

## Private LTE

**Enhance the Flexibility, Reliability & Reach of the WAN Access Network**

*Secure, high-performance and cost-effective enterprise connectivity is here.*

### Market Landscape

The number of wireless devices (enterprise and consumer) is increasing exponentially, and so is the correlating amount of data transmitted and received by these devices. The need for secure mobility-based wide reaching wireless access continues to grow. Wi-Fi is extremely congested and limited due to the high “noise,” especially in urban areas.

### Business Driver

Network security is a challenge, as Wi-Fi is largely considered a non-secure, or easily hackable, platform. To make matters worse, traditional Wi-Fi is riddled with coverage gaps in large campus environments or spread-out facilities such as commercial office parks, sports venues, airports, manufacturing plants, hotels and hospitals, etc.

### STEP CG Solution

Private LTE is a local cellular network solution enabling enterprises, service providers, or managed service providers to deliver connectivity for organizations that need to extend and improve performance over a wide-ranging footprint, security, control of data, mobility, and reduced costs from cabling within a specific metro or geographic area.

### Private LTE Benefits



Better Services Access



CBRS Solution is Available to All



Greater Network Security



Better Coverage and Mobility Indoors and Outdoors

### The Private LTE Cellular Advantage

These networks have restricted access based on SIM cards and have configurable network topologies so IT can leverage best practices in cybersecurity design. You can feel comfortable knowing that the same security that the carriers have enjoyed for years, is now available to the enterprise.

Enterprises are now able to deploy their own indoor and/or outdoor private LTE networks. There's some light regulation to make sure that no single entity over uses available CBRS spectrum.



## The Winning Components



### Enhanced Packet Core (EPC)

The EPC contains multiple pieces that can be cloud-based on-premise or hybrid, depending on the end user's preferences and requirements.



### Radio Access Network

eNodeB/CBSDs are small cells that produce radio waves similar to Wi-Fi access points, but have extended reach and coverage, so you need far fewer units.



### Efficient Spectrum Use

Think of the SAS as the guardian to make sure everyone has a level playing field. Rest easy knowing you can rely upon efficient and centralized spectrum management.



### STEP CG Management

Leave the complexity to us, while enjoying the benefit of having insights at your fingertips.



### End Devices

A wide array of end devices to meet every need - from phones to tablets - and everything in between.



### Expand Your Reach

STEP CG is your guide for Private LTE deployment. Let us help you navigate the terms, correlation to what you already know and keep bringing the carrier to the enterprise.

## About STEP CG

STEP CG is a highly innovative, award winning, nationwide IT services engineering firm headquartered in Northern Kentucky/Greater Cincinnati. STEP CG solutions are powered by strategic experts and best of breed technologies solving our customers' most complex IT challenges. Our expert engineers provide customers with solutions for cloud, security, collaboration, core infrastructure, and managed services. STEP CG is where innovation meets execution.