

CNTT Technical F2F Work Shop, Antwerp, Belgium, September 26-27, 2019

Sept 26-27 Antwerp, Belgium

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Overview

The CNTT (Common NFVI Telco Task Force) launched officially in June. Its mission is to define a common NFV Infrastructure to simplify the development and deployment of virtualized networking application for the telecom industry. The group held its first community wide F2F meeting with around 80 vendor and operator attendees, with the objective of gathering requirements for the contents of the Release 2 document.

GSMA and LF Networking are excited to announce that the next F2F meeting is schedule to follow the ONS EU Summit in Antwerp. This meeting will be a great opportunity to advance the Reference Model work, continue to refine the Reference Architecture definitions, and address implementation considerations for OPNFV and the OPNFV Verification Program (OVP). This will be a hands-on meeting, so please come prepared to work and propose solutions.

As a reminder, the CNTT GitHub can be found here: <https://cintt-n.github.io/CNTT/>

If you'd like to review the materials from the Paris meeting, they can be found here: [CNTT Technical F2F Work Shop, Châtillon, France, July 23-25, 2019](#)

The link to the GSMA and Linux Foundation agreement to support the CNTT initiative can be found here: <https://www.linuxfoundation.org/press-release/2019/06/linux-foundation-and-the-gsma-announce-partnership-to-further-align-nfvi-efforts/>

Logistics

When

September 26th and 27th 9am - 6pm local time (7a - 4p UTC)

Where

Radisson Blu Astrid Hotel, Antwerpen

Koningin Astridplein 7, 2018 Anvers

Room: Esperanza 3+4

This is the same venue as the ONAP, and OpenDaylight technical communities will be holding their meetings.

This page will be continue to be updated as additional logistics are confirmed.

F2F Meeting Notes Repositories

General Notes and Future Releases: https://etherpad.opnfv.org/p/CNTT_F2F_General_Meeting_Notes_Sept2019

Reference Model Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Model_Notes_Sept2019

Reference Architecture Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Architecture_Notes_Sept2019

Reference Implementation Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Implimentation_Notes_Sept2019

Testing & Validation: https://etherpad.opnfv.org/p/CNTT_F2F_Testing_Validation_Notes_Sept2019

Registration

Registration for this free developers event is now open and available [here](#). While walk-ins are welcome, registration is requested for planning and communications purposes.

Remote Attendance

Remote attendance is supported and will be facilitated through a zoom meeting bridge. Zoom bridge for remote attendees: <https://zoom.us/j/314170028>

Related Event @ ONS EU 2019

On the day prior to the start of this workshop, Wednesday, Sept. 25 @ 13:50, participants of this CNTT workshop are also urged to attend the ONS panel discussion, [The Common NFVI Taskforce \(CNTT\): Building Consensus on NFV Infrastructure](#), for an introduction to the Common NFVI Lifecycle Framework and discussion following.

What

Common NFVI Telco Task Force Developers Face to Face meeting.

Agenda

Day 1 - September 26, 2019

Sessions / Duration	Major Area & Key Topics	Presentation
	Facilitator(s)	Materials
	Detailed Description	
(08:00)	Registration	
Welcome https://zoom.us/j/314170028		
(09:00) 10 Mins Thu	Welcome Messages Heather Kirksey-Linux Foundation, Michele Zarri-GSMA <i>Housekeeping</i> <i>Conference Bridge, WiFi, Breaks and Lunch, Room Access</i>	 Poor audio quality as no patch into sound system was available. Used simple speaker/phone to monitor room audio.

(09:10) 15 Mins Thu	Opening Remarks Mark Cottrell-AT&T <i>Executive leaders invited to comment. Opening round table remarks to outline importance, perspectives, value being sought. Key partners, operators, GSMA, and LFN leadership invited up.</i> Level Setting - Rabi Abdel-Vodafone, Gergely Csatari-Nokia, Petar Torre-Intel <i>Current state of global framework build out, provide insight guidance on future release scope backlog.</i> Notes: https://etherpad.opnfv.org/p/CNTT_F2F_General_Meeting_Notes_Sept2019	 CNTT Int...NAL.pptx +  CNTT_SEP...pub.pptx
(09:25) 5 Mins Thu	Agenda Review Jonathan Beltran-AT&T <i>Brief overview of agenda and how organized</i>	 CNTT_Agenda_R...20190926.pptx
Refining The Standard – Reference Model		

(09:30) 60 Mins Thu	Botrange Release Current Status & Lessons Learned Rabi Abdel-Vodafone, Walter Kozlowski-Telstra <i>Brief status / main in-flight items</i> <i>Development velocity: Too fast, too slow, or just right?</i> <i>Barriers to engagement?</i> <i>Alignment challenges: new foundational constructs (i.e. levels)?</i> <i>What else has changed in our approach & thinking?</i> <i>Some components more complex than others?</i> <i>Methods and tools to produce? How do we get to 'stability'?</i> Notes: https://etherpad.opnfv.org/p/CNTT_F2F_General_Meeting_Notes_Sept2019	 CNTT_SEP...pub.pptx
(10:30) 30 Mins Thu	Break	
(11:00) 45 Mins Thu	RM Release 2.1 – Beyond Botrange Supporting Containers Beth Cohen Mark Shostak Bernard Tsai Key Questions: How do we resolve issues/directional conflicts? I.e. VMware and Kubernetes? Current State: Priorities (by Chapter or feature) Open Issues (Github) Targeted Next Release Roadmap: Identify and define key modelling gaps Milestones Timelines Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Model_Notes_Sept2019	
(11:45) 45 Mins Thu	LFN Community Projects Meetup #1 Gergely Csata-Nokia, Jim Baker-Linux Foundation, Jonathan Beltran-AT&T Projects Community Share and Idea Exchange Current Status Future Plans Q&A	 CNCf TUG...tro.pptx CNCf TUG:

(12:30) 30 Mins Thu	RM Release 2.1 – Beyond Botrange Infrastructure Abstraction & NFVI Features Mark Shostak-AT&T, Karine Sevilla-Orange, Bernard Tsai- DT <i>Infrastructure Abstraction</i> <i>NFVI Features</i> <i>Container Integration</i> <i>Storage</i> <i>Paris Issue Resolution</i> <i>Q & A</i> Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Model_Notes_Sept2019	 CNTT_Ant...0923.pdf
(1:00) 90 Mins Thu	Lunch	
(2:30) 45 Mins Thu	RM Release 2.1 – Beyond Botrange Security Mike Bustamente-AT&T, Walter Kozlowski-Telstra <i>Current state</i> <i>Opportunities for partnership</i> <i>Engaging the community</i> <i>Validation Considerations/Self Attestation</i> Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Model_Notes_Sept2019	 CNTT_Ant...ate.pptx
(3:15) 45 Mins Thu	RM Release 2.1 – Beyond Botrange External Interfaces (Ch 06) and Infrastructure Operations & Life Cycle Management (Ch 09) Pankaj Goyal-AT&T; Ian Gardner (Vodafone) <i>External Interfaces:</i> <i>ETSI model aligned NFVI Interfaces</i> <i>Infrastructure Operations & Life Cycle Management:</i> <i>Configuration and Lifecycle Management</i> <i>Resource and Service Assurance</i> <i>Capacity Management</i> <i>Infrastructure Maintenance</i> Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Model_Notes_Sept2019	 CNTT-Antwerp-RM-Ch6-Ch9.pdf
(4:00) 30 Mins Thu	Break	

(4:30)	LFN Community Projects Meetup #2	
30 Mins	Jim Baker-Linux Foundation, Jonathan Beltran-AT&T	
Thu	Projects	
	<i>Community Share and Idea Exchange</i>	
	<i>Current Status</i>	
	<i>Future Plans</i>	
	<i>Q&A</i>	
Refining The Standards – Reference Architectures		
(5:00)	Botrange - RA1 v1.1 – Current and Future	 CNTT_SEP...pub.pptx
50 Mins	Rabi Abdel-Vodafone, Walter Kozlowski-Telstra	
Thu	<i>Status Update</i>	
	<i>Principles</i>	
	<i>Requirements</i>	
	<i>Roadmap</i>	
	Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Architecture_Notes_Sept2019	
(5:50)	Day 1 – Wrap Up	
10 Mins	Jonathan Beltran-AT&T	
Thu	<i>Open Issues</i>	
	<i>Communications Updates</i>	
	<i>Logistics Updates</i>	

Day 2 - September 27, 2019

Planning The Next Phase				
	TECH NOLOGY - Esperanza 3	Presentation Materials	INTEGRATION - Esperanza 4	Presentation Materials
	https://zoom.us/j/314170028		https://zoom.us/j/542420144	

(9:00) 10 Mins Fri	Day 2 - Opening – Logistics / Day Ahead Jonathan Beltrán-AT&T <i>Brief overview of agenda and how organized</i>		Day 2 - Opening – Logistics / Day Ahead Rick Tennant-AT&T <i>Brief overview of agenda and how organized</i> <i>Recorded Session:</i>  zoom_0.mp4	
(09:10) 40 Mins Fri	Reference Architecture – Open Stack Based Reference Architecture (Botrange) Deep Dive Pankaj Goyal-AT&T, Ian Gardner-Vodafone	 CNTT_Ant... v1.pptx	Reference Implementation Mike Fix-AT&T, Fu Qiao-China Mobile, Mark Shostak-AT&T <i>Project Goals/Objectives</i> <i>Review the Project Proposal</i> <i>Keys to Success with OPNFV:</i> <i>Intake</i> <i>Onboarding</i> <i>CI Automation</i> <i>Timelines and Milestones</i> <i>Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Implementation_Notes_Sept2019</i>	 Antwerp_Ch8-Te...9_CLEAN RI.pdf

	• Levels (L2, L3) • Current Outlines and Content • Issues & Gaps • Backlog Generation Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Architecture_Notes_Sept2019		
(09:50) 40 Mins Fri	Reference Architecture – Beyond Botrange		Infrastructure Labs Mike Fix-AT&T, Fu Qiao-China Mobile, Mark Shostak-AT&T <i>Requirements</i> <i>Leverage Lab Templates - PDF and SDF, etc.</i> <i>Intake and on boarding:</i> <i>Lab Procurement (Present/Future)</i> <i>Notes:</i>

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https://etherpad.opnfv.org/p/CNTT_F2F_Infrastructure_Labs_Notes_Sept2019



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	Deep dive into topic areas identified on Thursday related to scope and direction Beyond Botrange, i.e. OpenStack contained cloud OR VMware. MVP development session to outline : next target architecture(s), what the approach is, what technologies, etc., iterate and improve upon on latest version RA1 1.0 Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Architecture_Notes_Sept2019			
(10:30) 30 Mins Fri	Break			

(11:00) 45 Mins Fri Reference Architecture – The need for K8s Ref Arch Petar Torrey, Intel, Rabi Abdel-Vodafone, <i>Kick off the discussion with some Ideas, Requirements.</i> Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Reference_Architecture_Notes_Sept2019	 RA_k8s_2...920.pptx	Testing & Validation Mike Fix-AT&T, Fu Qiao-China Mobile, Mark Shostak-AT&T, Lincoln Lavoie CVC Introduction - Lincoln Lavoie Table of Contents Open Items Verification & Validation Terminologies Methodology & Goals Intake into OVP Framework CNTT > OPNFV > CVC Communication Test Case Gap Review/Discussion Notes: https://etherpad.opnfv.org/p/CNTT_F2F_Testing_Validation_Notes_Sept2019	 Antwerp_Ch8-Te...CLEAN TEST.pdf
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(11:45) 45 Mins Fri (30 minutes lost?)	Refere nce Archit ecture - Open Discu ssing about K8s Ref Arch Rabi Abdel- Vodaf one, Gergel y Csatar i- Nokia Challe nges Issues Appro ach needed Notes: <a href="https://etherpad.opnfv.org/p/CNTT_F2F_Refere
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(1:00) 90 Mins Fri	Lunch		
	Major Area & Key Topics Facilit ator(s) Detail ed Descri ption https:// zoom. us/j /31417 0028	Presentation Materials	

(2:30) 60 Mins Fri	Reference Architecture - Developing K8s Ref Arch Bernard Tsai, DT, Rabbi Abdel-Vodafone, Gergely Csatar <i>i-Nokia</i> Bernard Tsai Rabbi Abdel-Vodafone Gergely Csatar	 C NTT_SEP...pub.pptx
Building The Ecosystem		
(3:30) 30 Mins Fri	Release & Lifecycle Planning	

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are
the
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	Identify and define key gaps Milestones Timelines Notes: https://etherpad.opnfv.org/p/CNTT_F2F_General_Meeting_Notes_Sept2019	
(4:00) 30 Mins Fri		Break
(4:30) 60 Mins Fri	Recruiting Community Engagement Adoption Marketing Beth Cohen - Verizon, Mark Cottrell - AT&T, Heather Kirksey - Linux Foundation, Markus Wueppling - Vodafone, Michele Zarri - GSMA Questions to address:	

What
else
do we
need
to do
to get
the
right
people
,
skills,
costs,
internal /
external
volunteers?

How
are
we
doing
on
senior-
level,
engaged
participation?

What
are
companies'
and
organizations'
primary
interests and
how
can
we
serve
them
better?

Who
are
the
key
influencers &
stakeholders
who
will
make
decision to
migrate to
Common
NFVI?

Do
we, in
our
respective
capabilities,
have
direct
access
to
those
influencers?

	What shall our messaging be to those key influencers as of today? What are our unique 'channels' to adoption? Notes: https://etherpad.opnfv.org/p/CNTT_F2F_General_Meeting_Notes_Sept2019	
(5:30) 30 Mins Fri	Day 2 – Wrap Up Next Steps Progress Assessment Closing Comments Beth Cohen - Verizon, Rabi Abdel-Vodafone, Walter Kozlowski-Telstra, Mark Cottrell-AT&T, Heather Kirksey-LFN, Michelle Zarri-GSMA <i>Action Items</i>	

Accomplishments

What did we get done?

What did we gain alignment/agreement on?

What did we hear and do we need to adjust?

What do we need to collaborate further on?

Notes:
https://etherpad.opnfv.org/p/CNTT_F2F_General_Meeting_Notes_Sept2019

CNTT Frequently Asked Questions (FAQ)



FAQ List_9.22.19.pdf

Contacts

Agenda contacts

Jonathan Beltran [Jonathan Beltran](#)

Site Contacts

A/V Contacts