



General Meeting
24th of February 2021

Agenda

- au Domain Administration (auDA) - .org.au policy
- Updates on 2 Ghz - paper outcome
- Updates on 3.7 - 4.2 GHz - paper outcome
- ~~Updates on 26 - 28 GHz - follow up on release of spectrum over the counter~~
- Wind power presentation
- Membership Renewals
- Priorities for 2021

au Domain Administration (auDA) - .org.au policy

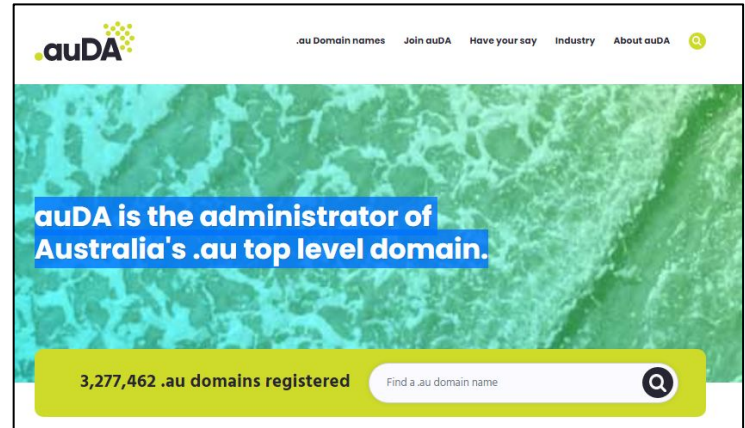
<https://www.auda.org.au/blog/orgau-eligibility-rule-changes-explained>

Changes to who can register org.au names, rules take effect on 12 April 2021. All org.au domain name licences created, transferred or renewed on or after this date will be subject to the new licensing rules.

To be eligible for a org.au name you need to be a not-for-profit entity. Under the new rules there are 11 categories of organisations that meet the definition of a not-for-profit.

<https://www.auda.org.au/au-domain-names/new-au-licensing-rules/orgau-rule-changes>

Under the new rules unincorporated associations are not eligible to hold org.au names. The only exception is where an unincorporated association appears on the Australian Charities and Not for Profit Commission's (ACNC) Register of Charities.



Updates on 2 Ghz

Wireless Internet Service Provider Association
of Australia Inc

**Response to : Replanning options for
2 GHz band - consultation 23/2020**



The Manager
Space Systems
Australian Communications and Media Authority
PO Box 78
Belconnen ACT 2616

2nd September 2020

Thank you for the opportunity to provide a response to the ACMA "Replanning options for 2 GHz band - consultation 23/2020" consultation paper. The Association represents a broad range of carriers in Metropolitan and Regional areas, typically smaller operators who have limited or no access to spectrum.

Issues for comment

6.The ACMA's preliminary preferred option.

We agree with the ACMA that option 3 is the preferred option, providing that the proposed variation allowing Local Area Wireless Broadband Services in Regional and Remote areas is also adopted.

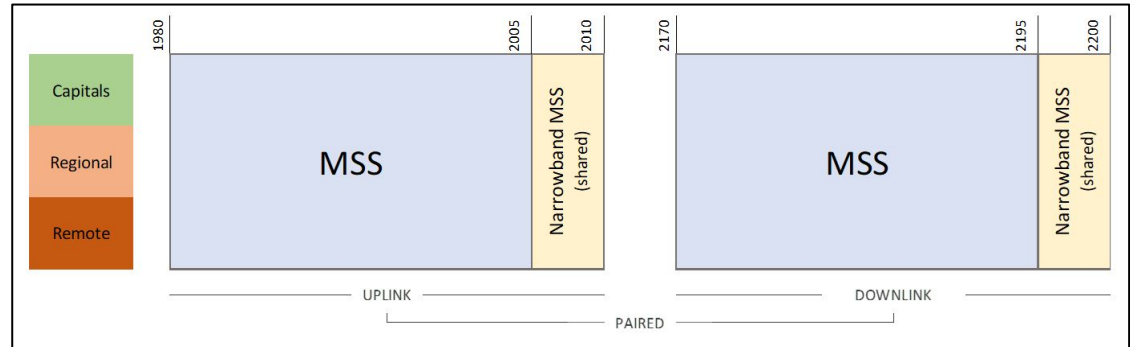
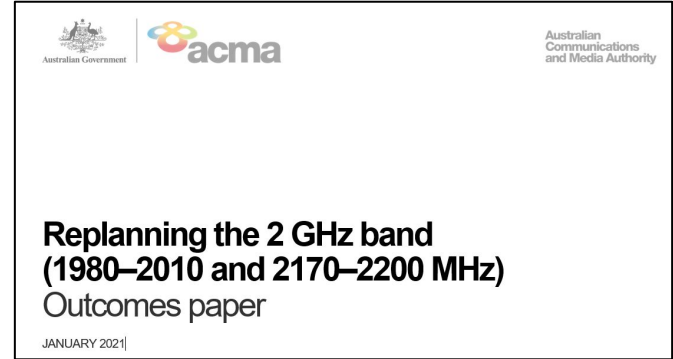
There are significant opportunities to dramatically improve the access to communications in rural areas through this initiative.

Regards,

Dainen Keogh
Wireless Internet Service Provider Association of Australia Inc
president@wispau.org

Updates on 2 Ghz

- Currently allocated to Television Outside Broadcasting (TOB) - very underutilised & the industry has alternatives.
- ACMA has decided to “Re-farm” the spectrum
- Introduce apparatus licensing arrangements to support introduction of mobile-satellite services Australia-wide on an exclusive basis via Auction.
- Develop apparatus licensing arrangements to facilitate deployment of a complementary ground component (including direct air-to-ground communications service)




Updates on 2 Ghz

- Where a mobile-satellite licensee wishes to supplement its mobile-satellite service. Our preliminary view is that these applications are more appropriately supported under an area-wide apparatus licence. We also consider that some form of obligation should be established to require licensees to deploy a mobile-satellite service before operation of a complementary ground component is permitted.
- Introduce arrangements Australia-wide to support on a shared basis amongst suitable satellite operators of narrowband mobile-satellite services in 2005–2010 MHz and 2195–2200 MHz (a bandwidth of 2 x 5 MHz) for use by services such as telemetry, short messaging, and low data rate services (for example satellite IoT applications).
- To support introduction of MSS, existing TOB services will be required to cease operation. The ACMA's preliminary view is that a timeframe of 5 years is appropriate in capital cities and a shorter period of 3 years is feasible in regional areas where TOB usage is minimal.
- Retain legacy fixed point-to-point links operating in remote parts of Australia.

Updates on 3.7 - 4.2 GHz

Wireless Internet Service Provider Association
of Australia Inc

**Response to : Planning of the 3700–4200 MHz
band - Discussion paper**




The Manager - Major Spectrum Allocations Section
Spectrum Allocations Branch
Australian Communications and Media Authority
PO Box 78
Belconnen ACT 2616

13th September 2019

Thank you for the opportunity to provide a response to Planning of the 3700–4200 MHz band - Discussion paper, the Association represents a wide variety of carriers in Metropolitan and Regional areas, typically smaller operators who have limited or no access to spectrum.

Wireless Internet Service Provider Association
of Australia Inc

**Response to : Planning options for the
3700–4200 MHz band**



The Manager, Wireless Broadband
Spectrum Planning and Engineering Branch
Australian Communications and Media Authority
PO Box 78
Belconnen ACT 2616

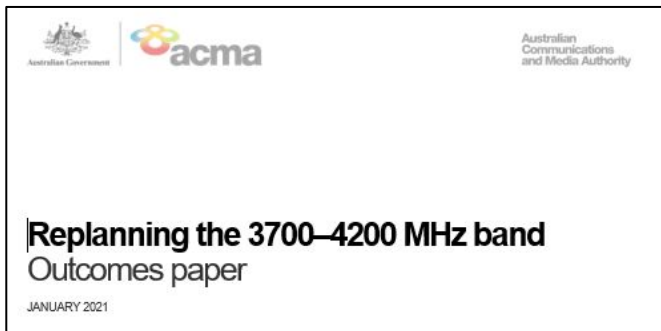
15th September 2020

Thank you for the opportunity to provide a response to the ACMA "Planning options for the 3700–4200 MHz band" consultation paper. The Association represents a broad range of carriers in Metropolitan and Regional areas, typically smaller operators who have limited or no access to spectrum.

- WISPAU would suggest a more nuanced approach to incumbent point to point and FSS use within the band, in some regional and remote areas there may be no need to evict existing users from the band as no alternative requirements exist, in cases like this we would expect existing licenses to be permitted to operate indefinitely.
- The current focus of wireless broadband equipment manufacturers is the lower end of the band, this is primarily driven by spectrum availability globally.
- Although WISPAU's preference would be the implementation of a Dynamic Spectrum Licensing system across the entire band, we do accept that the ACMA have existing procedures and processes and must balance the interests of multiple stakeholders, under those circumstances we accept that Option 3 does provide benefit for each group and if enacted would be significantly better than either Option 1 or to take no action at all.
- The ACMA subsequently chose Option 3

Option 3 - Is likely the preferred option my Mobile Network Operators (MNO's) as it grants exclusive use to spectrum between 3700 - 3800 in Metro and Regional areas with all incumbent uses being cleared, we are pleased to see that the ACMA has proposed sharing within the Remote (3700 - 3800) and Australia Wide (3800 - 4000) band, and would much prefer the mechanism for sharing being a Dynamic Licensing System as opposed to an ACMA declaration.

Updates on 3.7 - 4.2 GHz



Metro

- **3700 - 3800 MHz** - Spectrum License for Mobile Network Operators
- **3800 - 4000 MHz** - Apparatus License for Fixed Satellite & Wireless Broadband (PTP & PMP)
- **4000 - 4200 MHz** - Site-based apparatus license for Fixed Satellite & Wireless Broadband (PTP)

Figure 1: Planning arrangements for the 3700–4200 MHz band

FSS = fixed satellite service, PTP = point-to-point, WA WBB = wide area wireless broadband, LA WBB = local area wireless broadband

3700 MHz	3800 MHz	4000 MHz
Metro and regional Planned uses: WA WBB Access approach: Exclusive use Licence type: Spectrum licence Incumbent user licences: Cleared	Metro Planned uses: FSS, PTP, LA WBB Access approach: Shared, coordinated, first-in-time Licence type: Apparatus licence type to be determined** Incumbent user licences: Continued or opportunity to transition to AWL if applicable Regional Planned uses: FSS, PTP, LA WBB Access approach: Shared, coordinated, first-in-time Licence type: Apparatus licence type to be determined** Incumbent user licences: Continued	Australia-wide Planned uses: FSS, PTP Access approach: Shared, coordinated, first-in-time Licence type: Site-based apparatus licence Incumbent user licences: Continued
Remote Planned uses: FSS, LA WBB, (PTP*) Access approach: Shared, coordinated, first-in-time Licence type: Apparatus licence type to be determined** Incumbent user licences: Continued	Remote Planned uses: FSS, PTP, LA WBB Access approach: Shared, coordinated, first-in-time Licence type: Apparatus licence type to be determined** Incumbent user licences: Continued	

* Preliminary view is that PTP should be restricted to existing services only in 3700–3800 MHz in remote areas to simplify the PTP technical framework.

**Preliminary view is that an area wide licensing framework may be appropriate for LA WBB in metropolitan and regional areas. |

Updates on 3.7 - 4.2 GHz

Regional

- **3700 - 3800 MHz** - Spectrum License for Mobile Network Operators
- **3800 - 4000 MHz** - Apparatus License for Fixed Satellite & Wireless Broadband (PTP & PMP)
- **4000 - 4200 MHz** - Site-based apparatus license for Fixed Satellite & Wireless Broadband (PTP)

Remote

- **3700 - 3800 MHz** - Apparatus License for Fixed Satellite & Wireless Broadband (PTP & PMP)
- **3800 - 4000 MHz** - Apparatus License for Fixed Satellite & Wireless Broadband (PTP & PMP)
- **4000 - 4200 MHz** - Site-based apparatus license for Fixed Satellite & Wireless Broadband (PTP)

Updates on 3.7 - 4.2 GHz

...WISPAU agreed there is a strong case for action for the introduction of LA WBB but disagreed with the approach to assessing the best mix of uses and allocation.

...The ACMA has formed the view that this combination of measures will maximise the overall public benefit derived from use of the band at this point in time, by making parts of the band available for WA WBB (such as those typically provided by mobile network operators) and LA WBB services (such as those provided by wireless internet service providers and for private network uses).

... the planning outcomes in both bands (3.4GHz & 3.7 - 4.2 GHz) will result in the availability of additional mid-band spectrum well suited for LA WBB interests. These outcomes are part of the wider efforts by the ACMA over several years to make more spectrum available for these use types and users in multiple bands (with initiatives in the 26 GHz (24.25–27.5 GHz) and 28 GHz (27.5–29.5 GHz) bands being another example).

... Demand for LA WBB

We note the differing views on the demand for LA WBB services in the band and that NBN Co considers itself a LA WBB operator and prefers spectrum separated from WA WBB operators.

We note that WISPAU favours area-wide licences for LA WBB if DSA is not proposed by the ACMA, and the comments by ARCIA in relation to demand for LA WBB in all geographic areas.

Updates on 3.7 - 4.2 GHz

Action	Timeframe
Review/implement embargo arrangements to reflect planning decisions	Q1 2021
Review RALI FX3 3.8 GHz PTP arrangements as required to reflect planning decisions	Q1–Q4 2021 ¹⁴
Development of the apparatus licensing framework for LA WBB in remote areas across 3700–4000 MHz. ¹⁵ including: <ul style="list-style-type: none"> > technical frameworks > licensing frameworks > pricing arrangements 	Q2–Q4 2021 <div style="border: 1px solid green; padding: 2px;">Spectrum availability after 2021</div>
Development of the apparatus licensing framework for LA WBB in areas with low expected contention in regional areas in 3800–4000 MHz. ¹⁶ including: <ul style="list-style-type: none"> > technical frameworks > licensing frameworks > pricing arrangements 	Q3 2021 – Q1 2022 <div style="border: 1px solid green; padding: 2px;">Spectrum availability after Q1 2022</div>
Development of the apparatus licensing framework for LA WBB in areas with expected contention such as metropolitan and more populated regional centres regional in 3800–4000 MHz including: <ul style="list-style-type: none"> > technical frameworks > licensing frameworks > allocation and pricing arrangements 	Q3 2021 – Q2 2022 <div style="border: 1px solid green; padding: 2px;">Spectrum availability after Q2 2022</div>
Commence development of a framework for the allocation of spectrum licences in 3700–3800 MHz in defined metropolitan and regional areas ¹³	Q3 2021
Commence TLG to develop the spectrum licence technical framework for the 3700–3800 MHz band in defined metropolitan and regional areas ¹⁷	Q4 2021
Allocation of spectrum licences in the 3700–3800 MHz in metropolitan and regional areas	To be determined

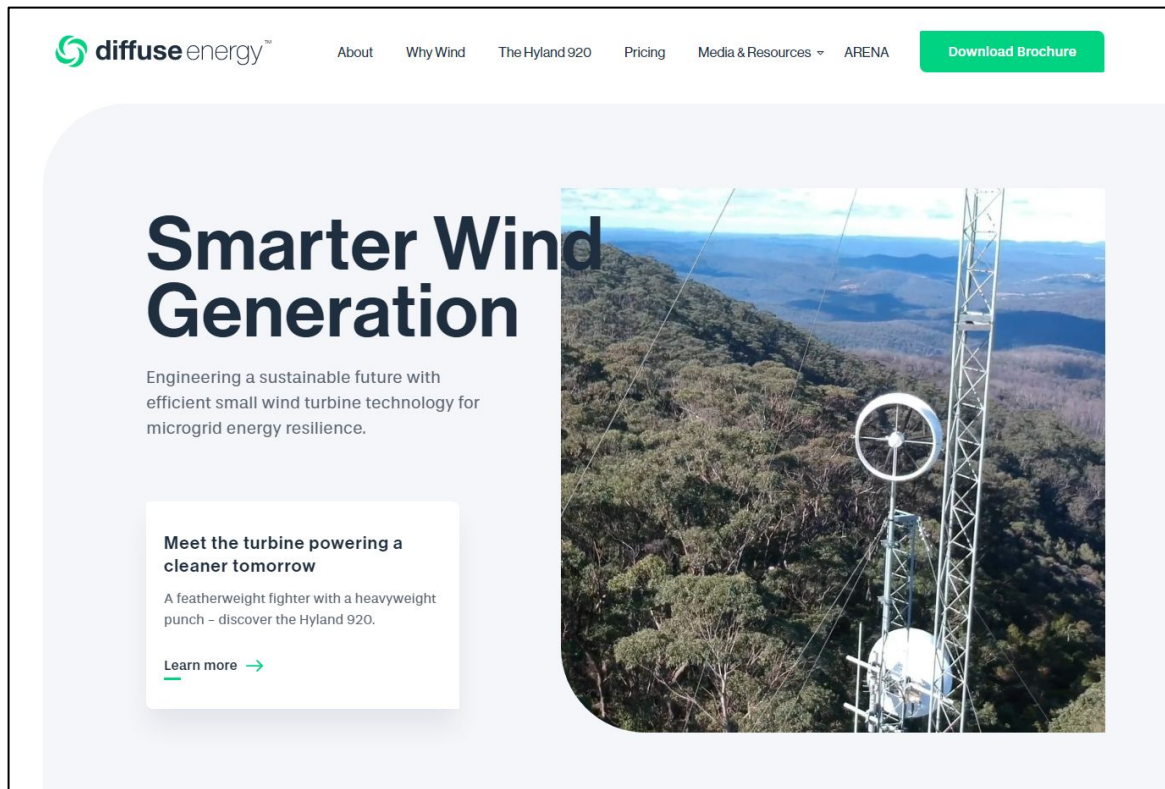
Local Area Wireless Broadband (LA WBB)

Remote - After 2021

Regional - Q1 2022

Metro - Q2 2022

Wind power presentation



The image shows a screenshot of the Diffuse Energy website. The header includes the Diffuse Energy logo, navigation links for 'About', 'Why Wind', 'The Hyland 920', 'Pricing', 'Media & Resources', and 'ARENA', and a green 'Download Brochure' button. The main content area features the headline 'Smarter Wind Generation' and a sub-headline 'Engineering a sustainable future with efficient small wind turbine technology for microgrid energy resilience.' A call-to-action box contains the text 'Meet the turbine powering a cleaner tomorrow', 'A featherweight fighter with a heavyweight punch - discover the Hyland 920.', and a 'Learn more' link with a right-pointing arrow. On the right side, there is a photograph of a tall, lattice-structured wind turbine tower with a circular nacelle at the top, set against a backdrop of a dense forest and rolling hills under a blue sky.

diffuseenergy™ About Why Wind The Hyland 920 Pricing Media & Resources ▾ ARENA [Download Brochure](#)

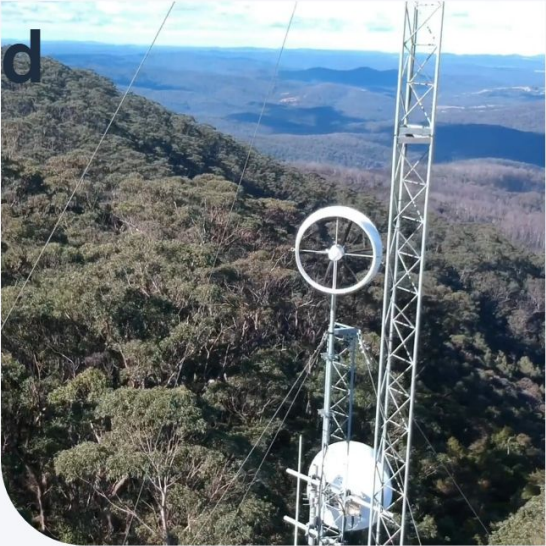
Smarter Wind Generation

Engineering a sustainable future with efficient small wind turbine technology for microgrid energy resilience.

Meet the turbine powering a cleaner tomorrow

A featherweight fighter with a heavyweight punch - discover the Hyland 920.

[Learn more →](#)



Membership Renewals

Financial Members - 17

Non-Financial Members - 51

Industry Sponsors - 4



Priorities for 2021

- Responding to ACMA discussion papers
- Lobby government on behalf of the Wireless ISP industry
- Provide information on new regulatory requirements
- Provide information on new products & services
- Community forum
- More



Thank you !