

RTWL

REAL TIME WORKFORCE LOCATOR

Schauenburg's unique Real Time Workforce Locator (RTWL) solution is specifically designed for underground mining environments. The solution provides invaluable insights to promote safety and productivity optimisation efforts.

With real-time visibility on pedestrians, fixed and mobile assets, the RTWL solution enables proactive safety management by instantly identifying personnel locations, movement patterns, and potential risk zones across the operation.

As a core building block of Schauenburg's Smart Mine solution, RTWL provides the digital foundation to integrate people, assets and systems into a single, intelligent operational ecosystem.



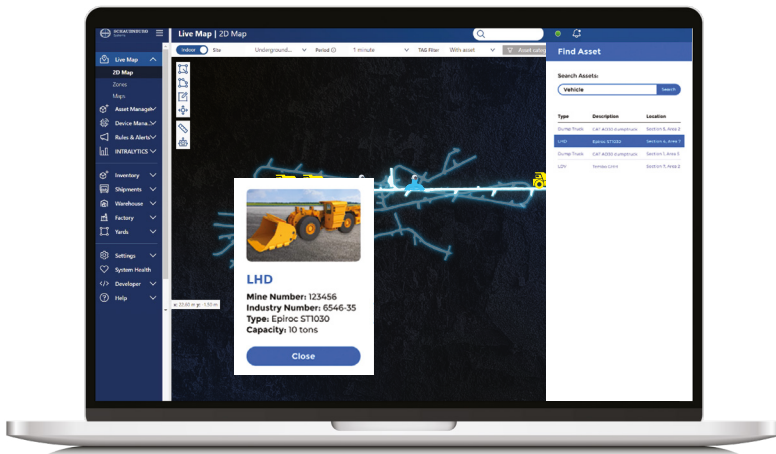
“Real-time visibility that keeps you informed when every second counts.”

The RTWL solution integrates seamlessly with existing Schauenburg CPS solutions and no additional hardware is required. Standalone tag options are also available for independent rollouts.



REAL-TIME VISIBILITY

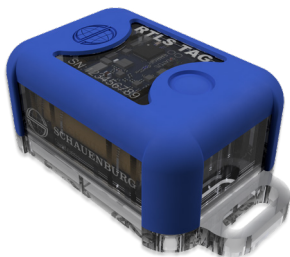
RTWL enables workforce visibility by displaying and recording real-time and historical location data for underground personnel and assets. This supports compliance reporting, shift verification, and post-incident investigations by providing a reliable digital record of underground activity.



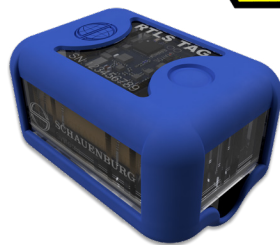
FEATURES

Instantly identify potential bottlenecks and process inefficiencies. The RTWL solution will also significantly reduce search times in the event of an incident.

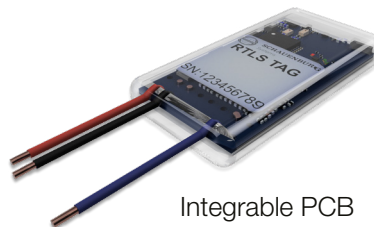
- High-Precision Tracking: Up to 1 m location accuracy with 250 m range
- Intrinsically Safe: Ex ia IIC T4 & Ex ia I certified for hazardous underground use
- Long-Life Battery Technology: The Standalone tags utilizes an ER18505 Lithium Thionyl Chloride (Li-SOCl₂) 3.2 Ah battery, optimised for low-power RTWL operation, delivering extended service life and reduced battery replacement cycles.
- IP67-Rated Standalone Tag: Fully sealed, dust-tight and water-resistant design engineered to withstand wet, dirty and demanding underground conditions.
- Accuracy of the system is 1 to 4 meters depending on line of sight and location anchors deployed
- Detection range 100 meters
- Alert zones
 - NO GO areas with immediate control room alerts
 - Blast clearance reports
 - Danger areas
 - Safe areas
 - Customisable zones and rule sets



Asset mount tag



Cap Lamp cable mount tag



Integrable PCB Cap Lamp tag

The system provides analytics:

- Congested areas – Heat map
 - Vehicle and Pedestrian
- Reports on infringements
- Reports for NO GO areas entered

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