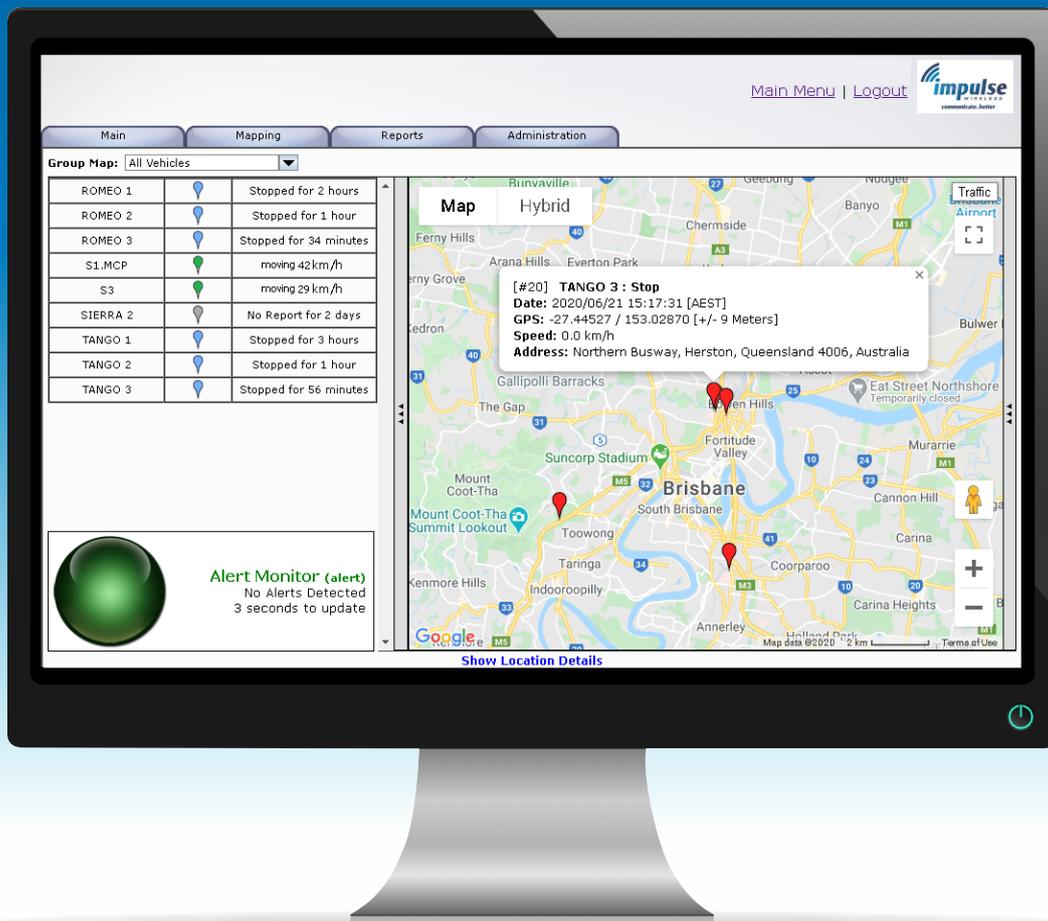
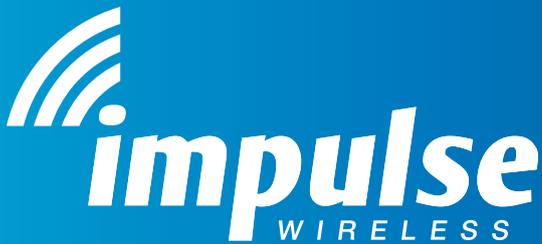




# Communications, OTR and performance solutions for bus

Much more than just a radio.





# Everything you need, in one place.

**IMPULSE Wireless** provides multiple communications and management solutions in one package. This means that you have everything you need at your fingertips, with less cost and less complexity.

## Safety

### On-time running management and reporting

- delivers real-time, high-resolution vehicle location, solving problems with state bus tracking systems like PTIPS and offering precise information on performance and KPIs
- Provides pro-active OTR management
- Detailed reporting to focus on areas to improve

### Two-way communications (radio replacement)

- Unmatched coverage across Australia
- Secure, encrypted communication surpasses digital and analogue radio, boosting voice quality and eliminating interference

### Telematics and driver performance monitoring Driver behaviour

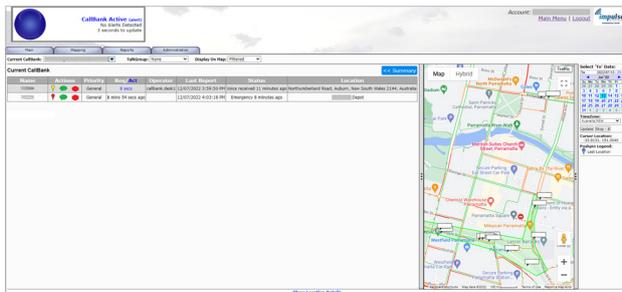
- Engine and vehicle monitoring via CAN bus
- Driver information displays

Our live operational tools and reports enhance visibility, improve safety, and simplify KPI reporting.

# System components

## Web Console

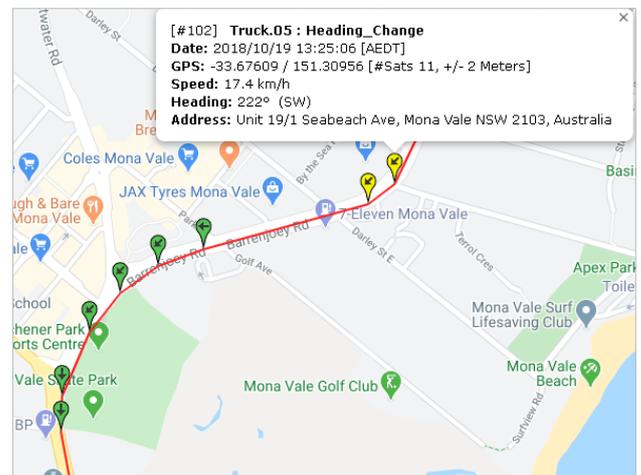
Operators view live tracking, historical data, and are alerted to emergency alarms from field users, by visual and audible alerts. CallBank PTT call management system boosts productivity and improves customer service and safety by prioritising and queuing communications. As well as two-way communications, it provides alerting, location, on-time, schedule and driver information at the control operator's fingertips, and allows emergency calls utmost priority.



## AI-powered Real-time location with Turn by turn tracking

IMPULSE Wireless AI-powered GPS tracking, developed in-house in Sydney, provides incredible accuracy while reducing map clutter.

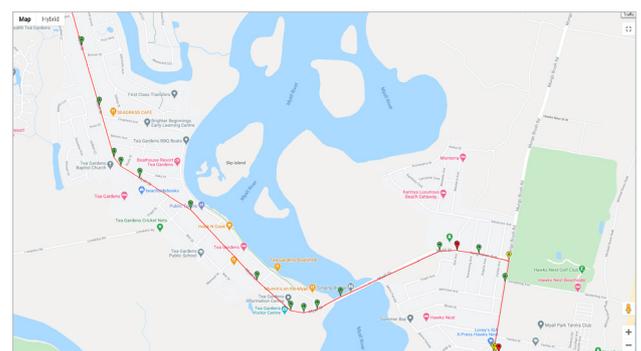
It also provides superior data for on-time running, driver behaviour, and performance management, all from the same device, reducing costs and improving service levels.



## Alert triggers

Alerts can be triggered by various safety parameters, such as

- overspeed in depot or school zone,
- bus in gear and idle for an extended period
- bus enters no-go area
- driving behaviour incident



## In-vehicle devices

IMPULSE Wireless 4G "radios" feature prominent SOS/duress buttons, and connect to on-board duress buttons such as in the driver's footwell



## Reports

The system provides a variety of reports, including specialised reports for the bus industry, which improve visibility and assist in making KPI reporting to TfNSW easier and more evidence-based.

- Depot departures
- SOS alerts and reasons
- On-time running metrics
  - ◆ Actual OTR measurement and evidence
  - ◆ Break down OTR per route or driver to focus on areas for improvement
- PTIPS vs actual OTR
  - ◆ Actual data where PTIPS data is missing (trips, timing points, and evidence)
  - ◆ Actual data where PTIPS backfill/predictions are wrong (trips, timing points, and evidence)
- Driver performance (OTR and comfort/safety)
- Telematics reports (eg. List of excessive idle in gear or other incidents)

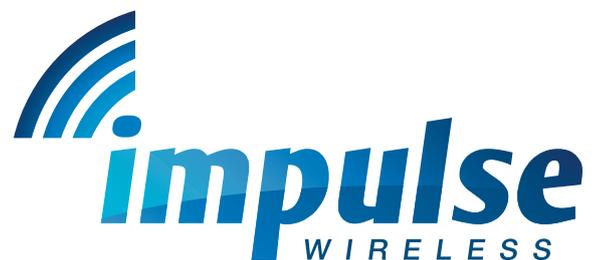


## Secure Two-way communications

PTT provides radio-like communications with far greater flexibility and features, and the coverage of the Telstra 4G network with no infrastructure to maintain.

Improve driver safety, increase operational efficiency, and optimise your communications costs.

- Greater flexibility and features
  - ◆ Group calls, private calls, and the “CallBank” advanced call management system for OCC
  - ◆ Interface with duress buttons and other on-board systems
  - ◆ Support and updates over-the-air, reducing downtime
- Secure, encrypted communications
  - ◆ All IMPULSE Wireless PTT communications are encrypted. Other digital radio systems can easily be monitored, or interfered with, disrupting operations and causing safety hazards
- Unmatched coverage Australia-wide
  - ◆ 99% coverage of populated areas with over 8,800 Telstra 4G sites
- No infrastructure required



Contact us today

 (02) 8705 3778

 [info@impulswireless.com.au](mailto:info@impulswireless.com.au)

[www.impulswireless.com.au](http://www.impulswireless.com.au)