

# Next Generation Mobile Networks

## NGMN Liaison Statement to 3GPP TSG SA WG2, 3GPP TSG CT WG3, 3GPP TSG CT WG4



**Title:** LS from the NGMN P1 Service-Based Architecture Project to 3GPP

**Source:** NGMN Alliance Project P1 “Service-Based Architecture in 5G”

**To:** 3GPP TSG SA WG2, 3GPP TSG CT WG3, 3GPP TSG CT WG4

**CC:** 3GPP TSG SA, 3GPP TSG CT

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**Contacts:** Dan Wang ([wangdanyjy@chinamobile.com](mailto:wangdanyjy@chinamobile.com)),  
Klaus Moschner ([Klaus.moschner@ngmn.org](mailto:Klaus.moschner@ngmn.org))

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### 1. About the NGMN Alliance

The NGMN Alliance is an industry organization of leading world-wide Telecom Operators, Vendors and Research Institutes (see [www.ngmn.org](http://www.ngmn.org)) and was founded by international network operators in 2006. Its objective is to ensure that the functionality and performance of next generation mobile network infrastructure, service platforms and devices will meet the requirements of operators and, ultimately, will satisfy end user demand and expectations. The NGMN Alliance will drive and guide the development of all future mobile broadband technology enhancements with a focus on 5G. The targets of these activities are supported by the strong and well-established partnership of worldwide leading operators, vendors, universities, and successful co-operations with other industry organisations.

### 2. NGMN 5G SBA Work-Programme, Requirements and Architecture (P1)

NGMN operators believe that a Service-Based Architecture (SBA), characterized by modularized services and lightweight interaction protocols, is suitable for a 5G architectural framework. The SBA approach provides a variety of benefits for the 5G architectural framework, e.g. flexible and adaptable network capabilities, faster development cycles, updates, and a dynamic discovery and launch of services on demand in the network. In March 2017 the NGMN Alliance approved the work item for “Service-based architecture in 5G”, with the objective to investigate the SBA approach from an operational perspective and to document the high-level requirements of the SBA approach, the related use cases, and guidelines for operators to leverage a service-based architecture in 5G.

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NGMN acknowledges that 3GPP is working on the normative phase of a Service-Based architecture for 5G, with an emphasis on the control plane for the R15 time-frame. NGMN operators kindly recommend that 3GPP takes NGMN operators' requirements into account and defines the 5G baseline architecture using the SBA approach.

### **3. Intention of the LS and required actions**

NGMN operators expect that SA2 will develop the SBA approach for the 5G system in Release 15 and continue to enhance the SBA approach beyond Release 15. Furthermore NGMN operators kindly request CT3/CT4 to work on the appropriate protocol design for the Service-Based Interfaces in Release 15.