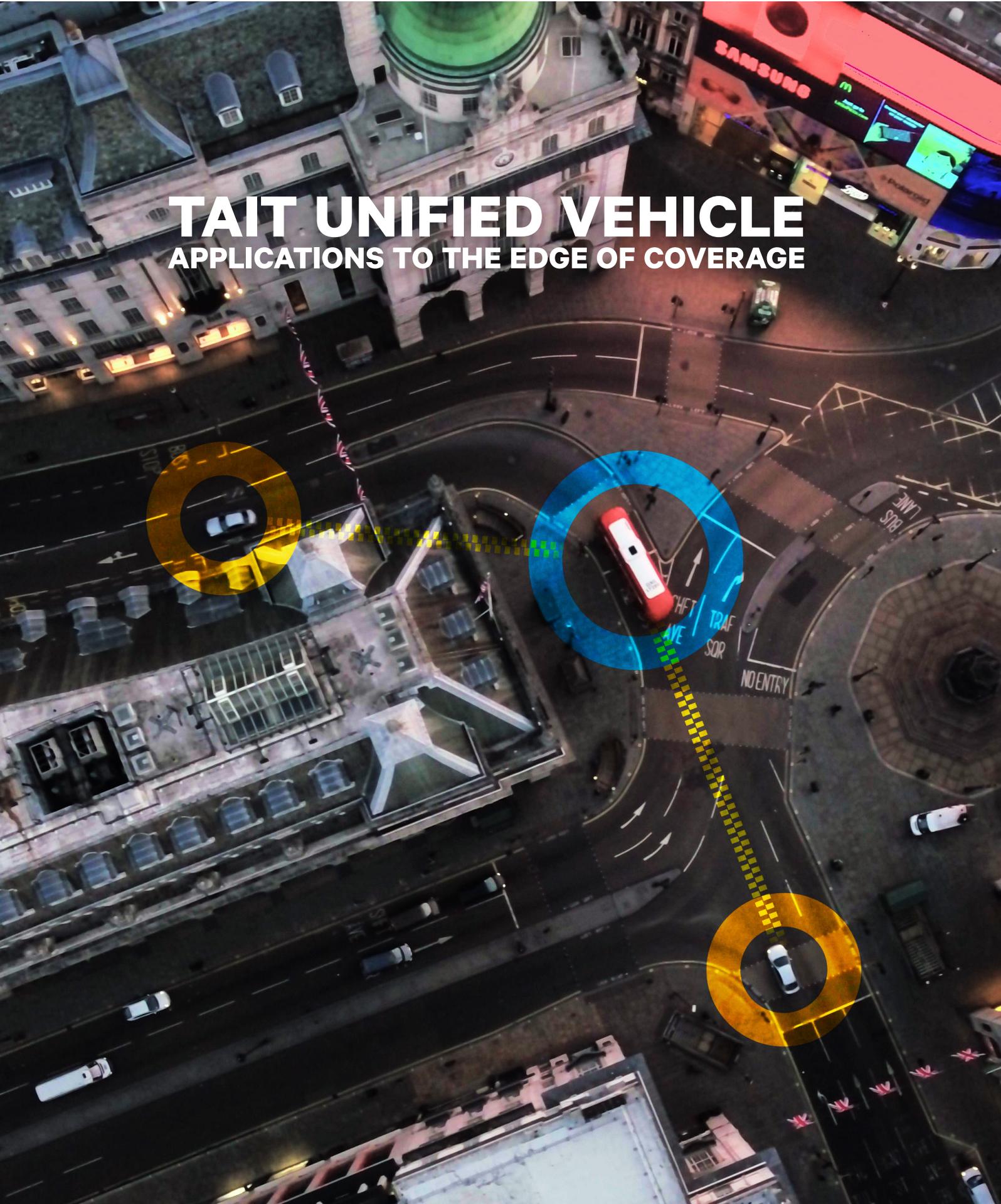
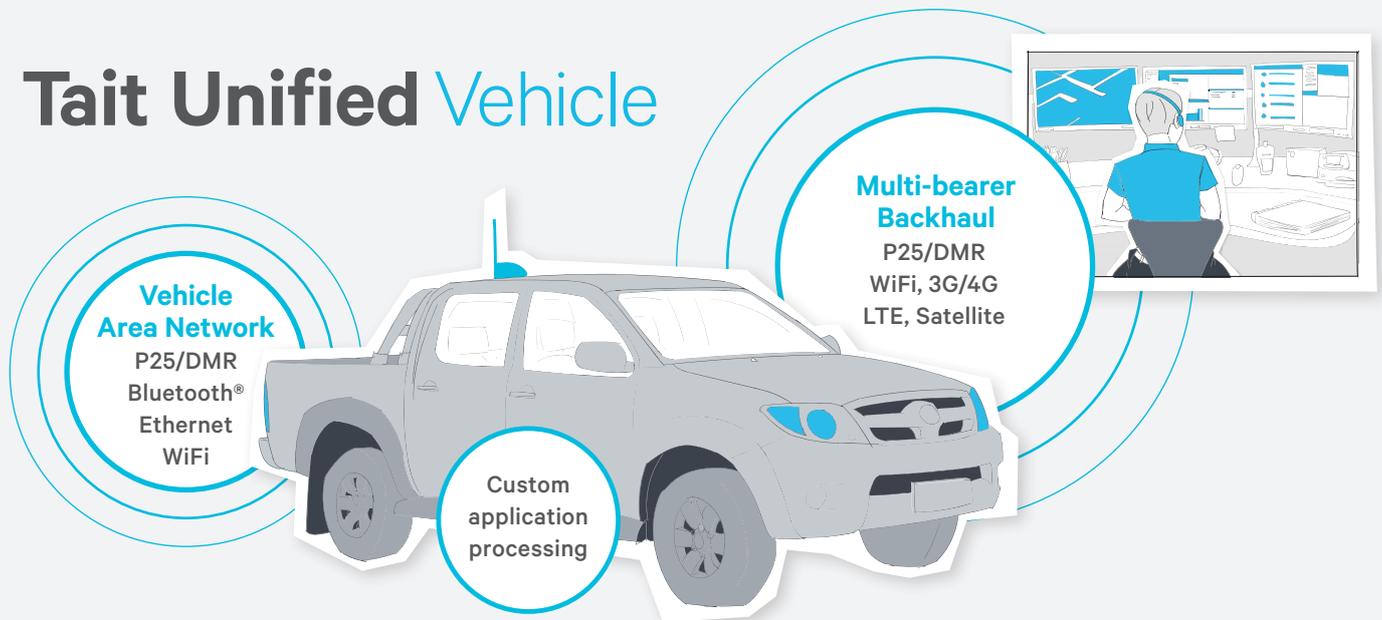


# TAIT UNIFIED VEHICLE

APPLICATIONS TO THE EDGE OF COVERAGE



# Tait Unified Vehicle



## COMPACT. CUSTOMIZED. CONNECTED.

Tait Unified Vehicle offers a flexible application platform and a range of connectivity options, all in one familiar device.

Tait Unified Vehicle is a multi-bearer communications hub, offering a high level of connectivity, with access to LMR, cellular and WiFi. It's the flexible communications core to integrate and customize solutions for your organization's needs.

This single integrated device combines connectivity, application processing, storage and communications in a powerful, easy-to-use open standards platform. Tait Unified Vehicle is made to evolve and protect your investment with the ability to deliver a range of voice and data solutions for current and future needs of users and operators.

Creating a network of networks, including analog and digital radio, LTE, WiFi, Bluetooth® and wired Ethernet, Tait Unified Vehicle becomes the mission critical communications device to ensure vital data and voice calls always get through.

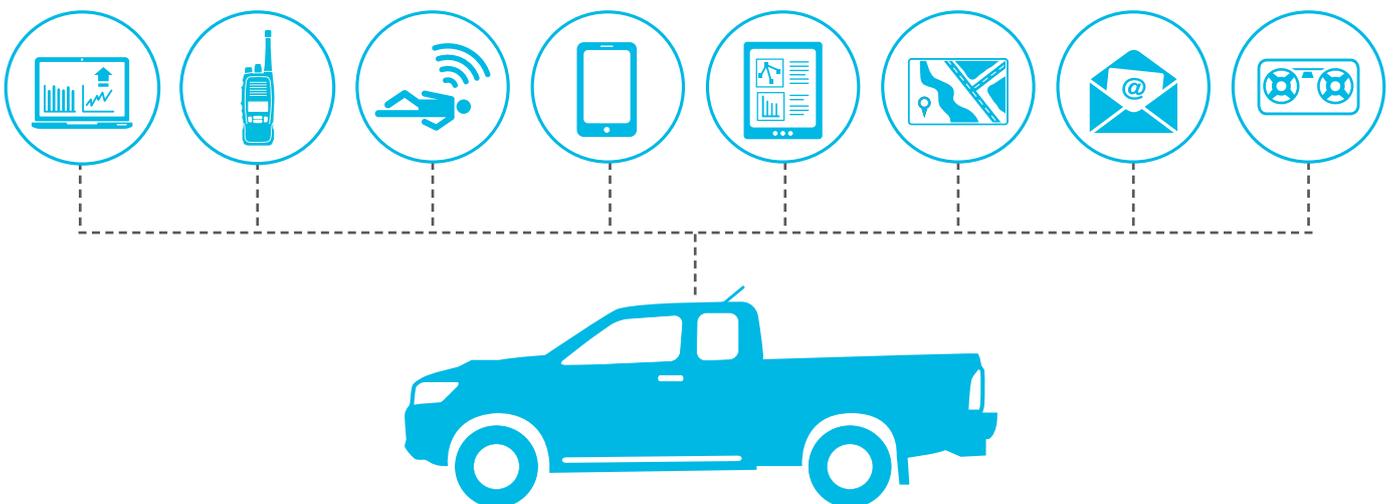
At its heart is a powerful industrial grade processor and the Tait Unified Vehicle AppBuilder platform, unlocking the real power of Tait Unified Vehicle by providing integrators the ability to address your organization's unique communications requirements. Together with AppBuilder, Tait Unified Vehicle maximizes the return from your digital radio network investment.



## GET THE MOST FROM YOUR MOBILE COMMUNICATIONS

The connectivity and computing power of Tait Unified Vehicle and AppBuilder provide a solution perfectly suited to deliver the outcomes your organization needs.

With the freedom and flexibility of the AppBuilder platform, you can customize Tait Unified Vehicle to behave in ways unique to your organizational challenges and requirements, thus giving you an individualized product, without the need for hardware modifications.





## TAIT UNIFIED VEHICLE KEY BENEFITS

Ensures consistent and efficient communications. Network capability that travels with the user, maximising workforce productivity and safety.

- Combines connectivity, application processing and communications
- Ensures users can communicate when they need it most, regardless of the available network connection
- Creates a network of networks around the vehicle
- Turns your vehicle into a mobile communications hub, providing range extension for portable devices
- Extends central capabilities to those in the field

Easy-to-integrate, single device solution, with familiar form factor.

- Single integrated package
- Simple upgrade from mobile radio
- Minimizes compatibility and compliance issues
- Maximizes in-vehicle operational space
- Supports familiar, business-as-usual practices

Flexibility and adaptability. Supports migration and convergence with broadband networks.

- Bridges radio with WiFi and LTE broadband connections
- Takes advantage of both LMR range and broadband data
- Options to grow at your speed
- A platform for unique software solutions

Standard native applications.

- Make radio and emergency calls from your smartphone
- On board voice recording of all calls
- Programming over WiFi

Linux OS features API and SDK for application development.

- Provides a platform to develop unique, individualized user-specific applications
- Flexibility to grow capabilities based on your requirements
- Operating system supports multiple concurrent applications



It's my remote voice access point

It tells me when the intruder alarm is activated

It's my safety net when I'm up a pole or down a hole

It's my school's message centre

It tells me where the bus is

It produces accurate network coverage maps

It's my mobile applications platform

It's my 'black box' voice recorder

It tells me where I've left my equipment

It tells me when one of my trucks needs a service

It's my farm hub

It tells me who is on the truck

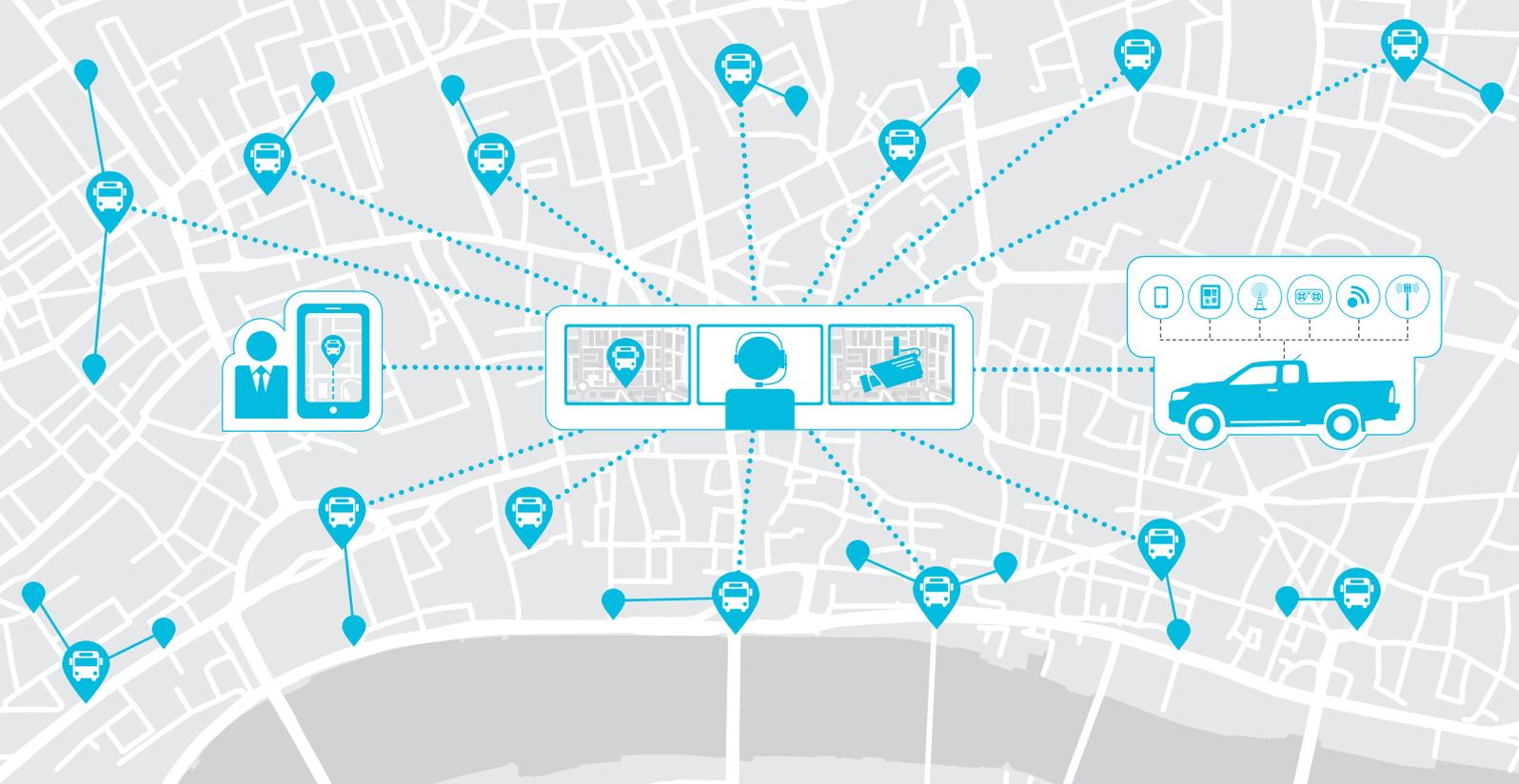
## A UNIQUE COMMUNICATIONS SOLUTION FOR ANY INDUSTRY

Your plans for your radio communications network have the potential to be wide ranging and take you down many roads, so you need a solution that can give you the best possible outcome for what you want to achieve. That's where Tait Unified Vehicle can help.

The power of Tait Unified Vehicle lies in its customizable and configurable open platform, supporting the creation and delivery of a wide range of business applications – including data applications at the edge of connectivity, and providing a broker for Internet of Things (IoT) sensors.

Tait Unified Vehicle creates business and safety critical communications solutions, not only in and around a vehicle, but also for the wider access needs of fixed, remote and in-building networks, to support features such as telemetry, alarm and remote monitoring for network edge or hard-to-reach sites, or extending connectivity for wide area voice and data networks with telephony interconnect.

You have the power to implement completely new applications or services based on your individual requirements. No matter the service, Tait Unified Vehicle will deliver it via the highest quality carrier or communications network available.



## BUILD YOUR OWN BEHAVIOUR

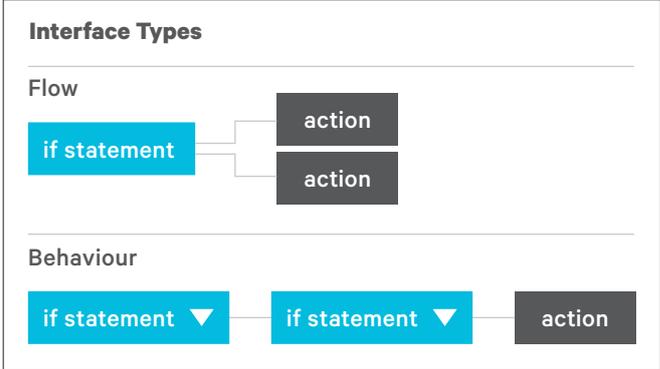
### Tait Unified Vehicle AppBuilder

The defining capability of Tait Unified Vehicle is AppBuilder – the flexible, purpose-designed tool that allows integrators to easily design applications that are able to control radio functions and connectivity.

Direct local connectivity with the AppBuilder processing platform allows many of the available features to be accessed and manipulated to improve the communications experience.

With a wide range of interface types and the memory and operating speed to run multiple applications at the same time, AppBuilder provides a path to develop and create a range of unique outcomes for mobile workforces.

Running on the Tait Unified Vehicle platform and accessed via web UI, AppBuilder offers two distinct interfaces: the advanced ‘Flow’ interface, or the simplified ‘Behaviour’ interface. Solutions created in either of these two interfaces are able to run side-by-side – and once created, they can be downloaded, uploaded, and used on other Tait Unified Vehicle platforms on your network.



### Further Flexibility

Advanced integrators with a need for functionality beyond AppBuilder have access to a Software Development Kit to facilitate more advanced application development.

### Hardware Specifications

- Operating System – Linux
- Connectivity – WiFi 802.11G, 3G, LTE, Bluetooth® 4.0, Ethernet
- Hardware – ARM Cortex A8, 600MHz, 1GB Flash, 512MB DDR3, upgradable SD Memory
- Supported Devices – TM9300, TM9400



## EXTEND RADIO FEATURES BEYOND RADIO COVERAGE

### Tait PTTToX Service

Extend your radio functionality to other networks, including LTE, WiFi, ethernet, and more.

Staying connected in as many places as possible directly impacts the safety of workers and efficiency of operations. Tait PTTToX extends your radio functionality to other networks, which can either be manually selected, automatically chosen based on preferred network availability, or managed by preconfigured Tait GeoFencing triggers. By using multiple bearers for communications, Tait PTTToX enables Tait Unified Vehicle users to expand areas of operations by keeping them connected in more areas.

### Extended Coverage

Stay connected in more places: in areas where a LMR network is not available, Tait PTTToX can extend existing LMR voice and data capabilities to LTE networks and other communications bearers. This creates a network of networks that extends coverage to keep teams in the field safe and connected when their job requires they travel outside your LMR coverage area.

### Increased availability

The bearer-switching capability of PTTToX ensures your voice and data communications are carried via optimal bearers, ensuring minimal down time so you stay connected. The selection of bearer can be manual, automatic based on preferred networks or network availability, or through preconfigured Tait GeoFencing triggers.

### Easy to Use

With Tait PTTToX, users enjoy the exact same PTT experience they are used to on LMR networks; they can communicate with the same talkgroups and individuals regardless of the network type they operate on. PTTToX works on the existing Tait Unified Vehicle mobile radio, so there is no change to normal radio procedure, eliminating the need for specific end-user training or change management.

### Cost-Effective

Tait PTTToX utilizes your existing LMR network and Tait Unified Vehicle unit to provide secure and reliable lines of communication anywhere and anytime, based on your current LMR network. Leveraging your existing infrastructure minimizes the investment needed to expand your critical communications to multiple bearers.



## RECORD EVERY VOICE CALL

### On-Board Voice Recorder

Many public safety organizations and critical infrastructure providers around the world have a requirement to record all voice communications. These recordings can be reviewed and used for training purposes, or serve as evidence that emergency responses are carried out appropriately and lawfully.

### Post-Incident Insights

Off-network, or simplex or direct mode communications are commonly used to communicate outside of radio networks, conserve network resources or manage incident areas. But because these calls are made outside any network, they are usually not recorded.

Tait Unified Vehicle features an On-Board Voice Recorder app that records and stores all voice calls sent and received through Tait Unified Vehicle, regardless of network or bearer, including off-network calls, along with rich metadata such as source, destination, type, duration, bearer-type, and location.

The Voice Recorder offers reliable real-time recording, storage, management and playback options for all your critical communications, and you can rest easy knowing that only authorized users have access to the voice recordings, and no user can delete the recordings.

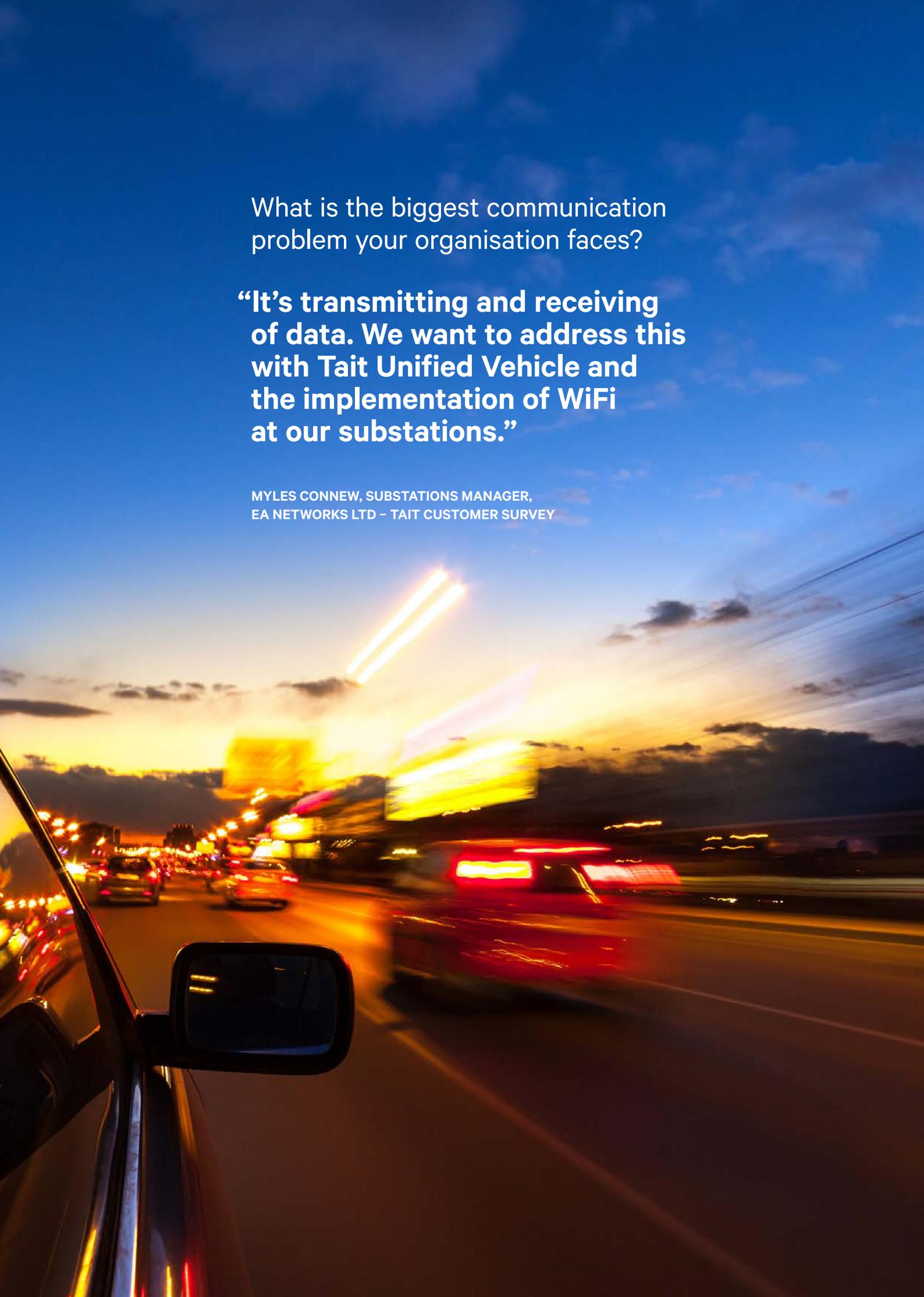
### Secure Access to Extensive Filter and Playback Options

The audited and time-stamped recordings of all network, emergency and off-network recordings can be accessed and played back by smart devices connected to Tait Unified Vehicle via WiFi using a web browser.

### Web Interface Features

- **Filter & Sort Call**  
Find the call you're looking for
- **Rich Metadata**  
View detailed call information
- **Quick Playback**  
Listen to calls in the interface
- **Export to WAV File**  
Download and play audio files
- **View Waveform and ID**  
Easily skip to the relevant over

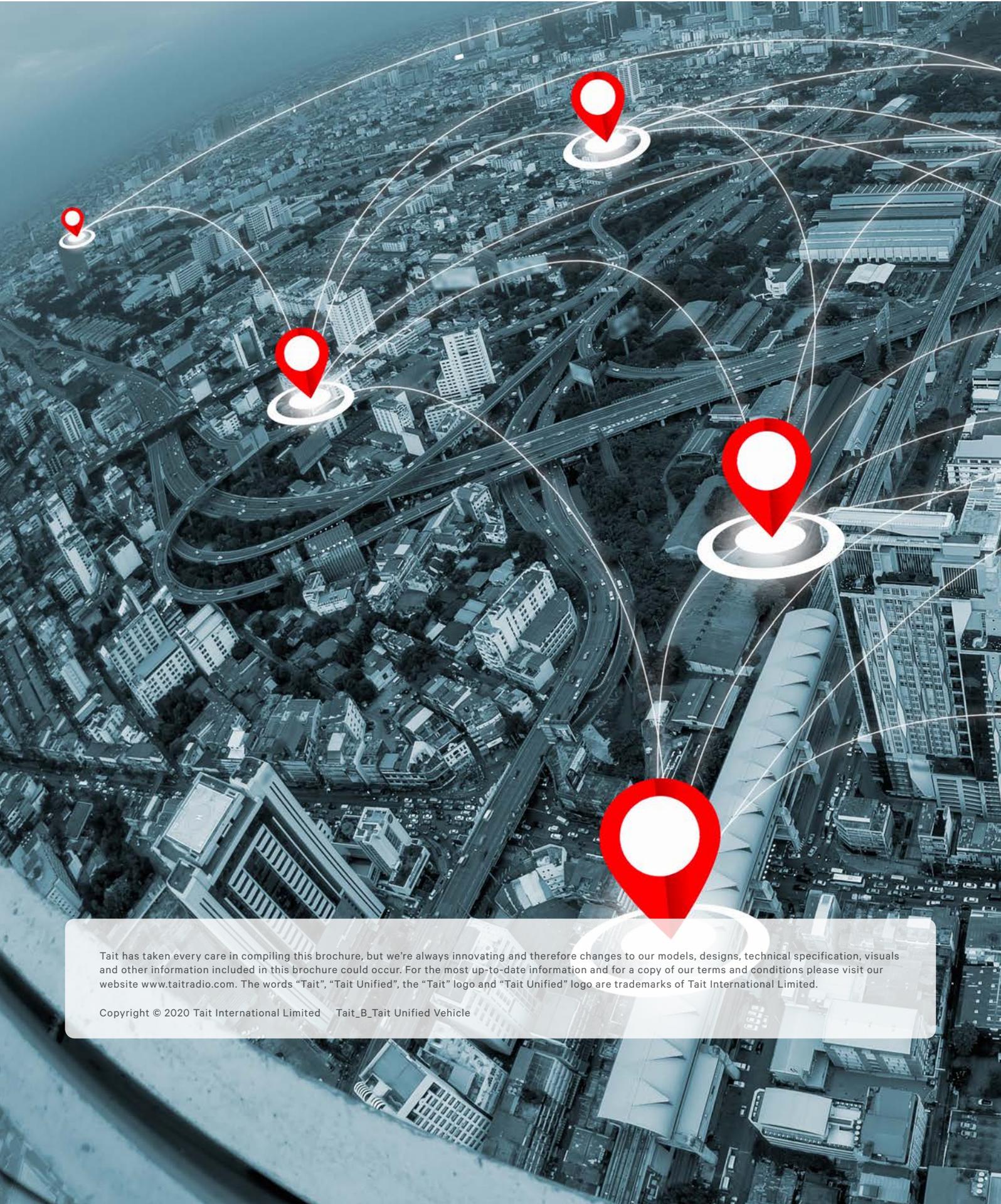
The intuitive interface of the secure web application features waveform representations of calls including radio IDs, enabling you to instantly see when and where different radio users were present on the call. Extensive filter and sort options make it easy to navigate through large numbers of recordings and find the ones you need, and replay or export options allow you to analyse or share any calls of interest.



What is the biggest communication problem your organisation faces?

**“It’s transmitting and receiving of data. We want to address this with Tait Unified Vehicle and the implementation of WiFi at our substations.”**

MYLES CONNEW, SUBSTATIONS MANAGER,  
EA NETWORKS LTD – TAIT CUSTOMER SURVEY



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