



PRIVATE WIRELESS

We use CBRS technology to plan, build, & support private networks to ensure continuous connectivity.

Connectivity Matters

HOW WE HELP

If it's happened in networking in the past 40 years, we've been there.

That's why we have the most experienced teams to solve your network and wireless challenges. We invest in our team members, and we build close, long-term customer relationships by solving problems quickly. Run better, and more reliably, day in and day out.



Experience



Integrity



Quality



Rigorous Testing



Creativity



Agility

This document provides multiple services included in the Fortress Private Wireless services set. These services are described below with rates included. Additional services can be added, as needed.

SERVICE	DESCRIPTION
RF Engineering	Collection of all relevant data within the areas of interest: Band, technology, uses cases, coverage and throughput requirements. Create an optimized design and coverage plots using RF Planning Tools.
Project Management	Provide necessary resources, tools, and processes to manage the project from beginning to end, ensuring the services / deliverables are provided on a mutually committed schedule.
Site Survey	<p>Provide a detailed inspection and assessment of the physical space of customers' facilities. Ensure all requirements can be met including precise location, power, climate-controlled space, backhaul and internet connectivity for network elements. Plan mounting structure requirements for all network equipment. Survey documentation and recommendations.</p> <p><i>Assumes no overnight stay and includes up to \$750 in travel expense.</i></p> <p>Two technicians included.</p>
Solution Architecture	Perform end-to-end system engineering and capacity planning of RAN, Core, SAS, backhaul network, and user equipment OT/IT network integration (LAN/WAN router configuration and integration).
Forward Logistics & Functional Staging	<p>Store, commission, and integrate a CBRS 4G/5G wireless network off-site for a streamlined and simplified deployment, reducing costly on-site resources and extended travel.</p> <p>Integration includes network testing with all components integrated off-site as well as on-air testing before shipment to the destination site. (radio, CPE, Server, Switch/Router).</p>



SERVICE	DESCRIPTION
Physical Installation	<p>Installation of mounting structures in the designated locations, radios including NEMA enclosure. Installation of structured cabling: fiber, power, RF jumper and grounding cables. Labeling, fixing, termination, coding and tagging as required including applying weatherproofing kits as required. Powering up circuit breakers to equipment as required and verifying proper end-to-end functionality.</p> <p><i>Assumes no overnight stay and includes up to \$750 in travel expense.</i></p> <p><i>*Region map provided in Appendix A</i></p>
Commissioning and Integration (C&I)	<p>Setting up and configuring the software, system parameters, and verifying the functionality of all components, network elements and systems. For CBRS networks, SAS integration and CPI services are performed. Price per Engineering on-site per day.</p> <p><i>Assumes no overnight stay and includes up to \$750 in travel expense.</i></p>
SIM Provisioning	<p>Install and configure SIM.</p>
3rd-Party Network Acceptance	<p>Work with customer to develop network acceptance requirement document. Perform drive/walk/call testing, capturing KPIs to ensure acceptance criteria has been met. Provide and perform recommended network optimization.</p>
Lifecycle Planning	<p>Network monitoring. Reviewing design, requirements, performance metrics/KPI, maintenance and software release upgrades practices, capacity expansion planning, emergency and proactive maintenance procedures.</p>



SERVICE	DESCRIPTION
Maintenance Dispatch	<p>Fortress Solutions Technician (FST) that has experience and is trained on your specific technology, practices, and procedures. Provides emergency and scheduled maintenance, and audits for wireless and backhaul network and ancillary equipment.</p> <p><i>Assumes no overnight stay and includes up to \$750 in travel expense.</i></p> <ul style="list-style-type: none">• Two-Day Response.
Critical Sparing	<p>Provides Forward Stocking Locations (FSL), inventory management, and customer portal for advanced spares of critical equipment per a desired SLA.</p> <p>4-hour (available), Next Business Day, and 2nd Business Day Service Level Agreements. Tighter SLA, may require additional FSLs (up to 140 RMAs per year).</p>

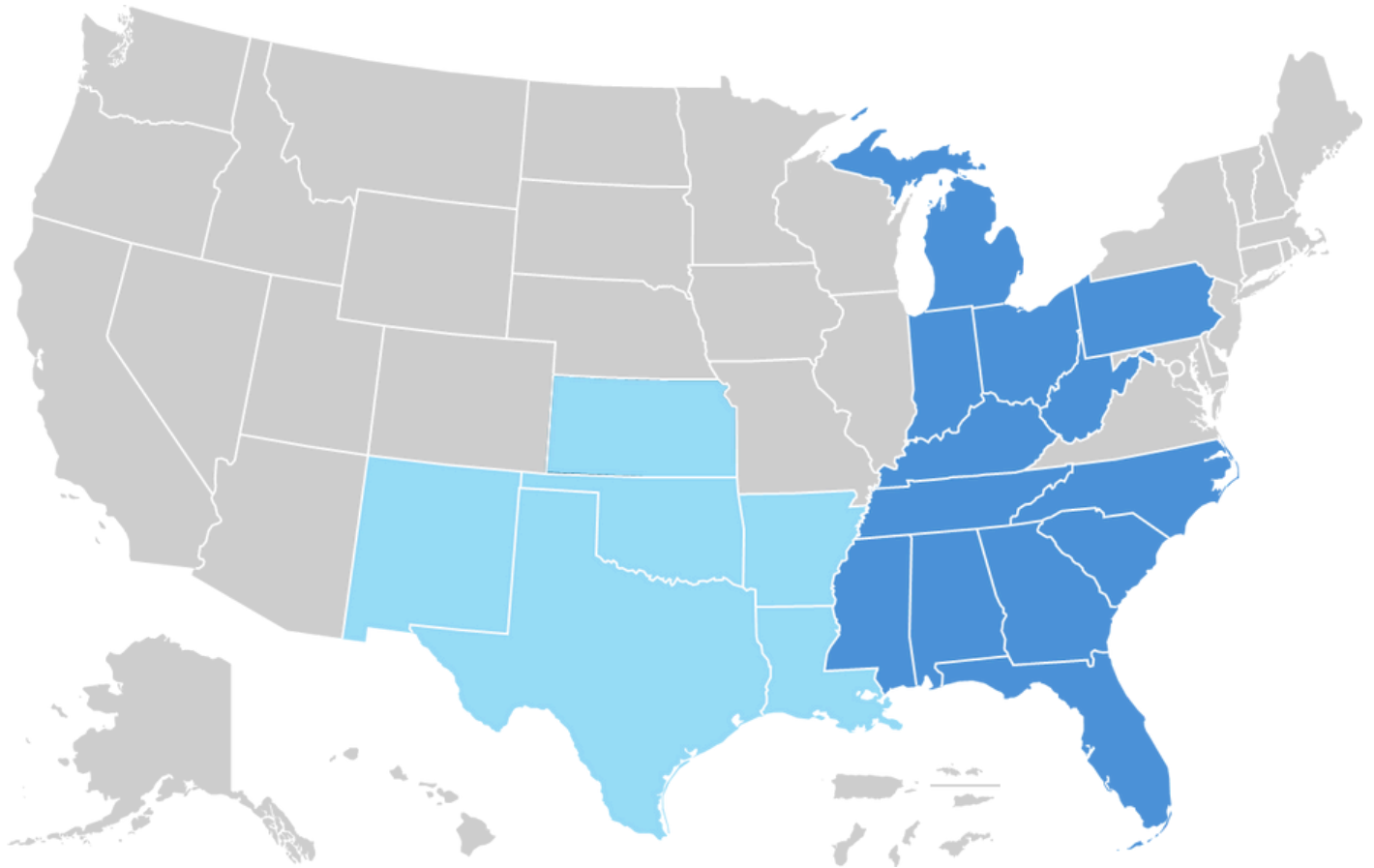
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APPENDIX A: *Region Map*



Tier 1

Tier 2

Tier 3