

## **ETCS Hybrid Level 3**

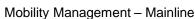
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#### **Thameslink** First commercial ATO application in mainline rail services with ETCS

#### World's first commercial ATO application in mainline rail services in combination with ETCS

- Delivery of rolling stock, ETCS and ATO
- Increased capacity on existing infrastructure (24 trains per hour, track and direction on the north-south inner-city link of London)
- Capacity objectives only achievable with ATO
- ATO over ETCS in the core area (communication via Packet 44) with ETCS Level 2 Baseline 3
- Start of passenger services with ATO in May 2018







**ATO/ETCS Hybrid level 3 System. Thameslink Project** 

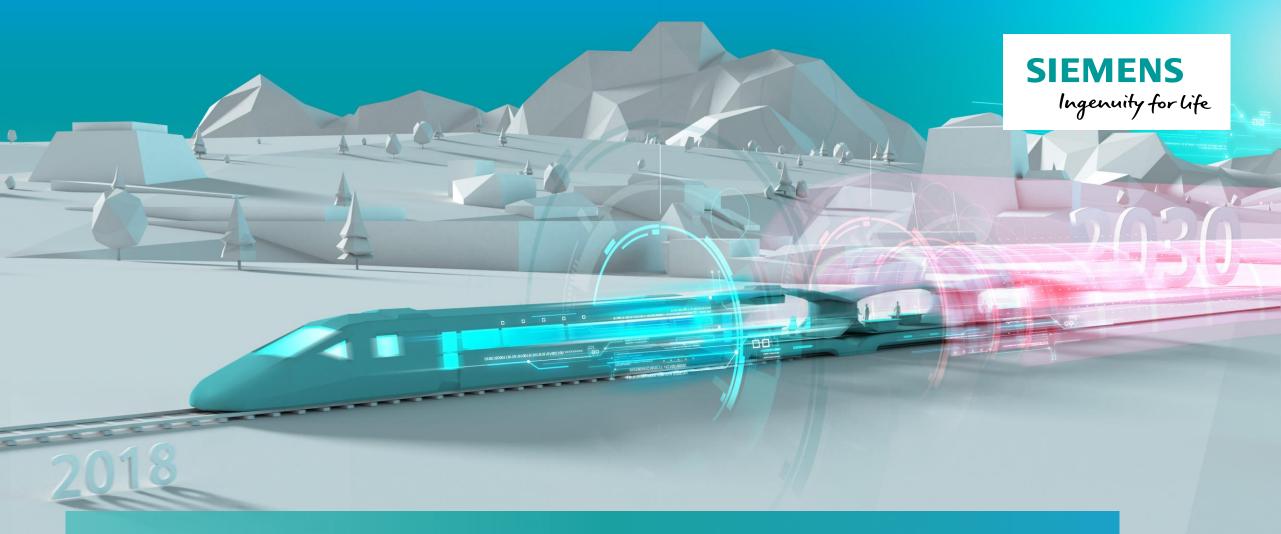


# ATO / ETCS Hybrid Level 3 Test at the ETCS National Integration Facility

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Mobility Management - Mainline Rail Automation



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