

An aerial night view of a city, likely New York City, with a network overlay of glowing white lines and nodes connecting various points across the cityscape. The sky is dark blue with scattered stars and city lights. A text box is overlaid on the top part of the image.

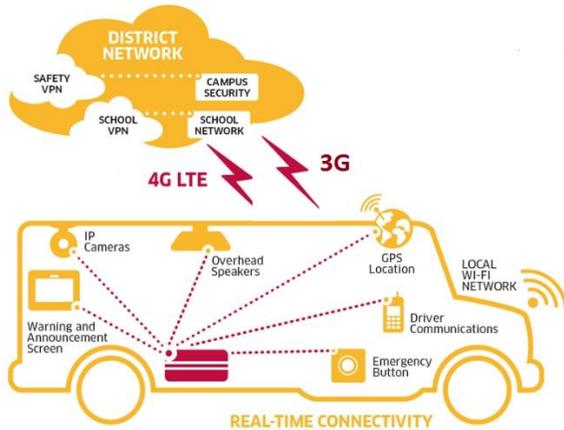
Smart Cloud Managed Wireless Solution



Connecting Things and People

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Connected Transportation

Spectronn's smart, cloud managed wireless mobile Internet of Things (IoT) gateway ("SiFi-B") concurrently connects to multiple wireless networks (3G, 4G, WiFi, satellite, etc.) operated by different mobile network operators to provide a high speed wireless backhaul for buses, trains, cars, trucks and other moving things.

A WiFi hotspot inside the connected vehicle provides reliable connectivity even when mobile. The mobile gateway and the smart cloud server exchange real-time information about the network latencies, bandwidths, etc. to mitigate loss of coverage and/or capacity due to mobility. Advanced machine learning algorithms and networking protocols make this possible.

WiFi video streaming inside buses and trains is also possible without any Internet connection. Such an infotainment system presents a unique opportunity for the transportation system operators to provide value added services to its customers as well as new avenues to monetize their services.

Supply chain management, transportation logistics, mobile healthcare, and providing data to insurance companies are some of the other markets enabled by the SiFi-B technology.



Smart & Connected Communities

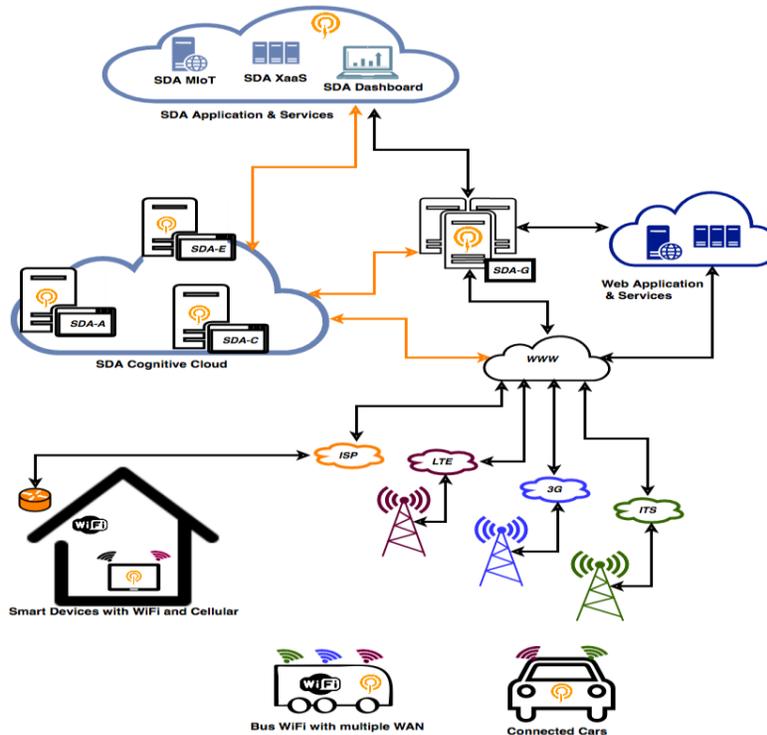
SiFi-C is a cloud managed, plug-and-play WiFi router that provides secure WiFi hotspot connectivity in malls, street side, campuses etc., on demand. Uniqueness of this technology is that the backhaul connectivity can be a fiber network, DSL, cellular or any combination of these networks.

End-to-end quality of service (QoS) is optimized adaptively based on real-time measurement about the wireless link interference, congestion one or more backhaul links, application needs and network policies.

Multiple user authentication mechanisms such as social login provides invaluable data to the service provider.

WiFi First and WiFi offload services reduce the cost for the consumer as well as cellular operators. Real-time data analytics provides critical network and business intelligence.

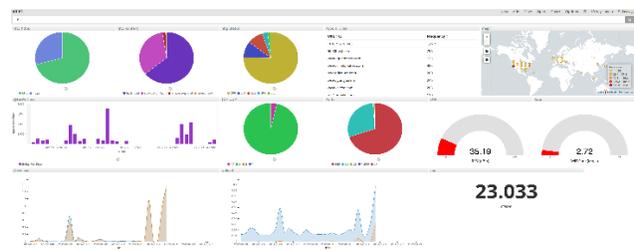




Innovative Cloud Architecture

The innovative, software defined wireless access (SDA) cloud architecture is scalable, secure, and smart. The cloud decision engine can be installed in a public or a private server. Together a client API, the SDA architecture runs the entire network in “auto-pilot” mode with little manual intervention. A number of industry standard protocols are supported.

Spectronn’s cognitive wireless technology is a smart overlay over any existing network infrastructure. That is, no changes are required to existing base stations, WiFi APs, application servers, etc.



Contact us to solve your mobile, wireless IoT and broadband issues.