



Orion Network
powered by Motorola



ORION
always connected



Unified Communications



THE ORION NETWORK

UNIFIED COMMUNICATIONS - NETWORK



- A national wireless network providing business critical voice and data communications.
- Orion is a co-operative supported by Australia's leading mobile communications experts:
[Mastercom](#) (Sydney), [CSE Crosscom](#) (Perth), [CSE Crosscom](#) (Melbourne), [Gencom](#) (Newcastle), [Queensland Communications](#) (Brisbane/ Gold Coast) CSE Crosscom (Adelaide) and [CSE Crosscom](#) (Darwin)
- Orion is a digital radio system Powered by [Motorola's MOTOTRBO™ Connect Plus & Capacity Max](#) digital mobile radio technology (DMR), voice and data services are integrated into one device.

The Orion Network
COVERAGE MAP

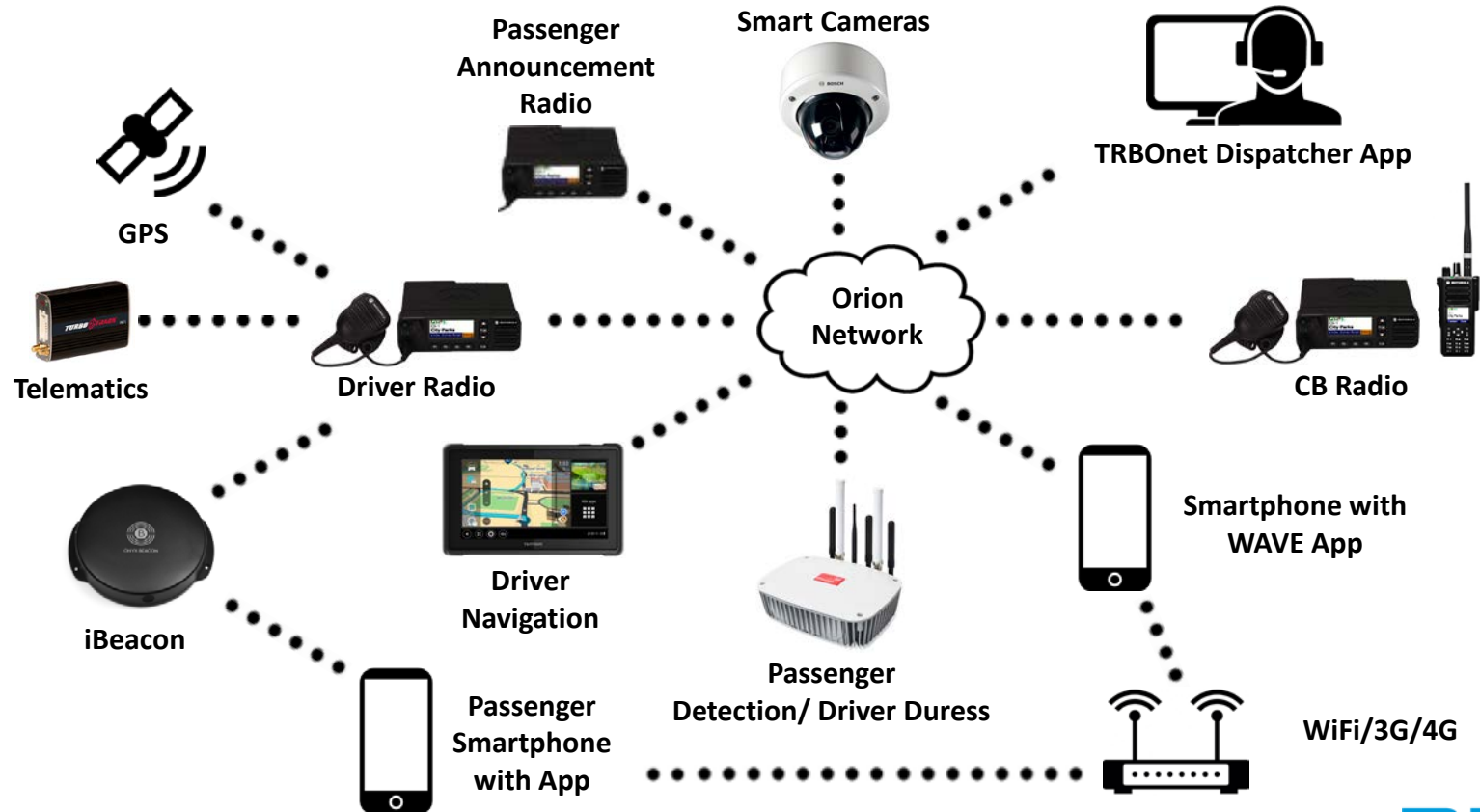
SA	Adelaide
WA	Perth
NSW	Sydney
NSW	Newcastle
ACT	Canberra
QLD	Brisbane
VIC	Melbourne
NT	Darwin



THE ORION NETWORK - DIGITAL MOBILE RADIO













COMPLETE ECO-SYSTEM – UNIFIED COMMUNICATIONS



THE ORION NETWORK

UNIFIED COMMUNICATIONS - DIGITAL MOBILE RADIO



SINGLE SITE CONVENTIONAL	IP SITE CONNECT	CAPACITY PLUS	CAPACITY MAX	CONNECT PLUS
CONVENTIONAL		TRUNKING		
				
1 SITE	1 – 15 SITES	1 – 15 SITES	1 – 15 SITES	1 – 250 SITES
				
UP TO 200 USERS*	UP TO 200 USERS*	UP TO 1600 USERS/SITE*	UP TO 3000 USERS/SITE*	UP TO 3000 USERS/SITE*
BASELINE COVERAGE	EXTENDED COVERAGE	COST-EFFECTIVE COVERAGE AND CAPACITY	COVERAGE, CAPACITY AND CONTROL	EXCEPTIONAL COVERAGE

THE ORION NETWORK

UNIFIED COMMUNICATIONS - SERVICES



CORE SYSTEM



ORION NETWORK



PRIVATE CALLING



STATUS MESSAGING



VOICE RECORDING & EVENT LOGS



GROUP CALLING



DURESS EMERGENCY ALERTS



RELIABILITY & REDUNDANCY



SCHEDULED & AUTOMATED TASKS

ENHANCED OPTIONS



RADIO ALLOCATION & SIGN ON/OFF



PASSENGER ANNOUNCEMENTS



CANBUS INTEGRATION



LOCATION TRACKING



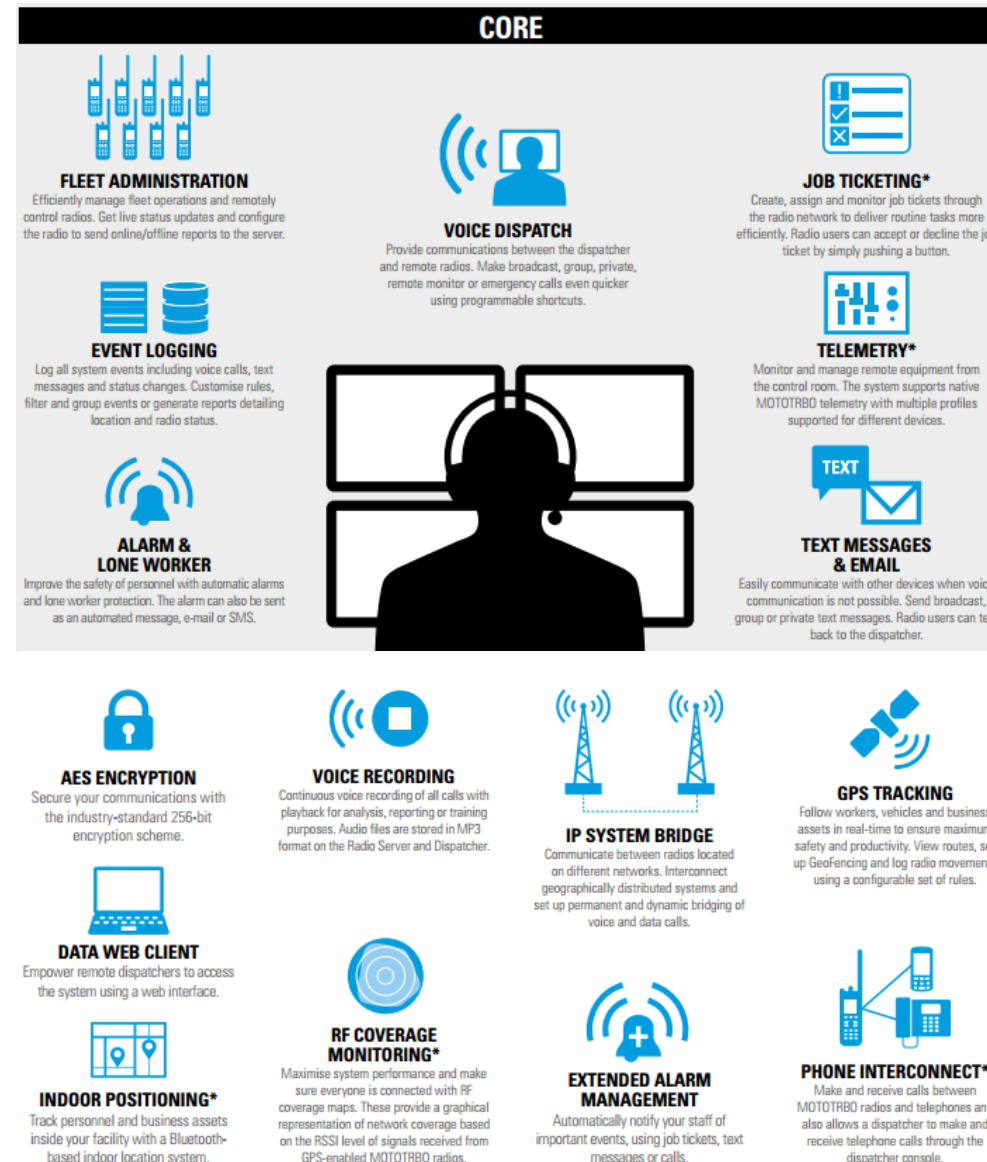
WAVE SMARTPHONE INTEGRATION



WAVE TERMINAL INTEGRATION

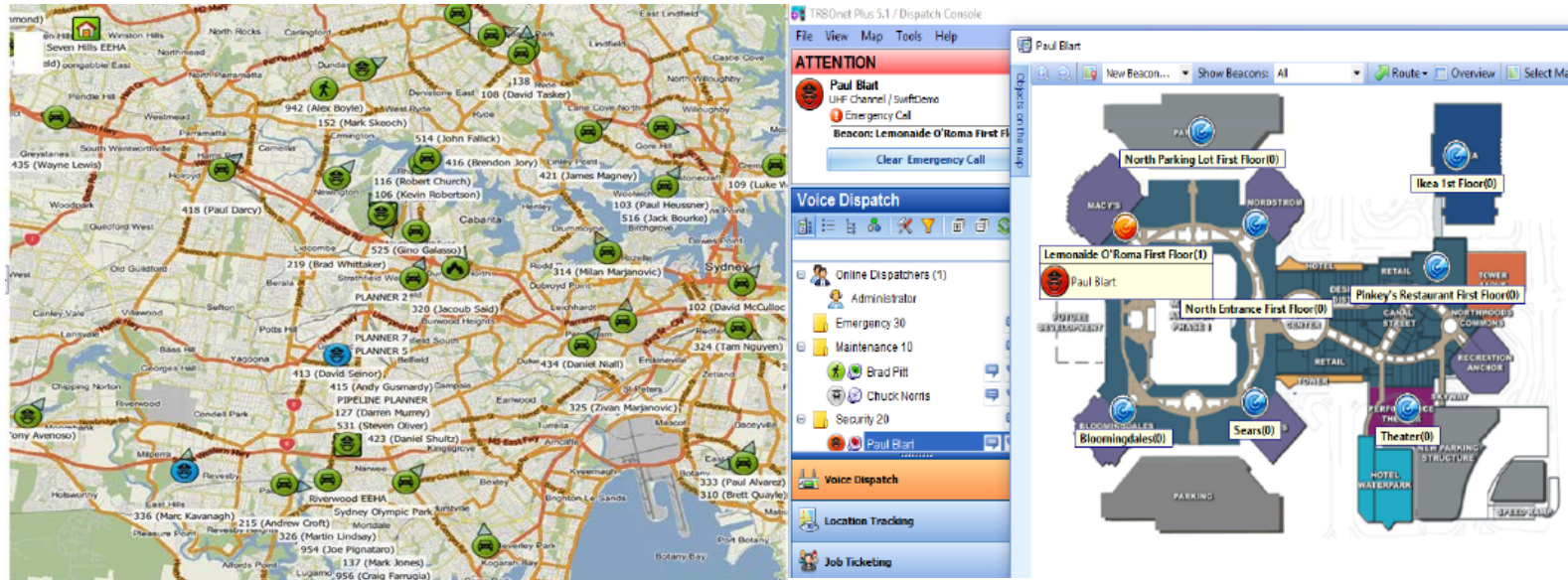
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UNIFIED COMMUNICATIONS – TRBONET DISPATCHER APPLICATION



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UNIFIED COMMUNICATIONS - BEACONS



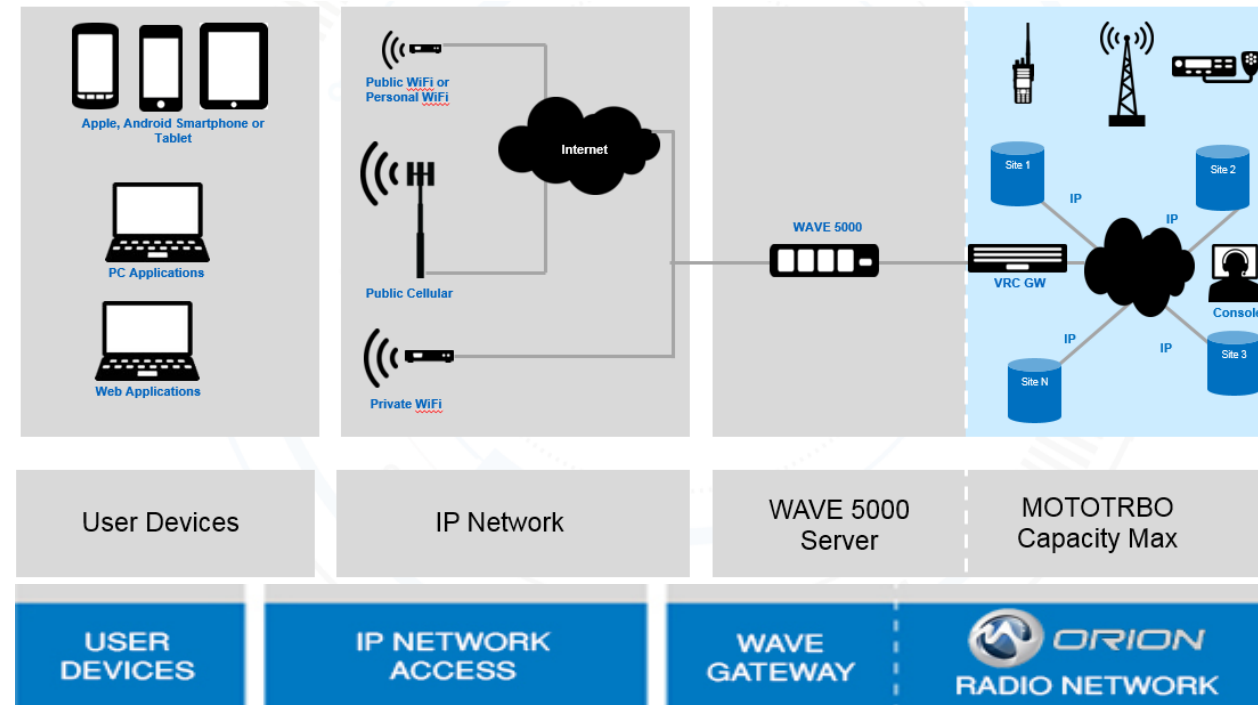
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UNIFIED COMMUNICATIONS – SMARTPHONE IOS & ANDROID SUPPORTED PLUS WI-FI

WAVE Smartphone Mobility

- Cloud hosted service
- Supports group calls between an iOS or android smartphone and Orion digital radios
- Requires smartphone and or e Series terminal with internet connectivity via 3G/4G or Wi-Fi



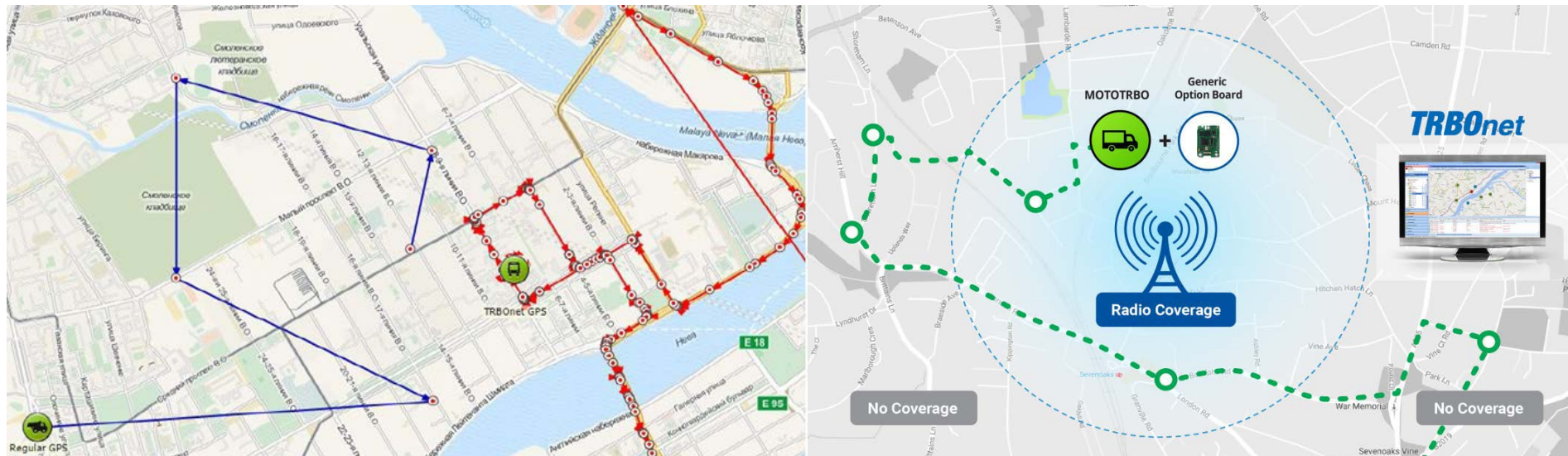
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UNIFIED COMMUNICATIONS – STORE & FORWARD CAPABILITY

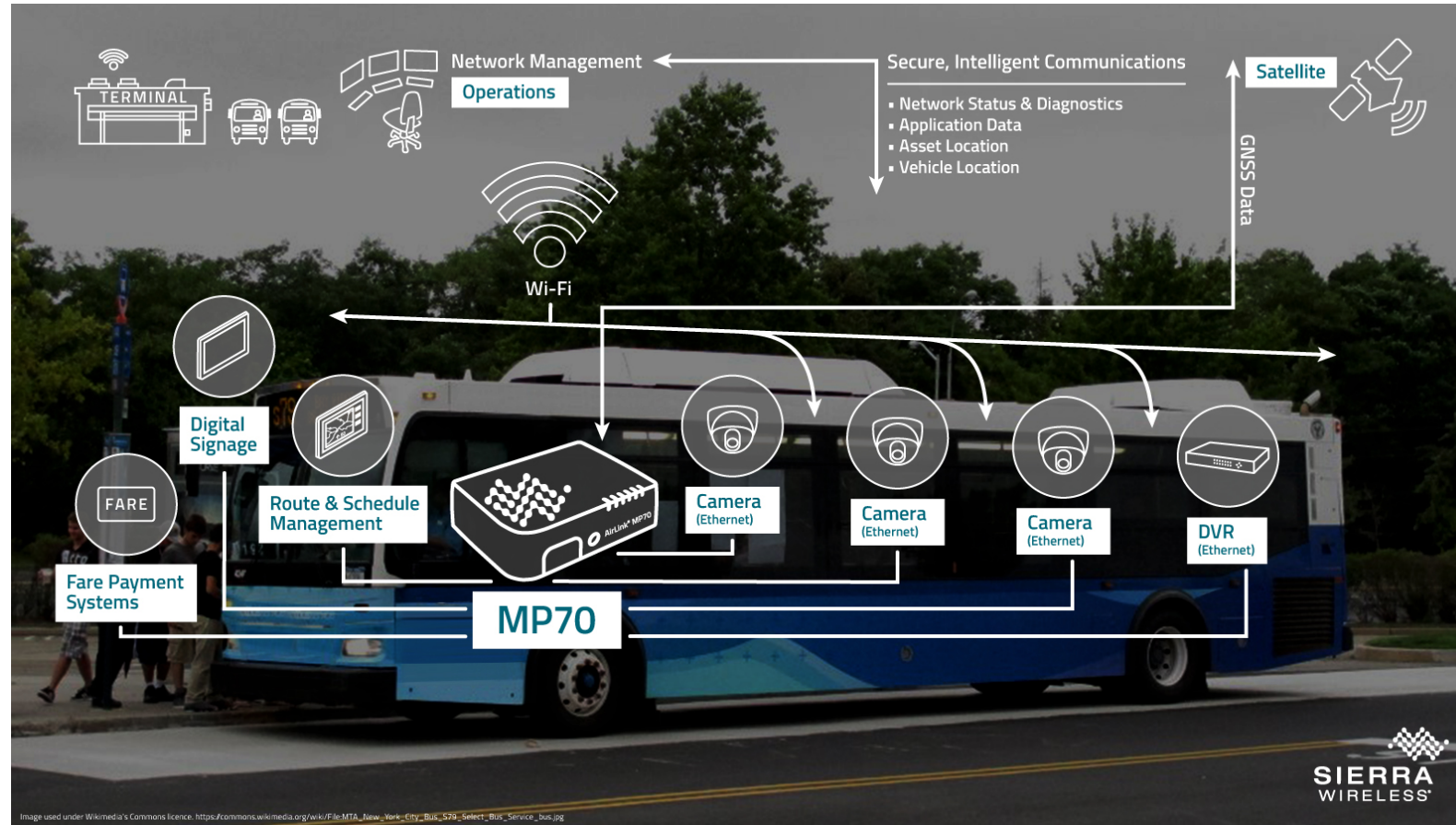
The Generic Option Board provides detailed route information even in intermittent connectivity environments

- More frequent GPS updates
- Decreases the RF channels load –sends multiple GPS data as one package
- Sending data by request or according to a schedule
- Stores GPS data even if the radio is outside the radio coverage
- Automatic Data Retrieval



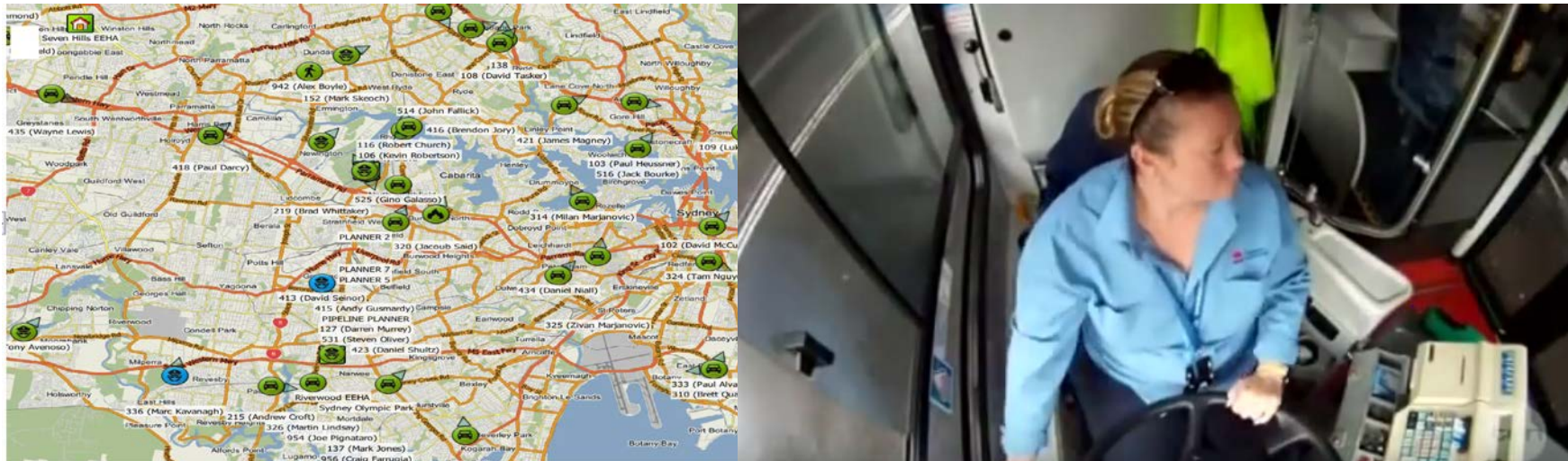
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UNIFIED COMMUNICATIONS – WI-FI



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UNIFIED COMMUNICATIONS – CAMERA/ DRIVER DURESS

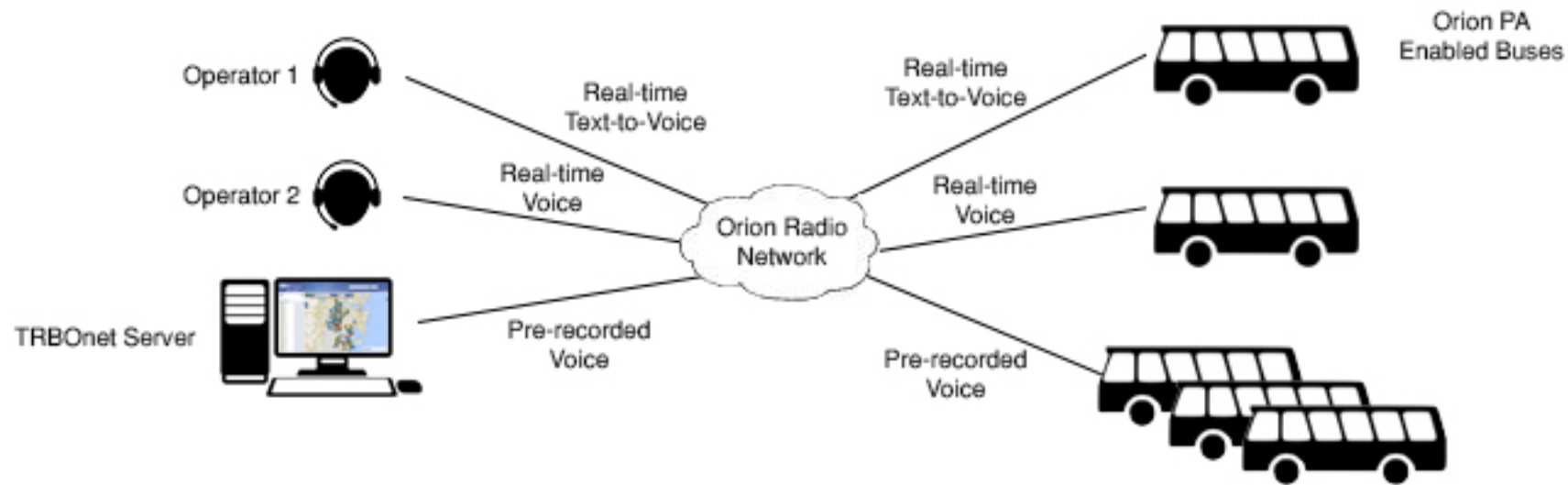


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PASSENGER ANNOUNCEMENTS



Orion enables Passenger Announcements in real-time or pre-recorded, and supports both voice and text-to-voice input methods. Announcements can be targeted to individual or logical groups of buses.

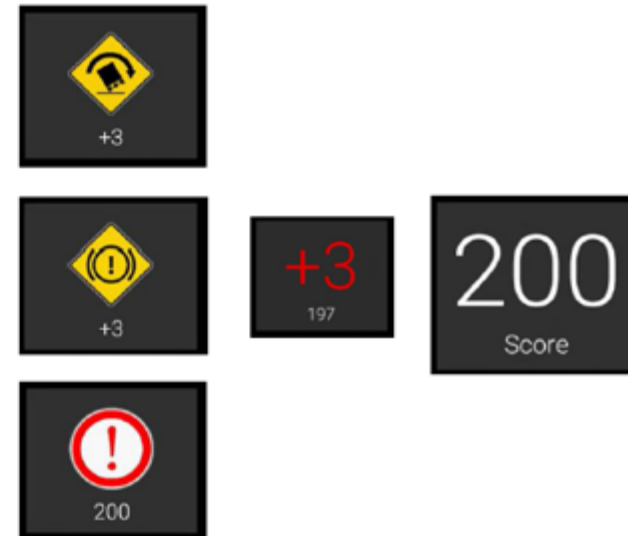
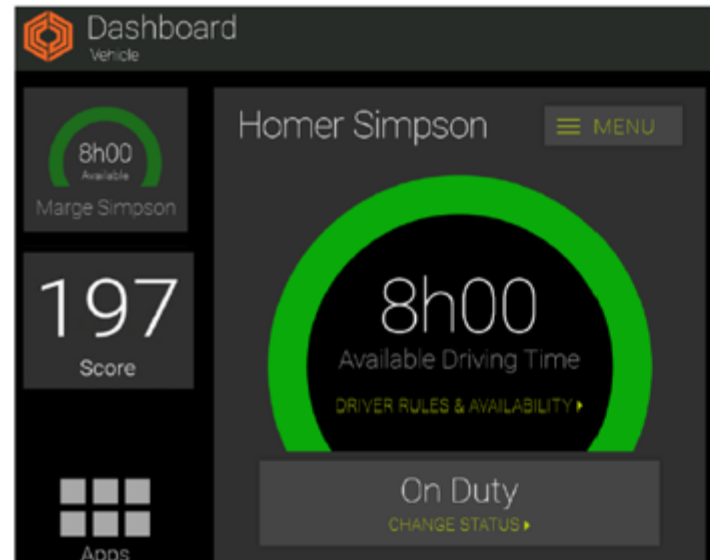


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UNIFIED COMMUNICATIONS - TELEMATICS



- Real time driver feedback
- Instantaneous scoring
- Programmable range tolerances for alarms
- Great for driver incentive programs



THE ORION NETWORK

UNIFIED COMMUNICATIONS – DATA TERMINALS



Maps and Services



Maps



Speed Cameras



Voices



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