

ETSI NFV Conference

Evolving NFV towards the Next Decade Celebrating the 10th Anniversary of ETSI NFV

Open Infrastructure and Standards - We Are in This Together!

Ildikó Váncsa

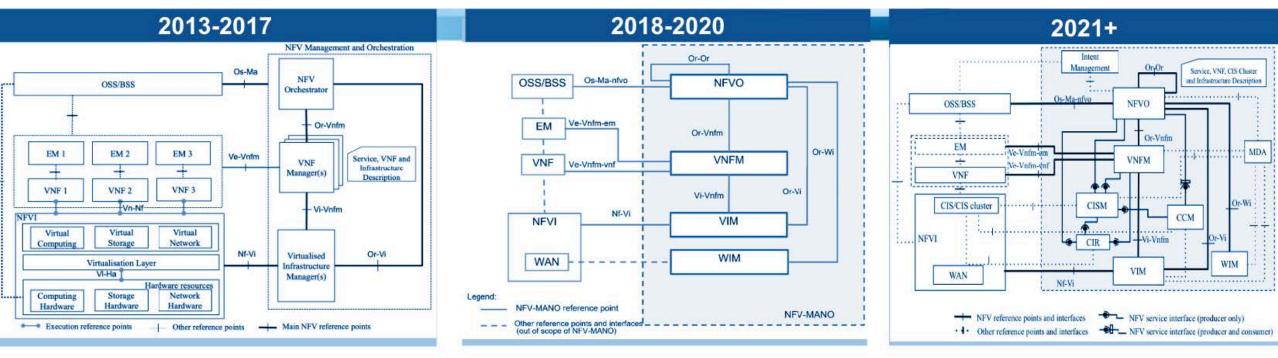
Director of Community, Open Infrastructure Foundation

07/03/2023



History

ETSI NFV Evolution

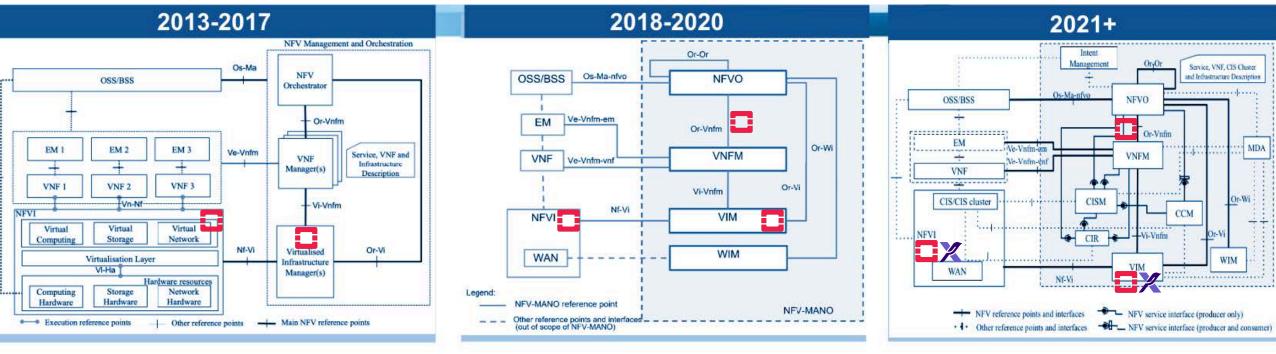


Source:

In the Light of Ten Years from the NFV Introductory Whitepaper - https://www.etsi.org/images/files/ETSI-WhitePapers/ETSI-WP-53-In-the-Light-of-Ten-ears-from-the-NFV-Introductory-Whitepaper.pdf



ETSI NFV Evolution



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Open Collaboration

Software and Standards Over the Past Decade

Key to Evolving Standards and Technology

- Open source software development enables innovation and accelerates adoption
- De-facto standard APIs and interfaces aren't always enough
- Interoperability an ongoing challenge that calls for consensus





OpenStack from A to Z

Austin - 2010 October

Bexar - 2011 February

Cactus - 2011 April

Diablo - 2011 September

Essex - 2012 April

Folsom - 2012 September

Grizzly - 2013 April

Havana - 2013 October

Icehouse - 2014 April

Juno - 2014 October

Kilo - 2015 April

Liberty - 2015 October

Mitaka - 2016 April

Newton - 2016 October

Ocata - 2017 February

Pike - 2017 August

Queens - 2018 February

Rocky - 2018 August

Stein - 2019 April

Train - 2019 October

Ussuri - 2020 May

Victoria - 2020 October

Wallaby - 2021 April

Xena - 2021 October

Yoga - 2022 March

Zed - 2022 October

Antelope - 2023 March - Estimated

Bobcat - 2023 October - Estimated



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OpenStack Antelope Highlights

Release is scheduled for the week of March 20th!

https://releases.openstack.org/antelope/highlights.html

Designate - multi-tenant DNSaaS

Designate zones can now be shared across multiple projects

Nova - Compute

Ability to manage the power consumption of dedicated CPUs

Neutron - Networking as a Service

- Implementation of the secure role-based access control (sRBAC)
- Support of Neutron dynamic routing with ML2/OVN

Tacker - Generic VNFM and NFVO

- AutoHeal and AutoScale triggered by an external monitoring tools such as Prometheus without NFVO
- CNF auto scale via performance management threshold interface
- Update network configuration via Change Current VNF Package API



The Power of Collaboration



OpenStack Summit Barcelona

- OPNFV Doctor & OpenStack
 Vitrage Demo
- Mobile infrastructure on stage
- Live call with failover
 - Call didn't drop after cutting the cable
 - Successful collaboration of standards and open source projects



ETSI NFV and OpenInfra at the Project Teams Gathering



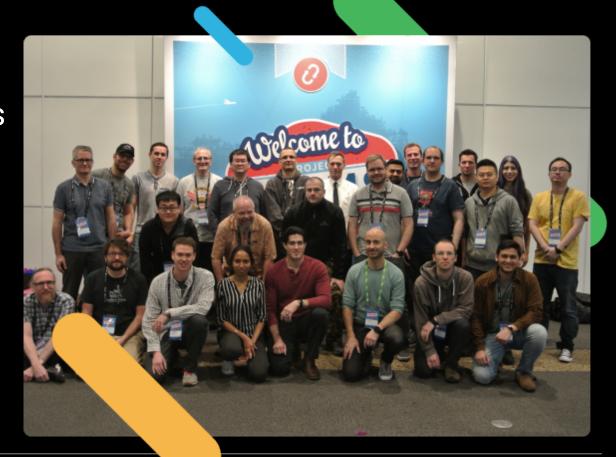
Project Teams Gathering (PTG), Denver

- In-person discussion between OpenStack contributors and ETSI ISG NFV representatives
- Closing the feedback loop and accelerating conversations
- Takeaways
 - Gaps in the open source software and APIs
 - Standards and software-development languages need to converge more
 - Real life examples and applicability need to be provided to open source communities for context



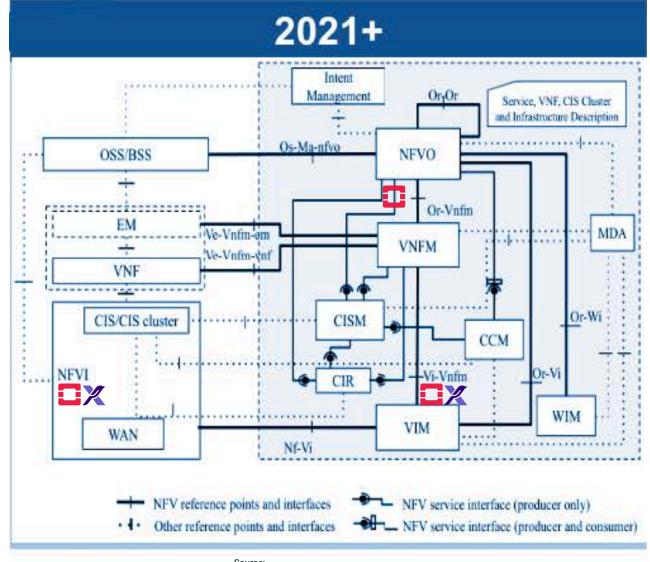
OpenInfra Project Teams Gathering

- March 27-31, Online Event
- Contributor-focused event to plan roadmap and discuss release priorities and further technical topics
- Registration is open!



Evolution Path

ETSI NFV Now



LINUX

Open source operating system standard

OPENSTACK

Open source **cloud** standard

KUBERNETES

Open source container orchestration standard

INFRASTRUCTURE



OPENSTACK

Open source **cloud** standard

KUBERNETES

Open source container orchestration standard

NFRASTRUCTURE



- a LOKI Architecture Example

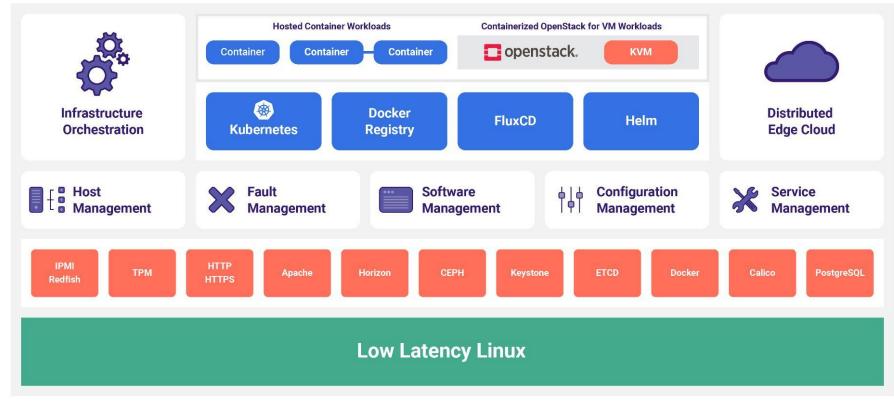
STARLINGX

StarlingX provides a **deployment-ready**, **scalable**, **highly reliable** edge infrastructure software platform

StarlingX platform services focus on

- Easy deployment
- Low touch manageability
- Rapid response to events
- Fast recovery
- Distributed Cloud architecture

Currently **running in production** at large telecom operators such as **T-Systems**, **Verizon**, **Vodafone**, **KDDI**, and more.



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VANCOUVER!

→ JUNE 13-15, 2023

OpenInfra
SUMMIT > VANCOUVER '23

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openinfra.dev/summit





Thank You!

