Private Wireless - Simplified
Federated Wireless delivers the industry’s first 4G/5G private wireless solution, Connectivity-as-a-Service, offered as an end-to-end managed service. With our solution, enterprises have easy access to a low cost, high performance private wireless network to meet their IoT and communication needs. We’ll install and maintain the network, taking advantage of the latest mobile technology to tune the network, while keeping control where it belongs – in the hands of the Enterprise.

Connectivity-as-a-Service

Our Product
Enterprises demand secure wireless networks that can be trusted with mission-critical tasks. As digital transformation and IoT become business imperatives, 4G and 5G private networks are a must to connect everything from robots, cameras, signage and machinery to virtual reality applications. Federated Wireless Connectivity-as-a-Service is an end-to-end managed service that features:

- Private wireless networks for the Enterprise
- Carrier-grade quality for mission critical applications
- Cloud-native for simplicity and scale
- Delivered through cloud marketplaces
- Subscription based with a cost effective monthly flat fee
- IoT/Enterprise applications available as add-ons

The Benefits

- **Simplicity** – businesses can order the service they need, and we’ll deliver the network to bring the service to life. Quickly.
- **Low Cost** – high performance private wireless technology delivered at Enterprise Wi-Fi costs.
- **Flexibility** – we bring our best-in-class solutions, partners, networks and services to meet business requirements.
- **Cloud Scale** – automated applications and streamlined processes delivered from the cloud for improved efficiency that grows as business needs grow.
- **Control** – businesses maintain secure control of network, policies and data, with visibility into network performance and usage.
The Applications

In addition to a robust and reliable Enterprise private wireless network, Federated Wireless partners with cloud ecosystem marketplaces, opening up access to a plethora of IoT and edge compute applications.

- **Industrial Automation** – private wireless connectivity supports a wide range of use cases across manufacturing, warehousing and logistics, including shop floor automation, robotics, and bar code scanning. The addition of edge compute ensures that applications requiring low-latency are supported.
- **Critical Communications** – add ruggedized laptops and push-to-talk devices to the network to ensure that mission-critical communication is maintained throughout the enterprise.
- **Safety and Security** – from smart cameras that learn through artificial intelligence to digital signs that respond to changes in real-time, the private wireless network adds enhanced security in any environment.

The Details

The end-to-end managed service provided by Federated Wireless includes planning, design, build, operation and support for a private wireless network, enabling enterprises to reap the benefits of private wireless with minimum risk and capital expenditure.

Connectivity-as-a-Service (CaaS) includes the following network elements:

1. Radio access using 4G technologies, with a roadmap to 5G
2. Core network services for control and packet processing
3. APN support to reach applications in the local network as well as the internet
4. End-to-end network management via a unified portal
5. Service delivery and fulfillment tracking through a single pane of glass
6. Spectrum sharing service to allocate and manage spectrum (CBRS)
7. Seamless integration with an enterprise’s existing onboarding platform.

The CaaS offering includes options for stand-alone access points as well as a centralized RAN where the signals from multiple antennas and remote radio heads are processed on a centralized server. The capability to host on-prem hardware as well as virtualized RAN using industry standard architecture gives Federated Wireless the complete flexibility to pick the right solution for our customers based on their deployment needs.

The CaaS core components provide cost effective and IT friendly connectivity to the public Internet, subscription management (SIM handling) and connectivity policy management. Enterprise customers will be able to define and apply network policies that gives them complete control over their end user devices and IoT sensors.

CaaS includes the industry leading Spectrum Controller service in the cloud that manages CBRS spectrum for the enterprise network. The SAS service may interact directly with each radio or to a domain proxy that handles the SAS interaction for all the radios in the deployment.

An integrated Network Management portal in the cloud helps in the configuration, monitoring and management of the end-to-end service. Customers will be able to track network health through KPIs as well as low-level diagnostic and troubleshooting information. The zero-touch configuration and onboarding of network components makes commissioning and upgrade/rollback activities a complete breeze.

The customer portal also provides complete visibility of the end-to-end fulfillment tracking for the customers network, all the way from procurement through deployment and commissioning.

Our Promise

The world is watching as we embark on this latest innovation enabled by shared spectrum: private wireless networks delivered simply and cost effectively from the cloud. We commit to uncompromising excellence as we continue to develop our CaaS solution.

To learn more, please visit https://federatedwireless.com/caas/