



PROSE possesses know-how in system design and testing of railway signalling solutions in line with the latest relevant safety standards, including European Committee for Electrotechnical Standardisation (CENELEC) 50126, 50128 and 50129. We can evaluate the risks and costs of the localisation of standardised products.

Our professionals can assist you either by working with your team to improve existing processes or by assuming responsibility for complete design and testing processes and by delivering end-to-end solutions. This makes your own critical resources available for other tasks. PROSE can perform its testing of signalling systems either at our own laboratory or at a customer site.



- On-board integration of signalling systems
- System design for ATP, ATC and ETCS
- System testing for ATP, ATC and ETCS
- System testing for CBTC, interlocking systems and CTC
- Simulator design for signalling systems

Contact us

## On-board integration of signalling systems

We use advanced CAD applications for electrical systems to deliver highly efficient and modular solutions. We perform complex and custom on-board integration of signalling systems by providing functional electrical diagrams, tables showing wiring, connectors and components, bills of materials, installation documentation, and functional and electrical test and commissioning procedures.

## System design for ATP, ATC and ETCS

Based on our knowledge of automatic train protection (ATP), automatic train control (ATC) and the European Train Control System (ETCS), we are your trusted partner in developing and executing system-design processes, from the definition and management of requirements through to independent safety validation. By using advanced requirement management tools like IBM's Rational DOORS, PROSE can fulfil your specific requirements throughout a project's life cycle in line with the standards of CENELEC.

## System testing for ATP, ATC and ETCS

You can rely on our experience in the use of dedicated simulation tools for ATP, ATC and ETCS testing and trust us to assist you in defining advanced test suites to verify and validate new and innovative on-board signalling sub-systems.

## System testing for CBTC, interlocking systems and CTC

Our engineers master the CENELEC verification and validation processes and can therefore design and implement system testing processes for communications-based train control (CBTC), railway interlocking systems and centralised traffic control (CTC) systems in close daily collaboration with your best people. This process-oriented approach ensures high reusability of the test suite, high performance and high flexibility in test execution.

## Simulator design for signalling systems

When it comes to simulator design for signalling systems, PROSE exploits the full potential of the latest technologies. Our engineers can design customised, turnkey solutions for your hardware and software for your test bench.