

How the next release of the TSI can facilitate CCS evolution

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The Game Changer CRs

- ATO Grade of Automation (GoA) 1/2, i.e. with driver still present.
- FRMCS:
 - introduction of FRMCS
 - interfaces (FIS, FFFIS) between ETCS and FRMCS
- Braking curve improvements:
 - conversion model
 - low adhesion
 - gradients under the train
 - target speed extension
- ETCS Level 3 related improvements
 - always connected, always position report
 - position report when safe rear end passes specific location
- Enhanced vehicle localisation function (functional description still in progress)

Additional enhancements

- Improved supervision of shunting movements
 - enhancement of ETCS SH mode
 - supervision with an MA of movements with cab not at front of train (functional description still in progress)
- More extensive diagnostics reporting from train to track
- DMI ergonomic optimisations

- Several other enhancements still in discussion