

ISO 17419:2018 (E)

Intelligent transport systems — Cooperative systems — Globally unique identification

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols and abbreviated terms
5	Management issues
5.1	General
5.2	ITS communications architecture
5.3	PKI architecture
5.4	Regulations and policies
5.5	ITS station
5.5.1	ITS station architecture
5.5.2	Instantiations of an ITS station
5.6	Applications and messages
5.6.1	ITS application
5.6.2	ITS application class
5.6.3	ITS message sets
5.7	Communications
5.7.1	Addressing in the communication protocol stack
5.7.2	ITS-S management
5.7.3	ITS-S Security
5.8	Identifiers and addresses summary
6	GCMA organizational framework
6.1	Overview
6.2	Registration of globally unique identifiers
6.3	Certification of ITS-S equipment
6.4	Certification of ITS-S application processes
6.5	Issuance of ITS-SCU credentials
6.6	Issuance of certificates for real-time operation
6.7	ITS application repository
6.8	Secure installation and maintenance of facilities and communication protocols
6.9	Registries
6.9.1	General
6.9.2	ITS application objects
6.9.3	ITS message sets
6.9.4	ITS regulatory regions
6.9.5	ITS policy regions
6.9.6	ITS port numbers
6.9.7	ITS flow types
6.9.8	ITS logical channels
6.9.9	ITS station units
6.9.10	ITS station communication units
6.9.11	ITS-S application process provisioner
6.9.12	ITS-S equipment manufacturers
6.9.13	ITS application object owners

- 6.9.14 ITS message set owners
- 6.9.15 ITS-S application process developers
- 6.9.16 ITS-S facility layer services
- 6.9.17 ITS-SCU configuration management centres
- 6.9.18 ITS communication protocol stacks
- 6.9.19 ITS protocol identifier
- 6.9.20 IANA registries
- 6.9.21 IEEE registries
- 6.10 Wrong behaviour reporting

7 GCMA technical framework

- 7.1 Addresses and identifiers
 - 7.1.1 Overview
 - 7.1.2 ITS-AID
 - 7.1.3 ITS-SAPID
 - 7.1.4 ITS-MsgSetID
 - 7.1.5 ITS-PN
 - 7.1.6 ITS-FlowTypeID
 - 7.1.7 ITS-LCHID
 - 7.1.8 ITS-SUID
 - 7.1.9 ITS-SCUID
 - 7.1.10 ITS-S-APPID
 - 7.1.11 ITS-RRID
 - 7.1.12 ITS-PRID
 - 7.1.13 ITS-SEMID
 - 7.1.14 ITS-AOIID
 - 7.1.15 ITS-ATT
 - 7.1.16 ITS-MSOID
 - 7.1.17 ITS-SAPIID
 - 7.1.18 ITS-S-APDID
 - 7.1.19 ITS-SAPSSID
 - 7.1.20 ITS-SecAlgID
 - 7.1.21 ITS-S-FSID
 - 7.1.22 ITS-SCU-CMCID
 - 7.1.23 ITS-ProtStckID
 - 7.1.24 ITS-ProtID
- 7.2 Online management
 - 7.2.1 Secure installation and maintenance of ITS-S application processes
 - 7.2.2 Secure installation of ITS-S protocols and control functions
 - 7.2.3 Registration of ITS-S application processes with the ITS-S management entity
 - 7.2.4 Data flow management
 - 7.2.5 Management of certificates for real-time communications
 - 7.2.6 Exception reporting

Annex A (normative) ASN.1 modules

- A.1 Overview
- A.2 Module CITSdataDictionary1
- A.3 Module CITSapplMgmtAppIReg

Annex B (informative) ITS-AID allocation request template