

# ISO/TS 15638-13:2015-12 (E)

## Intelligent transport systems - Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) - Part 13: "Mass" information for jurisdictional control and enforcement

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vii
1	Scope .....	1
2	Conformance .....	1
3	Normative references .....	2
4	Terms and definitions .....	2
5	Symbols and abbreviated terms .....	8
6	General overview and framework requirements .....	9
7	Requirements for services using generic vehicle data .....	10
8	Application services that require data in addition to basic vehicle data .....	10
8.1	General .....	10
8.2	Quality of service requirements .....	10
8.3	Test requirements .....	10
8.4	Marking, labelling, and packaging .....	10
9	Common features of regulated TARV application services .....	10
9.1	General .....	10
9.2	Common role of the jurisdiction, approval authority, service provider and user .....	11
9.3	Common characteristics for instantiations of regulated application services .....	12
9.4	Common sequence of operations for regulated application services .....	12
9.5	Quality of service .....	12
9.6	Information security .....	12
9.7	Data naming content and quality .....	12
9.8	Software engineering quality systems .....	12
9.9	Quality monitoring station .....	12
9.10	Audits .....	12
9.11	Access control policy .....	12
9.12	Approval of IVSs and service providers .....	12
10	Mass information for jurisdictional control and enforcement (MICE) .....	12
10.1	TARV MICE service description and scope -- MICE use cases .....	12
10.1.1	General .....	12
10.1.2	Jurisdiction -- Regulatory, safety, and funding .....	15
10.1.3	Vehicle operators - Regulatory observance .....	16
10.1.4	Jurisdiction -- Assessment and collection .....	16
10.1.5	Approval authority -- Approval and audit of ASP system .....	16
10.2	Concept of operations for Mass information for jurisdictional control and enforcement (MICE) .....	16
10.2.1	General .....	16
10.2.2	Statement of the goals and objectives of the TARV MICE system .....	17

10.2.3	Strategies, tactics, policies, and constraints affecting the system .....	18
10.2.4	Organisations, activities, and interactions among participants and stakeholders .....	19
10.3	Vehicle Mass information for jurisdictional control and enforcement data (Miced) .....	21
10.4	MICE use cases .....	22
10.4.1	Approaching MICE zone .....	22
10.4.2	Within MICE zone .....	22
10.4.3	Leaving MICE zone .....	23
10.4.4	Reporting .....	23
10.4.5	Possible access control .....	24
10.5	Clear statement of responsibilities and authorities delegated .....	24
10.6	Equipment required for TARV MICE .....	25
10.6.1	TARV IVS .....	25
10.6.2	Equipment periphery/connected to the IVS .....	26
10.6.3	TARV MICE `app` .....	26
10.6.4	MICE applications and systems .....	26
10.7	Operational processes for the system .....	26
10.7.1	Define and update MICE zone .....	26
10.7.2	Operational processes for the system -- Approaching MICE zone .....	27
10.7.3	Operational processes for the system -- within MICE zone .....	27
10.7.4	Operational processes for the system -- exiting MICE zone .....	27
10.7.5	Reporting .....	27
10.8	Sequence of operations for TARV MICE .....	28
10.8.1	MICE service element (MICE SE1): Define MICE zone .....	28
10.8.2	MICE service element (MICE SE2): Publish regulation .....	28
10.8.3	MICE service element (MICE SE3): Detect approaching regulated vehicle .....	28
10.8.4	MICE service element (MICE SE4): `Interrogated` request for vehicle data .....	28
10.8.5	MICE service element (MICE SE5): ASP notifies jurisdiction or its agents of approaching vehicle .....	29
10.8.6	MICE service element (MICE SE6): Grant/deny access .....	29
10.8.7	MICE service element (MICE SE7): Periodic or requested updates .....	29
10.8.8	MICE service element (MICE SE8): Vehicle egress .....	29
10.9	Generic TARV MICE data naming content and quality .....	29
10.10	Specific TARV MICE data naming content and quality .....	29
10.11	TARV MICE application service specific provisions for quality of service .....	30
10.12	TARV MICE application service specific provisions for test requirements .....	30
10.13	TARV MICE application specific rules for the approval of IVSs and `Service Providers` ....	30
11	Declaration of patents and intellectual property .....	30
	Annex A (informative) ASN.1 Modules for ISO 15638-13 data concepts .....	32
	Annex B (informative)IndependenttestingoftheprotocolsdefinedinthispartofISO15638 .....	35
	Bibliography .....	62