2022 LFN Developer Event Topics January

Dates January 10 -14, 2022

Session Info

- Plenary Topics
- OpenDaylight Topics
- ONAP Topics
- Anuket Topics
- Tungsten Fabric Topics
- XGVela Topics
- ODIM Topics
- EMCO Topics
- L3AF Topics
- 5G Super Blueprint Topics
- FD.io Topics

General Event Info

- **Registration**
- **Topic Proposals**
- **Schedule**
- **Slack**
- **Daily Summaries**
- **Event Survey**
- **Feedback events@lfnetworking.org**

Create a topic Proposal by clicking on the appropriate template creation button below. Topic Proposals are due December 3rd!

Create Plenary Topic

Create ONAP Topic

Create Anuket Topic

Create TF Topic

Create XGVela Topic

Create ODIM Topic

Create FD.io Topic

Create EMCO Topic

Create L3AF Topic

Create ODL Topic

Create 5G SBP Topic

Plenary Topics

- 2022-01-10 - Plenary: Consistent Documentation Standards — 60M
  The organization could benefit from a possible revamp/alignment of documentation standards. Open to any community that would like to participate, suggesting Anuket/ODL/ONAP particicpate.
- 2022-01-10 - Plenary: EUAG Future Direction — 60m Beth Cohen

  During this session we will discuss the future direction of the EUAG and its role within the LF Networking community.
- 2022-01-10 - Plenary: Event Welcome and Opening Comments — 30 Mins Heather Kirksey, Kenny Paul

  Event Kick-off and Logistics
- 2022-01-10 - Plenary: Intro to Open Source and LFN — 60 Mins, Heather Kirksey

  Overview of of open source participation at a high level as well as an overview of LFN's structure.
- 2022-01-10 - Plenary: Magma 5G - Exploring future feature development and testing topics — 60 Minutes, 11am ET Kader Khan Parthiban Nalliamudali

  Magma 5G - Exploring future feature development and testing topics
- 2022-01-10 - Plenary: Magma 5G - Understanding ongoing feature development and testing — 60 Minutes, 11am ET
  Kader Khan Parthiban Nalliamudali

  Magma 5G - Understanding ongoing feature development and testing
- 2022-01-10 - Software Bill of Materials - ONAP story — 30m Muddasar Ahmedand Pawel Pawlak

  SBOM is a software inventory and related descriptive information, a list of ingredients that make up software components. We will share with other LFN projects ONAP SBOM story
- 2022-01-11 - Plenary: Intelligent Networking testing and Certification —
  Explore aspects of intelligent networking testing and certification and find out how to promote related work in LFN

OpenDaylight Topics

- 2022-01-11 - ODL: Deploy ODL on K8s cluster — 45m, Anil Belur @Andrew Hsia Luis Gomez Rahul Sharma

  How to deploy a dockerized version of ODL on a K8s cluster and all the work done to achive this.
- 2022-01-11 - ODL: open talk about the current release process — 45m, Guillaume Lambert

  open talk about the current release process
- 2022-01-11 - ODL: Overview of TransportPCE feature — 45m, Gilles Thouenon and Christophe BETOULE

  Brief overview of TransportPCE roadmap
- 2022-01-12 - ODL: OpenDaylight Scale Architecture — 45min, manoj chokka and Konstantinos Kanonakis

  This topic is to propose and discuss a high level overview of the scale architecture by Verizon.
- 2022-01-12 - ODL: Planned extension of T-API module and integration of OpenConfig device models in T-PCE — 30m, Javier Errea Huy Tran Q.

This presentation will illustrate the current work being done to extend the capabilities of T-PCE

- 2022-01-12 - ODL: T-API contribution to T-PCE — 40m, Javier Errea Dominique Verchere

  Overview of T-API contributions to T-PCE
- 2022-01-13 - ODL: Tox jobs parallelization in OpenDaylight CI — 45m, Guillaume Lambert

  description of tox jobs parallelization and steps that were necessary to activate its support in TransportPCE functional tests

ONAP Topics

- 2022-01-11 - ONAP Security: Jakarta Global Requirements and Best Practices — 1 hour Byung-Woo Jun, Robert Heinemann, Tony Hansen , Pawel Pawlak , Amy Zwarico

  Proposed Agenda:

  1. **ONAP Security Requirements (25 mins)**
     a. **Version updates: package upgrades, Java/Python upgrades, infrastructure**
     b. **CII badging targets**
     c. **Integration base images**
     d. **Service-Mesh-Based mTLS communication between Components**
     e. **Authentication and Authorization Architecture**
  2. **Deep Dive: Logging architecture leveraging open-source logging framework (35 mins)**
     a. **The WHY of Security Logging**
        i. **Security Logging for Containerized Environments**
        ii. **Required log fields**
        iii. **Logging Metadata needed to support great security analytics downstream**
     b. **The HOW of Security Logging**
        i. **Log Generation thru STDOUT/STDERR**
        ii. **Log Collection, Aggregation, Persistence and Visualization Roadmap**

- 2022-01-11 - ONAP TSC Task Force: ONAP For Enterprise Business — Share the latest updates about ONAP For Enterprise Business Roadmap, accomplishments and current activities.
- 2022-01-11 - ONAP: CNF failover by ONAP CDS and Policy components —

  The presentation will show how a CNF failover scenario of UPF can be executed with ONAP CDS and Policy Framework.

- 2022-01-11 - ONAP: 2022 TSC priorities and Action Plan — Informal meeting to bring the ONAP TSC members together to review 2022 TSC priorities and action plan

- 2022-01-11 - ONAP: CDS Error Handling in Production deployments — 15m, Vivekanandan Muthukrishnan

  Handling various error scenarios in real life production deployment of CDS.
- 2022-01-11 - ONAP: CM notification handling in SDN-R demo and tutorial — 30m, Jakub Dominik, Rafal Wrzesniak, Marcin Sebastian Krasowski

  We would like to demonstrate latest addition to SDN-R to enable handling of CM notifications in SDN-R.
- 2022-01-11 - ONAP: CNF Orchestration Tutorial — 40 min + 20 min for question Lukasz Rajewski Marcin Sebastian Krasowski Seshu Kumar Mudiganti

  The purpose of this interactive session is to show the capabilities of the CNF Orchestration in ONAP and its latest additions. Moreover, we want to socialize more with the solution and to show on basic examples what needs to be done in order to onboard your own CNF into ONAP.
- 2022-01-11 - ONAP: Code quality demo — 30m, Kevin Sandi fabian rouzautand Pawel Pawlak

  We will share the improvement mechanism we developed as PoC for ONAP to automatically improve the committed code quality before its merge.
- 2022-01-11 - ONAP: Database Upgrade and Rollback in Policy Framework — 30m Kevin Timoney

  Upgrade and rollback of database objects to work with required ONAP release
- 2022-01-11 - ONAP: Disaster management for ONAP — 30m, To backup and restore Kubernetes cluster resources and persistent volumes.
- 2022-01-11 - ONAP: Joint SDO Modeling Workshop — 60 minutes, Hui Deng

  Proposed Agenda:

  1) Container model (40 min)

  1.1 CNF runtime progress & plan

  1.2 ETSI progress

  2) topology model (20 min)

  2.1 O-RAN

  2.2 MEF

- 2022-01-11 - ONAP: Release Process Review and Istanbul Retrospective — 30 min David McBrideReview release process changes that were implemented during the Istanbul release

  30 min David McBrideReview lessons learned during the Istanbul release

- 2022-01-11 - ONAP: TOSCA Defined Control Loop Lifecycle Management Demo — 60m, Liam Fallon

  Presentation and Demo of TOSCA defined Control Loop LCM
- 2022-01-12 - ONAP: Application Service Descriptor (ASD) for K8s NFs — 60 minutes Marian Darula

  In today, many complex applications are consisting in a mixed, complex workload, that is described in many Kubernetes resources, e.g. to be run on a certain cluster, etc. In order to deploy the application, the orchestration task would be requiring dealing with different abstract layers of resources, different templates system mapping, and application packaging. Another challenge is to keep up with changes in the cloud infra structures features enhancement mapping into abstract resource template.

  Application Service Descriptor (ASD) provides simplified way of modelling and packaging of NFs:

  - It's an alternative to complex ETSI MANO based approach.
  - Relies on cloud native modeling tools (e.g. helm),complemented by slim descriptor layer providing information which cannot be conveyed via native modeling tools (e.g. networking related information)
  - Not repeating information from the native tools.
  - Utilizing established standards where applicable (e.g. TOSCA for the schema definition, the CSAR structure based on SOL004ed431 format).
- 2022-01-12 - ONAP: ASD and Application Onboarding and LCM Orchestration — 45 minutes, Byung-Woo JunMichael Morris

  Proposed Agenda:

  1) ASD and Application Onboarding and Distribution in ONAP (25 mins)

  1.1 ASD and Application Onboarding to SDC

  1.2 Application Onboarding Package Distribution in ONAP

  2) ASD-Based CNF LCM Orchestration (20 mins)

  2.1 LCM Orchestration Architecture

  2.2 ASD-Based CNF Deployment leveraging Helm Chart

- 2022-01-12 - ONAP: Autonomous Networks Multi-SDO Initiative — 30 m, Magnus Buhrgard

  Discussion on a proposed ONAP presentation in the Multi-SDO AN open meeting series
- 2022-01-12 - ONAP: Deutsche Telekom Portal presentation — Presentation of DT's "TNAP" portal architecture and demo
- 2022-01-12 - ONAP: E2E Network Slicing Use case - Istanbul Release Highlights and Demo — 60m, LIN MENG, Ahila P

  Overview of the features achieved in Istanbul release and the demo on E2E Network Slicing use case will be covered in this session.
- 2022-01-12 - ONAP: How DT deploys ONAP with the help of Argo CD
- 2022-01-12 - ONAP: SO-CSIT Enhancements — Migrate CSIT framework from docker-compose to helm based deployment and test.
- 2022-01-12 - ONAP: SO-KPI Monitoring and Task Tracker — Track Service Instantiation data for Analytics.
- 2022-01-12 - ONAP: Stability, Resiliency and Stress tests — 30m Morgan Richomme

  Overview of stability and resiliency tests since Guilin
- 2022-01-12 - ONAP: Unmaintained code handling and its impact on documentation — 30 min, Thomas Kulik Pawel Pawlak

  Discussion across ONAP community on how to handle unmaintained code and how it impacts ONAP documentation. Best practices from other projects are welcome.
- 2022-01-13 - ONAP: Intent-driven CCVPN usecase — 50m, Dong Wang

  A demo of intent-driven CCVPN usecase developed in Istanbul release.
- 2022-01-13 - ONAP: ONAP data provider presentation and short demo — 30m Michal Jagiello

  Demonstration of *ONAP data provider* to create resources in declarative way.
- 2022-01-13 - ONAP: ONAP on Service Mesh status update — 60m, Sylvain Desbureaux

  Status update on the OOM journey to Service Mesh
- 2022-01-13 - ONAP: ONAP-based SMO in 5G Berlin Test Network — 30m Martin Skorupski

  The non-profit association Innovation Cluster 5G Berlin is building a 5G test network in the center of the German capital. ONAP is being used as the platform for Service Management & Orchestration (SMO).

- 2022-01-13 - ONAP: OOM journey from Gerrit / Jenkins to Gitlab — 30m, Sylvain Desbureaux

  OOM projects are moving from Gerrit / Jenkins to Gitlab. This session will show what was needed to be done and the lessons learned
- 2022-01-13 - ONAP: Orchestration of xNF Based 5G Service —

  50 min of demo + 10 min for questions, partially live with an interactive demonstration of particular steps of the demonstration. Topic leader Lukasz Rajewski

The session will demonstrate the orchestration of 5G service on thxNF based Free5GC solution, which will utilize the latest additions for CNF ORchestration in ONAP and PNF Plug&Play capabilities of ONAP, with PNF reconfiguration support. Onboarding of 5G Core CNF, its instantiation, configuration, status verification, and scaling will be shown, jointly with registration and reconfiguration of the 5G RAN PNF - all in one continuous process managed by ONAP.

- 2022-01-13 - ONAP: Performing an Interim Agile Release, Experiences from the Policy Framework Project — 30m, Liam Fallon

  Experiences on performing an interim agile release in the Policy Framework project
- 2022-01-13 - ONAP: Policy Framework Update — 60m Liam Fallon and the contributors to the Policy Framework Project

  In this session we will present the main highlight from the Policy Framework in the Istanbul project and describe what's coming up in the Policy Framework in the Jakarta release.
- 2022-01-13 - ONAP: RAN Simulation for ONAP and OSC Use Cases —
  This presentation is a discussion of open-source radio access network (RAN) simulations which are used to develop and demonstrate ONAP and OSC end to end use cases.
- 2022-01-13 - ONAP: TCC Generic Network Management — 45 m, Update on Technical Community Coordination - Network Management
  Summary of interactions with TM Forum and ETSI ZSM. Presentation of proposed PoC activities.

Anuket Topics

- 2022-01-11 - Anuket: Hybrid Multi-Cloud Infrastructure — 60m
  Present current state of modelling Hybrid Multi-Cloud Infrastructure in Anuket Lakelse specifications in view of evolving telecommunications industry, and lead an open discussion on the topics requiring attention in future Anuket releases.
- 2022-01-11 - Anuket: Lakelse Retrospective — 60m / David McBride

  Lakelse Release Retrospective
- 2022-01-11 - Anuket: RA-1 (OpenStack based) What's next? — 60 minutes
  The intent is to solicit inputs for RA-1 in order to adjust the content of Moselle release.

  Topics of interest: what else, acceleration, Telco edge cloud, multi-cloud/hybrid cloud, storage, and automation
- 2022-01-11 - Anuket: RA2 Status — 60m Riccardo Gasparetto Stori

  What's new in Anuket RA2 - Cloud Native Reference Architecture in the Lakelse release & community discussion for Moselle release
- 2022-01-12 - Anuket: AI/ML for NFV Usecases - Failure Prediction Models — Girish L Rohit Singh Rathaur30m

  AI/ML for NFV Usecases
- 2022-01-12 - Anuket: Anuket Assured - How can we deliver on the Anuket Value Proposition for Cloud Infrastructure and Cloud Native Workloads? — 90m, Lincoln Lavoie, Scot Steele

  Review the current Anuket value proposition, what has been accomplished thus far, what remains to be completed, and determine what we can accomplish in 2022.
- 2022-01-12 - Anuket: DevIntOps -- Agile Delivery of NFV — 30m
  Brief introduction about Telco-vendors collaboration pattern - DevIntOps, which would leads to faster delivery and better quality of NFV in production ENV.
- 2022-01-12 - Anuket: RC2 Glossary Definition & Path Forward — 60m
  The RC2 project is in need of revamping. This hour will focus on 2 topics:

  1) Defining a glossary of terms to support common understanding between RA, RC, and Rel Mgmt.

  2) Identifying a path forward for the project to ensure the RA, RI, and RC project teams are in sync.

- 2022-01-12 - Anuket: RI2 - Path Forward — 60m
  The intent of this session is to focus on the following topics -
  - What is the value of the RI2 Project in Anuket?
  - How can we increase the value of RI2?
    - Workload testing as part of Anuket Assured
    - Collaboration with other LFN projects
    - Collaboration with other projects outside of LFN
  - Where do we go on from here, i.e. what are the expectations?
    - How to fill the gaps between RA2 and RI2?
    - How to achieve full RC2 compliance in CI?
  - What are the challenges?
    - Onboarding of a workload in Anuket
    - Requirements for CNFs
- 2022-01-13 - Anuket: Thoth Shared Data Model for Intelligent Networking — Beth Cohen Sridhar Rao60m

  Discussion of how to create a common data model to support AI/ML for Intelligent Networking
- 2022-01-13 - Anuket: Traffic & Load Generators as Pods - Opportunities and Challenges — For Inter-pod dataplane performance analysis, it becomes mandatory to run Traffic-generators as Pods. In this talk we will present the opportunities and challenges considering these scenarios and opensource tools.

Tungsten Fabric Topics

- 2022-01-12 TF: Collaboration between Akraino and Tungsten Fabric Communities — Lets discuss as to how both Akraino and Tungsten Fabric communities can leverage from each other and collaborate with each other

- 2022-01-13 - TF: Tungsten Fabric Deployment Walkthrough — This session will cover two common installation procedures of Tungsten Fabric. Both OpenStack and Kubernetes deployments will be covered, and demonstrated to show how new users and developers can get their own TF labs up and running.

XGVela Topics

- 2022-01-13 - XGVela: Microservice UPF design experience and interactions with PaaS platform — 60min
  During the last two month, China Mobile has finished a project to redesign a monosomic UPF using microservice architecture and tools. During this design, the team has summarized several reusable PaaS functionalities and a complete OAM structure for network functions, within which XGVela code CMaaS and TMaaS has been verified. So within this session, Qihui will share the experience they get from microservice UPF design and explain the interactions happened among UPF and selected PaaS functions, which are mainly OAM functions and XGVela CMaaS and TMaaS.

ODIM Topics

Content by label

There is no content with the specified labels

EMCO Topics

- 2022-01-11 - EMCO: Hands-on experience with demo application. — 60m
  11:30am ET

  EMCO Usage and Deployment of demo application on distributed environment.
- 2022-01-11 - EMCO: Logical Clouds — 60m
  10:30am

  Geo-distributed application/network service-deployment requirements are being driven by Enterprise and Telco requiring presence across multiple geographical locations. There shall be a need to consistently create users, assign roles and give permissions for deploying geo-distributed applications/services across multiple Kubernetes clusters. Moreover, multi-tenancy requirements necessitates auditability, correctness and operational isolation. Automation is the way to ensure the consistency, isolation and auditability
- 2022-01-11 - EMCO: Project overview and Architecture — 60m
  9am ET

  EMCP project was inducted in LFN in Oct 2021. In this session, we will introduce you to EMCO project. Specifically, we will talk about

  - Drivers for Edge Computing
  - How EMCO addressing challenges of Disaggregation of application
  - EMCO features at high level
  - EMCO architecture overview
  - OpenAPIs exposed by EMCO and brief overview
  - EMCO use case examples - firewall and Prometheus installation across multiple edge clusters.

- 2022-01-12 - EMCO: Automated Traffic Routing to MEC Application instances — 60m Ravi Chunduruand Nadathur Sundar, please modify as necessary.

  9am ET

  This talk will present

  - Multiple MEC Application deployment scenarios
  - Automation needed to address these multiple scenarios.

  See Agenda herein for more detail
- 2022-01-12 - EMCO: Lessons in deploying free5GC in K8s clusters from EMCO — 60m
  10:30am ET

  EMCO is feature rich and we thought we can deploy free5GC in a very short time. But, it took us few weeks to make free5GC deployable on K8s clusters from EMCO. This session will describe the journey.

  See Agenda herein for additional detail.
- 2022-01-12 - EMCO: Synchronizing resources with target clusters via git — 60m Adarsh Chittilappilly Ritu Sood

  11:30am ET

  EMCO releases till now are able to synchronize the application & network-service resources to target K8s clusters via K8s APIs. Many cloud service providers and a few Telcos have started to use Git mechanism for placing application/network-service K8s services and letting the target cluster (via tools such as fluxv2, ArgoCD) to pull the resources from Git and apply those resources locally. GitOps tools such as fluxv2, ArgoCD also has ability to periodically check Git repos for any updates, get hold of differences and apply only differences locally.

A request to the EMCO team is to add all application/network-services collected via various controllers to the Git repositories and inform the target cluster. In this presentation, we will talk about how Microsoft ARC, Google Anthos and GitOps tools work, and EMCO RSYNC design changes to support GitOps based target clusters.

- 2022-01-13 - EMCO: Edge Relocation with EMCO — 30 min Grzegorz Panek

  9:30am ET

  The purpose of this session is to introduce the topic of Edge Relocation and how it might be realized using EMCO.
- 2022-01-13 - EMCO: Multidomain orchestration using Terraform & ONAP CDS — 30m, Vivekanandan Muthukrishnan Oleg Berzin

  9am ET

  Integration of EMCO with Terraform, Camunda workflows & CDS, to perform multidomain orchestration
- 2022-01-13 - EMCO: Orchestration of Magma — 30m, Yogendra Pal

  8am ET

  Orchestrating Magma using EMCO and ONAP CDS
- 2022-01-13 - EMCO: Service Upgrade/update using GUI — 30m, Sandeep Sharma

  8:30am ET

  Upgrade and update of network service using EMCO
- 2022-01-13 - EMCO: SFC automation — 60m, 1/13, Eric Multanen

  11am ET

  SFC automation at the edge with EMCO
- 2022-01-13 - EMCO: VNF life cycle management with EMCO and Kubevirt — 30m
  10:30am ET

  Earlier version of EMCO was only able to do the life cycle management of network services with CNFs and CNAs (Cloud native applications). Kubernetes community started to support VNFs and VM based Application using few projects such as Kubevirt. In this session, we will present our experience in deploying CGNAT VNFs on multiple K8s clusters with EMCO. As part of this, EMCO team helped by developing few enhancements in EMCO.

  See Agenda herein for more detail on this session.

L3AF Topics

- 2022-01-13 - L3AF: eBPF for Windows and Cross Platform eBPF programs —
  Thurs 01/13, 12noon to 12:30 ET

  30m, @Poorna Gaddehosur,Daniel Havey

5G Super Blueprint Topics

- 2022-01-12 - 5G SBP: Realizing multiple network slices & MEC Apps in each slice with LFN/LFE/CNCF projects — 60m Palaniappan Ram

  8am ET

  In this presentation, we will talk about how we have created a functional network slicing E2E demo with all open source projects, EMCO capabilities, automation required to support various 5GC deployments, and what else is needed for 2022 planning.

FD.io Topics

- 2022-01-13 - FD.io: CSIT Performance Benchmarking, Anomaly Detection, Results Tracking. — 60m
  Title: FD.io CSIT Performance Benchmarking, Anomaly Detection, Results Tracking.