



Transport
Asset Standards
Authority

Standards update, rail systems strategy recommendations and future works

Peter McGregor, Lead Engineer Signals and Control Systems



New and revised standards

T HR SC 00006 ST **Rolling Stock Signalling Interface Requirements 2.0** 07/07/2017

T HR SC 01610 SP **ETCS Trackside Equipment 1.0** 29/03/2017

T HR SC 01650 SP **ETCS Onboard Equipment 1.0** 10/09/2015

T HR SC 00719 SP **Computer-Based Interlocking Equipment 1.0** 29/03/2017

T HR SC 01000 SP **Common Signals and Control Systems Equipment Requirements 1.0**
29/03/2017

ETCS Level 1 Design Standards

Reference number	Title	Version	Issue date
T HR SC 00003 ST	Circuit Design Standard – ETCS Level 1 Interface Circuits	1.0	07/07/2017
SG0602001	ASA Standard Drawings – ETCS Level 1 Interface Circuits	1.0	07/07/2017
T HR SC 10031 ST	Signalling Design Principle – ETCS Level 1	1.0	07/07/2017

ESG 100.31

AUTOMATIC TRAIN PROTECTION

Version 1.4

Issued – 7 June 2013

Document control

Version	Date	Summary of change
1.0	December 2011	First issue
1.1	7 February 2012	Updates to Traceability Analysis of the ETCS RailCorp Requirement Specifications (Release 4)
1.2	9 April 2012	31.17 – amend "normal" direction to read "slow" and "up" to clarify the direction.
1.3	14 September 2012	Updates to align with Design Guideline for Supervised Locations (v1.0); Update to 31.17.6.2.1.1 Overall Control and 31.18.4.1 Un-signalised Direction
1.4	7 June 2013	Updates to an independent Traceability Analysis against the RailCorp ETCS Requirement Specifications.

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T HR SC 10031 ST

Standard

Signalling Design Principle – ETCS Level 1

Version 1.0
Issued date: 07 July 2017

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Engineering Specification
Signals
Circuit Design Standards

SDG 003

CIRCUIT DESIGN STANDARDS ATP

Version 1.3
Issued 21 August 2012

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Engineering Specification



T HR SC 00003 ST

Standard

Circuit Design Standard – ETCS Level 1 Interface Circuits

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ASA STANDARD DRAWINGS

ETCS LEVEL 1 INTERFACE CIRCUITS

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New and revised standards

T HR SC 01251 SP **Signalling Control Systems Interface Requirements 4.0**
24/03/2017

T HR SC 01256 ST **Telecommunication Transmission Systems for Signalling and Control Systems 1.0** 13/10/2016

T HR SC 01257 SP **Traffic Management System 1.0** 26/07/2017

T HR SC 02000 ST **Mandatory Requirements for Signalling Safeworking Procedures 3.0** 30/09/2016

T LR SC 08001 ST **Rail Signalling Principles for Light Rail Networks 1.0**
17/05/2017

Future Directions

- Network automation – TMS
 - Cyber security
 - Axle counters
 - ETCS Lv2, Lv3, ATO
 - ETCS Lv2 principles for IXL
 - Freight trains and DMU operating over ETCS
 - Communications (Fixed and Wireless)
 - Data management/digital transport
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