

# Next Generation Mobile Networks

NGMN Liaison Statement to IEEE 1914, X-RAN, 802.1 TSN, 802.1 CM, MEF, CPRI, 3GPP RAN3, 3GPP SA5, TIP vRAN fronthaul, TIP Solutions Integration, Open Air Interface, Small Cell Forum, ITU SG15, TTA

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**Title:** NGMN “RAN functional split and x-haul” work item

**Source:** NGMN Alliance work item “RAN functional split and x-haul”,

**To:** IEEE 1914, X-RAN, 802.1 TSN, 802.1 CM, MEF, CPRI, 3GPP RAN3, 3GPP SA5, TIP vRAN fronthaul, TIP Solutions Integration, Open Air Interface, Small Cell Forum, ITU SG15, TTA

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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 RAN functional split Work-Programme, Requirements and Architecture

In February 2017 the NGMN Alliance approved the work item for “RAN functional split and x-haul”, with the objective to understand the RAN decomposition for 5G networks. This work item extends from the end-to-end architecture framework programme.

The scope of the RAN functional split and x-haul work item covers:

- Technical analysis of RAN functional split options applied to 5G use cases and different deployment scenarios
- Mapping RAN splits to suitable x-haul technology options and performance criteria
- Assessing the implications of RAN decomposition on network slicing
- Understanding options for realising dynamic and reconfigurable RAN functional splits and the impact this can have on x-haul.

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## 3. Intention of the LS and required actions

This LS is to make you aware of the publication of first deliverable from the “RAN functional split and x-haul” work item. This deliverable, “NGMN Overview on 5G RAN Functional Decomposition”, provides an overview of the various RAN functional split options and an overview of the related industry activities.

## References

None.