



**InnoTrans 2018**  
18-21 SEPTEMBER  
BERLIN



**INNOVATIONS  
AND TRENDS**

## **Vacuum toilet system with condition based maintenance**



Vacuum toilet system by Dowaldwerke

Dowaldwerke introduces a vacuum toilet system for rail vehicles with condition based maintenance. While conventional systems have to undergo a service according to a fixed schedule as defined by the manufacturer, maintenance for the new system is carried out according to the real condition of critical components. This system detects the condition of system components by analysing the pressure curve appearing during a special flushing procedure for diagnosis. This diagnostic flushing triggers the relevant components in a specific way and is independent from the normal flushing procedure. By evaluating the pressure curve, the control software detects the optimum point in time for a service and recommends a service in advance of this point of time. In case the service staff follows this recommendation, service is only performed if required regarding to the effective condition of the system. This is the basic difference compared to a conventional toilet system, which has to go through service according to a fixed maintenance schedule.

**Dowaldwerke GmbH**  
**Germany - Dippoldiswalde**  
**1.1, 328**

Contact: Dirk Schröter

Phone: +49 3504 64680

[dowaldwerke@dowaldwerke.de](mailto:dowaldwerke@dowaldwerke.de)

[www.dowaldwerke.de](http://www.dowaldwerke.de)

Subject to further change