

ISO/TR 17427-2:2015-11 (E)

Intelligent transport systems - Cooperative ITS - Part 2: Framework overview

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Terms and definitions	1
3	Abbreviated terms	4
4	Overview of components of a C-ITS enabled system	4
4.1	Specific service features characterizing C-ITS	4
4.2	Actors involved in C-ITS service provision	6
5	Framework overview for C-ITS enabled systems	9
5.1	Communications	9
5.2	Vehicle systems	10
5.2.1	General	10
5.2.2	Vehicle gateway	11
5.2.3	In-vehicle control	12
5.2.4	Sensors and data collectors	12
5.2.5	Data storage and access	12
5.3	Roadside systems	13
5.3.1	Roadside host	13
5.3.2	Roadside gateway	13
5.3.3	Access router	13
5.3.4	ITS border router	13
5.4	'Core' systems	13
5.4.1	Core system overview	13
5.4.2	Single core systems	14
5.4.3	Multiple core systems	15
5.4.4	Other "Central" systems	15
5.4.5	Core system functions	15
5.4.6	Control/Service centre	15
5.4.7	Home agent	16
5.4.8	Authority/Jurisdiction databases	16
5.5	Personal Systems	16
5.5.1	Personal mobile	16
5.5.2	Personal SatNav	16
5.5.3	Mobility assistance	16
5.5.4	Intermodal connection/display	17
6	Summary of Framework overview	17
6.1	General	17
6.2	Cooperative Vehicle and Highway Systems safety applications	18
6.3	Vehicle to infrastructure Communications for Safety	18
6.4	Real-Time Data Capture and Management	18
6.4.1	Dynamic Mobility Applications	18
6.5	Cooperative Vehicle and Highway Systems Technology Policy and Institutional Issues	18
6.6	Cooperative Vehicle and Highway Systems Policy and Institutional Issues	18
Annex A (informative)	ISO 14813-1 ITS Service domains and services	20
Bibliography		27