

INDUSTRY BRIEF

Private 5G for Smart City Infrastructure & Bridging the Digital Divide

Across cities in the US, we've seen how technology can support community initiatives, drive better decisions and power projects across education, emergency services and public safety. But our journey to connected communities is just starting. Millions of Americans continue to lack access to low-cost and reliable internet broadband services, creating the "digital divide" – a gap between those that have access to digital services and those that don't.

With the public mobile networks supporting high density of mobile users, a private mobile network presents the opportunity to enable remote learning for students with the urgent need for secure internet connectivity, with the eventual expansion into public safety and digital community initiatives to further extend quality of life for all residents.



**NON-METERED
COST
STRUCTURE**



**MANY USE
CASES, ONE
NETWORK**



**EASE OF
DEPLOYMENT
AT SCALE**

celona

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Introduction

Celona's solution architecture for private LTE/5G wireless provides an unmatched opportunity for smart cities and their managed services partners: a softwarecentric approach that makes it possible to enable private wireless connectivity for multiple use cases simultaneously – delivering strong ROI with a nonmetered cost structure.

A Celona network delivers:

- Lower cost to acquire and operate enabling deployments at scale,
- Full control over the network configuration & connected devices,
- Guaranteed QoS on a per application basis across myriad of use cases,
- Higher degrees of privacy & security for critical infrastructure, and
- Faster return on investment with a non-metered cost structure.

Celona Advantage

Deployed as overlay to any IT infrastructure across enterprise, government offices, school networks, Celona infrastructure does not require separate fiber/coax backhaul. Overlay architecture assumes no dedicated cabling and allows the service to be expanded wherever there is private network connectivity to smart city infrastructure.

For each use case, Celona uses its patent pending MicroSlicing™ technology to appropriately secure and assign specific service levels for latency and throughput. For applications such as student remote learning, critical IoT infrastructure connectivity, public safety voice communications or video surveillance applications, network administrators can easily apply strict QoS guarantees to each of these traffic types – ensuring that the same infrastructure can be re-used for growing list of digital initiatives for many years to come.

Open Ecosystem

With an open ecosystem approach to fuel innovation, Celona partners with industry leaders like HPE Aruba, Qualcomm, Microsoft, Apple, Google, Cradlepoint, Sierra Wireless, Inseego, Zebra, NTT and others to enable new and innovative solutions for Smart Cities.

Instead of integrating different technology components from multiple product companies, Celona's solution and its goto- market model has been designed from the ground up with private mobile networks in mind. Value to smart cities across the US is clear: enable new digital services for all members of the community at a rapid pace and accelerate ROI for wireless broadband initiatives.

Visit celona.io/journey to see a live demo of the solution and to request a free trial.

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