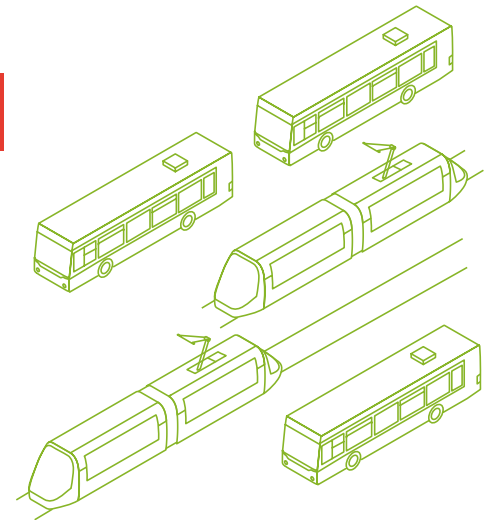


## AirLink® MG90: Gigabit Wi-Fi Improves Safety and Ridership

### Meet John



John is the Chief Technology Officer (CTO) for a large public transit agency that owns both bus and light rail fleets. John is responsible for deploying on-board technologies that support public and employee safety, and also for increasing customer acquisition and revenue by implementing value-added technology services in the agency's fleets.



## THE CHALLENGE

### IMPROVE SECURITY FOR 24X7 OPERATIONS

The transit agency is now offering 24 hour-service on select routes during weekends, and is investigating various value-added services. John has been asked to recommend solutions that improve on-board security during extended hours, and additional technology services, such as passenger Wi-Fi, to enhance overall rider experience.



Market stat: LTE-Advanced supports up to 1.5 Gbps uplink, 3 Gbps downlink bandwidth.\*



## THE SOLUTION

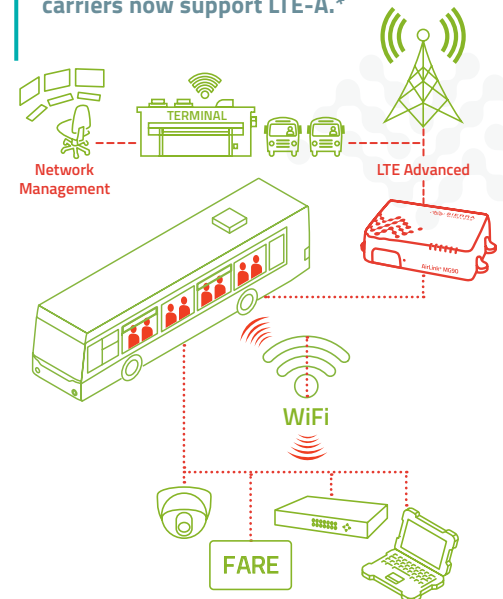
### DUAL-CONCURRENT GIGABIT WI-FI ENABLES LIVE VIDEO STREAM AND PASSENGER CONNECTIVITY

John reached-out to his system integrator, Rob, to identify a single solution that would meet both of these requirements. Rob suggested John trial the newest, multi-network vehicle router from Sierra Wireless—the AirLink® MG90—in one of his buses.

Because the MG90 offered LTE-Advanced, it provided adequate bandwidth over the agency's 1,600-square mile service area to stream live video from the bus cameras for monitoring suspicious on-board activity in real-time. This, combined with the MG90's dual-radio dual-concurrent Gigabit Wi-Fi supporting up to 128 clients, enabled riders to enjoy reliable on-board Wi-Fi, while still allowing enough bandwidth for a variety of onboard systems, such as fare payment and real-time route, schedule and service information. The MG90's dedicated Wi-Fi as WAN also meant that John could connect the bus to the depot network when it returned to the yard, and securely offload all video data at high speed.

John deployed MG90s in both light rail and bus fleets and, within three months, ridership had increased by 20 per cent, and only one criminal incident was reported.

Market stat: All major North American carriers now support LTE-A.\*



\*Sources: 4G Americas, Ovum Research, E-etsource.com

[sierrawireless.com/MG90](http://sierrawireless.com/MG90)