

NGMN Alliance Update on 5G Work Programme 07/2015

For GSC19

Klaus Moschner NGMN Office 16th July 2015

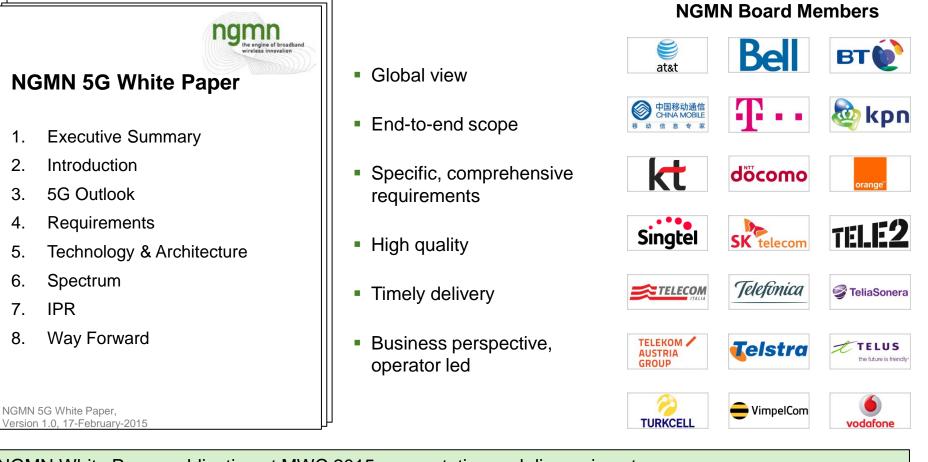
The NGMN Alliance Is Supported by Key Industry Players





NGMN 5G White Paper finalised – approved by the NGMN Board

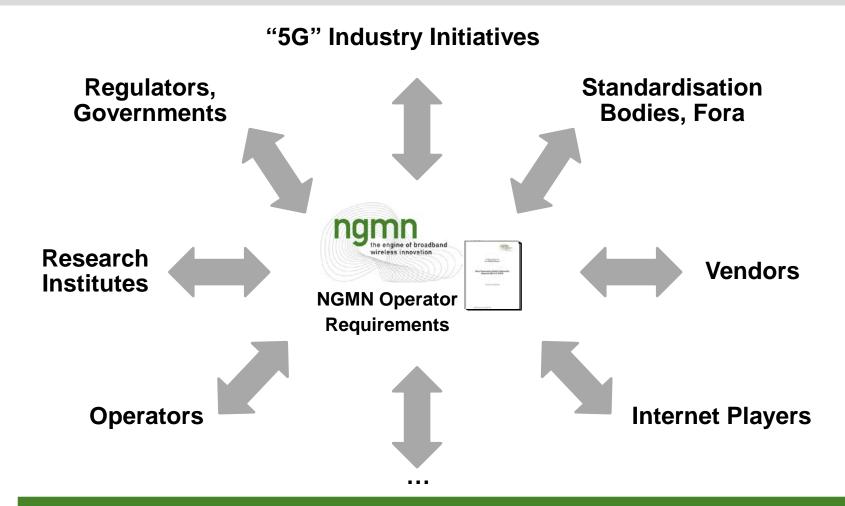




NGMN White Paper publication at MWC 2015, presentation and discussion at NGMN Industry Conference & Exhibition 2015

NGMN to reach out and co-operate with all ecosystem stakeholders





Orchestrated Effort for Global and Aligned Development of "5G"

NGMN Role in the 5G Development



2015			2016			2017			2018			2019			2020								
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Definition of requirements and performance targets									Tracking and driving of standardization and certification, guidance on critical issues						Development of use-cases implementation guidelines								
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NGMN 5G Work Programme: Approved and Launched



Business Principles Group BPG

Objective:

- Ensuring that 5G is architected and underpinned by solid business principles
- Identifying & modelling elements & capabilities of future business models

Requirements & Architecture	Spectrum	IPR Forum
 Objective: Providing timely guidance on 5G solutions to all relevant industry stakeholders – definition of technical requirements, architecture principles, input to SDOs and other organizations. 	 Objective: Providing continuous contributions to international fora and groups regarding NGMN spectrum requirements, in order to ensure the allocation of sufficient spectrum for future 5G services. 	 Objective: Co-operate with relevant industry partners to develop implementation plans for the 5G IPR recommendations outlined in the NGMN 5G White Paper.



Thank You!

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NGMN Alliance publishes white paper on 5G requirements

Tuesday 3 March 2015 | 13:05 CET | News

The Next Generation Mobile Networks (NGMN) Alliance has released its white paper on 5G at the Mobile World Congress, outling the operator requirements intended to support the standardisation and subsequent availability of 5G by 2020. The NGNM started work on 5G last year, setting up a team of over 100 industry experts to research the white paper. The group will discuss the paper and industry developments further at a conference later this month in Frankfurt.

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The white paper's vision for 5G includes new use cases and business models building on the extended network capabilities of the next generation of networks. 5G networks will support much greater throughput, lower latency and higher connection density. To cope with the growing number of use cases and business models, 5G must provide a high degree of flexibility and scalability by design, the paper said. In addition, it should show foundational shifts in cost and energy efficiency.

While the commercial introduction of 5G is expected to vary from operator to operator, the NGMN encourages industry players to work towards availability of global and commercial products by 2020. The NGMN said will continue to work with its partners on ensuring 5G equipment fulfils the requirements in its white paper.

http://www.telecompaper.com/news/ngmn-alliance-publishes-white-paper-on-5g-requirements--1068683

English 中文 日本部 한국어 Español Français 실패 MOBILE Latest v MWL TV 2015 v Blog v Analysis v Video v On Stage v Apps v Asia v Money v Devices v Home > Featured Content > Home Banner > NGMN unveils 5G operator wishlist 3rd March 2015 NGMN unveils 5G operator wishlist in Share 10 Tweet 17 8+ Teilen Share 6 A 5G White Paper unveiled by the Next Generation by Guest Mobile Networks (NGMN) Alliance aims to settle industry debate over the technology's future standards. Following a decision late last year by the NGMN board of more than 20 operator CTOs, a team of 100 technical specialists were asked to contribute towards defining the end-to-end requirements for 5G. The resulting White Paper, according to the NGMN, now presents a consolidated view of operator requirements intended to support the standardisation and subsequent availability of 5G for 2020 and beyond. "The White Paper provides essential and long expected input for the work of many industry bodies", said Peter Meissner, CEO of the NGMN Alliance. "Together with our global partners from within industry and research, we will now focus on setting up and implementing a 5G workprogramme ensuring that future solutions will meet our ambitious targets." The NGMN document states it would like to see any 5G ecosystem as being global, lacking in fragmentation and open to innovation. However, while conceding that commercial deployment timescales will vary across the operator community, it urges 5G availability by 2020. The White Paper is set for open discussion at the NGMN industry conference in Frankfurt this

The White Paper is set for open discussion at the NGMN industry conference in Frankfurt this month. However, equipment vendors have been calling for open collaboration across industry

http://www.mobileworldlive.com/ngmn-unveils-5g-operator-wishlist (Mar. 2015)





http://www.theregister.co.uk/2015/03/04/carriers want 5g to do everything evervwhere/

(Mar. 2015)

FierceWirelessEurope Telecoms EMEA

NEWS TOPICS ANALYSIS FEATURE MARKETPLACE

Topics: Network Infrastructure

Mobile industry seeks to put the user at the heart of 5G networks

March 24, 2015 | By Anne Morris



FRANKFURT, Germany--The mobile industry has often been criticized for putting technology ahead of what users actually want, but operators and vendors appear to placing significantly more effort on putting users first as they prepare for "5G" networks.



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As executives from across the mobile industry gathered here for the NGMN Industry Conference & Exhibition 2015, speakers and panelists alike sought to underline that 5G will start with use cases and not with the technology. The conference aims to build on the momentum generated by the publication of the NGMN Alliance's white paper on 5G that outlined 25 "imagined" use cases for the next mobile generation.



When we were discussing 4G, we were driven by the fact that 3G was not a success," observed Joachim Horn, CTIO of Tele2, Horn noted that some



Gefällt mir operators--fresh from spending in what some cases was billions of euros on 3G licences--were not happy, and much of 4G was about trying to solve the shortcomings of 3G networks.

http://www.fiercewireless.com/europe/story/mobile-industry-seeks-put-userheart-5g-networks/2015-03-24

(Mar. 2015)



MOBILE / 5G



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Bruno Jacobfeuerborn, chairman of the NGMN Alliance and Deutsche Telekom CTO, shares his thoughts on the challenges, opportunities and costs of 5G.

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http://www.lightreading.com/mobile/5g/ngmn-chairman-outlines-his-5gvision/v/d-id/714242

(Mar. 2015)



Home 5Qs or

5Qs On 5G: With NGMN

🕐 March 06, 2015 🛛 🖉 5Qs on 5G, Standardisation, Virtualisation 🛛 🦕 Comments Off

'Inside5G's '5Qs on 5G' series is back and it comes courtesy of Philipp Deibert of NGMN, just after the association has released its much-discussed **White Paper** at the Mobile World Congress. So there's no better time to catch up with the NGMN Alliance to find out exactly what they're all about.

What are the main challenges faced in the development and standardisation of 5G?

5G should leverage an eco-system that is truly global, free of fragmentation and open for innovations. To this end, NGMN calls the industry to develop a single 5G standard based on the principles of open and global standards, utilising open interfaces and delivered based on globally available and non-proprietary solutions.

With regards to the system performance and capabilities, improvements are needed in three dimensions when the baseline 4G system (which in the White Paper is considered to be 3GPP Release-12) is compared against the 5G requirements:

- network capabilities
- enablers for operational sustainability
- enablers for business agility

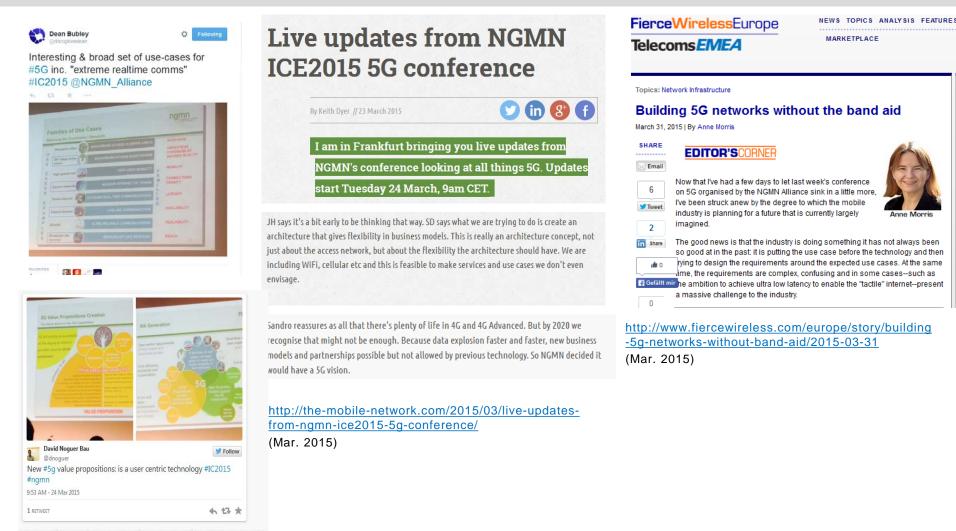
Substantial improvements are needed in all three dimensions to bring the current state of the art system on par with the requirements.

Have you identified any 5G technologies that look of particular interest?

In 5G, there is a need to push the envelope of performance to provide, where needed, for example, much greater throughput, much lower latency, ultra-high reliability, much higher connectivity density,

http://inside5g.com/5qs-on-5g-with-ngmn/ (Mar. 2015)







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MOBILE / 5G

You Can't Spell 5G Without LTE

. . .

He echoed statements made by Phillip Deibert, general manager of the Next Generation Mobile Networks (NGMN) Ltd. , that 5G is primarily being driven by a desire to work with new industry verticals like healthcare, the automotive industry and the Internet of Things. Deibert said smartphones will continue to drive mobile growth well into the future, but that the key for operators deploying 5G will be partnerships on the application side and supporting those partners for authentication and operation on the network. (See NGMN Chairman Outlines His 5G Vision and 5G Use Cases, Pre-Standards Groups Proliferate .)

That -- the fact that 5G is being built for new use cases, rather than the other way around -- is what's most unique about it and why it's important to have

http://www.lightreading.com/mobile/5g/you-cant-spell-5g-without-lte/a/did/715111 (Apr. 2015)

TELECOM TV

NGMN

Telefonica takes a collaborative approach to 5G standards



≡ Kevin Holley, Head of Standards, Telefonica

NGMN

Tele2 to create networks on demand with 5G



≡ Joachim Horn, EVP Group CTIO, Tele2

NGMN

Virtualisation and cloud key to 5G for TeliaSonera



≡ Mats Svärdh, VP Group Networks and IT Infrastructure, TeliaSonera

NGMN

NGMN positions operators at the for efront of 5G development

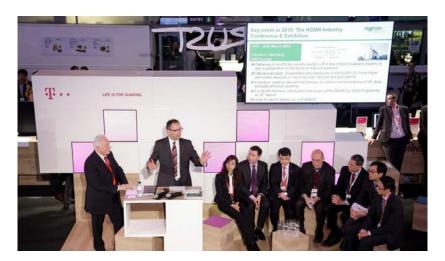


■ Bruno Jacobfeuerborn, CTO, Deutsche Telekom and Chairman, NGMN

NGMN White Paper published at MWC 2015







- Final approval in Board meeting 1st March 2015
- Press release distributed coverage in all leading channels (lightreading, fiercewireless, ...)
- Press conference at DTAG booth
 - White Paper key messages presented by NGMN Chairman B. Jacobfeuerborn
 - Q&A with NGMN Board Members
 - All major vendor Partners, further Board Members, organisations, leading press present
- Extremely positive feedback received from Partners, organisations and other industry stakeholders

NGMN 5G White Paper in-depth presentation and discussion at NGMN Industry Conference & Exhibition



- Participation above expectations: >350 participants senior management, thought-leaders, experts
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- Cooperation Partners:



- DTAG launch 5G:haus; 5G-PPP and 5GMF MoU for 5G
- Media attendance and messages: Disruptive Analysis, 5GInside, Fierce Wireless, TelecomTV...

