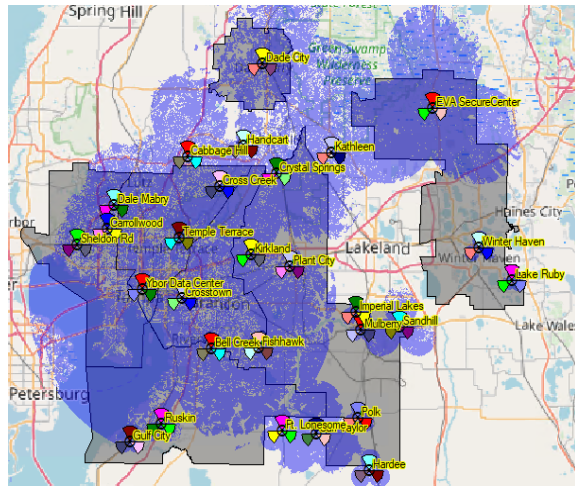


**4G Supports Market Transition Plans**  
**4G Unwired can assist with Rip and Replace Engineering Services.**

It's a complicated process. Regardless of what vendor you choose, 4G has a plan that can help carriers with their transition and hot cutover plans.



**Reliable, Accurate, and Cost Effective**

4G Unwired senior RF Engineers have the engineering and operational experience to help your company add 5G services to your portfolio.



**321.726.4183**

**FCC Broadband Data Collection**

4G Unwired provides complete BDC services for both Mobile and Fixed Wireless providers. We assist with spectrum management, PCI planning and network optimization to ensure FCC compliance.

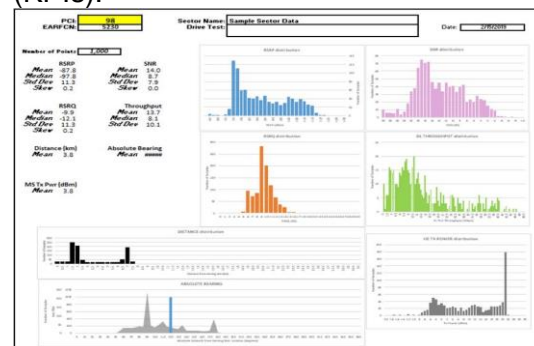
**Broadband Data Collection Summary for Fixed Broadband**

Section	Description	Required by Fixed Providers	Type	# fields
5	Fixed Form 477 Subscription Data			
5.1	Fixed Broadband Subscription Data (Tract Level)	Y	.csv	6
5.2	Fixed Voice Subscription Data (Tract Level)	If VoIP	.csv	4
6	Broadband Availability Data			
6.1	Fixed Broadband Coverage (Location List) [FABRIC]	Yes (6.1 or 6.2)	.csv	8
6.2	Fixed Broadband Coverage (Polygon Map)	Yes (6.1 or 6.2)	GIS	7
7	Fixed Broadband Supporting Data			
7.1	Fixed Broadband Coverage Methodology Information	Yes	Webform	
7.2	Verified Fixed Availability Data Information	No	Webform	
7.3	Fixed Wireless Propagation Modeling Information	If 6.2	.csv	15
7.4	Fixed Wireless Base Station Location and Height	If 6.2	.csv	6
7.5	Fixed Wireless Base Station Carriers	If 6.2	.csv	8
7.6	Fixed Wireless Link Budget Parameters	If 6.2	.csv	38
7.7	Fixed Wireless Clutter Category Data	If 6.2	.csv	5

**LTE Design & Optimization Services**

4G Unwired engineers use Atoll modeling software to design, plan and optimize 4G Networks. Atoll provides comprehensive network design with coverage and capacity planning and multi-technology traffic modeling and analysis.

4G Unwired as the experience, test equipment and engineering software to produce quantifiable improvements in your Network's Key Performance Indicators (KPIs).



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**LTE, CBRS & FCC Engineering Services**

Your Vision. Our Design.  
Your Reality.

**4G Unwired**  
RF Engineering Services

**4G Unwired Senior RF Engineers** specialize in wireless network design for Rural, Regional and International Carriers; including Cellular Operators, VAR's, WISPs, tower companies and Equipment Vendors.

- **CBRS LTE Design, SAS Certified**
- **FCC 477, RDOF, CAF II & ACAM FCC Engineering Services**
- **WISP WiMAX to LTE**
- **Microwave Network Engineering**
- **Spectrum Management**
- **Drive Test and Optimization**
- *Located on the Space Coast in Florida*

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