



Obsolescence management – we ensure the **availability** of your **vehicles** and **spare parts**

The length of time that replacement parts are available is often shorter than the life of the rail vehicles they belong to. The Obsolescence management team at DB Fahrzeuginstandhaltung not only procures obsolete components for you but also finds alternative replacements or manufactures replica parts, which is possible thanks to 3D printing, among other things. We extend the life cycle of your rolling stock.

Potential problems

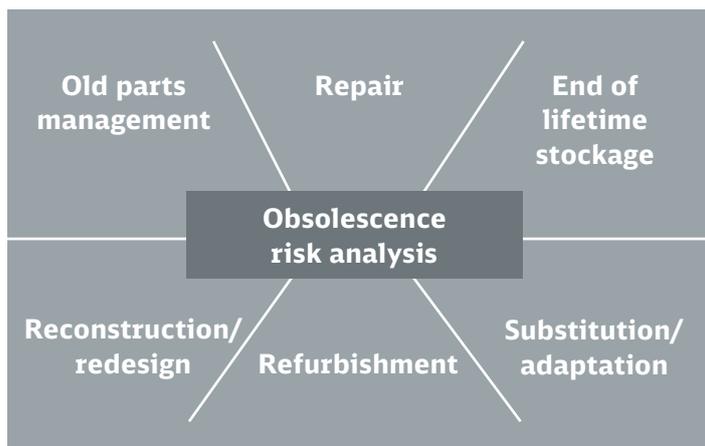
The cycles in which rail-related components are being developed and evolved are becoming ever shorter. This means increasingly that older components are being discontinued by suppliers. Not having access to replacement parts can have serious consequences for vehicle keepers and operators, such as unnecessarily long idle times, which can lead to fines being imposed, for example.

What we offer

Obsolescence management at DB Fahrzeuginstandhaltung helps customers to prevent costly downtimes. Alongside procuring and manufacturing components, such as control electronics and traction parts or mechanical components, we also find solutions for providing alternative replacements. This allows us to replace electronic and mechanical components and elements fitted in your vehicle interiors as quickly as possible.

Obsolescence risk analysis

Using obsolescence risk analysis, we can identify what needs to be undertaken and build sustainable solutions around this information. Obsolescence risk analysis utilises data that has been collected, analyses of the maintenance status and assessments of the degree of ageing. We use this data to plan a finely tuned strategy, for example, if the redesign of rolling stock requires the substitution of the entire system or in order to ensure the long-term availability of obsolete or essential components.



As well as **repairing** components, Obsolescence management offers other services – from securing all-time stocks to managing old parts.

End of lifetime stockage

We can store the parts that are required until the end of a rail vehicle's life cycle, ensuring availability for you. Our storage facilities, which include dry cabinets, nitrogen cabinets, special packaging and special containers, can accommodate almost any type of component.

Substitution/adaption

Substitution is the replacement of components with equivalent parts. In the case of an adaptation, we replace the discontinued component with a part that is not directly equivalent. We determine the suitability of the substitution or adaptation solution by conducting a range of tests.

Refurbishment

Wear and dirt have a detrimental effect on how components function and in the worst-case scenario can lead to the total failure of a system. In order to prevent this, we clean components using professional methods, refurbish them or replace them with reconditioned or new parts.

Reconstruction/redesign

We reconstruct and redesign parts based on original specifications and standards where no substitute is available or where reconstruction is the more economical solution. In certain circumstances, 3D printing provides an affordable solution, for instance where only small quantities need to be produced or for parts made from synthetics, aluminium or steel that have long delivery times. To do this, we rely on the expertise and capacities of our cross-sector Mobility goes Additive network.

Old parts management

We take reclaimed parts – often from scrapped vehicles – and recondition them so that they can be used again. As a result of our many years of experience refurbishing old parts, we also maintain a stocked supply of components from older vehicles.

Benefits for you

The discontinuation of components by equipment manufacturers no longer poses a problem for you. You can be certain that our Obsolescence management team will reduce the idle time required for your vehicles and thereby also minimise your cost risk. You will no longer have to store parts yourself. We will provide you with solutions even in difficult cases and where the vehicles are very old. You therefore benefit in many ways from DB Fahrzeuginstandhaltung's obsolescence management services.

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Last updated: February 2018