

NEXT GENERATION OF ENTERPRISE WIRELESS INNOVATION

The opening of the new private cellular spectrum options (eg. CBRS in the United States) has paved the way for a powerful new option for enterprise wireless: your own private LTE and 5G network.

Private cellular opens the door to a new set of applications that optimize the way we all work – in addition to improving the quality of experience for existing digital infrastructure that's critical for business success. In the near future, it will also make it possible to seamlessly interoperate with public mobile networks, as a Neutral Host.

What's now needed is an end-to-end networking solution – one that can easily integrate with an existing enterprise network and drastically simplify private cellular wireless operations.



CLOUD
MANAGED



WIRELESS
WITH SLA



UNINTERRUPTED
MOBILITY

Introduction

Celona, with its 5G LAN solution, is focused on accelerating the adoption of business-critical apps on enterprise wireless and helping organizations implement new generation of digital business initiatives.

A Celona 5G LAN integrates within any existing enterprise network, and brings together all the components required for an IT team or a managed services provider to build an end-to-end private cellular network that's easy to deploy and manage at scale.

Celona 5G LAN solution includes:

- Remotely provisioned physical and embedded SIM (eSIM) cards / identities on the connected devices tied to corporate policies,
- Indoor and outdoor cellular access points with redundant PTP timing masters for seamless mobility,
- Edge compute services on-site including the 4G/5G Mobile Core functions as defined in the 3GPP standard and enterprise L2/3 network integration,
- Cloud-hosted orchestration for network operations, KPI-based application quality monitoring,
- API libraries for software developers and managed service providers, and
- Licenses to access regional private spectrum options (e.g., SAS for CBRS spectrum in the United States).



A Celona 5G LAN is offered as a simple to consume 3/5-year platform subscription, in increments of total number of indoor or outdoor access points within the network. An active Celona subscription includes access to software technical support and limited hardware warranty.

It is designed to tackle long standing technology challenges for enterprise wireless connectivity:

- Interference free operation to avoid unpredictable performance,
- Low latency promise for apps that require real-time network response,
- Wire-like guaranteed throughput for critical business applications,
- Wireless spectrum segmentation for devices that require highest level of privacy and security, and
- Indoor and outdoor RF coverage in very large and highly challenging environments.

CELONA 5G LAN | SOLUTION BRIEF

WHAT DO INDUSTRY LEADERS THINK?

Celona's unique solution architecture has received the "Outstanding Innovation in OnGo Technology and Architecture Award" for 2021 from the OnGo Alliance, highlighting "Celona's distinction in cutting-edge technology and business model."

Frost & Sullivan's "New Product Innovation Award" for Celona in 2020 calls for the significance of delivering a solution that "can co-exist with its existing networks."

In its issue of the 2020 "Emerging Vendor Award in the Networking and Unified Communications Category" to Celona, CRN notes that Celona platform's "machine learning libraries for app intelligence and AI based actions for network automation are particularly critical for ease-of-use and sophisticated spectrum management."



"Our customers have been demanding a comprehensive and scalable approach to private 5G, and we are excited to lead the industry with a solution powered by Celona."

Shahid Ahmad, EVP New Ventures, NTT Ltd.

"Our partnership with Celona reflects a shared vision that enterprises need a viable 5G strategy to support specific digital initiatives within their organizations."

Jeff Lipton, VP Corporate Strategy, HPE Aruba

Celona MicroSlicing™

The level of agility offered by Celona's integrated product portfolio also comes with high degree of reliability on a per application and device group basis.

While most private cellular networks only provide basic QoS controls to prioritize voice services over all other data services, Celona offers the ability for enterprise network administrators to prioritize (and map to specific VLANs and QoS DSCPs) any service that's mission-critical within their environments.

Celona's patented technology, MicroSlicing, enables customizable network capabilities and quality of service for different service types including data throughput, error rate, latency, reliability, L2/3 forwarding and network segmentation. MicroSlicing provides true service level assurance (SLAs) for multiple applications across groups of devices.

Celona Advantage

The Celona 5G LAN solution is the first integrated end-to-end private cellular network for enterprises, is the only solution that truly integrates with an existing enterprise network, and delivers the only KPI-driven operational model that focuses on app experiences beyond infrastructure maintenance.

A Celona 5G LAN has been purpose built to deliver significant benefits in TCO:

- Up to 6x cost savings on CapEx for product components required for an end-to-end network install,
- No need to operate a separate routing infrastructure to integrate with the existing network - significantly reducing OpEx.
- And, instead of ensuring QoS and SLA only for a specific set of app and device types, a Celona 5G LAN can be configured with new MicroSlicing policies at any time - enabling significant ease of use during moves, adds and changes.

In summary, instead of force fitting a traditional cellular wireless solutions into enterprise environments and requirements, Celona's 5G LAN solution and its go-to-market model has been designed from the ground up with private enterprise use cases in mind.

Our value to our customers and technology partners is clear: easily translate the benefits of cellular wireless technology to existing enterprise infrastructures and quickly enable new digital initiatives that improve customer experience and employee productivity.

Visit celona.io/start to dive deeper and to see a Celona network in action