

Title: Liaison on NGMN 5G White Paper

Source: NGMN Alliance

To: IETF

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Attachments: NGMN 5G White Paper

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) 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. Introduction NGMN 5G Initiative

Over the past few years LTE has established itself as a truly global technology and will continue to evolve. It is anticipated that LTE will remain the dominant technology platform of wireless broadband for the next decade, deployed in a growing number of frequency bands, and supported by a vibrant eco-system of devices and innovative service offerings.

The requirements for a new technology platform, to complement LTE, are being driven by high density demand and ever increasing consumption of a wide variety and variability of devices, services and applications. Furthermore, NGMN expects new use cases such as massive machine type communication (like M2M, Internet of Things), and more stringent demands for real time communications. This has to be delivered in a sustainable and cost-efficient way while continuing to provide consistent customer experience.

Beginning of 2014, the Board of the NGMN Alliance made the decision to strongly focus the future NGMN work-programme on defining the end-to-end requirements for 5G. The Board also ensured that NGMN will continue to accelerate the development of LTE-Advanced.

3. NGMN 5G White Paper

Inspired by the strong industry collaboration which materially contributed to the success of LTE and its adoption across the world, a global NGMN initiative had been launched to deliver key operator requirements intended to guide the development of future technology platforms and related standards, create new business opportunities and satisfy future end-user needs. The work of the NGMN 5G Initiative has been carried out in close collaboration with all industry partners and relevant initiatives and within the well-established NGMN processes.

The major outcome of the 5G Initiative – the public NGMN 5G White Paper –has now been finalised. It intends to guide the standardisation and to support the subsequent availability of 5G from 2020. The White Paper sets challenging technical and other ecosystem requirements for 5G, and will accelerate the adoption of new emerging technology innovations.

The in-detail presentation of the NGMN 5G White Paper (by NGMN Board Directors and Workstream-leads) and open discussion (with key industry stakeholders) took place at the NGMN Industry Conference & Exhibition 2015 on 24th and 25th March 2015 in Frankfurt/Germany.

The NGMN Board sees the publication and dissemination of the NGMN 5G White Paper only as the initial step on the roadmap towards 5G launch. NGMN will make sure through its upcoming work-programme and the close collaboration with all its Partners that 5G solutions will fulfil the outlined requirements.

4. Intention of the LS and required actions

The intention of this liaison is to inform IETF about the NGMN 5G vision, requirements, guidelines and way forward outlined in the NGMN 5G White Paper. Please share the NGMN 5G White Paper with all your relevant working groups or projects and kindly ask them to consider this in their future work. Please make them aware of the future NGMN 5G related planning as outlined above.

We would like to invite IETF to provide feedback on the NGMN 5G White Paper. In addition, we would like to inform IETF that it is our intention to keep IETF updated on our future NGMN 5G work-programme and the related requirements at major milestones.

We look forward to deeper and further collaboration with IETF on 5G related activities.