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# Technical Direction – TD 00008:2025

Issue date: 23 April 2025

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## **Title: Update to ETCS baseline – Amendment to TS 05265 (T HR SC 1610 SP, version 1.0) *ETCS Trackside Equipment***

This technical direction is issued by the Asset Management Branch (AMB) as an update to TS 05265 *ETCS Trackside Equipment – European train control system baseline*.

The update includes amendments to section 3 and section 5 to update the ETCS baseline for ETCS trackside equipment and align with other TfNSW ETCS standards.

## **1 Background**

With the deployment of the digital systems project, updated ETCS baselines are implemented to support ETCS level 2. TfNSW ETCS standards such as TS 05332 – *Rollingstock Signalling interface*, TS 05266 – *ETCS Onboard Equipment* and TS 05333.31 *Signalling design principal – ETCS Level 1* are currently being updated to support ETCS level 2. The purpose of updating the baseline identified in TS 05265 *ETCS Trackside Equipment* is to remove contradicting information between the ETCS documents, thus reducing the risk of confusion amongst readers and create consistency between the roll out of ETCS subsystems.

## 2 Amendment to TS 05265

The sections in TS 05265 are to be amended as follows:

### Section 3 Reference documents

The reference document identified under European Union Commission Decision is replaced by the following two documents:

European Commission, 2016, Commission Regulation (EU) 2016/919 of 27 May 2016 on the technical specification for interoperability relating to the 'control-command and signalling' subsystems of the rail system in the European Union using set of specifications 3 (ETCS Baseline 3 Release 2 (R2) and GSM-R baseline 1).

European Railway Agency, Opinion ERA/OPI/2020-2 of the European Union Agency for Railways to the European Commission regarding CCS TSI Error Corrections.

### Section 5 European train control system baseline

**Delete the contents of Section 5 in their entirety and replace with the following:**

All ETCS trackside equipment shall comply with the European Union 'technical specification for interoperability (TSI) relating to the control-command and signalling subsystems (CCS) with amendments and additional requirements defined in this specification.

The baseline for ETCS trackside equipment deployed in ETCS Level 1 areas shall comply at minimum with European Commission Regulation 2016/919 using set of specifications 2 (ETCS baseline 3 Maintenance Release 1 and GSM-R baseline 1). This is commonly known as ETCS B3 MR1.

For ETCS trackside equipment deployed in level 2 areas, the baseline shall comply at minimum with European Commission Decision 2016/919 in accordance with the set of specifications 3 (ETCS Baseline 3 Release 2 and GSM-R Baseline 1). This includes the error corrections identified in the ERA technical opinion (ERA/OPI/2020-2 and others that may be issued) mentioned in Article 10 of this CCS TSI 2016/919. This is commonly known as ETCS B3 R2.

Note: Later baselines can be accepted based on assurance of compatibility with the current and proposed trackside and onboard installations.

The application date for TfNSW shall be the issued date of this document instead of the dates specified in the European Union Commission Decision.

The associated 'informative specifications' for the CCS TSI Application Guide as published on the European Union Agency for Railways website should be used.

Suppliers of ETCS trackside equipment shall identify any non-compliances for their equipment for evaluation as part of type approval.

This document includes amendments and additions for trackside requirements that shall be incorporated in the ETCS equipment fitted to the trackside infrastructure. Amendments to the ETCS baseline are only made by TfNSW standards and specifications that specifically nominate the requirements as amending the TfNSW implementation of ETCS baseline.

TS 05332 (T HR SC 00006 ST Version 2) also defines amendments and additions related to the interface between rolling stock and trackside.

## Authorisation:

<b>Approved by</b>	Director Signals and Control Systems Engineering Asset Management Planning, Integration and Passenger
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