



**Australian Government**

**Department of Defence**  
Chief Information Officer Group

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Manager  
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Dear Nevio

**OPTIMISING ARRANGEMENTS FOR THE 3400–3575 MHZ BAND – OPTIONS PAPER**

1. Defence appreciates the opportunity to provide a submission in response to the public consultation on this topic (IFC 12-2019).
2. As stipulated in Part 3 of the *Radiocommunications Advisory Guidelines (Managing Interference to Spectrum Licensed Receivers — 3.4 GHz Band) 2015*, Defence operates high power radar systems in the 3100–3500 MHz band. Defence radars operate within Australian waters on an itinerant basis, and may be deployed in land-based systems in fixed and transportable/portable applications. These radars can typically be active for long durations at a given location. When planning service deployments, spectrum licensees should employ techniques to reduce the likelihood of impact to their spectrum licensed service from Defence Systems.
3. In-band and adjacent band radar operation can significantly diminish wireless broadband system throughput even at large separation distances. Defence also has concerns about the impact of the roll out of wireless broadband services on radar performance, in particular the rise of the noise floor resulting in reduction of radar probability of detection.
4. My point of contact is Dr Tharaka Dissanayake on (02) 6144 5035 or via email [tharaka.dissanayake@defence.gov.au](mailto:tharaka.dissanayake@defence.gov.au).

Yours sincerely

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