

ISO/TS 21219-9:2016-04 (E)

Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 9: Service and network information (TPEG2-SNI)

Contents

	Page
Foreword	v
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	4
5 Application specific constraints	5
5.1 Application identification	5
5.2 Version number signalling	5
5.3 TPEG 1 binary compatibility of SNI	5
5.4 TPEG Service Component Frame	5
5.5 Conceptual model -- Multiplexed applications and services	5
6 Design principle	6
6.1 Variable content referencing	6
6.2 Example of the TPEG-SNI application in a TPEG data-stream	7
6.3 Concept of allocating services	8
6.4 General rules for the TPEG-SNI application	10
7 SNI Structure	11
8 SNI Message components	11
8.1 SNI1Template	11
8.1.1 General	11
8.1.2 Usage of the version number	12
8.2 CurrentServiceInformation	12
8.3 ServiceLogo	12
8.4 SubscriberInformation	13
8.5 FreeTextInformation	13
8.6 HelpInformation	13
8.7 GST_GuideToServiceTables	13
8.8 GST1_FastTuningTable	14
8.9 GST2_TimeScheduleTable	15
8.10 GST3_ContentDescription	15
8.11 GST4_GeographicalCoverage	16
8.12 GST5_ServiceComponentReset	16
8.13 GST6_ConditionalAccessInformationReference	16
8.14 GST7_Versioning	16
8.15 GST_ServiceTableAccelerator	17
8.16 LinkageToSameService	17
8.17 Same Service Definition	18
8.18 LinkageToRelatedService	19
8.19 Reserved for future use	19

8.20	BearerLinkageInfoDAB	19
8.21	BearerLinkageInfoDARC	19
8.22	BearerLinkageInfoDVB	19
8.23	BearerLinkageInfoURL	20
8.24	BearerLinkageInfoHDRadio	20
8.25	SIT_ServiceInformationTables	20
8.26	SIT1_NumberOfMessages	21
9	SNI Datatypes	22
9.1	MaskedTime	22
9.2	DayMask	22
9.3	AppStartTime	22
9.4	TimeSlot	23
9.5	OpTime	23
9.6	GeographicCoverage	24
9.7	CoordinatePair	24
9.8	ByteField	24
9.9	GST1_Entry	24
9.10	GST2_Entry	25
9.11	GST3_Entry	26
9.12	GST4_Entry	26
9.13	GST5_Entry	26
9.14	GST6_Entry	26
9.15	GST7_Entry	27
9.16	RelatedServiceEntry	27
9.17	DABFrequency	28
9.18	DVBFrequency	28
9.19	FMMFrequency	28
9.20	AMFrequency	28
9.21	SameServiceEntry	29
9.22	SIT1_Entry	30
9.23	HDRadioStationID	30
9.24	HDFMBearerInfo	31
9.25	HDAMBearerInfo	31
10	SNI Tables	31
10.1	sni001:GraphicType	31
10.2	sni002:CharacterEncoding	32
	Annex A (normative) TPEG SNI, TPEG-Binary Representation	33
	Annex B (normative) TPEG SNI, tpegML representation	49
	Bibliography	62