Cradlepoint and Celona: Application Aware Connectivity on Private Mobile Networks

Due to the continued proliferation of connected devices and the requirement for always-available network access, enterprise administrators are struggling to deliver reliable wireless connectivity to where it's needed.

In situations where a business calls for the connectivity of widely dispersed surveillance cameras, mobile workstations or IoT infrastructure, physical cabling might end up being cost prohibitive and Wi-Fi might lack the necessary coverage and resiliency that's demanded.

Fortunately, there is now a new enterprise wireless connectivity option on the table with private mobile networks – even for the devices that do not support cellular wireless connectivity today.

SEAMLESS INTEGRATION

GUARANTEED QOS

UNIFIED LAN AND WAN SERVICES

A solution that leverages Celona's LTE and 5G network architecture using the private spectrum options, such as CBRS in the US, and the flexibility of Cradlepoint routers that can seamlessly connect to both private and public carrier networks, opens the door to expand the reach of enterprise networks like never before.

Translating Cellular Wireless to Enterprise Networks

Many of today's enterprise technology projects are calling for users and devices to connect to the corporate network in locations that extend well beyond where the corporate LAN and WLAN currently exist. This is especially true for enterprise initiatives that involve automation, continuous monitoring and safety.

Celona's private mobile network has become that third connectivity option when attempting to extend the corporate network into areas that were once considered impossible to achieve in a cost effective manner.

The solution includes all the ingredients an enterprise IT or OT teams need to get a private LTE / 5G wireless network up and running. This includes private SIM cards, indoor/outdoor enterprise optimized access points, cellular wireless mobile core optimized for enterprise networks, and a cloud-native networking platform.

Bridging the gap to go beyond the corporate LAN

Because private LTE and 5G networks are new to the enterprise, there will undoubtedly be situations where device endpoints such as surveillance cameras and IoT/IIoT sensors are not manufactured with built-in cellular wireless capabilities. This is where Cradlepoint comes into the picture. The company's cellular routers let network administrators connect endpoints that only support Ethernet or Wi-Fi today.

Cradlepoint routers can be configured to assigned port, device group and application level QoS metrics to specific traffic flows as Ethernet and Wi-Fi enabled devices connect. Celona's MicroSlicing™ technology then translates such QoS rules to different traffic classes on the LTE / 5G wireless. MicroSlicing then allows IT admins to apply strict service levels for bandwidth, latency, packet error rate parameters for relevant flows.

Since Cradlepoint routers also connect endpoints via a public carrier networks, the combined Celona and Cradlepoint solution serves as the foundation for extending the corporate LAN and WAN connectivity across the enterprise.

Visit us at **celona.io/journey** to request a custom demo.