



# Infrastructure as a Service

## LTE Based Wireless Infrastructure Solution

ExteneNet's LTE Evolved Packet Core (EPC) delivers a 3GPP standards-based solution and is the cornerstone of a turnkey, feature-rich, Fixed Wireless Broadband Network offering well suited for Wireless ISPs, Broadband Access Providers and Rural Mobile Service Providers.

For Wireless ISPs and Broadband Access Providers interested in serving their community with true broadband services but have a deployment model challenged by geography, limited subscriber counts, and available capital, ExteneNet has an attractive solution alternative: **Infrastructure as a Service**.

Compared to more traditional network solutions that focus on serving larger, denser, metro areas, ExteneNet's **laaS** solution is well positioned to start small and scale, both in terms of operational simplicity and cost, but without sacrificing necessary capabilities such as features and functionality, system manageability, and upgradeability.

### The Solution

ExteneNet's **laaS** supports current 3GPP LTE standards, accommodates a host of top tier RAN equipment, can be deployed in a variety of environments, and requires little or no upfront capital. This is not another hosted solution. It is an in-market network for the provider to market and operate, while backed by ExteneNet's 24 x 7 x 365 support services.

HIGHLIGHTS

**Economics & Financials**  
No Upfront Capital

**Turnkey Solution**  
ExteneNet's LTE EPC Core, RAN, Software, Upgrades, and Support

**Deployment Flexibility**  
Greenfield and Brownfield Environments - Don't Strand Existing Investment

**Vendor Choice**  
Mix and Match from list of supported Tier 1 RAN vendors - Best of Breed

**Single Network - Multiple Revenue Opportunities**  
Use Cases: Fixed - Licensed/Unlicensed-CBRS, LTE Mobility, VoLTE, VoIP, Roaming, Enterprise, Wi-Fi...

**Solution Support**  
Single 24x7 Support Interface Across All Solution Components

**Futures**  
Ongoing Maintenance and Upgrades Included



### LTE Delivers

Globally, roughly 75% of the Internet base will be accessed via mobile only\*. As a result, early trials of 5G, which has its foundation in 4G and LTE, are fixed wireless use cases since ever faster connectivity speeds can be delivered and further enhanced by a lighter deployment model. LTE-based infrastructure, which has a broad ecosystem of vendors and products today supporting multiple use cases, is a natural stepping stone to 5G and the future.

# IaaS Commercial Deployments



Peak Internet, based in Woodland Park, Colorado is the official internet service provider of the Pikes Peak Region, serves residential and business customers across central Colorado and was acknowledged and awarded Best Broadband Provider for 2018. Peak has deployed a Part 96 ready solution.

[www.peakinter.net](http://www.peakinter.net)



Cal.net, which is based outside Sacramento, serves residential and business customers in north central CA. They offer a menu of connectivity services including broadband internet access called "Velocity Wireless Internet" where cable and xDSL can't reach to help connect their community to the world. Cal.net has deployed a Part 96 ready solution.

[www.cal.net](http://www.cal.net)



Paladin Wireless, based in Royston, Georgia, is a pure internet service provider and offers high speed wireless broadband internet to homes and businesses across 4 counties in Northeast Georgia.

[www.paladinwireless.com](http://www.paladinwireless.com)

## About ExteNet Systems

Lisle, IL-based ExteNet Systems, Inc. designs, builds, owns and operates a portfolio of networking infrastructure solutions serving both outdoor and in-building applications across a variety of operating environments. Our Customers include the Wireless ISPs, Broadband Service Providers, Rural Mobile Service Providers, National Wireless Carriers, Cities and Municipalities, Property Owners, and Enterprises. We deliver and support turnkey solutions using proven networking components such as Small Cells, DAS, LTE Evolved Packet Core, Fiber, Wi-Fi, and more to ensure a high quality connected experience.

For more information, please visit:

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## Terms:

**3GPP** = 3rd Generation Partner Project - International Telecom Standards Body

**5G** = 5th Generation of Mobility and Connectivity Services

**CBRS** = Citizens Broadband Radio Service - unlicensed spectrum utilizing 3.55-3.7 GHz and standardized by the CBRS Alliance

**EPC** = Evolved Packet Core - control element of 3GPP 4G-LTE Network

**IaaS** = Infrastructure as a Service- ExteNet Fixed Wireless Solution

**LTE** = Long Term Evolution

**OnGo** = CBRS Alliance brand of 3.5 GHz unlicensed spectrum - ExteNet is full member

**RAN** = Radio Access Network

\*Source: GSMA Intelligence - 2018

