

# 4TEL TRACKING MOBILE ASSETS



4Tel provide advanced tracking solutions for mobile assets across large geographic areas.

## TRACK

*Reliable remote tracking of assets*

4Tel provide comprehensive tracking of remote vehicles and assets through the 4Trak™ product suite. 4Trak™ utilises terrestrial radio frequency and satellite-based communication technology to track the location and performance of enabled assets. 4Trak™ is able to track trains and wagons throughout regional areas and cities, along with industry-specific locations such as mines and ports. This capability also extends across rural landscapes and oceans\*.

4Tel have the capability to track-and-trace the location of a train and every instrumented individual wagon in its consist across state and territory borders. 4Trak™ can monitor the speed, location and identity of trains wherever GPS data can be obtained. This data is collected and displayed in a real-time display of train performance, so late trains can be identified and managed.

\*There are some limitations with oceanic GPS tracking.

## MONITOR

*Monitor performance and asset health*

The 4Tel suite of products employ Internet of Things (IoT) capability to monitor and report on any remote IoT enabled infrastructure device or installation. The use of solar-powered IoT devices in regional areas can enable measurement, monitoring and performance parameter alarms despite minimal infrastructure and vast distances.

4Tel products can profoundly improve safety and efficiency through the remote monitoring of assets on and off the track. Critical operational parameters such as power, fuel levels, temperature, security and battery voltage can all be collected, monitored and reported on in real-time.

4Tel software solutions have interoperable interfaces for optimal back-end management, lower initial deployment costs, and maximum usability of available data. 4Tel is hardware agnostic which allows operators to use a combination of compatible legacy devices with new where required.

## MANAGE

*Better informed for better management*

4Tel have created an ecosystem of products to deliver real-time network operations management solutions.

4Tel solutions include trip planning and optimisation, tracking, worksite protection, asset reporting, billing and infrastructure monitoring.

4Tel can also integrate rail, road and marine transport systems with the provision of multi-modal information services.

As 4Tel owns the intellectual property for all these software systems, customisation is available ensuring a cost-effective, comprehensive and versatile solution can be developed, designed for specifically to meet our customers needs.

The data provided through the 4Tel systems, enables management to be better informed to enhance decision making in real-time, conduct analysis on actual reporting information, and to aid future project planning.



Image credit: Bidgee | Wikimedia Commons



## 4Trak™ features

4Trak™ has many advanced features that have already been developed for use within the Australian rail industry, with particular application to the freight and passenger operations of NSW, Australia. 4Trak™ is now also operating internationally.

The user interface is a standard web browser operating on a standard desktop PC environment to minimise user training requirements.

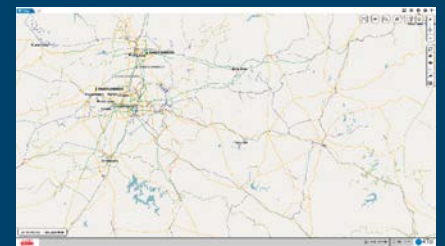
4Trak™ continuously tracks trains and other vehicles by using an embedded, always-on software module to communicate GPS location and important vehicle telemetry data via an installed mobile 3G/4G router modem and satellite communications.

4Trak™ also has the ability to track individual staff if required by an operator. This can be used to help improve occupational health and safety outcomes, increase situational awareness of staff locations, and improve maintenance staff management when away from the vehicle. To protect personal privacy, mobile telephone location tracking must be turned 'ON' by a user; it cannot be remotely activated.

## Cost effective and customisable

4Tel owns the Intellectual Property rights to 4Trak™ software and is able to make modifications as required. This ensures that 4Tel can always supply a versatile, responsive and customisable solution for transport operator's business requirements.

## 4Trak™ interface



Geographic map with data overlay



Simplified schematic map overview



Customisable



Real-time GPS tracking



Operations planning and management



Multiple sources of data collection



Calculates variance of actual time to schedule



Integration of worksite information



Network performance monitoring and reporting



4Trak™ tracks freight trains, light rail vehicles, worksites, wagons, coaches, buses, ferries and passenger trains.

## Our Mission

*Protecting People and Assets Globally*

To provide advanced customer solutions to protect people and assets in real-time control environments

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