



InnoTrans 2018
18-21 SEPTEMBER
BERLIN



**INNOVATIONS
AND TRENDS**



Train virtual coupling



Virtual coupling allows trains to run closer together without any physical connection

CAF is presenting a first implementation of the Virtual Coupling mechanism using two fully operational rail tramways. Under the name "Connected Trams" this world premiere showcase involves the first deployment of the new TCMS wireless train backbone to control functions like propulsion, braking, doors, lights or passenger information. The control of distance between vehicles is achieved through sensor data fusion and transmitted information between both trams, together with the use of tram dynamic models. This Shift2Rail initiative development will serve as the foundation for the incremental design and implementation of a whole system-wide Virtual Coupling based operation. The demonstration will be taking place on September 18th at 12:00pm at the Shift2Rail stand (Hall 4.2, Booth 203).

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Subject to further change