Closing & Looking Forward

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Key Points

- ❑ A solid set of interfaces, APIs, VNF and network service descriptors specifications.

- ❑ NFV APIs are implemented & testing begin (onboarding, VNF LCM).

- ❑ Collaboration with open source communities (OSM, ONAP).

- ❑ Release 3: Enriching the NFV Architectural Framework, preparing NFV for expansive deployment and enhanced operation, Stage 3 work has started.

NFV Deployments and Challenges Panel

Technology Supplier Key Messages

Ericsson

ᐁ *Ericsson clearly see a strong momentum towards 5G and we see 5G Core being deployed during 2019. This further increases the need for operators to have a working NFV cloud platform supporting multivendor VNF's coupled with full LCM and orchestration. We see ETSI-NFV work as a key enabler to create the necessary interoperability and define functionality and we have since inception been a strong contributor to the important joint work in ETSI-NFV. To continue the journey we together need to focus even more on speeding things up and to address gaps that improve automation and LCM as well as avoiding over-standardization by leveraging existing de facto solutions and focusing standardization efforts on complementing them.*

Nokia

ᐁ *ETSI helped us achieve consensus on NFV architecture, APIs and delivers standard product evaluation/comparison metrics*

ᐁ *ETSI proposed model is on the good track, be patient and implement. Jumping off the train does not help*

ᐁ *Standardization does not replace competence. Invest, go deep and build a solid cloud*

ᐁ *Integration reveals differences in implementation and in standards interpretation. Iterative approach, agility, flexibility and openness required on all sides*

ᐁ *Implementation also reveals standardization gaps. Loop-back, contribute and finalize standards (stage 3 specs essential for integration)*

NFV Deployments and Challenges Panel

Network Operator Key Messages

NTT Docomo

- *ETSI NFV standards are a keystone to realize multi-functional/multi-vendor NFV systems, now and towards 5G. NTT DOCOMO has promoted virtualization of network nodes leveraging the architecture and the virtualization concepts developed by ETSI NFV. Detailed protocol and data model specifications are a big milestone helping tremendously to integrate our multi-vendor environment. But work is not finished, and we, altogether need to further help and contribute in ETSI NFV standardization to define a completely operational NFV environment. Open discussion, consensus-based specifications defined among operators and partners will realize and ease the introduction of NFV and flexible virtualized network operations at a scale.*

Telefonica

- *NFV standards have helped us in pioneering NFV deployment, and not only the detailed specs (SOL005 and the others) as the way of guaranteeing actual interoperability, but the earlier, more conceptual standards, providing the guidelines to initiate an early deployment (that allowed us to collect the archetypal low-hanging fruit) with solid foundations to support a transition to a completely open approach also reveals standardization gaps.*

Thank You!

Additional information

More information

- NFV Technology Page (information) **http://www.etsi.org/nfv**
- NFV Portal (working area) **http://portal.etsi.org/nfv**
- NFV Plugtest **https://www.etsi.org/index.php/news-events/news/1332-2018-09-news-3rd-etsi-nfv-plugtests-report-now-available**
- Open Area:
    - Published Docs: https://docbox.etsi.org/ISG/NFV/Open/Publications_pdf
    - Working Drafts http://docbox.etsi.org/ISG/NFV/Open/Drafts/
    - Issue tracker http://nfvwiki.etsi.org/index.php?title=NFV_Issue_Tracker
    - Detailed Release 3 specification progress can be found at: https://nfvwiki.etsi.org/index.php?title=Feature_Tracking