

Topic Proposals, June '19

Event Mailing list: <https://lists.lfnetworking.org/g/2019-Stockholm>



To add topics there are 2 steps:




1. Add your topic to the table below
2. Add the presentation of your topic to the [schedule](#)




Failure to perform BOTH steps may result in no presentation in Kista.



- Event Logistics
- The Automatic Deployment of vCPE TOSCA with HPA
- A proposal about single management platform for edge cloud
- Key research and technology related to C-RAN/O-RAN network
- Kubernetes based cloud region support to deploy all kinds of deployments - VNFs, CNFs, IT application micro-services
- Container infrastructure for CNFs
- Opendaylight scalability issues in super scale data center
- Experience Sharing of Hardware acceleration in China Mobile
- OPNFV Rocket project in dataplane acceleration
- All you need to know about the building block workflows in Service Orchestrator.
- ONAP Documentation
- Sweetcomb: Unified Management Interface and Integration
- Release process improvements
- Modeling Subcommittee
- The ONAP Policy Framework Enhancements
- Showing the capabilities of New Policy Components in an oom installation of ONAP
- PNF software upgrade
- Control Loop Frankfurt Planning
- Control Loop functional requirements Deep Dive
- 5G Provisioning management service to NRM
- Review of ONAP Security Requirements
- ETSI SOL003 Adapter Plugin support for SVNFM and Enhancement
- Demo of VNFM Adapter and SO-Monitoring
- ONAP Offline installer
- ONAP and CNCF
- OPNFV TSC
- ONAP Usecasesub and EUAG joint workshop
- Experience Sharing of Trustworthiness Improvement In ONAP Development
- ONAP Operations Manager Enhancements
- Edge Automation WG
- VNF Application Configuration in ONAP
- ONAP El-Alto Prioritization
- What should be the ONAP TSC Priorities for the next 6 months?
- FlexRAN Onboarding to ONAP
- Developer Unconference
- AAI Data Model / Visualization Tools / Graph Traversals
- ONAP TSC Meeting
- Experiences in switching to Alpine Linux and upgrading to Java 11
- ONAP Platform with network security as an application
- SO Multicloud Plugin adapter usage and plans
- ONAP Orchestrated SD-WAN & Edge
- Running ONAP on Public Cloud
- OpenLab El Alto/Frankfurt Planning
- Unified Parser/Catalog in ONAP
- VF-C Dublin Highlights and Commercial Application
- Thinking of PNF Software Upgrade Using Ansible
- Intelligent Automation with ONAP
- 5G Slicing Mgmt with ONAP
- OOMP CD Gating Feedbacks
- Architecture brainstorm on Modularization
- ONAP Architecture Priorities for Release F
- Improve ONAP tests and remove specific use-cases artifacts from ONAP components code
- ONAP Versioning
- Heat and TOSCA VNF validation program
- ONAP TOSCA VNF Compliance and Validation MVP Requirements
- ONAP pentest summary
- Kubernetes security guidelines automated validation
- Online runtime dependency removal proposal
- ONAP + Service Mesh
- ONAP El Alto Security SoW proposal
- Vulnerability Management process review
- CII Badging - best practices of best practices
- ONAP SECCOM F2F
- Using dockerhub's public registry for CI/CD builds - An ONAP use-case



- Extending CCSDK : adding a new plugin
- Network Management community coordination
- Architecture Items for Release E
- Lab as a Service Proposal and Discussion
- Robot Testing Enhancements in Dublin and Plans for EI Alto
- Certificate management and Secure Storage discussion
- Reverse engineering of data models -- how and why
- Hello World Closed Loop (CDS and Policy aka APEX integration)
- Evolution of LCM support in SO and controller for R6
- xNF License Management and ONAP
- Contributing to ONAP from a beginner's perspective
- Model driven ONAP
- Review status of ONAP architecture task forces and next steps
- Documenting ONAP Architecture
- Three best practices that will improve your container development experience
- Open source impact on the telecom industry
- Closing Remarks LF + TSC Chairs
- OPNFV Release Plan and Iruya Planning
- API Gateway/API Fabric Proposal
- CDAP - Data Analytics framework in ONAP
- ONAP-DCAE Dublin Features + Demo
- ONAP COP Exam
- BBS Use Case Demo/Q&A
- 4th ETSI NFV Plugtests Summary & Learnings for ONAP
- ONAP OOM GUI based installer




Presenter	Session Title	Session Type	Short Description / Presentation / recording	Top 3 points / outcomes	Primary Audience
Use @ Macro		<i>discussion, demo / preso, working session, team mtg, workshop /training</i>			LFN Project name(s)
Ignacio Más, Senior Expert head of technology innovation in OS Heather Kirksey Catherine Lefevre Kenny Paul David McBride	Welcome From Ericsson		<div>  ONAP_Dev...mmit.pdf </div> <div>  Welcome.mp4 </div>		




	Event Logistics		 2019-Stoc...stics.pdf		
Huang Haibin	The Automatic Deployment of vCPE TOSCA with HPA	workshop & demo	Introduce how to automate deploy vCPE of TOSCA with HPA use case.  The Auto...HPA.pptx  The Auto... HPA.mp4		ONAP
Qihui Zhao	A proposal about single management platform for edge cloud	presentation & discussion	Share some conclusion about test on edge virtualization layer (plan selection included) and discuss about an edge management platform and its necessary functions. Zoom Recording A proposal about single management platform for edge cloud.pdf		any
weichen ni	Key research and technology related to C-RAN/O-RAN network	discussion	Discuss about the relative research and technology on C-RAN/O-RAN network including virtualized RAN with white box pico-station, potential MEC scenario with virtualized RAN, Radio Intelligent Controller with virtualized RAN. 2019plugfest_C-RAN.pdf Zoom Recording C-RAN		OPNFV & O-RAN
Srinivasa Addepalli	Kubernetes based cloud region support to deploy all kinds of deployments - VNFs, CNFs, IT application micro-services	Presentation and Discussion	Present the work done as part of ONAP R4 & OPNFV OVN4NFV project and propose new features in ONAP R6 and OPNFV such as : Multi-Cluster scheduler to schedule applications across multiple sites, Matching engine to identify sites with edge labeling and K8s operator support etc... Also, will present some use cases and expectations on how they need to get deployed and how ONAP R6 work takes care of these deployments https://wiki.onap.org/download/attachments/60889650/CloudNativeNFVONAP_R6_LFN_DDF.pptx?api=v2		ONAP & OPNFV





<p>Samuli Silvius</p> <p>Maciej Gawel</p>	<h1>Container infrastructure for CNFs</h1>	<p>Presentation + Discussion</p> <p>Present current Samsung experiences with CNF infrastructure (outside of ONAP) and discuss how it applies to and can be leveraged in ONAP solution.</p> <div data-bbox="548 222 849 522">  <p>LFN ONAP CNF.pdf</p> </div> <div data-bbox="548 556 849 854">  <p>ONAP_ser...etes.pdf</p> </div> <div data-bbox="548 921 849 1222">  <p>zoom_Co...NFs.mp4</p> </div>	<p>ONAP & OPNFV</p>
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@ Yi Yang	Opendaylight scalability issues in super scale data center	Presentation + Discussion	<p>In industries, many commercial SDN products have been rolled out based on Opendaylight, but Opendaylight community release is not ready to enter super scale data center which has 1000+ servers, reliability, horizontal scalability and performance are fundamental requirements, this presentation will point out current scalability issues and possible solutions and propose some effort directions in the future ODL development, also encourage PTLs can participate in discussion and elaborate scalability issues in every project and propose some good solutions. Cloud data center is a critical area Opendaylight must take care of if we want to keep Opendaylight successful continuously.</p> <div>  <p>Opendayl...nter.pdf</p> </div> <div>  <p>opendayl...nter.mp4</p> </div>		Opendaylight OPNFV
shasha guo	Experience Sharing of Hardware acceleraion in China Mobile	Presentation + Discussion	<p>Present the work done about hardware acceleration In China Mobile, such as the the OVS offloading test, Also will present some focus about future research.</p> <p>Experience sharing of hardware acceleration in China Mobile.pdf</p>		OPNFV & ONAP
shasha guo	OPNFV Rocket project in dataplane acceleration	Presentation + Discussion	<p>Present the desigh thought of common API for hardware acceleration in dataplane. Discuss about th GTP offloading requirement and procedure of VNF, the common API may be use in this pcedure.</p> <p>OPNFV Rocket project in dataplane acceleration.pdf</p>		OPNFV&Edge
Seshu Kumar Mudiganti	All you need to know about the building block workflows in Service Orchestrator.	Presentation + Discussion	<p>This discussion / presentation will give insights to understand the concepts and implementation details behid the SO building blocks, the idea is to make it as simple as possible for someone new to ONAP able to appreciate and use the existing building blocks and futher build / enhance their own on the top.</p> <p>SO Building blocks.pdf</p>		ONAP





Sofia Wallin	ONAP Documentation	Work session	<p>Short term and long term improvements. Followup on ongoing activities. El Alto planning.</p> <p>API Documentation Eric Debeau : lessons learnt from existing Documentation. Proposal to verify API compliancy and to use another visualisation tool for API documentation</p> <p>Security and Documentation Eric Debeau , Natacha Mach , Pawel Pawlak : How to better document the various ONAP components and their open ports.</p> <p>Archi and Documentation Stephen Terrill : how to join efforts for a better documentation. Architecture project started to describe functional view of various ONAP components. How can we use it for official documentation ?</p> <p>End to End Documentation Andreas Geissler Thomas Kulik Eric Debeau : How to better describe how to use ONAP</p> <p>Structure of Documentation Andreas Geissler Thomas Kulik : Proposal for discussion (see here; please download and open in browser)</p> <p>Review of documentation milestones & documentation release process Jim Baker Catherine Lefevre Sofia Wallin</p>		ONAP
Junfeng Wang Hongjun Ni Will share online, sorry for that we cannot go there.	Sweetcomb: Unified Management Interface and Integration	Presentation + Discussion	<p>Sweetcomb is an open source project, to provide an unified management interface to configure and telemetry Appliances, VNFs and CNFs.</p> <p>It can be leveraged in Edge Networking and Cloud, such as SD-WAN, 5G, IoT, etc.</p> <p>There are 12 industry founders, including Intel, Cisco, Pantheon Technologies, Huawei, Tencent, Alibaba, China Mobile etc.</p> <p>It has published two official releases so far. https://wiki.fd.io/view/Sweetcomb</p> <p>The architecture and the implementation of the ONAP Policy Framework was substantially upgraded in the ONAP Dublin release. In this talk, we present the evolved ONAP Policy Framework discussing the most important improvements, and describing the evolved architecture of the Policy Framework. We highlight the power of TOSCA Policy Types and how they can be used to build translation applications.</p> <p>This session will introduce Sweetcomb project and cover key elements:</p> <ol style="list-style-type: none"> 1) Provides gNMI interface and OpenConfig Yang models for Cloud. 2) Provides NETCONF & RESTCONF interfaces and IETF Yang models for Telecom. 3) Can Support different Data Planes, such as VPP, DPDK, Linux Kernel and OVS. 4) Can integrate with SDN Controllers and Orchestration, such as ONAP, K8s, ODL and ONOS, etc. 5) Supports High Availability and real-time streaming telemetry in Containers. 		FD.io, OpenDaylight, ONAP, TF, OPNFV.
Jim Baker	Release process improvements	presos and discussion	<p>Two main topics:</p> <ol style="list-style-type: none"> 1. El Alto milestones and release plan 2. Frankfurt milestones and release plan <div data-bbox="548 1253 852 1556">  <p>El-Alto_p...nning.pdf</p> </div> <div data-bbox="548 1581 852 1883">  <p>ONAP-rel...ment.mp4</p> </div>	<p>Minutes: https://wiki.onap.org/display/DW/TSC+2019-06-13+DDF+Release+Process+notes</p>	ONAP


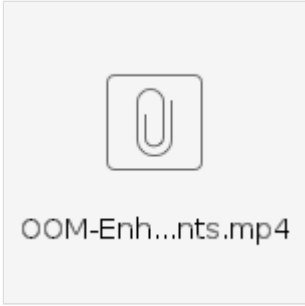

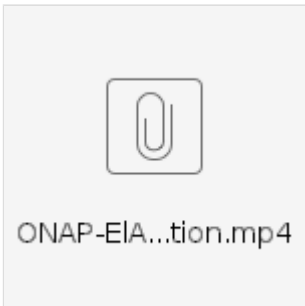
<p>Andy Mayer</p> <p>Hui Deng</p>	<p>Modeling Subcommittee</p>	<p>team mtg</p>	<p>Modeling subcommittee weekly meeting</p> <div>  <p>Service+ ...0611.pdf</p> </div>		<p>modeling subcommittee</p>
<p>Pamela Dragosh</p> <p>Liam Fallon</p>	<p>The ONAP Policy Framework Enhancements</p>	<p>Presentation + Discussion</p>	<p>The architecture and the implementation of the ONAP Policy Framework was substantially upgraded in the ONAP Dublin release. In this talk, we present the evolved ONAP Policy Framework discussing the most important improvements, and describing the evolved architecture of the Policy Framework. We highlight the power of TOSCA Policy Types and how they can be used to build translation applications.</p> <div>  <p>zoom_0.mp4</p> </div>		<p>ONAP</p> <p>Anyone who uses or may use the Policy Framework</p>
<p>Ram Krishna Verma</p> <p>& "The Policy Team"</p>	<p>Showing the capabilities of New Policy Components in an oom installation of ONAP</p>	<p>Demo /Workshop</p>	<p>Present the new components of Policy Framework using an OOM deployment of ONAP.</p> <p>Go through each of them one by one explaining the deployment structure.</p> <p>And then finally showing a demo of creating & deploying policy in a pdp engine using the new architecture.</p> <p>Note: Recording is covered in the one just above this one.</p> <p>The postman collection used for demo is attached below.</p> <div>  <p>LFN-DDF-Worksho...collection.json</p> </div>		<p>ONAP</p> <p>Anyone who uses or may use the Policy Framework</p>




Zu Qiang (Ericsson)	PNF software upgrade	Presentation + Discussion	Support PNF in-place software upgrade in ONAP Frankfurt		ONAP
			 PNF upgra...kfurt.pdf		
			 PNF Upgr...-12).mp4		
Gervais-Martial Ngueko Control Loop Sub Committee	Control Loop Frankfurt Planning	Presentation	Presentation of each of the functional requirements being proposed for Frankfurt releases. 5-15 minutes per functional requirement. https://wiki.onap.org/display/DW/Control+Loop+Sub+Committee+Frankfurt+Release+Planning	recording of the session: Ctrl-Sub Committee FrankFurt planning session recording	ONAP+
Gervais-Martial Ngueko Control Loop Sub Committee	Control Loop functional requirements Deep Dive	Working Session	Working session deep dive into 1-3 functional requirements. 20 minutes per topic. https://wiki.onap.org/display/DW/Self+Serve+Control+Loops - Gervais-Martial Ngueko https://wiki.onap.org/display/DW/Metadata+Driven+Control+Loops - Liam Fallon https://wiki.onap.org/display/DW/PNF+support+in+Control+Loops - Liam Fallon	recording of the session: June_SwedenDDF_CtrlLoop_DeepDive.mp4	ONAP
yaoguang wang	5G Provisioning management service to NRM	Presentation + Discussion	Based on the current CDS mechanism, present the support of provisioning management service, especially for 5G RAN NRM.  201906_...NRM.pdf		ONAP




<p>Samuli Kuusela, Security Sub-Committee</p>	<p>Review of ONAP Security Requirements</p>	<p>Working session</p>	<p>Everyone is welcome to join! And give written comments in Jira, see link below.</p> <p>This is continuation of review of the ONAP Security requirements. We use Jira tickets for conducting the reviews: https://jira.onap.org/browse/SECCOM-103?atl-project%20%3D%20SECCOM%20AND%20labels%20%3D%20ONAPSECURITYREQUIREMENT%20ORDER%20BY%20created%20ASC. As of May 16, requirements up to & including Jira ticket SECCOM-164 have been reviewed.</p> <div data-bbox="548 268 850 571">  <p>ONAP sec...6-11.mp4</p> </div> <div data-bbox="548 600 1050 1100">  <p>Review of ONAP...2019-06-12.mp4</p> </div>		<p>ONAP</p>
<p>Byung-Woo Jun, @Michael Morris. @Gareth Roper, Seshu Kumar Mudiganti Yan Yang</p>	<p>ETSI SOL003 Adapter Plugin support for SVNFM and Enhancement</p>	<p>Presentation + Discussion</p>	<p>Presentation of ETSI SOL003 Adapter Plugin support for SVNFM and adapter enhancement roadmap for EI Alto and Frankfurt</p> <ul style="list-style-type: none"> ■ Architecture and Features ■ Technical debt ■ Refactoring for Frankfurt ■ Futuristic thoughts around the SOL003 adapter and its possible placement in the ONAP deployment (Food for thought) <ul style="list-style-type: none"> ■ Possible placement options ■ Package Management based on SOL005 and SOL003 ■ ETS Catalog DB support for NS, VNF and PNF <div data-bbox="548 1316 850 1619">  <p>ONAP SOL...nal.pptx</p> </div> <div data-bbox="548 1648 850 1950">  <p>ETSI-SO...NFM.mp4</p> </div>		<p>ONAP</p>





<p>@Michael Morris,</p> <p>@Gareth Roper</p>	<h2>Demo of VNFM Adapter and SO-Monitoring</h2>	<p>Demo /Workshop</p>	<ul style="list-style-type: none"> Demo of Dublin VNFM Adapter from SDC to VNF Demo of SO-Monitoring with VNFM work as an example <div>  <p>Demo of ...ring.mp4</p> </div>		ONAP
<p>Mateusz Pilat</p> <p>Michal Ptacek</p>	<h2>ONAP Offline installer</h2>	<p>Presentation + Discussion</p>	<p>Introduction</p> <ul style="list-style-type: none"> architecture procedure <p>What has change since last DDF meeting</p> <ul style="list-style-type: none"> introducing Integration tests Ansible installer for Cassablanca <p>Future plans for El-Alto and beyond</p> <ul style="list-style-type: none"> establish community CI offline builds (including automated offline platform build) align offline installer with community life cycle challenges, concerns <p>Offline installer in Read the Docs: link</p> <div>  <p>OOM_ONAP...ista.pdf</p> </div> <div>  <p>ONAP-Offl...aller.mp4</p> </div>		ONAP





Sylvain Desbureaux	ONAP and CNCF	<p>Presentation +</p> <p>Discussion</p>	<p>ONAP has identified a new coordinator role to better interact with CNCF</p> <p>Presentation of potential CNCF components that could be used for ONAP and potential impacts on ONAP architecture.</p> <p>Discussion about CNF testbed and how we can re-use it</p> <div>  <p>ONAP and...CNCF.pdf</p> </div> <div>  <p>ONAP -a...NCF.mp4</p> </div>	<p>CNCF has a lot of infrastructure projects that we could reuse inside ONAP</p> <p>CNCF start works on CNF and we should work together on this topic</p> <p>ONAP Journey to Cloud Native is ongoing</p>	ONAP
David McBride	OPNFV TSC	Team Meeting	Regular meeting of the OPNFV TSC		OPNFV
Alla Goldner Atul Purohit	ONAP Usecasesub and EUAG joint workshop	presentation + discussion	<p>we will discuss SP priorities as brought to EUAG and requirements coming from ONAP member companies to set priorities and scope for Frankfurt Release</p> <div>  <p>EUAG-Us...ses.mp4</p> </div> <div>  <p>Orange Pr...ities.pdf</p> </div>	<p>EUAG 2019-06-04 Meeting notes</p>	ONAP





Jing Lu	Experience Sharing of Trustworthiness Improvement In ONAP Development	Presentation + discussion	<p>Introduction Huawei open source team's effort in assuring code and docker security by adopting open source tools in development, such as coverity and anchore.</p> 		ONAP, OPNFV
Mike Elliott Lucjan Bryndza	ONAP Operations Manager Enhancements	Presentation and Demo	<p>OOM Enhancements for EI Alto and Frankfurt releases. Includes demo of ONAP Operations Manager Dashboard.</p> 		ONAP
ramki krishnan , Srinivasa Addepalli , Mike Elliott , Vijay Venkatesh Kumar	Edge Automation WG	Presentation + Discussion	<p>Community Updates</p> <ul style="list-style-type: none"> Akaino Collaboration - SD-WAN Blueprints etc. <p>Progress on https://wiki.onap.org/display/DW/Edge+Automation+through+ONAP+Arch.+Task+Force++Distributed+Management+%28ONAP+etc.%29+components</p> <ul style="list-style-type: none"> Plans for Frankfurt Releases Related presentations; OOM Enhancements (Mike Elliott), K8S Cloud Region Support 		ONAP
Katsia Kazak	VNF Application Configuration in ONAP	Presentation + discussion	<p>How ONAP is going to handle VNF Application Configuration? As ONAP is already introducing SOL003 and SOL005, it is worth introducing SOL002 as well. I will present work that Samsung has done as part of the internal demo + discussion about the future of Application LCM interfaces in ONAP.</p> 		ONAP
Catherine Lefevre	ONAP EI-Alto Prioritization	Discussion	<p>This session is dedicated to review the ONAP requirements backlog foreseen for EI-Alto. Feel free to fill in pro-actively the following wiki page: https://wiki.onap.org/display/DW/EI-Alto+Release+Requirements</p> 	Minutes: https://wiki.onap.org/display/DW/TSC+2019-06-13+DDF+EI+Alto+Priority+notes	ONAP


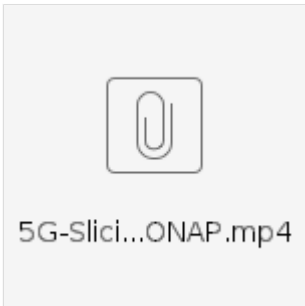

Catherine Lefevre	What should be the ONAP TSC Priorities for the next 6 months?	Discussion	<p>This session is dedicated to identify what would be the top 3 priorities of the TSC in order to support the ONAP Community, to improve any process/toolchain gaps and to build an execution plan accordingly.</p> <p>Feel free to create new TSC tasks in JIRA under "ONAP TSC" project</p>	<p>Minutes: https://wiki.onap.org/display/DW/TSC+2019-06-12+DDF+Session+notes</p>	ONAP
Eric Multanen Rajendra Mishra	FlexRAN Onboarding to ONAP	Presentation + Demo	<p>Virtual Radio Area Network (vRAN) is a critical piece for upcoming 5G networks. In this demo, we will show you how to build the FlexRAN (an open source vRAN approximation VNF from Intel), onboard it onto ONAP and then deploy it onto OpenStack. Once the service is deployed, the FlexRAN service performs basic operations in a simulated environment.</p> <div>  <p>FlexRAN-...ONAP.pdf</p> </div> <div>  <p>ONAP_Du...Ran.pdf</p> </div> <div>  <p>Flexran_...demo.mp4</p> </div>		ONAP
Liam Fallon merely submitted session proposal	Developer Unconference	Unconference	<p>This session gives developers an opportunity to discuss the strengths, weaknesses, areas that can be improved, and areas that threaten project failures. The focus here is on developer issues such as but not limited to languages, coding, processes, tools, methods, project structures. The result of this session could be a report for the steering committee of projects.</p> <p>One suggestion would be to run this session using a technique such as SWOT analysis but that's only one suggestion. The format of the session and the reporting done from the session is at the discretion of the participants on the day.</p> <p>DDF 2019 Developers Unconference Meeting.mp4</p>	<p>Notes: https://wiki.onap.org/display/DW/Developer+Unconference+at+Linux+Foundation+DDF+June+2019</p> <p>Followup Developer Unconference Meeting:</p> <p>New Meeting Link: https://zoom.us/j/644920226</p> <p>Meeting Time: 20/06/2019 2:00pm (GMT +1)</p>	Any Project





James Forsyth	AAI Data Model / Visualization Tools / Graph Traversals	Presentation and demo	<p>We will look at the AAI data model and some of the visualization tooling that is being developed around it. We'll look at AAI custom queries that allow for easy traversals of the graph database, and touch on new features for even more flexible traversals slated for future releases.</p> <div>  <p>AAIDataM...0613.pdf</p> </div> <div>  <p>AAI-Data...0613.mp4</p> </div>		ONAP
Kenny Paul	ONAP TSC Meeting	Team Meeting	<p>ONAP F2F TSC</p> <p>Minutes: https://wiki.onap.org/display/DW/TSC+2019-06-13</p> <p>Recording: https://r.lfnetworking.org/lfn-zoom/ONAP/TSC-Meetings/TSC-2019/tsc-2019-06-13.mp4</p>		ONAP
Yehui Wang	Experiences in switching to Alpine Linux and upgrading to Java 11	Presentation + discussion	<p>This session would cover two experiences sharing topics, that is gathered in working at Policy Framework but can be applied anywhere:</p> <ol style="list-style-type: none"> 1. Switching docker base image from ubuntu to alpine, that would reduce footprint significantly . 2. Investigation result about upgrade Java 11 from Java 8, that is trickier than most upgrades. We have to face some challenges, like: some modules were removed or deprecated, we need to find the replacements; IDEs, plugins and tools also need to be updated; some new features are introduced, etc. <p>Meanwhile it would be also great to listen to your opinions.</p> <div>  <p>Alpine Li...va 11.pdf</p> </div>	Alpine Linux and upgrading to Java 11.mp4	ONAP



<div> <div> Davide Cherubini </div> </div>	<div> ONAP Platform with network security as an application </div>	<div> Presentation + discussion </div>	<div> Looking into security of the managed environment, this could be represented as a 3rd party application using ONAP. The questions to explore are: how does a 3rd party application use ONAP? What are the options and approaches? </div> <div> <div>  </div> <div> ONAP & E...ions.pdf </div> </div> <div> <div>  </div> <div> ONAP-an...ons.mp4 </div> </div>		
<div> <div> Eric Multanen Bin Yang </div> </div>	<div> SO Multicloud Plugin adapter usage and plans </div>	<div> Presentation + discussion </div>	<div> Demonstrate use of the SO multicloud plugin adapter to instantiate workloads via Multicloud – showing how HPA policies can be utilized and also deployment to Kubernetes cloud regions. Discuss API, feature/functionality work items, integration, etc. </div> <div> <div>  </div> <div> ONAP_Du...oud.pdf </div> </div> <div> <div>  </div> <div> SO_Multi...Uses.mp4 </div> </div>		<div> ONAP </div>





<p>Chuanyu Chen</p>	<p>ONAP Orchestrated SD-WAN & Edge</p>	<p>Presentation +Demo</p>	<p>Sharing the demo of using ONAP to orchestrate SD-WAN and Edge. Will cover the following topics:</p> <ol style="list-style-type: none"> 1.Share the scenario of SD-WAN & Edge 2.How we model it in ONAP SDC. 3.Closed loop;Band width on demand. <div>  <p>ONAP Orc...Edge.pdf</p> </div> <div>  <p>ONAP Or...dge.mp4</p> </div>		<p>ONAP</p>
<p>Harry Huang</p>	<p>Running ONAP on Public Cloud</p>	<p>Demo</p>	<p>Demonstrate the steps to create a running ONAP instance on Huawei Public Cloud.</p>		<p>ONAP</p>
<p>Yan Yang</p> <p>OpenLab Subcommittee</p>	<p>OpenLab EI Alto/Frankfurt Planning</p>	<p>Working session</p>	<p>Open Lab Subcommittee meeting</p> <ol style="list-style-type: none"> 1. Lab update - invite lab owner to introduce the lab latest status 2. Discuss how to better utilize lab resources and oversight lab utilization 3. OpenLab E/F work planing <div>  <p>ONAP-Op...DDF.pdf</p> </div> <div>  <p>LFN-DDF OWL.pdf</p> </div>	<p>WIN LAB update</p> <ol style="list-style-type: none"> 1. Have some quesitons about ONAP deployment automation, next plan: OpenLab will have a cooperation meeting do discuss this details <p>OpenLab E/F planning</p> <ol style="list-style-type: none"> 1. Open Lab repo proposal <p>Team think this is a good idea, next step is to apply this gerrit repo and plan the directory under the repo</p> <ol style="list-style-type: none"> 2. Add lab requirements to ONAP milestone <p>Team think we should consider whether the proposal is practical.</p> <p>Because it proposal mainly for usecase and functional requirements, so next plan is to propose this to usecase subcommittee and collect feedback</p>	<p>ONAP</p>

Yan Yang	Unified Parser /Catalog in ONAP	Presentation+ discussion	<p>1.Introduce the implemented toasca parser microservice</p> <p>2. The E/F work planing</p> <p>3. Requirements Collection</p> <div>  <p>ONAP-Par...alog.pdf</p> </div>	<p>1. Introduction about generic parser and call for requirements</p> <p>2. The unified catalog plan and call for requirements</p>	ONAP
Yan Yang @Chengli Wang	VF-C Dublin Highlights and Commercial Application	Presentation+ discussion	<p>1.Introduce the VF-C work in Dublin</p> <p>2.The VF-C commercial application from different vendor</p> <p>3. The VF-C Requirements collection and discussion in E/F</p> <div>  <p>VF-C Dubl...final.pdf</p> </div> <p>Sharing the experiences in developing CMCC NFV Orchestrator with ONAP, some concerns/improvements/requirements about projects of ONAP</p> <p>Demonstrate CMCC NFV Orchestrator, including package management, life cycle management. etc.</p> <div>  <p>NFV Orch...ONAP.pdf</p> </div>	<p>1. In order to deal with the problem that the SDC output is inconsistent with the VFC input, now have manual step in SDC. Ericsson suggest we can leverage the PNF onboard process to less the manual step. next plan is to verify this function in SDC.</p> <p>2. The VF-C workflow is the same with workflow in SO</p> <p>The current VF-C workflow integrated with different workflow ,such as wso2, activity and can provide unity API as microservice</p> <p>3. The requirements collected for F release will be discuss one by one in VF-C following weekly meeting.</p>	ONAP
Enbo Wang	Thinking of PNF Software Upgrade Using Ansible	Presentation+ discussion	<p>Present the work done about PNF software upgrade using Ansible, and propose the enhancement roadmap for EI Alto/Frankfurt, such as:</p> <ol style="list-style-type: none"> 1. SO workflow 2. Query and update A&AI 3. Northbound API 4. Ansible management API 5. etc. <div>  <p>Thinking ...sible.pdf</p> </div>		ONAP

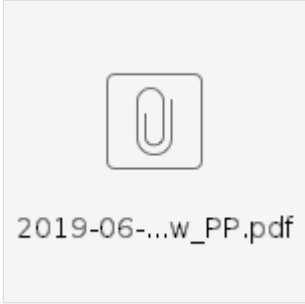

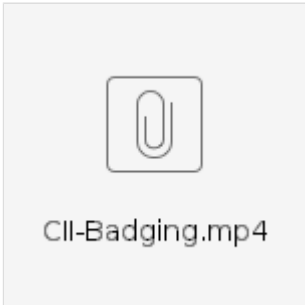

<p>Lingli Deng</p> <p>Vimal Begwani</p> <p>Stephen Terrill</p> <p>Srinivasa Addepalli</p>	<h2>Intelligent Automation with ONAP</h2>	<p>Presentation+ discussion</p>	<p>This session is dedicated to solicitation and planning for network intelligence collaboration proposals with ONAP community.</p> <p>Acumos_ONAP_Integration_Arch.pptx</p> 	<ul style="list-style-type: none"> Vimal shares the closed-loop vision of intelligent network architecture. It is recommended to build a big data platform and model training platform around Datalake to complete the loop with Acumos, DCAE and Datalake. Stephen shares the work related to 3GPP SA2 NWDAF and SA5 MDAF, and proposes to coordinate the relevant functional architecture to achieve consistency with the community. Srini shares the progress of the AAAS use-case. It is recommended to cooperate with the demonstration application of China Mobile's core network element intelligent expansion and expansion, and collaborative development for specific intelligent scenarios. An open source reference implementation that integrates edge orchestration and intelligent network architecture. There is a discussion of working procedure, it is recommended to set up a virtual working group and follow the existing workflow of the community (use-case, architecture, modeling, etc.). 	ONAP
<p>Lingli Deng</p>	<h2>5G Slicing Mgmt with ONAP</h2>	<p>Presentation+ discussion</p>	<p>This is a discussion session intended to host a dedicated discussion on implementation options on how to enable end-to-end 5G slicing as part of ONAP automated service provisioning/operation. Gaps in contexts of different options will be discussed for corresponding planning.</p> <p>5G Slicing Mgmt with ONAP.pdf</p> 	<ul style="list-style-type: none"> 3GPP SA5 defines the reference architecture and workflow for 5G Slicing Management but with no standard interfaces between the three layering architecture. A new two-layering implementation architecture of the 3GPP functional architecture leveraging TMF openAPI is reflected in commercial solutioning and external ONAP PoCs. Call for a common approach to converge different options and work complementary manner to accelerate 5G slicing management use-case realization. 	ONAP
<p>Sylvain Desbureaux</p> <p>Mike Elliott</p> <p>Brian Freeman</p>	<h2>OOMP CD Gating Feedbacks</h2>	<p>Presentation+ discussion</p>	<p>ONAP OOM Gating has been using Orange OpenLab platform for any new OOM patch. More than 500 ONAP deployments launched to validate OOM modification.</p> <p>Lessons learnt and how to extend this process to other projects.</p> 		ONAP





<p>Stephen Terrill</p>	<p>Archecture brainstorm on Modularization</p>	<p>Presentation and Discussion</p>	<p>During the dublin release, there were steps taken towards modularization. This is to have a brainstorm to identify possible next steps</p> <div data-bbox="548 224 850 527">  <p>June DDF...rity.mp4</p> </div> <div data-bbox="548 556 850 858">  <p>2019-06 M...arity.pdf</p> </div>		<p>ONAP Architecture</p>
<p>Stephen Terrill</p>	<p>ONAP Architecture Priorities for Release F</p>	<p>Discussion</p>	<p>A discussion to recieve input from the community about Architecture Topics to be prioritized heading for Release F (and beyond).</p> <div data-bbox="548 930 850 1232">  <p>2019-06 R...ase F.pdf</p> </div> <div data-bbox="548 1327 850 1629">  <p>June DDF...se F.mp4</p> </div>		<p>ONAP Architecture</p>



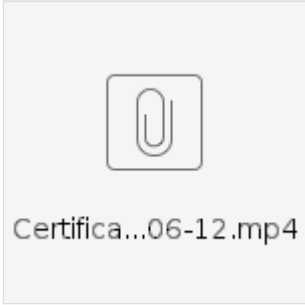

Eric Debeau Sylvain Desbureaux	Improve ONAP tests and remove specific use-cases artifacts from ONAP components code	Presentation+ discussion	<p>Improve ONAP tests and verify that every pod is using in one or more end-to-end use-case or test cases.</p> <p>Improve use-case documentation to explain the list of components used per use-case (by use-case owner)</p> <p>Detail for each use-case the list of pods involved for every use-case (by PTL)</p> <p>Remove use-case code/artifacts from the ONAP components code and create dedicated repos for the use-case gathering all the artifacts to be used for a use-case</p> <div>  <p>Improve_O...tests.pdf</p> </div>		ONAP
Sylvain Desbureaux	ONAP Versioning	Presentation+ discussion	<p>Improve ONAP versioning process</p> <div>  <p>ONAP-Ver...ning.pdf</p> </div>	<p>ONAP Versioning should be streamlined</p> <p>It would reinforce "rolling-release" goal</p> <p>it would make ONAP test more reproducible</p>	ONAP
Lincoln Lavoie (remote) Heather Kirksey Jim Baker	Heat and TOSCA VNF validation program	Presentation and discussion	<p>Finalize the integration and work plan on the CVC (compliance and verification community) minimum viable product (MVP) for VNF Validation (life-cycle) program. This program will award a badge to VNF products (HEAT or TOSCA) meeting the programs test case / success requirements. Form this meeting, there needs to be secure commitments for resources, firm understand the timeline and milestones. Engage ONAP TestSuite/integration, VVP, and VNFSDK teams in this process.</p> <p>VNF Validation Minimum Viable Product</p>		ONAP & OPNFV
Chuyi Guo	ONAP TOSCA VNF Compliance and Validation MVP Requirements	Working Session	<p>Work out release E/F TOSCA VNF Compliance and Validation requirements, including VNF package format and VNF test cases. If you have proposals, please upload https://wiki.linuxnetworking.org/display/LN/TOSCA+VNF+Compliance+and+Validation+Requirements+Proposal+for+R5</p> <p>ONAP TOSCA VNF working session discussion.pdf</p>		ONAP & OPNFV


Paweł Wieczorek	ONAP pentest summary	Presentation + Discussion	<p>Summary of ONAP code base pentest. Sharing lessons learnt and discussing approaches for vulnerability prevention.</p> <div data-bbox="548 191 850 491">  <p>onap_pen...ryv2.pdf</p> </div> <div data-bbox="548 520 850 821">  <p>ONAP-Pen...mary.mp4</p> </div>	<ol style="list-style-type: none"> 1. General availability of pentest report 2. Focus efforts on limiting exposure 3. Issue reporting and tracking procedures already in place 	ONAP
Paweł Wieczorek	Kubernetes security guidelines automated validation	Presentation + Discussion	<p>No Kubernetes cluster should stay vulnerable. Easiest way of ensuring that is to use an automated assessment tool. Session will cover current approaches for this task as well as gather ONAP requirements for such utility.</p> <div data-bbox="548 909 850 1209">  <p>k8s_sec_...onv1.pdf</p> </div> <div data-bbox="548 1239 850 1539">  <p>2019-06-...tion.mp4</p> </div>	<ol style="list-style-type: none"> 1. Provide information on unmet CIS benchmarks in default Kubernetes cluster deployment 2. Select small (~5) set of crucial unmet CIS benchmarks and provide recommendation for cluster deployment configuration in RKE 3. Investigate possibility of reusing multiarch images for further lowering attack surface 	ONAP





Paweł Wieczorek	Online runtime dependency removal proposal	Discussion	<p>Not all ONAP container images keep the binary content idempotent. In several cases additional runtime dependencies are downloaded after container starts. Consequences and possible solutions will be discussed during this session.</p>	<ol style="list-style-type: none"> 1. Dependency removal <ol style="list-style-type: none"> a. report issues b. add detection script to OOM gating c. fix if possible (and enough resources) 2. Contextual dependencies <ol style="list-style-type: none"> a. adapt OOM gating procedure b. detect on OOM gating 3. Security improvement recommendations <ol style="list-style-type: none"> a. read-only filesystem <ol style="list-style-type: none"> i. enable on selected set of images (~50) ii. report findings b. privilege reduction (on hold) 	ONAP
Rex Lee	ONAP + Service Mesh	Presentation + Discussion	<p>This session would introduce how to utilize service mesh to enable visibility of ONAP services.</p> <p>Discussion: what service mesh can do to help on ONAP and how to better use service mesh in ONAP.</p>		ONAP
Paweł Pawlak Amy Zwarico	ONAP EI Alto Security SoW proposal	Presentation + Discussion	<p>The goal of this session is to present ONAP SECCOM Scope of Work proposal and discuss with stakeholders feasibility, time line and responsibilities for:</p> <ul style="list-style-type: none"> • relevant updates - version management (Kubernetes, Docker, Python, Ubuntu, Alpine, Java etc.) • known vulnerabilities - repositories updates 		

Pawel Pawlak	Vulnerability Management process review	Presentation + Discussion	<p>This session would provide better understanding of documented process and sharing with the LFN community lessons learned.</p> 		
Pawel Pawlak Tony Hansen Amy Zwarico	CII Badging - best practices of best practices	Presentation + Discussion	<p>Review of the process with special focus on the achievements and pending points in the context of ONAP.</p>  	<p>To update Security By Design milestones checklist with CII Badging periodic review.</p> <p>To force with LFN (Steve Winslow) adding Jim as CII Badging editor for 4 remaining ONAP projects.</p>	ONAP + any other interested project
Pawel Pawlak Amy Zwarico Samuli Kuusela	ONAP SECCOM F2F	Working Session	Review with the participants SECCOM backlog, summary of recent achievements and pending actions.		
Paul-Ionut Vaduva @Cristina Pauna	Using dockherhub's public registry for CI /CD builds - An ONAP use-case	Presentation + Discussion	<p>A new proposal to use dockerhub's own docker registry for storing the CI/CD/daily docker images builds as opposed to other implementations. Discussions around reliability, outreach of the registry, speed of new feature adoptions (like multi-architecture support) and daily performance.</p> <p>The presentation will have three parts:</p> <ol style="list-style-type: none"> 1. A brief introduction to dockerhub. 2. How dockerhub is used on LF projects CI/CD pipelines 3. ONAP use-case. How dockerhub public registry can benefit ONAP CI/CD build pipeline, what are the challenges, what are the tech teams requirements, proposed migration plan, and stakeholders, expressed and addressed concerns so far <p>After the presentation we would like to initiate Q/A and expression of other concerns not addressed so far, to be addressed or to be made known to us so we can address them in subsequent refinements of this proposal.</p> 	<ol style="list-style-type: none"> 1. Using Docker Hub is a must in order to support platform independent images 2. We want to extend the Jenkins build pipeline to build in parallel docker images for multiple architectures; this has little impact on the team's effort as it doesn't impact the artefacts (Java or Python services) build process at all 3. Migrating from Nexus3 to Dockerhub in ONAP requires a team effort between tech teams in ONAP (PTLs), LinuxFoundation (Releng) and the Multiarch team but among us we have the experience to deliver this in a smooth way 	ONAP (ONAP PTL's foremost)





Dan Timoney	Extending CCSDK : adding a new plugin	Presentation + Demo	<p>This session will walk developers through an example of extending the ONAP CCSDK library by adding a new plugin. We will cover:</p> <ul style="list-style-type: none"> Where to add the code in Gerrit What else needs to be updated in order to make the new plugin available in the controller container How to test the change locally 		ONAP
			 <p>CCSDK-Ad...dule.pdf</p>		
Magnus Buhrgard	Network Management community coordination	Presentation + Discussion	<p>Presentation of proposed WoW</p> <p>Soliciting ideas and discussing plans for coordination with 3GPP SA5, ETSI NFV, ETSI ZSM, IETF, BBF, MEF, TMF in the area of network management.</p>		ONAP
			 <p>Network M...ation.pdf</p>		
Stephen Terrill	Architecture Items for Release E	Discussion	<p>Collect any issues for Architecture Release E to be considered.</p>		ONAP Architectue
			 <p>2019-06 ...se E.pdf</p>		
Parker Berberian	Lab as a Service Proposal and Discussion	Presentation + Discussion	<p>We will have a short presentation on what Lab as a Service is, where we are today, and how we plan to proceed. We want to have time to discuss the LaaS project proposal with the community and answer any questions.</p> <p>The LaaS team is not able to attend, so this will have to be a remote session.</p>		OPNFV
			 <p>LaaS Proposal.pdf</p>		



Brian Freeman	Robot Testing Enhancements in Dublin and Plans for El Alto	Presentation + Discussion	 <p>Robot Fr...DDF.pptx</p>		Testsuite
Hampus Tjäder	Certificate management and Secure Storage discussion	Discussion + Presentation	<p>With the introduction of mTLS for the Dublin release, there have been troubles with proper certificate handling with external CA support and secure key storage. As a result, some ONAP projects ended up using manually configured certificates. A centralized solution for certificate handling, secure storage and KMS that ONAP projects easily can integrate with is important for future release. Focus will be on external interfaces.</p> <p>It would be good for the community to get clear guidelines from SECCOM which solution we will target in long term and for Frankfurt. In this session there will be multiple presenters. First topic will be regarding background from Dublin and the need to introduce CMPv2 with welcomed discussion regarding how this might be done.</p> <p>Second presentation will be held by AAF PTL related to the current plans and solution in AAF regarding certificate handling and secure key storage.</p> <p>Third presentation will be held by Intel regarding their investigation and PoC for ISTIO CA private key secure storage using softsmv2.</p>  <p>Cert mgm...sta.pptx</p>  <p>Certifica...06-12.mp4</p>  <p>CA Privat...tion.pptx</p>	<p>Three new requirements for PKI in ONAP Frankfurt were proposed. Alternative 1 from how to use CMPv2 was said to be the initial target for the community, further discussion might be needed. This target would modify two previous Dublin requirements to not go for a true "RA" but for a CMPv2 client.</p> <p>Status update and demo from AAF and latest progress regarding certificate handling. Demo for auto certificate renewal and other. See zoom meeting for demo.</p> <p>Community sync and alignment between the current two tracks (AAFvsISTIO) to be further discussed and analyzed. Possibility to reuse SoftHSMv2 solution from ISTIO /Intel PoC also for AAF as they both target PKCS#11.</p>	ONAP SECCOM




Jacqueline Beaulac	Reverse engineering of data models -- how and why	Presentation + discussion	<p>Many ONAP components have developed their own data models independently to fill their own needs. As the complexity of ONAP increases, there is a need not only to document these data models, but also to compare them, find commonalities, create abstractions, and define common principles. One path to this is through reverse-engineering.</p> <p>This session will present different considerations and techniques when reverse-engineering data models to a common notation, looking at specific examples. The intention is to start a discussion around the needs in the community and how to best fulfill them.</p> <div>  DM_revers...ering.pdf </div> <div>  DM_rever...ring.mp4 </div>		ONAP
James Cuddy David Farrelly Michela Bevilacqua	Hello World Closed Loop (CDS and Policy aka APEX integration)	demo + presentation /discussion	<p>A PoC has been progressed to explore CDS integration with APEX for a PNF closed loop.</p> <p>This activity has brought up interesting questions, possible requirements and next step proposals for further architectural exploration in the area of policy framework and CLAMP. We are happy to share it in the community to open a discussion.</p> <div>  Hello Wo...PA1.pptx </div> <div>  closed_loop.mp4 </div>		ONAP


<p>Oskar Malm</p>	<p>Evolution of LCM support in SO and controller for R6</p>	<p>presentation /discussion</p>	<p>For R6 it is proposed to extend LCM support in ONAP components as enabler for use cases such as PNF SW upgrade:</p> <ul style="list-style-type: none"> • General improvements to PNF support • Introduce the CDS blueprint processor as option in the controller layer for handling of LCM actions <p>This session will look at bit closer at the problems and project impact</p> <div data-bbox="548 289 850 592">  <p>ONAP_LCM...r_R6.pdf</p> </div> <div data-bbox="548 619 850 921">  <p>ONAP_LC..._R6.mp4</p> </div>		<p>ONAP</p>
<p>Samuli Kuusela Timo Perala</p>	<p>xNF License Management and ONAP</p>	<p>presentation /discussion</p>	<p>A top-down approach for xNF license management and ONAP: proposal with a few license management principles, and some existing use cases with license management aspects included.</p> <div data-bbox="548 1010 850 1312">  <p>xNF Licen...lean.pptx</p> </div> <div data-bbox="548 1339 1050 1837">  <p>xNF License Ma...t and ONAP.mp4</p> </div>		<p>ONAP</p>

Katsia Kazak	Contributing to ONAP from a beginner's perspective	presentation /discussion	<p>Small rant about state of things in ONAP from a "new" developer perspective.</p> <div>  <p>ONAP_DDF...tive.pdf</p> </div> <div>  <p>Beginne...NAP.mp4</p> </div>		ONAP
Ciaran Johnston	Model driven ONAP	presentation /discussion	<p>Continuing on from the presentation / discussion in San Jose in April, taking Policy Framework as an example for defining model-driven ONAP architecture</p> <div>  <p>Modeling ... v0.3.pdf</p> </div> <div>  <p>Model D...NAP.mp4</p> </div>		ONAP
Stephen Terrill	Review status of ONAP architecture task forces and next steps	presentation /discussion	<p>Walkthrough the ONAP architecture taskforces to identify which should remain open and what is the intent in the next few months, and update on the current status.</p>		ONAP
Stephen Terrill	Documenting ONAP Architecture	presentation /discussion	<p>Walkthrough of the approach being taken to capture the functional ONAP architecture.</p>		ONAP

<p>Adolfo Perez-Duran</p>	<p>Three best practices that will improve your container development experience</p>	<p>Presentation & discussion</p>	<p>ONAP uses a number of different container base images and different versions of the same base images: 5 different versions of node, 9 different versions of openjdk and 13 different versions of Python across ONAP projects. This approach has led to duplication of efforts and inefficiencies, such as resource consumption, large footprint and long build times. Also, teams experience unnecessary pain when unexpected changes occur in upstream projects.</p> <p>What if we adopted three best practices to tackle these issues together and increase re-usability, stability and security.</p> <p>First, to exploit cross-project commonalities and increase re-usability, adopt a set of common base images, (onap/base-xxx) with a well-defined life cycle controlled by PTLs.</p> <p>Second, to guarantee stability, setup a mirror of the Alpine Linux distribution that's locked during development cycles. Base images and libraries will remain stable during each development cycle and will only be updated in-between development cycles.</p> <p>Third, let the security sub-committee proactively participate in the vetting of the OS distribution and base image in order to address any security concern before a development cycle starts.</p> <div data-bbox="548 495 850 798">  <p>best-practices.pdf</p> </div> <div data-bbox="548 825 850 1127">  <p>3-Best-P...-dev.mp4</p> </div>		<p>ONAP</p>
<p>Magnus Buhrgard Timo Perala</p>	<p>Open source impact on the telecom industry</p>	<p>Discussion</p>	<p>Open discussion on the opportunities and hurdles for open source code in the Telecom industry</p> <div data-bbox="548 1234 850 1537">  <p>Open Sou... v2.pptx</p> </div> <div data-bbox="548 1600 850 1902">  <p>Opensou...com.mp4</p> </div>		<p>ALL</p>

Bin Hu Catherine Lefevre Heather Kirksey user-2011f	Closing Remarks LF + TSC Chairs				
David McBride	OPNFV Release Plan and Iruya Planning	Presentation and discussion	Review release plan proposal and discuss Iruya planning.		OPNFV
Manoj Nair	API Gateway /API Fabric Proposal	Presentation & Discussion	Related to the API GW Proposal being discussed in the Architecture committee - Discussion on the problems, functional capability, project alignment and technology (Service Mesh, API GW Solution, K8S API Aggregation etc) . Seek guidance from ArchComm on next steps 		ONAP
Vamsi Bodepudi	CDAP - Data Analytics framework in ONAP	Presentation & Discussion	CDAP - current state : History with respect to ONAP : Future Roadmap : Google's managed version of CDAP on google cloud - Cloud Data Fusion - https://cdap.io/ CDAP as edge analytics platform		
Vijay Venkatesh Kumar (remote) Onsite support - David Farrelly James Cuddy	ONAP-DCAE Dublin Features + Demo	Presentation & Discussion	DCAE Dublin features highlights/demo & future release focus  Recording : DCAE_DDF_Session_06122019.mp4		ONAP
Amar Kapadia	ONAP COP Exam	Discussion	20 minute session to cover the following: <ul style="list-style-type: none"> Review the status of the Certified ONAP Professional exam Discuss the challenges faced Invite community members to help with specific questions/API documentation Invite community members to be alpha/beta testers 	No Slides <ul style="list-style-type: none"> Reviewed various sections of the exam Reviewed the complexity of developing each question Asked for volunteers for alpha, beta, and/or test development 	

@Al Morton	VSPERF Project Meeting	Working Session	<p>1 Hour session</p> <p>Agenda,</p> <p>0. What is VSPERF?</p> <ol style="list-style-type: none"> 1. Development Update 2. Containerizing VSPERF Status Update/Demo from Shailesh (Intern) 3. Container networking in VSPERF Status. 4. ...AOB 	<p>Regular Meeting Zoom:</p> <p>Join from PC, Mac, Linux, iOS or Android: https://zoom.us/j/2362828999</p> <p>No Slides</p> <ul style="list-style-type: none"> • Intern Demo of control container (ver 2) • Questions from Cedric about choice of container platform versions - Add Cedric for Gerrit reviews • Introduce Anca from Ixia/Keysight to the project. Pierre/Ixia will look into providing real-time loss results as .csv files. 	OPNFV
Henrik Andersson	DCAE SDK	Discussion	How to utilize the DCAE SDK	https://zoom.us/j/535885122	
Heather Kirksey Lincoln Lavoie Jim Baker Rabi Abdel	OVP Introduction	Preso	<p>Introduction to OVP. This session will set up the business drivers and high level expectations of OVP. For those that have not been involved in OVP work to date, this will be a good set up for working sessions later in the week.</p> <div data-bbox="548 579 850 884">  <p>OVP DDF ...ion.pptx</p> </div>		
David Perez Caparros	BBS Use Case Demo /Q&A	Discussion	<p>Demo of BBS (Broadband Service) use case, status in Dublin, technical debt for future releases</p> <div data-bbox="548 953 850 1257">  <p>20190613...ces.pptx</p> </div> <div data-bbox="548 1266 850 1570">  <p>2019061...emo.mp4</p> </div>		ONAP

<p>Sandeep Sharma</p>	<p>4th ETSI NFV Plugtests Summary & Learnings for ONAP</p>	<p>Discussion</p>	<p>Brief description of the ONAP interop activities at the 4th ETSI NFV Plugtests held from June 3-7, 2019. We will also cover our learnings.</p> <div data-bbox="548 191 850 493">  <p>ETSI_Plug...mmmary.pdf</p> </div>		<p>ONAP</p>
<p>Sriram Rupanagunta</p>	<p>ONAP OOM GUI based installer</p>	<p>Demo</p>	<p>Demo of a prototype GUI around OOM to simplify installation of ONAP</p> <div data-bbox="548 619 850 921">  <p>ONAP_Installer.pdf</p> </div> <div data-bbox="548 949 850 1251">  <p>ONAP OOM...ller.mp4</p> </div>		<p>ONAP</p>

