

## Private LTE – an update

- We covered this topic last time ([2017 Private LTE Presentation](#)) – so what’s new?
  - One highly sought after band is now “open for business”! – 1.8 GHz
  - 3.6 GHz – some areas are to be sold at auction...but possibly to be replaced by 5.6 GHz?
  
- Private LTE is available under “Apparatus Licensing”.
  - Not available in “Spectrum Licensed” areas. These areas can be viewed in [Embargo 26](#).
  - Spectrum licence areas differ band by band.
    - In many cases – just “Metro” areas are off limits.
    - In some cases “regional” areas also not available. But the definition of “regional” changes from band to band.
    - In some bands, the “remote” areas area also spectrum licensed, making the band unavailable Australia wide. These bands can’t be considered for private LTE.
  
- Types of Apparatus Licence for private LTE
  - Issued either under “PTS” – “Public Telecommunications Service”
  - Or “PMP” – “Point to Multipoint”
  - Definitions of licence types can be seen in [Interpretation Determination](#).
  
- Mid West Radio Quiet Zone (RQZ)
  - Applies to all LTE bands discussed here
  - Statutory [band plan](#)
  - 70 km restricted zone - [Embargo 41](#) / [Map](#)
  - 120 / 140 km coordination zone - [RALI MS32](#)
  
- 1.8 GHz “Band 3” - PTS licence type (1710 – 1785 / 1805 - 1880 MHz)
  - Since 1<sup>st</sup> March 2018 – can now be considered in this band.
  - 10 MHz limit - per user- per area.
  - Coordination rules [RALI MS34](#)
  - Available **remote** only - [not metro or regional](#)
  
- 1.9 GHz “Band 33” - Point to Multipoint licence type (1900-1920 MHz)
  - Coordination rules [RALI FX19](#)
  - 5, 10, 20 MHz channels
  - Available **remote** and **regional** - [not metro](#)

- 2 GHz “Band 1” – PTS licence type (1920 - 1980 / 2110 – 2170 MHz)
  - Coordination rules [RALI MS33](#)
  - 10 MHz limit per user per area
  - Available **remote** (60 MHz) and **regional** (40 MHz) – [not metro](#)
  - Additional restrictions around Mingenew Space Centre [Embargo 49](#) / [Map](#)
    - 300 kilometres, only affects 2100 - 2130 MHz
  
- 3.4 GHz “Band 42” - Point to Multipoint licence type (3425 - 3442.5 / 3475 – 3492.5 MHz)
  - 17.5 MHz (x2) available
  - Available **remote** and (**some**) **regional** – [not metro or major regional centres](#)
  - Coordination rules [RALI FX14](#)
    - Possible restrictions within 150 km of Geraldton and Darwin
  - Restrictions around Mingenew Space Centre [Embargo 49](#) / [Map](#)
    - 150 kilometres
  - Woomera Protected Area [Embargo 52](#) / [Map](#)
  
- 3.5 GHz TDD (Band 42) - PTS licence type (3400 – 3425 / 3492.5 – 3542.5 MHz)
  - 75 MHz bandwidth, with 5, 10, 20 MHz channels
  - Australia Wide Embargoes to “preserve future planning”.
    - [Embargo 61](#) / [Map](#) , [Embargo 68](#) / [Map](#)
  - Made available initially [for NBN](#)
  - Coordination rules [RALI MS39](#)
    - Possible restrictions within 150 km of Geraldton and Darwin
    - NBN “restricted areas” (see page 4) - [Map](#)
  - Restrictions around Mingenew Space Centre [Embargo 49](#) / [Map](#)
    - 150 kilometres
  - Woomera Protected Area [Embargo 52](#) / [Map](#)
  
- 3.6 GHz “Band 43” - Point to Multipoint licence type (3575 – 3700 MHz)
  - [ACMA to auction band 20<sup>th</sup> November 2018](#)
    - Reallocation Declarations for [Perth](#), [Eastern Metro](#), [Regional](#) / [Maps](#)
  - PMP now only available in remote.
  - 125 MHz available, with 10, 20 MHz channels.
  - [Embargo 42](#), [Map](#)
  - Restrictions around Mingenew Space Centre [Embargo 49](#) / [Map](#)
    - 150 kilometres
  - Woomera Protected Area [Embargo 52](#) / [Map](#)

#### Future Opportunities?

- 5.6 GHz – Point to Multipoint licence type (5600 – 5650 MHz)
  - Not yet finalised - [IFC 13/2018](#) and *draft* rules ([FX23](#))
  - Potentially 40 MHz of spectrum to be released
  - Availability proposed for [regional](#) area (not remote or metro)
  - Proposed coexistence - i.e. coordination against [BOM radars](#)
  
- [26 GHz consultation already underway](#) (Nov 9)
  
- [28 GHz consultation closes soon](#) (Nov 23)
  
- [1.5 GHz consultation pending](#) (~2016)