CBRS Markets and Applications Post PAL Channel Allocation

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Choosing Market for Deployment of CBRS

Cellular and Mobile Providers – CBRS is a 5G Capable Band
Fixed Wireless Applications Including WISPs: PTP and PtMP
Private Enterprise and Private Networks
Municipal and Co-Op Services
Schools and Educational Facility Operators
MDUs and MTEs
Large Venue Facility Operators
Coming: Neutral Host Operators

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CBRS Vertical Market Segmentation

- Residential and Home Facilities and Related Services
- Business (small/medium/large) and Corporate
- Industrial and Supply Chain Business/
  Industrial or Business Buildings and Businesses
- Entertainment Facilities and Venues
- Internet of Things (IoT)/Industrial Internet of Things (IIoT) and SCADA
- Government Related
CBRS Vertical Market Segmentation (Continued)

- Schools, Education and Pre-School, K-12 and Higher Education Campuses, Continuing Education: Pre-Schools

- Energy and Utilities (Production and Delivery)

- Oil and Gas/Resource Generation (Generation, Storage, Delivery): Pumping and extraction facilities and Transportation

- Mining and Resource Acquisition

- Farming, Agriculture, Dairy and Food Supply Chain

- Transportation Infrastructure

- Municipal Wireless/Co-Op/Regional Wireless (services offered through)
CBRS Vertical Market Segmentation (a few more)

- Public spaces and facilities (City Hall, Airports, Fire Stations, Police Stations, Public Buildings, etc.)
  Public Internet distribution

- Healthcare/Hospitals, Medical Related and Doctors' Offices
  Public Safety and Care Services

- Public Lands, Facilities and Access

- Financial Related and Money Management & Fin-Tech

- Hospitality

- Retail, Stores and Retail Related

- Houses of Worship
GAA v. PAL

Secondary Market

Fixed and Mobile

GAA: Provides a low cost dedicated Licensed by Rule solution which is available now and is less cluttered and populated than Wi-Fi. CBRS GAA also complements Wi-Fi in solutions for in building. Capacity advanced delivery outdoors.

PAL: Provides dedicated solutions for private networks, dedicated spectrum needs; advanced industrial solutions; and can be region specific and flexible – Lease if not used.
Fixed Wireless & WISPs – Using CBRS

• Over 50,000 fixed wireless CBRS CBSD deployments in Part 90-Part 96 transitions.
• Residential deployments in rural, suburban and urban environments.
• Advanced retail uses in shopping malls, retail strips, urban centers, and more.
• Multiple Dwelling Units (MDUs) and Multiple Tenant Enterprises (business).
• Entertainment venues and general venues.
• Office complexes and industrial applications.
• Work at home and remote working.
• IoT and IIoT.
• Education and homework gap solutions.
• Airports and transportation hubs.
• Serving subsidy needs in rural areas including CAF II, RDOF, CARES, RUS and more.