

DIN EN ISO 17423:2025-07 (E)

Intelligent transport systems - Application requirements and objectives (ISO 17423:2025); English version EN ISO 17423:2025

Contents		Page
Foreword.....		v
Introduction.....		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Abbreviated terms	2
5	Communication service parameters	3
5.1	Abstraction of application processes from communications.....	3
5.2	Communication service parameter classes.....	7
5.3	Operational CSPs.....	7
5.3.1	List of CSPs.....	7
5.3.2	Logical channel.....	7
5.3.3	Session continuity.....	8
5.3.4	Average ADU generation rate.....	8
5.3.5	Flow type.....	8
5.3.6	Maximum priority.....	8
5.3.7	Port number.....	8
5.3.8	Expected flow lifetime.....	9
5.4	Destination CSPs.....	9
5.4.1	List of CSPs.....	9
5.4.2	Destination type.....	9
5.4.3	Destination domain.....	9
5.4.4	Communication distance.....	10
5.4.5	Directivity.....	10
5.5	Performance CSPs.....	10
5.5.1	List of CSPs.....	10
5.5.2	Resilience.....	10
5.5.3	Minimum required throughput.....	10
5.5.4	Maximum allowed latency.....	11
5.5.5	Maximum ADU size.....	11
5.6	Security CSPs.....	11
5.6.1	List of CSPs.....	11
5.6.2	Need for data confidentiality.....	11
5.6.3	Need for data integrity.....	12
5.6.4	Need for non-repudiation.....	12
5.6.5	Need for source ITS-S application process authentication.....	12
5.7	Protocol CSP.....	12
5.7.1	List of CSPs.....	12
5.7.2	Communication protocol stack.....	12
5.7.3	Specific communications protocols.....	12
5.8	CSPs for sinks.....	13
5.9	CSPs overview.....	13
6	Policies and regulations	14
6.1	Cost policy.....	14
6.1.1	List of rules.....	14
6.1.2	Flat rate.....	15
6.1.3	Maximum rate per data unit.....	15

6.1.4	Maximum rate per connection time.....	15
6.1.5	Maximum rate per connection.....	16
6.2	Need for station anonymity.....	16
6.3	Need for station location privacy.....	16
6.4	Support of station authentication.....	16
7	ITS-S procedures for ITS-S communication profile selection.....	16
7.1	Overview.....	16
7.2	Presentation of CSPs.....	17
7.3	Monitoring of capabilities of communications.....	18
7.4	Monitoring of regulations and policies.....	18
7.5	Selection of ITS-S communication profiles.....	18
7.6	Interaction with user of ITS-SU.....	19
7.7	Support of other application processes.....	19
Annex A (normative) ASN.1 modules.....		20
Annex B (informative) Example of presentation of CSPs.....		27
Annex C (informative) Communication requirements and objectives.....		30
Bibliography.....		33