

Proposed Regulatory Arrangements for Ultra-Wideband Services in Australia

Gabriel Phillips & Mark Burke

Spectrum Infrastructure Branch
Australian Communications and Media Authority
Canberra, Australia

Gabriel.Phillips@acma.gov.au, Mark.Burke@acma.gov.au

Dr. Andrew Kerans

School of Engineering and Physical Sciences
James Cook University
Townsville, Australia
Andrew.Kerans@jcu.edu.au

ABSTRACT

Spectrum regulators worldwide have introduced regulations to facilitate the introduction of ultra-wideband (UWB) technologies. The Australian Communications and Media Authority (ACMA) will soon be introducing similar arrangements to allow for the introduction of UWB devices into the Australian market. Following extensive industry consultation, the ACMA is finalising regulatory arrangements to support UWB devices operating in Australia in the frequency ranges 3.6-4.8 GHz and 6.0-8.5 GHz and is considering the need for further spectrum above 10 GHz for the likely expansion and development of UWB technologies. This paper details the potential interference concerns and proposed regulatory arrangements to facilitate coexistence with existing services in the identified segments.

KEYWORDS: UWB, ultra-wideband,