

ISO/TS 21219-16:2016-09 (E)

Intelligent transport systems - Traffic and travel information via transport protocol exports group, generation 2 (TPEG2) - Part 16: Fuel price information and availability (TPEG2-FPI)

Contents		Page
Foreword		v
Introduction		vii
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Abbreviated terms	2
5	Application specific constraints	3
5.1	Application identification	3
5.2	Version number signalling	3
5.3	Ordered Components	3
5.4	Extension	4
5.5	TPEG Service Component Frame	4
6	FPI Structure	4
6.1	General	4
6.2	FPI Structuring concepts	4
6.2.1	Design	4
6.2.2	Factoring out definitions	5
6.2.3	Transmission of tables of information	6
6.2.4	MMC usage and FPI message combinations	7
6.3	FPI Message structure	9
6.3.1	General	9
6.3.2	FuelingDefinitions	11
6.3.3	StationFuelingInformation	12
6.3.4	Station Extra Information	13
6.3.5	Station Site Information	14
6.3.6	Station Location Information	14
7	FPI Message components	16
7.1	FPIMessage	16
7.2	FPIapplicationContainerTemplate	17
7.3	FuelingDefinitions	17
7.4	MessageManagement	18
7.5	StationExtraInfoCluster	18
7.6	StationExtraInformation	19
7.7	StationFuelingInfoCluster	20
7.8	StationMapLocationCluster	21
7.9	StationNavLocationAlongRoadCluster	21
7.10	StationPOILocationCluster	22
7.11	StationSiteInfo	22
7.12	StationSiteInfoCluster	23
7.13	GeographicCoverageLocation	24
7.14	MessageManagementContainerLink	24

7.15	MMCMasterMessageLink	24
7.16	MMCMessagePartLink	24
7.17	StationEntryLocation	24
7.18	StationMapLocation	24
7.19	RoadLocation	24
7.20	StationExitLocation	24
8	FPI Datatypes	25
8.1	FuelDeliveryRestrictionType	25
8.2	FuelTypeInfoInformation	25
8.3	FuelTypePrice	25
8.4	StationContactInformation	26
8.5	POILinkType	26
8.6	SizeRestrictions	26
8.7	StationBrandAndRating	27
8.8	StationFuelingInformation	27
8.9	StationMapLocationInfo	28
8.10	StationLocationVectorInfo	28
8.11	StationPOILocationInfo	29
8.12	WGS84coordinate	29
9	FPI Tables	30
9.1	Introduction of FPI Tables	30
9.2	fpi001:DeliveryUnitType	30
9.3	fpi003:FuelKindType	30
9.4	fpi004:PaymentMethodType	31
9.5	fpi005:FuelServicePolicyType	32
9.6	fpi006:AssociatedServiceType	32
9.7	fpi007:SpatialResolution	32
9.8	fpi008:FuelBrand	33
9.9	fpi009:AltFuelBrand	38
	Annex A (normative) TPEG application, TPEG-Binary Representation	39
	Annex B (normative) TPEG application, TPEG-ML Representation	52
	Bibliography	62