

CC4BA – Business Model for an Open Testbed Platform

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CC4BA – Certification Centre for Business Acceleration of SDN and NFV

- CC4BA is an ongoing activity in the framework of EIT Digital, to be completed by the end of 2017
- 7 partners involved
- Work stream 1: Provision of a vendor-neutral orchestration and management platform
- **Work stream 2:** Enabling trust for SDN/NFV testing and certification: A business case and feasibility study



CC4BA – Activity Structure WS2

- Realization of a **market study** for the possible setup and operation of an SDN testbed in the form of a commercial service provider.
- Definition of a possible **service portfolio** of such a commercial service provider. Here, both **proven standard compliance** as well as **extended certification** based on the needs of telco operators and potential other customer types are to be addressed.
- Description and best practices for **operational procedures** of an SDN/NFV testbed.
- **Dissemination** of these findings.

SDN/NFV Market Situation

- According to Allied Market Research, the SDN market is expected to reach \$132.9 billion by 2022, average annual growth of 47% until then.
- The Nfv market is expected to be even bigger.
- Telkos and service providers have started to strategically plan for this upcoming massive transformation.
- Open interfaces and open source software play a key role.
- The well-established ecosystem of vendors and operators is heavily changing.
- There is an increasing need for certified/approved interoperability between the different SDN/Nfv modules.

Merger of ONF and ON.Lab

- Announced 2 weeks ago:
The Open Networking Foundation (ONF) and the Open Networking Lab (ON.Lab) are planning to merge.
- Important movement to bring SDN standards and open source software development closer together



See <https://www.opennetworking.org/news-and-events/press-releases/3194-open-networking-foundation-and-on-lab-to-merge-to-accelerate-adoption-of-sdn>

ONF Authorized Conformance Testing Labs – Focus on OpenFlow

- 7 authorized test labs: 5 in Asia, 2 in the US
- Approved test tools
- Clear requirements and on-boarding process
- Very much focussed on OpenFlow
- No commercial test lab – mainly affiliated to universities or research centers

→ We could be the first ONF-certified test center in Europe – already under discussion with the ONF



Example: The SoftFIRE project

- SoftFIRE is an EC-funded project
 - Makes available a federated SDN/Nfv testbed
 - This infrastructure can be used by 3rd parties for the development and test of new services/applications.
 - First competitive Open Call for testbed usage:
 - Closed on Sep. 20th 2016
 - 26 applications received !!!
 - Trials will start soon
 - Hackathons and a 2nd Open Call planned.
- There is a lot of interest in the community for this kind of testbed facility for SDN/Nfv



SOFTFIRE



Possible service portfolio

- Large range of possible services for a SDN/NfV testbed
 - Interoperability, performance, standards conformance, etc.
 - Technology consulting
- Perfect portfolio very much depends on the customers that should be adressed
- Currently we are trying to estimate the potential market size for different service offerings – to be completed by the end of 2017

Summary

- SDN/NfV is the next wave of network/service transformation.
- This concept is about to change not only the technical infrastructure but also the processes/organizations of the involved parties significantly.
- The systems are becoming more complex but also more automated and softwarized.
- Open innovation and open software will be key components.
- There is a strong need for testing facilities:
 - For SDN/NfV components and their interoperability
 - For new services – including customer involvements
 - For new business models