

April 27, 2021

VIA [ELECTRONIC FILING](#)

The Manager
Spectrum Management Outlook and Strategy Section
Australian Communications and Media Authority
PO Box Q500
Queen Victoria Building NSW 1230

Re: Draft five-year spectrum outlook 2021-26 – Consultation 10/2021

Dear Sir or Madam,

Broadcom thanks the Australian Communications and Media Authority (ACMA) for opening up this five-year spectrum outlook consultation.¹

Broadcom is a global leader in wired and wireless communications and infrastructure software.² The communications semiconductors products are incorporated into data centers, consumer devices for homes and enterprises, base stations, transport, backhaul, core routing, and a variety of other product categories. With over 99.9% of all Internet traffic crossing at least one of our chips, we truly are Connecting Everything®.³

Broadcom is focused on removing technical barriers to enabling 5G services throughout our product portfolio. While we are innovating across our product segments to improve performance (e.g., reduce energy consumption, increase throughput, reduce latency), the performance of our wireless products are constrained by the available spectrum on which they operate. For this reason, we commend ACMA for opening this consultation for public comment.

Among the bands being considered by ACMA, we believe the 6 GHz band is among the most important for wireless connectivity necessary to advance next generation services in homes, enterprises, and public

¹ The ACMA's *Five-year spectrum outlook 2021-26 work program – Consultation draft*, March 2021, available at: <https://www.acma.gov.au/consultations/2021-03/draft-five-year-spectrum-outlook-2021-26-consultation-102021>.

² For more on Broadcom please visit www.broadcom.com.

³ See *Broadband Overview: Broadcom & Morgan Stanley Broadband Teach-In*, April 12, 2021, available at: <https://investors.broadcom.com/static-files/64ff84ad-9322-4358-8917-f61ecfd27644>.

venues over the next five years. As our operator customers invest in upgrading their infrastructure to provide reliable gigabit Internet service, we seek to ensure that their customers can derive the benefit from subscribing to that service wirelessly. To this end, we have already introduced a full portfolio of nine Wi-Fi 6E chips for smartphones and access points. The Wi-Fi 6E devices capable of operating in 160 MHz channels are able to provide over 2 gigabits per second to a single user, and with less than 1 millisecond of latency delay.⁴

Broadcom is actively participating in IEEE 802.11 group, which is standardizing the next generation of Wi-Fi called 802.11 be (Wi-Fi 7).⁵ Wi-Fi 7 devices are expected to be capable of operating on 320 MHz channels, and delivering over 5 gigabits per second to a single user. Enabling the entire 6 GHz band for RLAN use will ensure that Australian users will be able to enjoy state of the art communications services that we expect to be mainstream in the next five years.

We look forward to working with you on this important consultation.

With kindest regards,

/s/ Christopher Szymanski
Director, Product Marketing
Wireless Communications and Connectivity Division
Broadcom Inc.

⁴ See <https://www.broadcom.com/info/wifi6e> for more information.

⁵ See <https://ieeexplore.ieee.org/document/9090146> for more information.