

# INNOVATIONS & INTEGRATIONS

## UGL train control systems

### Electronic Train Orders & Worker On Track Authority

Our team is revolutionising the way train orders and track authorities are managed by electronic production, delivery, and management with In-Cabin Equipment (ICE) train radio systems and mobile/ tablet applications. This innovative approach will enhance communication, improve safety, and streamline operations.

The systems use GPS and an authority engine with customisable network rules to safely propose, validate and issue authorities to train drivers and work crews alike. Location and status are visible to the controller and Electronic Train Graph (ETG) in real-time. This innovation ensures precise train tracking, enhances operational efficiency, and significantly improves safety by reducing the risk of human error.

### Electronic Train Graph

Our team is excited to announce plans for integrating our ETG with timetable planning software. This integration will enable us to leverage powerful scheduling capabilities to deliver our integrated Train Control System with a complete ETG, further enhancing our ability to efficiently manage train operations.

Join us as we continue to innovate and integrate new technologies into our train control systems. Together, we can shape the future of railway operations.

### Automatic Route Setting

Our Automatic Route Setting (ARS) technology is set to transform how we manage train routes. By automatically setting the most efficient route based on real-time conditions, our ARS reduces delays and improves overall service reliability.

The integration of our Train Control System, ETG alongside planning software form the pillars of our ARS. By receiving real-time, dynamic timetable information, our ARS will be able to automatically adjust and resolve conflicts in real-time based on the most up-to-date schedule information.

