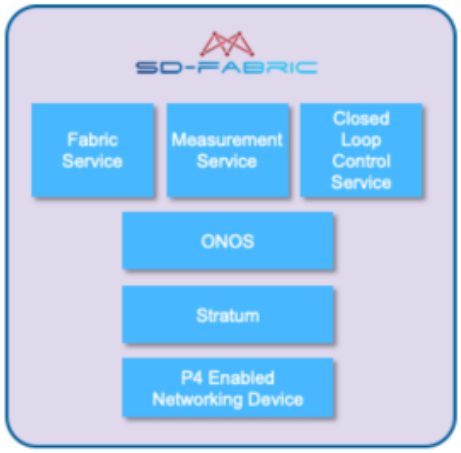
SD-Fabric

Introduction

SD-Fabric is a complete P4 programmable networking fabric. The stack enables programmers to execute custom forwarding logic in performant networking hardware, making it possible to implement features that would otherwise consume expensive compute resources.



SD-Fabric creates an Ethernet fabric optimized for edge application out of a collection of switches. SD-Fabric uses SDN control to convert a spine-leaf assembly of switches into what appears to be a single routing instance to all hosts and routers connected to the fabric. SD-Fabric also enables fine-grained measurement through the use of INT services, and is iteratively integrating network verification and closed-loop control capabilities coming from project Pronto research.

Learn more about SD-Fabric here: https://opennetworking.org/sd-fabric/

Read the recent press release: https://opennetworking.org/news-and-events/press-releases/onf-announces-new-sd-fabric-project-an-open-source-full-stack-programmable-network-fabric-for-hybrid-cloud-edge-cloud-5g-and-industrial-iot/

Licensing Notice

This project is in the "Incubation Phase" under the ONF Member-Only Software License. Only ONF members in good standing are allowed access to the project repositories. We strongly recommend you review the ONF Member-Only Software License, License Overview, and Licensing & IPR FAQ before requesting access. Requesting access will initiate your company's **90 day grace period** and notify your company's primary contact. If you wish to be granted access to the repository, please contact membership@opennetworking.org.

Key People & Communication Channels

While the SD-Fabric project does not have an official Technical Steering Team (TST) yet, here are some key people to contact in the SD-Fabric team. For technical questions and discussion, we highly recommend posting to the mailing lists, where the entire community can benefit from the answer.

- Charles Chan, ONF (MTS, charles@opennetworking.org)
- Saurav Das, ONF (VP of Engineering, saurav.das@opennetworking.org)
- Pier Luigi Ventre, ONF (MTS, pier@opennetworking.org)
- Carmelo Cascone, ONF (MTS, carmelo@openetworking.org)

Mailing Lists

- SD-Fabric announcements (sdfabric-announce@opennetworking.org) https://groups.google.com/a/opennetworking.org/g/sdfabric-announce - Public SD-Fabric related announcements
- SD-Fabric developers (sdfabric-dev@opennetworking.org) https://groups.google.com/a/opennetworking.org/g/sdfabric-dev - ONF member-only developer mailing list (**NOTE**: you will need to request to be added with your valid ONF member company email alias. Approval may take up to 24 hours)

Slack

- Slack channel: #sdfabric-dev https://onf-community.slack.com/archives/C098ZTYLT This channel is currently ONF member-only (**NOTE**: you will need to request to be added with your valid ONF member company email alias. Approval may take up to 24 hours)

Community/Project Meetings

- There are currently no community/project meetings scheduled. Please join the above mailing lists and slack channels to carry on the conversation.

Additional Resources

To receive access to any of the below resources that are currently ONF member-only, please email membership@opennetworking.org to request access (**NOTE**: please refer to the Licensing Notice above first)

Google Drive (Public folder)

- No public drive yet

CLA

To contribute to SD-Fabric, both individuals and companies are required to submit a Contributor License Agreement (CLA).

Jira Board

- https://jira.opennetworking.org/secure/Dashboard.jspa?selectPageId=11103

Repositories

- The github repos can be found at :
  - Trellis/ONOS (all public)
    - https://gerrit.onosproject.org/plugins/gitiles/onos
    - https://gerrit.onosproject.org/plugins/gitiles/tost-onos
    - https://gerrit.onosproject.org/plugins/gitiles/trellis-control
    - https://gerrit.onosproject.org/plugins/gitiles/trellis-t3
    - https://gerrit.onosproject.org/plugins/gitiles/trellis-docs
    - https://github.com/onosproject/onos-helm-charts
  - Stratum
    - https://github.com/stratum/stratum
    - https://github.com/stratum/stratum-helm-charts
  - Fabric Pipeline for Tofino (TNA architecture)
    - https://github.com/stratum/fabric-tna (member-only)
  - Fabric Pipeline for BMv2 (V1Model architecture)
    - https://gerrit.opencord.org/plugins/gitiles/fabric-tofino (To be deprecated)
    - https://github.com/opennetworkinglab/fabric-p4test (To be deprecate)
  - Apps
    - https://github.com/omec-project/up4 (member-only)
    - https://gerrit.opencord.org/kafka-onos
  - Utils:
    - https://github.com/opennetworkinglab/sdfabric-utils (member-only)

We expect all ONF employees, member companies, and participants to abide by our Code of Conduct. If you have any questions or concerns, please notify a member of the ONF team or email conduct@opennetworking.org.