

Asia: LVM045:00/2019

## **26 GHz:n taajuusalueen huutokauppa/ Auctioning of the 26 GHz spectrum**

### Lausunnonantajan lausunto

#### **Voitte kirjoittaa lausuntonne alla olevaan tekstikenttään**

Tämä Lausunto on tehty GSA (Global Mobile Suppliers Association) nimissä.

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This response has been developed and agreed within GSA (Global Mobile Suppliers Association, <https://gsacom.com/>). GSA is a not-for-profit industry organization representing companies across the worldwide mobile ecosystem who are engaged in the supply of infrastructure, semiconductors, test equipment, devices, applications and mobile support services.

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GSA response to Finnish 5G consultation of 26GHz

GSA appreciates the possibility to provide comments to the consultation on Finnish 5G licensing scheme for the 26GHz band (number: LVM045:00/2019).

The uptake of 5G globally has been faster than expected and the proposed 26 GHz licensing approach would greatly facilitate 5G deployments in Finland in a timely manner. GSA do believe that the 26 GHz band offer a tremendous opportunity for unlocking and exploiting the full potential associated with 5G and support the Finnish plan for 26 GHz, its content and associated timeline.

In GSA opinion, auctioning 3 x 800 MHz blocks for MNOs on a national basis and making 850 MHz available on a local basis for vertical players will satisfy the market needs at large and will enable a very broad number of 5G use cases to be realized.

GSA expects initial 5G use cases to focus on enhanced Mobile BroadBand (eMBB) and Ultra Reliable Low Latency Communications (URLLC) usage scenarios. Those will be deployed for outdoor, indoor

hot spots (e.g. in enterprises and factories) in dense urban and urban areas, by using high mmWave bands, like 26GHz, and mid sub-6GHz bands. For suburban and rural macro scenarios, mid sub-6GHz bands and low band, like 700MHz, are expected to be used. 5G also provides a FWA use case. Applications such as mobile Virtual/Augmented Reality and Ultra High Definition video, smart home, smart manufacturing, autonomous vehicle and health care will all benefit from timely 5G deployments.

Regarding the still remaining uncertainty of EESS protection in band 23.6-24 GHz below 26 GHz 5G band, as 5G Unwanted Emission limits are re-debated currently in EC and CEPT, we understand the importance of achieving clarity and appreciate the excellent efforts made by Finland to strongly support that WRC-19 agreement should be honoured in Europe by EC and CEPT.

Last but not least, GSA would like to highlight that the 24.25 – 29.5 GHz range covering the overlapping bands n257 (26500–29500 MHz), n258 (24250–27500 MHz) and n261 (27500–28350 MHz) has been the most-used 5G mmWave spectrum range to date above 6 GHz with:

- 113 operators in 39 countries that are investing in 5G (in the form of trials, licenses, deployments or operational networks) across this spectrum range
- 66 operators licensed to deploy 5G in this range
- 12 operators understood to be actively deploying 5G networks using this spectrum.

When it comes to devices supporting mmWave spectrum, GSA has published the below mentioned Report (Feb 2020) about eco-system availability: over 33% of the 5G announced devices support mmWave spectrum.

GSA Report: Spectrum above 6 GHz: Global Licensing & Usage Overview - A special report based on GSA's continuous LTE and 5G research programme

Ruismäki Rauno  
Nokia Oyj - Tämä Lausunto on tehty GSA (Global Mobile Suppliers Association) nimissä.