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RADIO SPECTRUM POLICY

1461.50 - 1490.00 MHz Band and Channel Plan for Digital Audio Broadcasting Services

1 Purpose

In December 2000, the Radio Spectrum Management Group of the Ministry of Economic Development initiated a consultation process to seek wider input on the use of the band 1461.50 - 1490.00 MHz for Digital Audio Broadcasting (DAB) (See Engineering Consideration Document [ECD2000-5](#) and Engineering Consideration Findings Document [ECD2000-5-find](#)).

Consultation revealed that there is a requirement to produce a band plan specifically for DAB service based on the [Eureka-147](#) standard for terrestrial and satellite DAB.

The following policies, associated band plan and attached annexes represent the final outcome of the consultation, consideration and audit process.

2 Policy

The policies in section 2.1 come into force on the date of publication. At the time of publication of this POLDOC, the application of a Ministerial Directive limits licensing in the band 1452.00 - 1492 MHz to that facilitating the transition of existing licensed services to alternative frequencies, or demonstrating, subject to protecting existing licensed services, the operation of new technologies. The details with respect to the Ministerial Directive can be found at http://www.med.govt.nz/rsm/licensing/min_dirs.html.

2.1 Immediate Policies

Applications for radio apparatus licenses for DAB radio transmission (and reception protection) in the range 1461.50 - 1490.00 MHz will be accepted only within the constraints as provided for under the Ministerial Directive. Licenses will be granted in accordance with the allocations and associated frequency ranges indicated in section 3 of this document. Having due regard to the policy statements below, any licenses granted will be aligned with the channel plans given in Annex 1.

In New Zealand the band 1461.50 - 1490.00 MHz has been allocated exclusively for use by the broadcasting service constrained to terrestrial digital audio broadcasting (T-DAB).

T-DAB licenses will only be granted to transmission conforming to the Eureka-147 (digital system A) standard, otherwise referenced as ETS 300 401¹.

¹ ETS 300 401 is entitled "Radio Broadcasting Systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers.

3 Specific Criteria

3.1 Bandplan

The following table shows the frequencies and associated service allocations in the International Radio Regulations (IRR) table of allocations, as adopted by Radio Spectrum Management for use in New Zealand at the time of publication of this document. The first column gives the frequency range to which an allocation in the second column applies. The second column shows the complete allocations for the [International Telecommunication Union](#) (ITU) Region 3, within which New Zealand lies. The third column shows which IRR Region 3 allocations are adopted for use in New Zealand. Entries in upper case indicate primary allocation status; entries in lower case indicate secondary allocation status and entries in parenthesis qualify the associated allocation.

Applicable ITU footnotes are reproduced following the table, and all references contained therein refer to the ITU Radio Regulations Edition of 1998. In the interests of brevity, footnotes not pertaining to New Zealand have been omitted.

Frequency (MHz)		Allocation to Services	
Lower	Upper	ITU Region 3	New Zealand
1461.5	- 1490	FIXED MOBILE BROADCASTING S5.345 BROADCASTING SATELLITE S5.345	BROADCASTING S5.345

International Radio Regulation Footnotes

S5.345 Use of the band 1 452-1 492 MHz by the broadcasting-satellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (WARC-92).

3.2 Transition Planning

The band 1461.5 - 1490 MHz is (at the time of publication) unencumbered by licensed services, hence no transition planning is required for this band.

4 General Technical Consideration

In accordance with regulation 15(a) of the Radiocommunications (Radio) Regulations 1993, when granting a license under regulations 12 or 14 the Chief Executive will have regard to the requirements of the International Radio Regulations (being an agreement made between New Zealand and other countries).

Verified By:

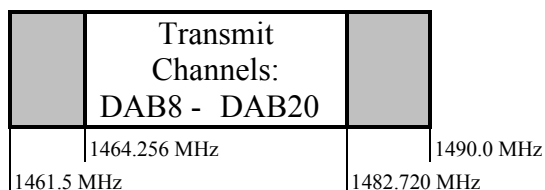
Approved By:

Manager – Spectrum Planning

Manager – Operational Policy

ANNEX 1
NZ Channel Plan for 1461.5 - 1490.0 MHz DAB Services

Structure:



= Guard Band

- Power (EIRP):** 40 dBW
Channel Spacing: 1.744 MHz
Specification: Eureka-147 (digital system A), otherwise referenced as ETS 300 401.

Channel	Tx Centre Frequency (MHz)
DAB7	Guard Band
DAB8	1465.024
DAB9	1466.768
DAB10	1468.512
DAB11	1470.256
DAB12	1472.000
DAB13	1473.744
DAB14	1475.488
DAB15	1477.232
DAB16	1478.976
DAB17	1480.720
DAB18	1482.464
DAB19	1484.208
DAB20	1485.952
DAB21	Guard Band
DAB22	Guard Band