

# 4TEL PERMIT-TO-WORK SYSTEM



Improving the efficiency and effectiveness of track maintenance

## 4PTW

4PTW is a modular solution which supports Protection Officers in the management of track work authorities with a simple mobile application.

4PTW provides a complete solution for all safeworking activities in the corridor reducing reliance on administrative controls, voice communications and hand-written authorities.

The 4PTW solution can be tailored specific to rail network needs including control system integration and functionality.



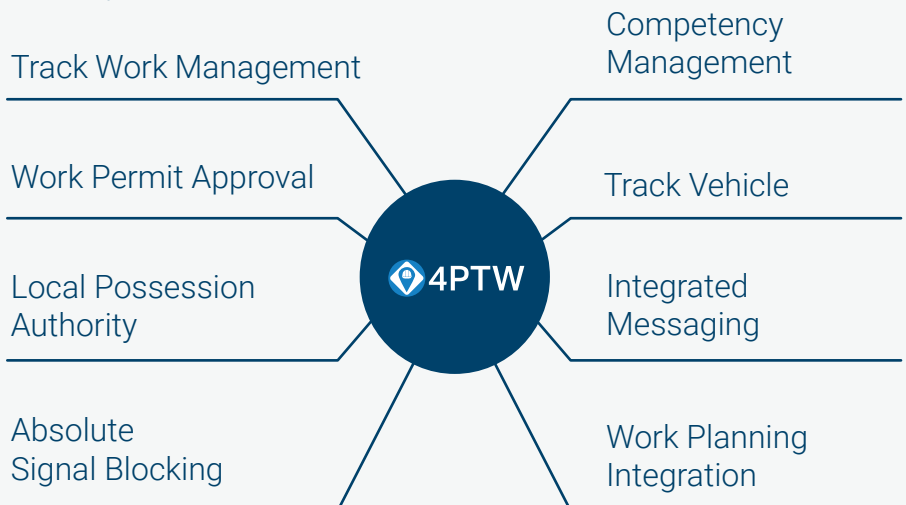
4PTW can be tailored specific to rail network needs

### Control System Integration

The level of integration can be customised based on network needs.

- 1 Data sharing between Protection Officer and Network Control
- 2 Network Control integration with centralised authority interlocking
- 3 On-board enforcement of track vehicles/work trains

### Deployment Modules



# 4TEL PERMIT-TO-WORK SYSTEM







4PTW delivers significant operational benefits by improving the approval process for track work activities.

The solution improves risk control effectiveness by targeting two of the most significant risks associated with trackwork; **location assurance** and **verbal communications**.

4PTW improves the communication workflow between Protection Officers and Network Control through secure data messaging and a dynamic user interface.

Work on track authority blocking remains a function of the train control system while 4PTW displays a visual confirmation of the communication exchanges.

These benefits can be realised using existing technology available in most iOS and Android phones and can be increased based on the level of control system.

-  Replaces previous administrative controls with engineering based solutions
-  Reduces errors in verbal communications
-  Improves efficiencies across all work on track activities
-  Improves location assurance through a dynamic user interface
-  Increases productive time for maintenance staff
-  Dynamic alerts integrated into the Control Centre and Protection Officer application



4PTW has been deployed on more than 6,000 kilometres of rail networks in Australia which has resulted in:

**98%**

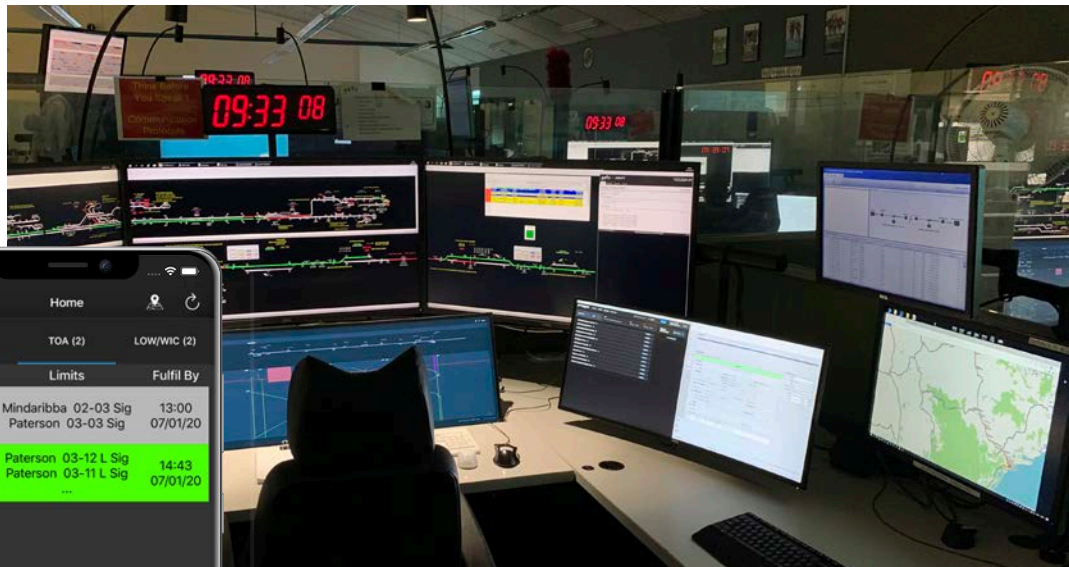
of all track work authorities are issued using 4PTW.

A reduction of **10,000** phone calls per month.

**120,000**

track work authorities issued by 4PTW.

**3,000+** protection officers using 4PTW.



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