

Nokia response to Draft instruments for the 850/900 MHz band auction consultation 16/2021



About Nokia

We create the technology to connect the world. We develop and deliver the industry's only end-to-end portfolio of network equipment, software, services and licensing that is available globally. Our customers include communications service providers whose combined networks support 6.1 billion subscriptions, as well as enterprises in the private and public sector that use our network portfolio to increase productivity and enrich lives.

With an end-to-end portfolio that is unique in the industry, Nokia can work in partnership with operators to deliver "real 5G". Nokia's in house 5G mmWave Small Cells and AirScale BTS provide in-building and outdoor coverage, while our Microwave Anyhaul, Cloud native RAN, antennas, and 5G cloud-native core are part of approximately half of our agreements to date. Beyond our mobile networks portfolio, Nokia has excellent FP4 network processor-based IP routers and PSE- 3 chipset powered optical networking - our customers can use the Nokia Network Services Platform to make this into full-5G-strength software defined connectivity 'smart network fabric' secured by Nokia Security Orchestration, Analytics and Response (Nokia SOAR) to ensure resilient 5G.

Nokia is a global leader in 5G standardization and technology innovation with a strategy specifically designed to support the New Zealand market.

Nokia is also a supplier to various enterprises which have deployed private wireless networks. Globally Nokia has been selected by more than 150 operators to supply 5G networks.

Through our research teams, including the world-renowned Nokia Bell Labs, we are leading the world to adopt end-to-end 5G networks that are faster, more secure and capable of revolutionizing lives, economies and societies. Nokia adheres to the highest ethical business standards as we create technology with social purpose, quality and integrity.

For more information: <https://www.nokia.com/networks/5g/>

Disclaimer: This response is based on Nokia's current understanding of the market dynamics and various standards bodies; these dynamics are changing and hence our views may update with these changes

Nokia View

Nokia welcomes the opportunity to respond to Draft instruments for the 850/900 MHz band auction – consultation 16/2021. As a leading player in the global communications sector, and contributor to the Australian market over many decades, Nokia is well placed to provide insight on market and technology trends, including industry structure and regulatory practice.

As indicated in our input during the initial consultation, we have recommended that ACMA align any technical decision with global standards such as 3GPP. This allows the licensees to benefit from the associated global economies-of-scale and more diverse product ecosystem, hence supporting overall 5G deployment.

Nokia have actively participated in the formulation of the AMTA submission on this consultation and we are endorsing the overall response submitted by our trade association. Nevertheless, Nokia would like to re-iterate that the current 850MHz spectrum licenses contain conditions (in particular those in table 6 of the spectrum licenses) that will constrain licensees from proactively deploying equipment that can later be re-tuned or expanded to suit the new 850MHz extension band once this becomes available for use. In addition to hampering deployment, and hence the delivery of the benefits that these new licenses will bring, we also see this constraint potentially hindering attempts by the industry to agree to an early 1MHz downshift of the current 850MHz networks that would otherwise increase the utility of the lowest 900MHz block. Therefore, upon finalisation of the spectrum licence technical framework for the upcoming licenses, the ACMA should promptly progress to consultation with incumbent licensees and affected parties to adopt the same framework in their licence conditions so that the abovementioned deployment risks can be avoided.