Day 1	Grand F	Grand G
09:00 - 09:30	Opening & Welcome	

09:30 - 09:50 OPNFV 101

(Ildiko Vancsa, Ericsson)

OPNFV is a very your community and very unique at the same time. It consists of several Telecom vendors and service providers along with IT companies to work on a platform that is suitable for NFVs and the puzzle is built from large open source projects as pieces. Many of us is not completely new to open source, but most of us is still learning how it works. OPNFV is a good example of how the mindset is changing to adapt to a new way of working. The road is full of turns, but we are learning our lessons and moving forward. The presentation will guide you through the changes in the projects' structure, life cycle and way of working. You will get an overview about our current project structure in OPNFV including co-operation, our processes including tools and best practices and areas that need further improvements.

Container session (TBD)

09:50 - 10:50

10:50 - 11:05

Morning Break

11:05 - 12:05 Programmable Data Planes and the Role of IO Visor in NFV (Panel)

Moderator: Margaret Chiosi (AT&T)/Panelists: Chris Price (Ericsson), YunSong Lu (Huawei), Bob Monkman (ARM), Pere Monclus (PLUMgrid)

The telecom industry is being transformed by NFV, enabling faster time to market and flexible services through virtualization, programmability, and automation. Underpinning NFV deployments, programmable data planes are paramount to achieving agile service provisioning, management, and scalability. As a new open source collaboration project under the Linux Foundation, IO Visor offers a Linux based, in-kernel programmable data plane that is independent of hardware systems and silicon. In this panel, join the discussion on programmable data planes and hear from some of the most forward-thinking technology leaders around the world.

Lunch

12:05 - 13:00

3:00 - 13:20	DPDK, User Space Data Path, Open vSwitch and OPNFV (Thomas Herbert Red Hat SDN Group) In this presentation, Mr. Herbert discusses the layered architecture of Open vSwitch. Tom will discuss the OVSDB and Open Flow control protocol and the specific mechanism and internal API's with which OVS's layered architecture provides independence of the	How to verify the reliability of OPN (panghao, Huawei) System reliability is one of most in service. With the development of v system reliability and stability becc Tes
	March of or broken backmedia provides provides on the data plane from the control plane. Specifically, he discusses how user space accelerated software data paths can provide enhanced performance over the Linux kernel in some circumstances at wire data rates. The talk covers DPDK as an example of a user space data plane as well as the advantages and disadvantages of DPDK with respect to the Linux Kernel data plane in terms of configuration, flexibility, provisioning and network interfaces. Finally, he provides a discussion about the implications of utilizing OVS with DPDK or another accelerated software data plane to OPNFV higher level networking functions.	ting and verifying OPNFV infrastru failures is a great challenge. To ad presentation presents a test frame and types of faults injection as we injection tools. Some test cases an framework.
3:20 - 13:40	DPDK, Data Plane Development Kit Architecture Overview	Test collection API & test dashboard

ow to verify the reliability of OPNFV infrastructure? anghao, Huawei)

stem reliability is one of most important features for the Network rvice. With the development of visualized network functions, stem reliability and stability becomes more complex than before.

g and verifying OPNFV infrastructure for tolerating the faults and lures is a great challenge. To address this challenge, the esentation presents a test framework which covers the means nd types of faults injection as well as the implement of fault jection tools. Some test cases are shown to validate the mework.

13:20 - 13:40 (M Jay, Intel)

DPDK, Data Plane Development Kit, is a set of libraries and drivers for fast packet processing. With its I/O optimizing bulk mode operations and memory latency hiding s/w prefetch techniques, DPDK can receive and send packets within the minimum numbers of CPU cycles. Within DPDK tree, more than 20 different sample applications are provided for network developers to build their applications based on DPDK. DPDK is an Open Source BSD licensed project. A FreeBSD port is available for a subset of DPDK features.

13:40 - 14:00 Demo: OVS-DPDK & DPDK

(Thomas Herbert, Red Hat/M Jay, Intel/Mark Gray, Intel)

Morgan Richomme (Orange)

Use JavaScript to Visualize OPNFV System Performance (Wei Shao, Huawei) Web-based charts, graphs, maps etc are powerful tools for

information displ ay and they empower user's understanding of operational status and potential issues of the system. In this talk, we will introduce some Javascript libraries for visualization of OPNFV system status and performance. These libraries allow browser-based graph rendering and improved user experience.

14:00 - 14:20 14:20 - 14:40 14:40 - 15:00	OpenFastPath –an open source accelerated IP fast path Tapio Tallgren, Nokia The exponentialgrowth in data traffic puts ever-increasing demands on the packetprocessing elements in the network, resulting in a need for highperformance IP packet handling. This drives the emergence of a newgeneration of hardware accelerated platforms as well as an emergenceof user space applications and libraries. Hardwareabstraction layers like OpenDataPlane (ODP) and Data PlaneDevelopment Kit (DPDK) provides a hardware abstraction layer and acommon API for applications and libraries. However, they do notinclude commonly required functionality such as IP forwarding orIPsec. To solve this an additional piece of technology is needed - anopen IP stack that provides needed protocols and features for highperformance environments. This framework will enable networkapplication developers to meet both performance and platform targetscreating a basis for scalable high-performance network functions. This presentation will introduce an open source project providingthat missing piece. OpenFastPath (OFP) is the industry's firstruly hardware agnostic open source user space IP fast path solution.Backed by major industry players ARM, Nokia and Enea, OFP is aimingat providing industry leading scalability, performance and portability. OVN for OPNFV (Vikram Dham Dell) OVN is the open virtual networking software which complements the existing capabilities of OVS to add native support for virtual network abstractions, such as virtual L2 and L3 overlays and security groups. In this session we intend to explore the option to use OVN OVN and see if we can match them to the networking requirements of OPNV. Evolution of OPNFV CI system: what already exist and what can be introduced (Jun L1, Huawei) In Armo, the infrastructure of the CI system is shown in http://artifacts.opnfv.org/occpus/1026/docs/opnfv-ci- infrastructure.htm, along with the growth of community development, new tools such as zuul, nodepool, etc, can be introduced to replace the existing Goo	Functest in Depth: 1 hour workshop (Jose Lausuch, Ericsson) Functional testing is key to validate the installation and the correct behavior of the OPNFV platform. This session will cover how to prepare and execute the Functest framework over a fresh installed Arno and possibly some spoiler of the second release. It will also walk though the different tools used in Arno: Rally, Tempest, vPing and Robot.	
15:00 - 15:15	Afternoo ONOSEW Overview and Design	Droject Breakouts	
15:35 - 15:35	ONOSFW Overview and Design (Brian OConnor, Onlab) Open Network Operating System (ONOS) is an open source SDN network operating System to the source of the second s	Project Breakouts Project Breakouts	

15:55 - 16:15	Compass - MetaData and Service Containerization (Wei Shao, Huawei) In this talk, we introduce Compass metadata support and how it provides extensibility of the installer's functionality without writing new code. We also introduce our experience in putting Compass service components into containers. We hope this could be useful and some technologies could be re-used in other projects in OPNEV	Project Breakouts
16:15 - 16:35	Pinpoint - Fault localization in OPNFV	Project Breakouts
	(Adi Molkho Huawei)	
	Fault localization (also known as Root Cause Analysis) is a process of deducing the exact reason of a failure from several fault	
	indications. The Pinpoint project task is to explore the different	
	information sources available for the IT/ Tenant manager and define	
	the API needed by the fault localization functionality block	
	In this talk I will go through the use cases chosen for the projects,	
	the exisiting open source projects that may provide useful	
	be used inside the fault localization	
16:35 - 16:55	Multisite - The Impact on the Upstream Community	Project Breakouts
	(Howard Huang, Huawei)	
	Multisite Team has conducted successful discussions on the use cases,	
	community. For an OPNEV project like Multisite which deals with multiple	
	upstream projects/communities, how to conduct work in upstream is vital	
	for our success. Since our usecases have been targeting both existing	
	official top level OpenStack projects (Nova, Neutron, Cinder, Keystone)	
	of the design summit to discuss how to best output our requirements to	
	the upstream projects/communities.	
16:55 - 17:15	KVM4NFV - The path to meet NFV requirement	Project Breakouts
	Yunhong Jiang, Intel	
	existing hypervisors for NEV features so that we can provide crucial	
	functionality in the NFV Infrastructure. In this session, we will discuss how	
	are the community collect the NFV requirement, debugging and patch the	
	kvm hypervisor, how to co-work with other project like CI/Yardstick to	
	environment and conduct the test to make sure we meet the requirement.	
17:15 - 17:30	Day 1 V	Vrap-up
17:30 - 19:00	Design Summit Happy Hour spo	insored by Huawei (main Atrium)
Day 2	Grand F	Grand G
09:00 - 09:10	Day 2	Kick off
09:10 - 09:25	OPNFV community dashboard: Bitergia	Project Breakouts

 09:10
 109:20
 Ray Paik/Aric Gardner, LF
 Project Breakouts

 09:25 - 09:55
 Jira Overview
 Project Breakouts

 Mark Beierl, EMC
 With its free license for open source projects, Atlassian's JIRA and JIRA
 Agile have become popular tools, especially in OPNFV. Whether you are new to JIRA or have already been using it in your project, this session is for those who want to gain a better understanding of how to use the tool, and learn how other projects are planning their work.

Topics covered will include:

JIRA's approach to Agile methodology, from Epic to Sub-Task, including the Scrum and Kanban variants Release planning Project and sprint tracking Creating your own Dashboard charts and custom queries

There will also be the opportunity to ask questions and direct the conversation to specific topics depending on the level of experience of the participants.

09.55 - 10.15	Orchestrator Lightening Round	Project Breakouts
	Hui Deng, China Mobile	
	OPNFV hasn't started the MANO's work yet, but some projects like SFC	
	and functest	
	has used some opensource for VNFM like Tacker and Cloudify,	
	In this session, user of VNFM from SFC and functest will explain how	
	they use it.	
	later Deng Hui will introduce one proposal about implementation of	
	orchestrator which	
	plans to run open source and will incooperate with OPNFV.	
	The session in the end will discuss how OPNFV should work with	
	orchestrator candidates.	
10:15 - 10:35	Orchestrator Lightening Round (Cont'd)	Project Breakouts
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10:35 - 10:50	Mornin	g Break
10:50 - 11:10	IPV6 - Service VM as IPV6 VROUter	Project Breakouts
	bill Hu (Al & I) and meetidksill Radslik (Cisco)	
	In this tutorial, we will demonstrate now to set up a service VM as an IPVo	
11.10 11.20	Foreign a clear path for collaboration with Madel driven interfaces	Draigest Dragkoute
11.10 - 11.30	(Deter Lee, ClearDeth Networke)	Project Breakouts
	(Peter Lee, ClearPatri Networks)	
	I his talk will include a demo of the Yang-orge toolkit to snowcase	
	how it streamlines the traditional SDLC process by enabling	
	common Model-driven tooling across the Requirements, Design,	
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16:30 - 17:00	Design Summit Close
17:00 - 18:30	Women of OPNFV and Allies Happy Hour