

Dynamic Spectrum Sharing Works... AMBIT Doesn't



• CBRS is Legitimate Sharing:

CBRS employs dynamic spectrum sharing that is *working now*, letting new users safely share with incumbents

Wireless data demand is growing, but the radio spectrum required to power all kinds of wireless connectivity is a limited natural resource. In fact, there are no unused spectrum bands that could realistically be put to new commercial use. That means increasing demand for spectrum must be met by either: (1) evicting current users; or (2) allowing new and current users to share frequencies.

• AMBIT is Spectrum Clearing:

At best, the AMBIT approach is fake “sharing” – widespread clearing coupled with unworkably slow, manual coordination in limited areas

Spectrum scarcity is why an America-first spectrum policy must embrace legitimate dynamic spectrum sharing that automatically and dynamically coordinates military and commercial operations, protecting existing users and making more spectrum capacity available to meet new and increasing demand.

AMBIT: Spectrum Clearing 3.45-3.55 GHz

AMBIT = 87% Clear & Relocate

- With AMBIT, an area covering about **87% of the continental US was cleared entirely** – meaning all existing users were relocated – to allow for **full-power exclusive licenses**.

AMBIT = Unworkably Slow, Manual Coordination

“Sharing” Process: **Manual, Bureaucratic Applications**
“Sharing” Timeline: **Up to 70 days Per Application**

- In the remaining **13% of the continental US, existing users were allowed to stay** in the AMBIT band **subject to coordination requirements**.
- Though some call this “sharing,” the reality is a **burdensome manual coordination** process that can take **70 days per use**.
- Last year, T-Mobile complained the coordination with federal users has “effectively precluded licensees” from “providing any service in certain portions of their license areas.”

AMBIT's Limited Coordination Zones Don't Meet User Needs

Users: **23**
Use Cases: **Very Limited**

- Only 23 entities secured licenses in the AMBIT auction.
- More than 85% of AMBIT licenses were purchased by AT&T, DISH, T-Mobile (which has since blasted the AMBIT model), and U.S. Cellular (now merging with T-Mobile).

**AMBIT is NOT Spectrum Sharing:
Widespread Clearing + Unworkably Slow,
Manual Coordination in Limited Areas**

CBRS: Dynamic Spectrum Sharing 3.55-3.7 GHz

CBRS = No Clearing Needed

- With CBRS, **no federal incumbents were forced out of the band**.

CBRS = Legitimate, Dynamic Sharing

Sharing Process: **Automatic**
Sharing Timeline: **Near Real-Time**

- In CBRS, **100% of existing federal users were allowed to stay in the band**.
- CBRS employs true dynamic spectrum sharing that is both **automatic** and **effectively instantaneous**.

Dynamic Spectrum Sharing in CBRS Works for Incumbents & New Users

Users: **1,000+**
Use Cases: **Effectively Unlimited**

- More than 1,000 entities are operating in the CBRS band, with more than 400,000 base stations deployed.
- Users and uses of CBRS increase almost daily and include: mobile cellular, fixed wireless access, manufacturing, agriculture, shipping and airports, sports and entertainment, educational and military use, and much more.

**Dynamic Spectrum Sharing in CBRS is
Legitimate Sharing that is Working Now
for Incumbents AND New Users**