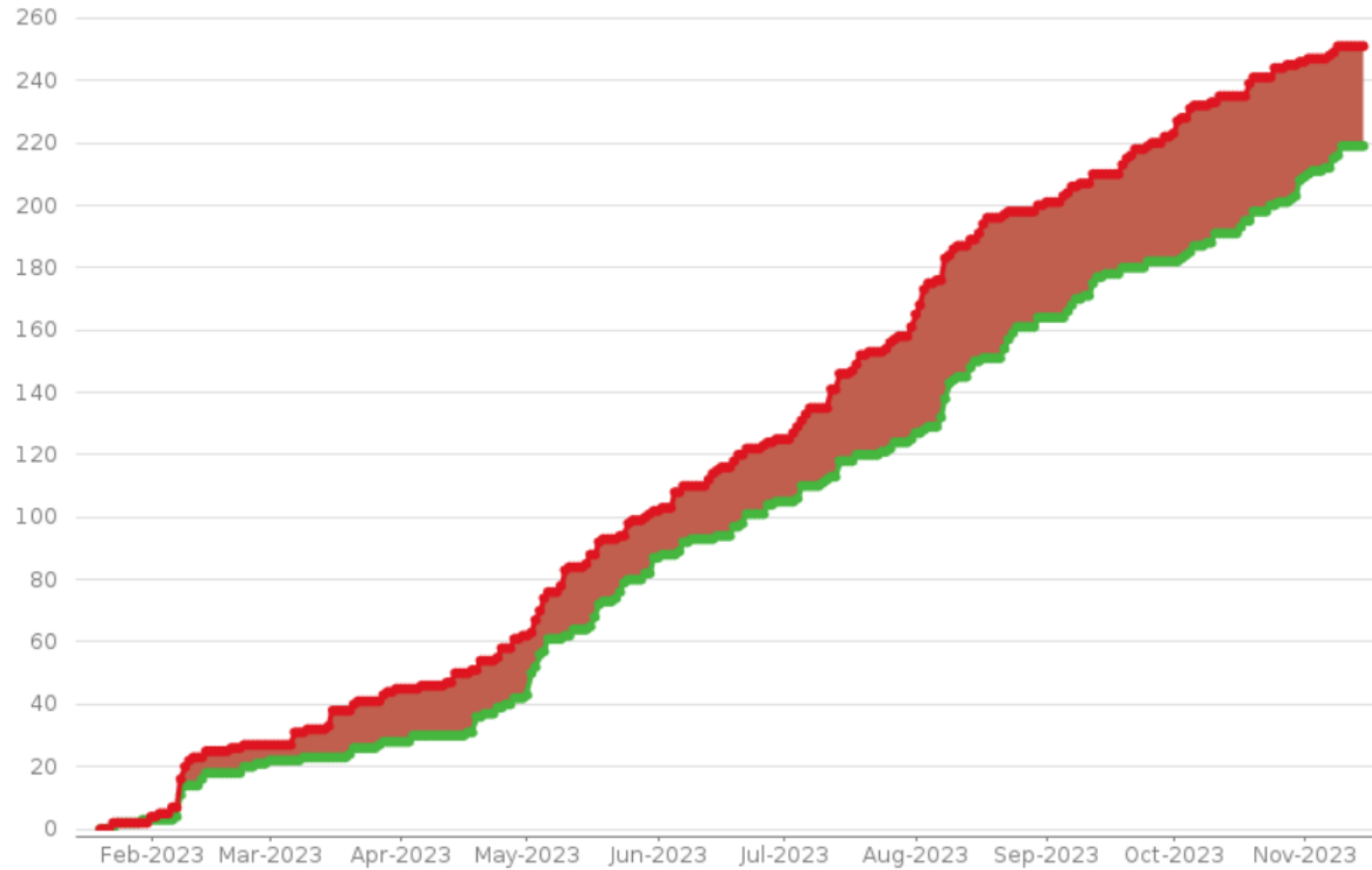Contributions to master, excluding merge commits

Code frequency increase

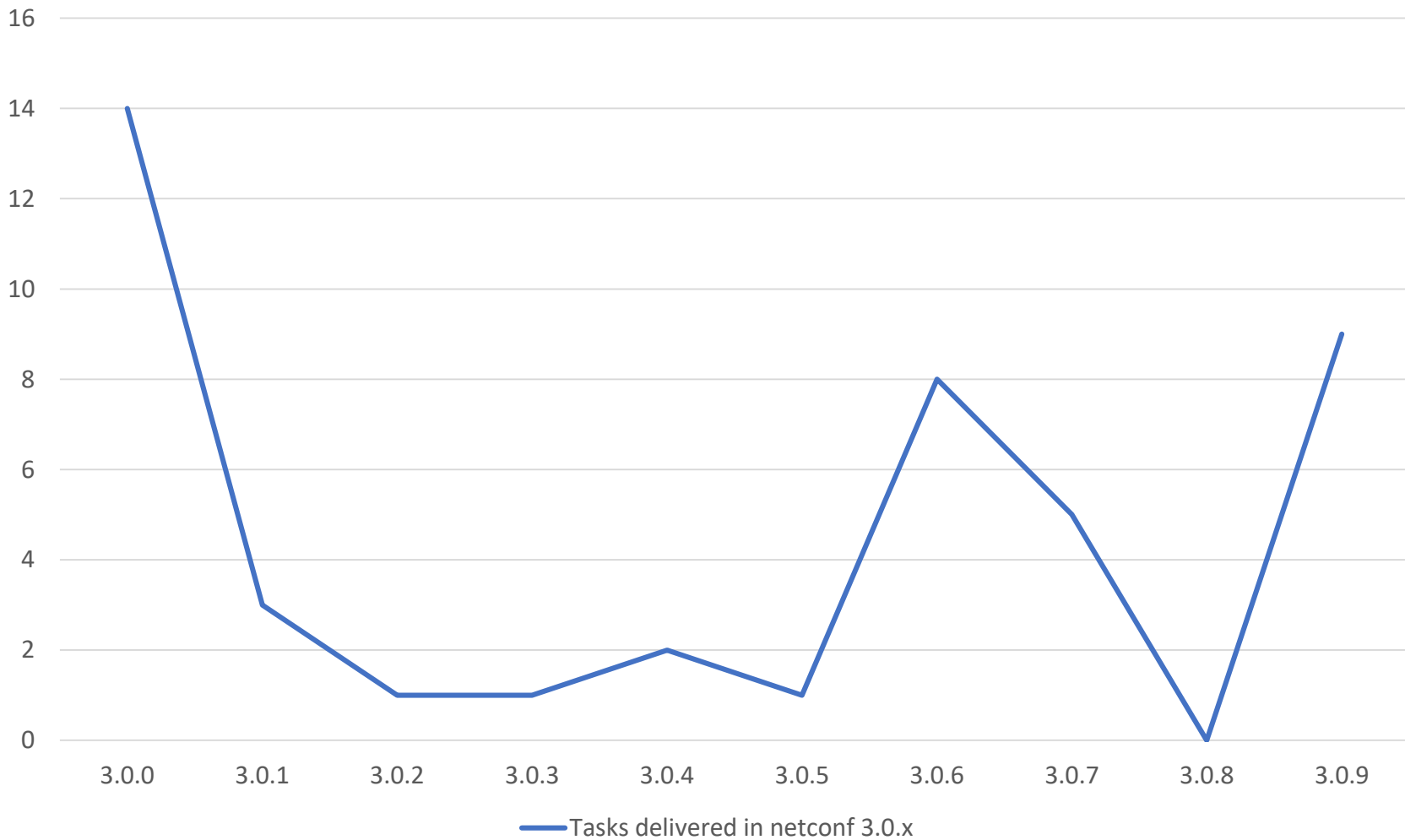Code frequency over the history of **opendaylight/netconf**

Statistics from JIRA

This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **300** days.

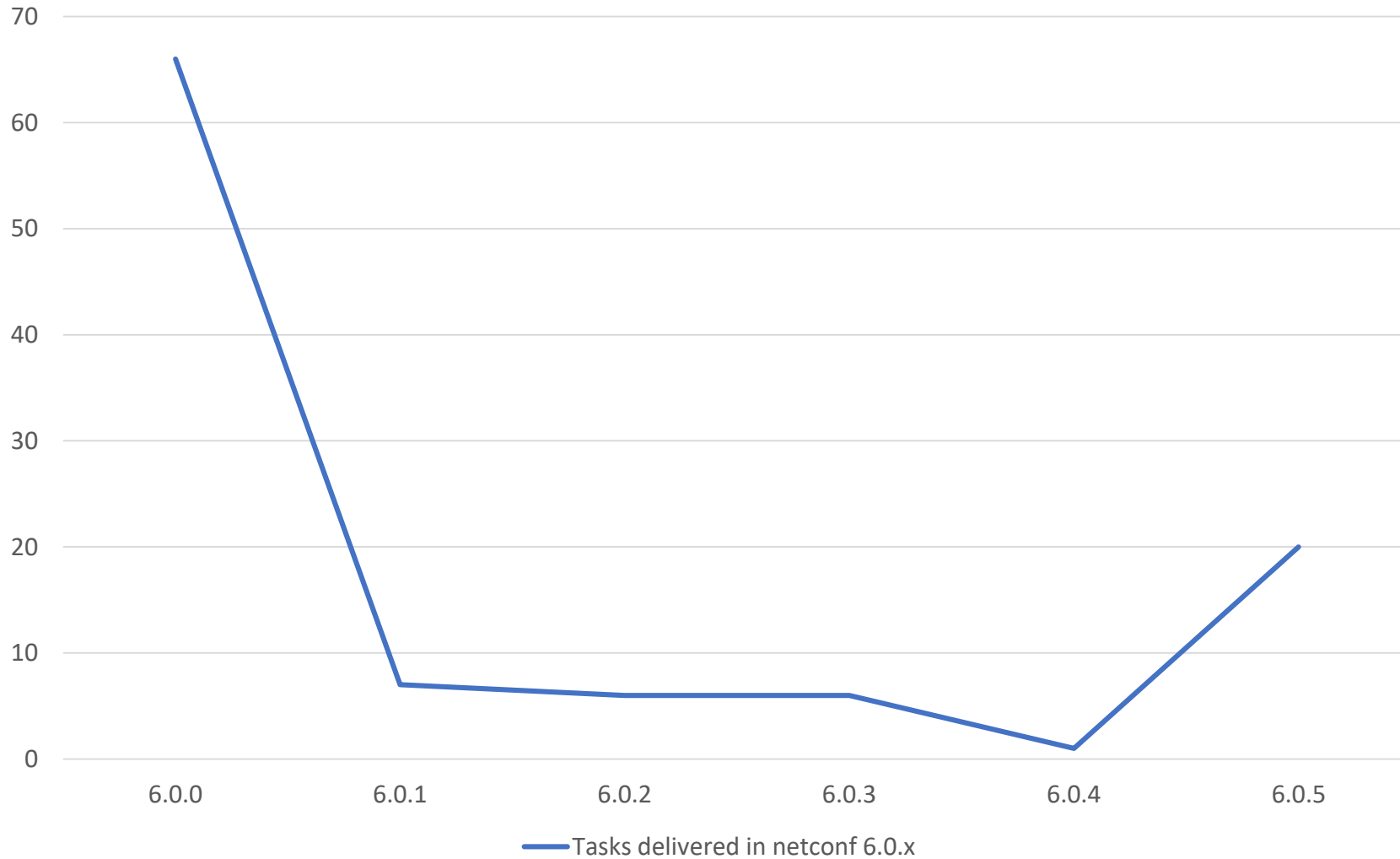# Tasks delivered in 2022

Tasks delivered in netconf 3.0.x

Tasks delivered in 2023

Tasks delivered in netconf 6.0.x

Tasks delivered in netconf 6.0.x

Restconf OpenApi rework

restconf-nb = 387

No component = 125

restconf-openapi = 103

netconf-topology = 8

netconf-client-mdsal = 6

transport = 2

models = 1

netconf = 569
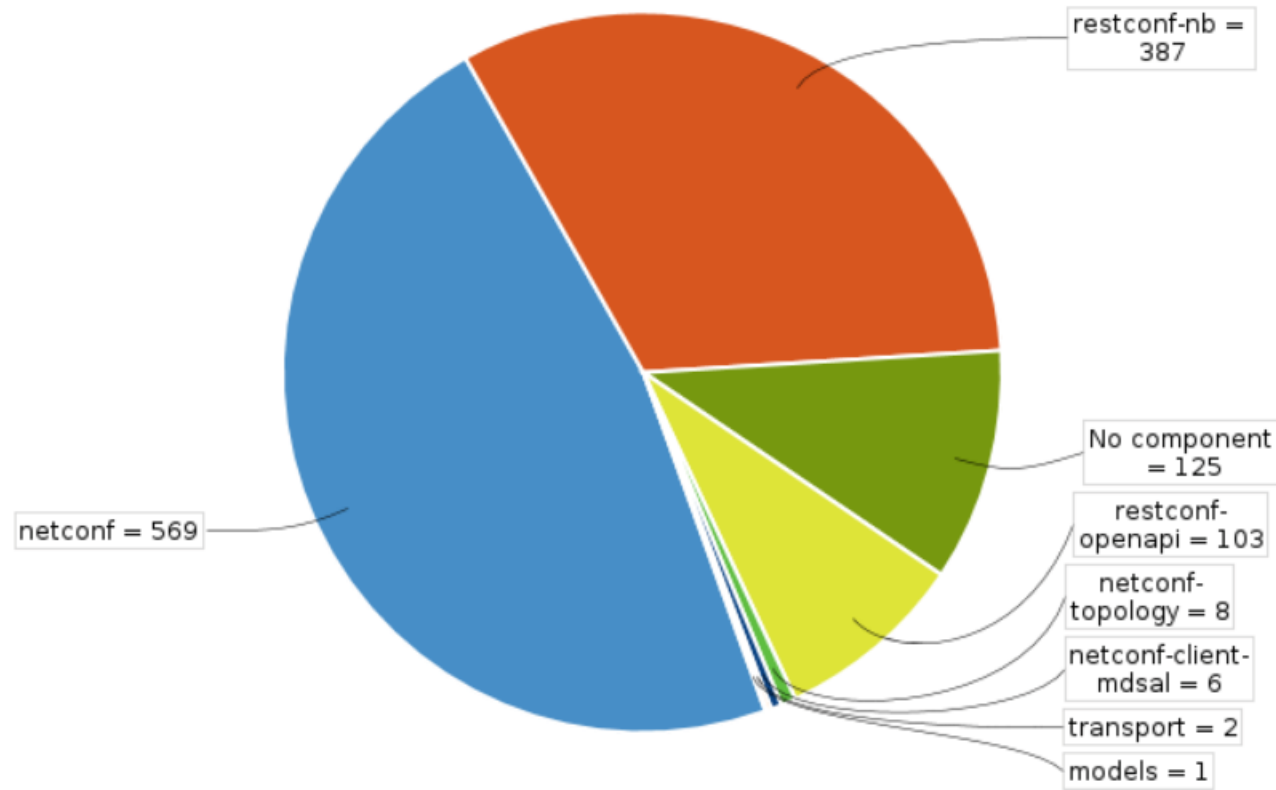
- New contributors needs to become more experienced and independent
    - decreasing time to solve the tasks
    - increasing the amount of fixes delivered

- The maintenance of MRI projects needs to be split to multiple developers
    - ensuring that MRI project are properly maintained

- There is a lot of technical opportunities that can attract new developers to join the project

Conclusion and discussion

- We have verified the increasing impact of new committers to ODL
  - higher increase of new contributors
  - more commits made
  - more tasks delivered in releases
  - focused work on specific topics – for example OpenApi rework
  - speed-up future evolution

Used sources

- LFN insights (multiple sections)
  - https://insights-v2.lfx.linuxfoundation.org/opendaylight/trends
  - https://insights.lfx.linuxfoundation.org/projects/lfn%2Fodl/dashboard;quicktime=time_filter_3Y

- GitHub mirror for netconf
  - https://github.com/opendaylight/netconf

- ODL JIRA
  - https://jira.opendaylight.org

- ODL release mailing list
  - https://lists.opendaylight.org/g/release

Useful links

- **pantheon.tech**
- **opendaylight.org**

- ODL @ PANTHEON.tech

Thank you!