



Tag 4 Trace – trace components and rolling stock using **RFID tags**

Tag 4 Trace is a new product being developed by the Full Service team at DB Fahrzeuginstandhaltung that allows you to tag and trace rolling stock and components in accordance with the international GS1 identification standard. Tag 4 Trace uses RFID (radio frequency identification) technology, which uses electromagnetic waves to transmit information.



By identifying components in accordance with the global GS1 standard, you can reduce the cost and expense associated with current manufacturer-specific numbering systems and inadequate serialisation.

How Tag 4 Trace works

RFID tags are applied to components and rolling stock. The tags are read by scanners in the maintenance depot and the stored data is entered in a database.



Features

- The 18-digit GS1 number can be recorded visually – by reading the data matrix or the RFID chip.
- Scanners are used to read the RFID chip and the data matrix on the RFID tag.
- First phase: data is recorded by a scanner (development complete).
- Second phase: data is recorded by means of gates when a vehicle or component enters or leaves the maintenance depot (the depot at Offenburg is already equipped with this type of gate; gates can be requested for other depots).
- Component data is recorded based on the reference structure of the vehicles (installation location and position).
- Tag 4 Trace is tailor-made to meet customer needs.

Advantages

- RFID tags attached to components and rolling stock are used to store the 18-digit GS1 number or 12-digit vehicle identification number.

- Components can be traced, and their history analysed (which allows you to draw conclusions regarding their service life and identify deficiencies in vehicles).
- The automated transfer of data to the database via scanners and the app prevents the errors that can occur when data is entered into logs and transferred to a database manually.
- Data is transferred to customers via the download platform of the DB Fahrzeuginstandhaltung customer portal.
- The procedure complies with future ECM directives in terms of accountability for the maintenance of rolling stock (ECM = entity in charge of maintenance).
- It offers potential for process optimisation and eliminates the need to complete logs.
- Information about the quality and costs of components is readily available.
- It requires minimal effort: RFID tags can be applied quickly and easily the next time the vehicle is at the depot.

Contact

DB Fahrzeuginstandhaltung GmbH
Weilburger Straße 22
60326 Frankfurt am Main
GERMANY

www.db-fzi.com
sales-fzi@deutschebahn.com

Questions about the Tag 4 Trace product
fullservice@deutschebahn.com

© Photos: DB AG

Subject to alterations.
No liability for errors or omissions

Last updated: September 2018

