

ISO/TR 25100:2012-09 (E)

Intelligent transport systems - Systems architecture - Harmonization of ITS data concepts

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Terms, definitions and abbreviated terms	1
2.1	Terms and definitions	1
2.2	Abbreviated terms	2
3	Background issues	4
3.1	Proprietary data concepts	4
3.2	Semantic differences	4
3.3	Structural differences	4
3.4	Difficulty of application of existing data concepts	5
3.5	Report of investigation	5
4	Harmonisation - General discussion	5
4.1	Introduction to harmonisation	5
4.2	Illustration of the need for harmonisation	5
4.3	Challenges in harmonisation	6
4.4	Harmonisation processes	7
4.5	Steps in the harmonisation process	10
4.6	Other work related to harmonisation	11
5	Current approaches to harmonisation in ITS international standards	11
5.1	Four approaches	11
5.2	ISO 14817 harmonisation	12
5.3	ISO/IEC 20943 approach	13
5.4	TBG17 Business process & core components	14
5.5	Highways Agency (UK) - Core Components Analysis of the ITS Metadata Registry	16
6	Harmonisation approach for designers of data specifications	24
6.1	Where there are relevant core components in a metadata registry or library	24
6.2	Where there is no relevant registry using core components	25
7	Harmonisation as a means to improve efficiency	25
8	Conclusions and recommendations	26
Annex A (informative) Conventions for precise core component mappings		28
Bibliography		33