

DYNAMIC • SPECTRUM • ALLIANCE

THE BENEFITS OF DYNAMIC SPECTRUM SHARING





DynamicSpectrum





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DynamicSpectrumAlliance



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WHAT WE DO

The Dynamic Spectrum Alliance (DSA) is a global, cross-industry, not for profit organization advocating for laws, regulations, and economic best practices that will lead to more **efficient utilization of spectrum**, fostering **innovation** and affordable **connectivity for all**.



OUR GLOBAL MEMBERSHIP



OUR MISSION

Make spectrum abundant for broadband

- Connect the next 4 billion people
- Stimulate wireless innovation for next generation broadband
- Accelerate an inclusive digital economy



Spectrum sharing The importance and benefits





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A wider ecosystem







DID SA

Rural broadband





Changing history with advocacy

- TVWS / Database
- CBRS / SAS
- Wi-Fi / AFC
- mmWave





TVWS

Supports increasing shared spectrum use in TV whitespace that enables cost effective broadband deployment in rural areas.

TVWS also provides good building penetration that is critically important for IoT and smart city applications.

CBRS and 3.7-4.2 GHz

Ensure all parties have access to both PAL and GAA spectrum.

Supports efficient use of the band through shared access that protects incumbent services.

Supports a light-weight database to facilitate dynamic sharing in a 3-tiered framework.

5 GHz and 6 GHz

Supports allocation of the band for unlicensed services to meet the demand for Wi-Fi and unlicensed services that require larger channel bandwidths.

Technology management of the band can protect incumbent services while allowing greater access to Wi-Fi.

mmWave

The propagation characteristics of mmWave bands make dynamic sharing ideal and critical to enable efficient use of spectrum.

Supports unlicensed use of the 57 – 71 GHz band, including Wi-Gig and P2M mesh network services.

Supports flexible licensing rules like those adopted by the FCC in the 37GHz band.







Automated Spectrum Sharing



Automated Frequency Coordination



A simple, cost-effective database solution with clear rules for efficient spectrum sharing

NRAs should work towards a Dynamic Spectrum Access approach in any underutilized band where coordinated sharing is appropriate and practical to implement.





- The DSA promotes a balanced regulatory approach between licensed, license-exempt (unlicensed), and lightly licensed, to enable making unused spectrum available for broadband.
- Spectrum sharing is an effective addition to the connectivity toolkit and DSA is ready to support regulators in enabling the regulatory framework for dynamic spectrum access technologies according to their local context.







Let's exchange ideas!

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