



SATvalid

Relief for ETCS Acceptance Testers

Automated Collection and Analysis of Balise Line Properties

Solution

SATvalid is a solution designed to support ETCS acceptance testing, with the goal of making selected steps in the ETCS balise acceptance process more efficient, traceable, and resource-efficient. Therefore, the system combines the automated detection of balises on the track with system-supported evaluation and processing of the test results for the acceptance inspector.

Automated capture of:

- Distances between balises and reference points
- Distances between balises
- Balises telegrams
- Balises identification signs

Automated Data Analysis:

- Target-Actual comparison between designed data and measured data
- Structured data report for ETCS acceptance inspectors

Methodology

To collect the relevant balise information, an ETCS-capable vehicle is equipped with special measurement technology and uses it to record data along the route during regular operation. Based on this, the data required for ETCS acceptance testing is compiled, evaluated, and made available for further testing.

Benefits

- Reduction in overall project duration
- Significant reduction in the workload for testing experts
- Minimisation of costly track closures
- Elimination of time-consuming applications for time slots
- Promotion of standardisation and traceability of tests
- Increased efficiency and acceleration of ETCS acceptance testing

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