



Liaison Notification

Date April 29th 2016
Subject Publication of ONF TR-526 “Applying SDN Architecture to 5G Slicing”

To 3GPPLiaison@etsi.org

CC Erik Guttman (3GPP TSG SA) erik.guttman@gmail.com
Toon Norp (3GPP TSG SA WG1) toon.norp@tno.nl
Frank Mademann (3GPP TSG SA WG2) frank.mademann@huawei.com
Andy Malis (ONF Services Area Director) andrew.malis@huawei.com

Reply to Liaisons@opennetworking.org

From Dave Hood (Architecture WG Chair) dave.hood@ericsson.com
John Kaippallimalil (Mobile Network WG Chair) John.Kaippallimalil@huawei.com

Dear Colleagues,

We are pleased to inform you about the publication of ONF Technical Recommendation TR-526, entitled *Applying SDN Architecture to 5G Slicing*. The TR describes how key functional aspects of the SDN architecture apply for the enablement of the business-driven concept of network slicing, one of the key concepts for 5G, as envisioned by NGMN.

TR-526 refers to the business perspective for the term and understanding of 5G slicing, with the goal of a synthesis to its technical representation using SDN architectural concepts, attempting to contribute to discussions and work emerging/ongoing in the industry, including other standards development organizations.

By providing a complete view of all resources required to serve a business purpose, the SDN architecture supports the key principles of Slicing in a network. As a conceptual framework for a standardized platform supporting Network Slicing, it can serve as one of the technical building blocks to fulfill the business requirements for the fifth generation of mobile technology (5G).

Applying the SDN architecture, an SDN controller’s Client Context provides the complete abstract set of resources and supporting control logic for constituting a slice, including the complete collection of related client service attributes. As such, a 5G slice is comparable to, if not the same as, an SDN client context, isolated by the controller’s virtualization and client policy functions and continuously optimized by the orchestration and global policy functions.



OPEN NETWORKING
FOUNDATION

The released document is available
at https://www.opennetworking.org/images/stories/downloads/sdn-resources/technical-reports/Applying_SDN_Architecture_to_5G_Slicing_TR-526.pdf.

We invite you to consider the concepts described and would be pleased to receive any feedback you may consider appropriate, including any further considerations you may have regarding the enablement of slicing using SDN.

We would also like inform you that the ONF Mobile Network Working Group has initiated work on SDN Enablers for 5G, currently being internal work in progress in an early stage. At this point the TOC includes: SDN enablers (including SDN Resources, Mobile Network Connection Enablers, North Bound Interface Abstractions), Orchestration and Control of SDN Resources.

Looking forward to support enabling more capabilities on 5G using SDN, we are open to a further and deeper collaboration with you in all related areas.

Sincerely,
Dave Hood
Chair Architecture WG

John Kaippallimalil
Chair Mobile Network WG